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Estudio sobre la flora de Guinea Ecuatorial: catálogo florístico del río Muni y
sapotáceas de Guinea Ecuatorial

MEMORIA PARA OPTAR AL GRADO DE DOCTOR

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Memoria de Tesis Doctoral

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Resumen

Estudio sobre la flora de Guinea Ecuatorial: catálogo florístico de Río Muni y Sapotáceas de Guinea Ecuatorial.

Introducción

En países como Guinea Ecuatorial es complicado realizar análisis sobre su biodiversidad vegetal (como áreas protegidas o conservación de especies) cuando no conocemos ni una aproximación sobre las especies que habitan en la región. En el marco de este problema, el Proyecto de la Flora de Guinea Ecuatorial, del Real Jardín Botánico de Madrid lleva los últimos 30 años poniendo remedio y elaborando tanto catálogos generales como monografías sobre familias. Guinea Ecuatorial es un país africano situado en el golfo de Biafra, tropical, y con una región continental denominada Río Muni y dos islas, Bioko y Annobón. Justamente de estas dos islas se han publicado catálogos florísticos preliminares.

Objetivos

- Elaboración de una *checklist* con los taxones vegetales citados en Río Muni.
- Además de georreferenciar las localidades citadas, con los datos obtenidos de la checklist se elabora un análisis florístico.
- Realización de una síntesis taxonómica general de la familia *Sapotaceae* Juss. en Guinea Ecuatorial y países limítrofes (Gabón, Camerún y Santo Tomé y Príncipe).

Resultados

Para completar el catálogo general del país, se presenta un catálogo actualizado de las plantas vasculares de la región continental de Guinea Ecuatorial (Río Muni). El catálogo es fruto de la compilación de especímenes de herbario (6850), registros de especies de la literatura botánica (7985) y bases de datos en línea (10109 registros de GBIF y 8897 de RAINBIO). Se elaboró una base de datos de 23517 registros georreferenciados realizando la actualización nomenclatural y estandarización de los nombres de localidades de todas estas fuentes. El catálogo comprende 2707 taxones (2598 especies, 81 subespecies y 28 variedades) incluidos en 1020 géneros y 178 familias. El 90,6% de los taxones se consideran nativos, el 1,17% introducidos y el 5,96% naturalizados. Solo 11 especies pueden considerarse endémicas de Río Muni; este bajo número refleja la ausencia de barreras naturales en el territorio. El número de taxones amenazados (VU, EN y CR) es de 134 (5,02% del total evaluado) de los cuales 43 se encuentran en riesgo de extinción, al estar dentro de las categorías de En Peligro o En Peligro Crítico. Cinco especies restringidas al Golfo de Guinea se consideran amenazadas. Se incluye un listado de las localidades georreferenciadas y un estudio exhaustivo de los colectores botánicos en Río Muni.

Además, se ha realizado un estudio de la familia *Sapotaceae* Juss. en Guinea Ecuatorial, con todas las especies de las que se conocen citas en el país, así como de las que se encuentran en países cercanos (como Santo Tomé, Camerún o Gabón) y de hábitats parecidos a los que podemos encontrar en Guinea siendo, por tanto, especies candidatas a ser encontradas, en posteriores expediciones, en Guinea Ecuatorial. Tenemos constancia de la presencia de 12 géneros y 26 especies, aunque esos datos se podrían elevar hasta los 17 géneros y 79 especies, teniendo en cuenta las citas de Gabón, Camerún y Santo Tomé y Príncipe. El género con citas confirmadas en Guinea Ecuatorial con más importancia a nivel de

número de especies es *Chrysophyllum*, con 9 especies, pero si consideramos todas las que creemos que podrían encontrarse en el país, el género mejor representado sería *Synsepalum*, con 18 especies.

Conclusiones

Sobre el capítulo de la *checklist* de Río Muni:

- Se amplía la distribución conocida para 247 especies, gracias a las nuevas citas para RíoMuni (75) y Guinea Ecuatorial (172).
- El estatus y categoría de las especies se basan en pocas recolecciones, por lo que su variación es muy sensible al aumento de colecciones.
- Este catálogo aumenta considerablemente las especies de la región con respecto a catálogos anteriores (26% respecto al más moderno, de 2017).
- El principal porcentaje de las especies del catálogo corresponde a taxones nativos (casiel 90%), siendo el más bajo el de taxones introducidos (1.2%).
- *Rubiaceae*, *Fabaceae*, *Orchidaceae*, *Poaceae*, *Euphorbiaceae*, *Apocynaceae*, *Cyperaceae*, *Annonaceae*, *Acanthaceae* y *Melastomataceae* comprenden aproximadamente la mitad de las especies de Río Muni, siendo *Rubiaceae* la más diversa con 294 especies.
- El bajo número de endemismos se debe a la ausencia de barreras naturales en el territorio.
- El Parque Nacional Monte Alén es el Área Protegida más importante de Río Muni, ya que alberga la mitad de las citas de especies amenazadas.
- Las regiones protegidas de Río Campo y Montes Temelón no incluyen ninguna ocurrencia de especies amenazadas. Esto indica la necesidad de aumentar las colecciones y citas para desarrollar unas labores de conservación buenas y útiles.
- Se deben ampliar las regiones protegidas de Río Muni, para que incluyan las especies amenazadas y endémicas.

Sobre el capítulo de *Sapotaceae*:

- En Guinea Ecuatorial podemos encontrar 26 especies de la familia *Sapotaceae*, organizados en 12 géneros; el incremento esperado tras próximas recolecciones es de un 41.6% para los géneros y de más de un 200% para las especies.
- Ante la falta de consenso y de estudios moleculares concluyentes, se han incluido *Gambeya* en *Chrysophyllum*, y *Pseudopachystela*, *Pachystela*, *Tulestea* y *Vincentella* en *Synsepalum*.
- Las especies *Chrysophyllum boukokoëense* y *Manilkara pellegriniana* no habían sido

citadas anteriormente en Guinea Ecuatorial.

- El género *Chrysophyllum* supone el 34.6% de las especies de *Sapotaceae* de las que tenemos constancia en Guinea Ecuatorial, siendo el más amplio; sin embargo, si consideramos las especies que potencialmente estarían en Guinea Ecuatorial, *Synsepalum* es el género más amplio, suponiendo el 23% de las especies.
- Es necesario realizar expediciones para aumentar el número de colecciones, y poder confirmar así las citas que presentamos de Camerún, Gabón o Santo Tomé y Príncipe.
- Es necesario la realización de estudios moleculares para poder definir bien el género
- *Chrysophyllum*, *Manilkara* o *Synsepalum*.

La conclusión general y transversal tras la realización de este trabajo es que, aunque aquí se presente un catálogo de las Sapotáceas y otro general de Río Muni, ambos van precedidos por la palabra *preliminar*, ya que el material y conocimiento existente es muy limitado, siendo por tanto necesario la recolección de abundante material.

Abstract

Study on the flora of Equatorial Guinea: Checklist of Vascular Plants of Río Muni and *Sapotaceae* of Equatorial Guinea.

Introduction

In countries like Equatorial Guinea, it is difficult to carry out analyses of their plant biodiversity (such as protected areas or species conservation) when we do not know even an approximation of the species that inhabit the region. Within the framework of this problem, the Flora of Equatorial Guinea Project, of the Royal Botanical Garden of Madrid, has spent the last 30 years remedying and preparing both general checklist and monographs on families. Equatorial Guinea is an African country located in the tropical Gulf of Biafra, with a continental region called Río Muni and two islands, Bioko and Annobón. Preliminary floristic checklist have been published precisely for these two islands.

Objectives

- Preparation of a checklist with the plant taxa cited in Río Muni.
- In addition, with the data obtained from the checklist, a floristic analysis is prepared, in addition to georeferencing the mentioned localities.
- General taxonomic synthesis of the family *Sapotaceae* Juss. in Equatorial Guinea and neighboring countries (Gabon, Cameroon and São Tomé and Príncipe).

Results

To complete the general checklist of the country, an updated catalog of the vascular plants of the continental region of Equatorial Guinea (Río Muni) is presented. The catalogue is the result of the compilation of herbarium specimens (6850), species records (7985) from the botanical literature and online databases (10109 GBIF records and 8897 RAINBIO records). A database of 23517 georeferenced records was prepared by updating the nomenclatural and standardizing the locality names from all these sources. The catalogue comprises 2707 taxa (2598 species, 81 subspecies, and 28 varieties) included in 1020 genera and 178 families. About 90.6% of the taxa are considered native, 1.17% introduced and 5.96% naturalized. Only 11 species can be considered endemic to Río Muni; this low number reflects the absence of natural barriers in the territory. The number of threatened taxa (VU, EN and CR) is 134 (5.02% of the total evaluated), of which 43 are at risk of extinction, being within the categories of Endangered or Critically Endangered. Five species restricted to the Gulf of Guinea are considered threatened; they should be considered as priority in management plans development and conservation strategies. A list of the georeferenced localities and an exhaustive study of the botanical collectors in Río Muni are included.

Also, a monographic study of the *Sapotaceae* Juss. family in Equatorial Guinea has been carried out, with all the species that are known to be recorded in the country, as well as those found in nearby countries (such as Cameroon or Gabon) and with habitats similar to those found in Equatorial Guinea, being therefore candidate species to be found, in subsequent expeditions, in Equatorial Guinea. We have evidence of the presence of 12 genera and 26 species; although these data could rise to 17 genera and 79 species, taking into account the records from Gabon, Cameroon and Sao Tome and Principe. The most important genus

with confirmed records in Equatorial Guinea in terms of number of species would be *Chrysophyllum*, with 9 species, but if we consider all those that we believe could be found in the country, the most abundant genus would be *Synsepalum*, with 18 species.

Conclusions

About the Río Muni checklist:

- The known distribution is extended to 247 species, thanks to the new records for Río Muni (75) and Equatorial Guinea (172).
- The status and category of the species are based on few collections, so its variation is very sensitive to the increase in collections.
- This catalog considerably increases the species of the region with respect to previous catalogues.
- The main percentage of the species in the catalog corresponds to native taxa, the lowest being introduced taxa.
- Rubiaceae, Fabaceae, Orchidaceae, Poaceae, Euphorbiaceae, Apocynaceae, Cyperaceae, Annonaceae, Acanthaceae and Melastomataceae comprise approximately half of the species in Río Muni, Rubiaceae being the most diverse with 294 species.
- The low number of endemism is due to the absence of natural barriers in the territory.
- The Monte Alén National Park is the most important Protected Area of Río Muni, since it houses half of the appointments of threatened species.
- The protected regions of Río Campo and Montes Temelón do not include any occurrence of threatened species. This indicates the need to increase collections and citations to develop good and useful conservation efforts.
- The protected regions of Río Muni should be expanded to include threatened and endemic species.

About the *Sapotaceae* family:

- Although in Equatorial Guinea we can find 26 species of the *Sapotaceae* family, organized into 12 genera, the expected increase after future collections is 41.6% for the genera and more than 200% for the species.
- It is necessary to carry out expeditions to increase the number of collections, and thus be able to confirm the citations that we present from Cameroon, Gabon or Sao Tome and Principe. An example is *Autranella congolensis*, of which we only know of unspecified citations.

- It is necessary to carry out molecular studies to be able to define the genus *Chrysophyllum*, *Manilkara* or *Synsepalum* well.
- Given the lack of consensus and conclusive molecular studies, *Gambeya* has been included in *Chrysophyllum*, and *Pseudopachystela*, *Pachystela*, *Tulestea* and *Vincentella* in *Synsepalum*.
- The species *Chrysophyllum boukokoënse* and *Manilkara pellegriniana* had not been previously reported in Equatorial Guinea.
- The genus *Chrysophyllum* accounts for 34.6% of the *Sapotaceae* species of which we have evidence in Equatorial Guinea, being the largest; however, if we consider the species that would potentially be in Equatorial Guinea, *Synsepalum* is the largest genus, accounting for 23% of the species.

In addition, the general and transversal conclusion after carrying out this work is that although a catalog of the *Sapotaceae* and another general of Río Muni are presented here, both are preceded by the preliminary word, since the material and existing knowledge is very limited, being therefore necessary the collection of abundant material.

Introducción y Objetivos



1.1 Prólogo: El proyecto *Flora de Guinea Ecuatorial* y la importancia de la conservación de la Naturaleza.

Los números de la biodiversidad no son fáciles de extraer, dado que no existe una única *base de datos* de especies, pero podemos aproximarnos a una cifra de 1.900.000 especies conocidas, de las que 315.000 son plantas (Mounce *et al.*, 2017), y ascendiendo hasta 378.239 especies según Catalogue of Life (www.catalogueoflife.org, 26/04/2023), faltando por conocer unas 9.400.000 especies (75.000 plantas) (Diéguez-Urbeondo & García-Valdecasas, 2011). Con estos datos, la descripción de especies nuevas en un mundo empeñado en destruir sus hábitats naturales se convierte en una hazaña a contrarreloj.

Esta tesis, englobada dentro del proyecto Flora de Guinea Ecuatorial, pretende realizar el estudio en Guinea Ecuatorial de la familia *Sapotaceae* Juss., siguiendo la estela de publicaciones de este proyecto (Fig. 1). Además, se realiza el primer catálogo de plantas vasculares de la región de Río Muni.

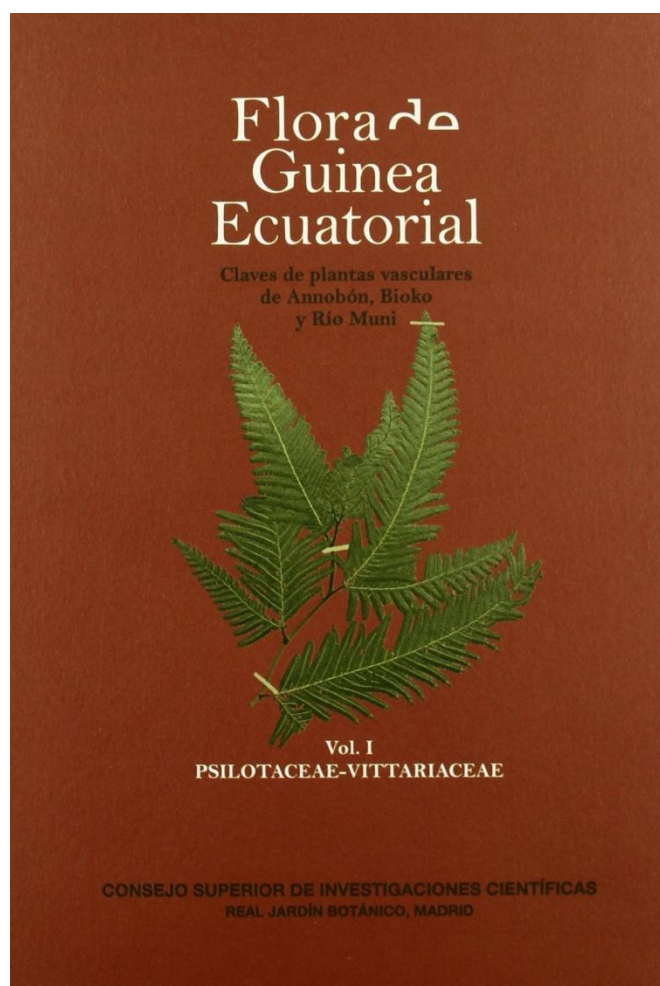


Figura 1: Portada del primer volumen de la Flora de Guinea Ecuatorial (2008)

Guinea Ecuatorial es un país de África central situado en el golfo de Biafra. Muy cercano al ecuador, las coordenadas del país están entre 1º y 2º N y 9º y 11º 30' E, a excepción de la isla de Annobón, que se encuentra en el hemisferio sur, en las coordenadas 1ºS y 5ºE.

A pesar de algunas expediciones científicas realizadas en Guinea Ecuatorial a lo largo de los siglos, y del empeño de varios autores por conocer la biodiversidad vegetal del país no es hasta 1986 cuando se empieza a ordenar toda esa información, y a sistematizar un trabajo que permita conocer la flora de Guinea Ecuatorial. Financiado por la Agencia Estatal de Cooperación Internacional hasta 2001 y después por el Plan Nacional de Investigación Científica, Desarrollo e Innovación Tecnológica del Ministerio de Ciencia y Tecnología (y siguientes denominaciones), el proyecto ha dado como fruto la publicación de decenas de artículos, más de 20.000 especímenes de herbario y una base de datos con más de 65.000 registros. Como fruto de estos trabajos se han publicado 5 tomos de la Flora de Guinea Ecuatorial (Fig. 1).

Hasta la fecha se han publicado dos artículos con las checklist o los catálogos preliminares de la flora de Bioko y de Annobón (Velayos *et al.*, 2013; Velayos *et al.*, 2014). Quedaba, por tanto, por abordar la checklist de las plantas que crecen en Río Muni, para completar un primer catálogo de plantas vasculares de Guinea Ecuatorial.

Si bien los últimos avances en técnicas informáticas o moleculares permiten realizar, por ejemplo, estudios biogeográficos o filogenéticos, lo cierto es que en Guinea Ecuatorial nos encontramos en el primer escalón, previo a dichos estudios; con la necesidad de describir mucho antes de analizar. La importancia de los catálogos de la vida, ya sean zoológicos, botánicos o de cualquier otra índole, son claves para la ciencia del futuro. En caso de continuar el descenso en este campo, la parálisis del análisis no llegará por el exceso de información sino por la ausencia de conocimiento. La descripción de endemismos, la conservación de especies y la distribución de las mismas no se puede llevar a cabo si desconocemos qué especies hay.

Como siempre que nos referimos a las mal conocidas floras tropicales, hay que mantener un equilibrio entre conveniencia y excelencia. La flora de Guinea no es una excepción y urge la creación de una herramienta que permita combatir la destrucción del hábitat, y de taxones que posiblemente desaparezcan antes de ser descubiertos. Tal y como indican Cabezas *et al.*, 2015, los protocolos de conservación no pueden esperar a que el catálogo definitivo se publique, puesto que algunas de las especies podrían ya haber desaparecido para ese momento. La falta de datos provoca que las labores de conservación de la biodiversidad sean demasiado generales. Merced a las checklist parciales de familias publicadas hasta la fecha, podemos pensar que la flora de Guinea debe estar formada por más de 7000 especies, cifra semejante a la flora ibérica, territorio este 21 veces más extenso que Guinea Ecuatorial.

En Guinea Ecuatorial el 93% de la superficie está cubierta por bosques. Dada la explotación maderera, petróleo, carreteras y otras acciones del hombre que provocan la deforestación o degradación de los bosques, la tasa de deforestación anual es del 0.3%, y de 0.9% la de degradación. Entre 2004 y 2014 se deforestaron 87000 (± 9000) hectáreas. Por regiones, el mayor índice de deforestación se encuentra en Bioko, mientras que el de degradación se da en la parte continental del país. En proporción, el caso más llamativo es el

de la isla de Annobón, con una deforestación anual del 0.7% y una degradación del 1.4% (FAO, 2019). Estos datos apoyan la necesidad urgente de conocer la biodiversidad vegetal del país.

1.2 Breve bosquejo de la historia moderna de Guinea Ecuatorial:

No es posible comprender la historia de los estudios de la naturaleza y de la conservación del medio natural en la actual Guinea sin conocer algo del devenir de su historia, y su estrecha relación con Europa.

Será en 1471 cuando el portugués Fernão do Pó (Fernando Poo, castellanizado) descubra la isla que después llevaría su nombre, y que hoy denominamos Bioko. Poco después, en algún momento entre el último mes de 1474 y el primero de 1475 se completa el descubrimiento de las islas guineanas cuando los navegantes Joao Santarém y Pedro Escobar llegan hasta las islas oceánicas de Santo Tomé, Príncipe y Annobón, denominada "Isla de Año Nuevo" por ser vista el 1 de enero de 1475, esta última se incluye actualmente en el territorio de Guinea Ecuatorial.

En 1479 el Tratado de Alcazobas entre Castilla y Portugal le daba a este último el derecho de navegación de las costas africanas, aunque el Papa Nicolás V ya había dictado la bula "*Romanus Pontifex*", reconociendo la autoridad portuguesa sobre Guinea, e instando a los cristianos a no apoyar el comercio de otros pueblos sin el permiso del rey de Portugal (Pérez Embid, 1948: 162). Sin embargo, con el descubrimiento de América en 1492, el equilibrio que Portugal creía haber alcanzado con Castilla al arrinconarles en una pequeña porción del mapa con escasas posibilidades, se desmoronó al recibir el 9 de marzo de 1493 Juan II de Portugal a Cristóbal Colón. Tras más de un año de disputas, se firma en 1494 el Tratado de Tordesillas, donde Portugal y Castilla se reparten el mundo conocido bajo sus dominios. Aunque parezca ajeno a la Historia de Guinea, este tratado será clave para la cesión del territorio africano a España en el siglo XVIII, de igual manera que será imprescindible para entender el porqué la isla de Bioko [Fernando Poo] se convirtió en un importante centro de tráfico de esclavos.

El primero de los pocos períodos en los que la isla no ha sido gobernada por españoles o portugueses desde entonces sería el año 1641, en el que la Compañía Holandesa de las Indias Orientales, sin permiso de la corona portuguesa, se instala en Bioko, convirtiéndola en el centro administrativo del comercio de esclavos (Sanchez Lavieja, 2021).

Llegado el siglo XVIII, el avance de los descubrimientos y el consecuente avance de disciplinas como la cartografía y la navegación el Tratado de Tordesillas se quedó completamente obsoleto. Con las cuestiones de América del Sur y el Brasil portugués sobre la mesa en 1777 se firma el Tratado Preliminar de Límites de San Ildefonso donde, ahora sí, tras una serie de concesiones y negociaciones, las islas de Guinea pasaban a la corona española así como los derechos de comercio de las costas continentales de este territorio, las comprendidas entre los ríos Níger y Ogooué. El proceso negociador se concretará en el Tratado de El Pardo, consignado en 1778 (Gallegos Vázquez, 2018: 107; de Souza Torres, 2003: 188).

El otro momento en el que el control de Bioko no es por parte de los europeos de la Península Ibérica se encuentra ya bajo dominio de España. A principios del XIX (y hasta 1843) serán los británicos, esta vez sí, auspiciados por las respectivas coronas europeas, los que controlen las relaciones internacionales de la actual Guinea Ecuatorial con el resto de territorios europeos. No obstante, a pesar de éste periodo y del mencionado de gobierno neerlandés, se podría afirmar que la interacción con el resto de Europa y América por parte de Guinea Ecuatorial ha sido dirigida por Portugal y España.

Aunque las posesiones de las islas eran claras desde 1778, en el reparto del territorio africano realizado en la Conferencia de Berlín de 1884 se da el primer paso para aclarar la posesión continental de España. La delimitación definitiva de la región del continente que hoy se incluye en Guinea Ecuatorial (que al mismo tiempo marca los límites usados en esta tesis para acotar el territorio de la Flora de Guinea Ecuatorial) llegaría en 1900. Será en el Tratado de París en el que se definirán los límites y la superficie de la colonia, estableciéndose un área de 26.000 kilómetros cuadrados, frente a los 200.000 que reclamaba España (García Ascanio, 2010: 2; Sánchez Lobera, 2014: 35) (Figura 2).



Figura 2: sello español de 1907 con Alfonso XII y la leyenda “Elobey, Annobón y Corisco”

Guinea Ecuatorial formó parte de España, con diversas denominaciones y diferentes regímenes legales hasta 1968. Bajo petición de la Organización de las Naciones Unidas, y con la supervisión del Comité de Descolonización de ese mismo organismo, se llevó a un referéndum en este 1968, dando como resultado la independencia de la totalidad del territorio de Guinea Ecuatorial, siendo elegido Francisco Macías como primer presidente de la República de Guinea Ecuatorial, que desde ese momento y hasta la actualidad es un país independiente (Figura 3) (Gorrín Hernández, 2020).



Figura 3: mapa escolar de 1944 de la región continental de la Guinea Española (fuente: <https://www.ign.es/web/catalogo-cartoteca/resources/html/028000.html>)

1.3 Historia Natural de Guinea Ecuatorial:

La República de Guinea Ecuatorial es un país formado por una isla oceánica llamada Annobón (17 km²), cuatro islas continentales: Corisco (15 km²), Elobey Grande (2.27 km²) y Elobey Chico (0.19 km²) y Bioko (2.017 km²), siendo la última de gran tamaño y donde se encuentra la capital, Malabo. Por último, la región más amplia es la continental, Río Muni, con 26.000 km². En total, el país tiene 28.051,46 km² (Cabezas, 2006), siendo por tanto algo menos extensa que la Comunidad Autónoma de Galicia, en España. Políticamente, está dividida en siete provincias: Bioko Norte y Bioko Sur (ambas en la isla del mismo nombre), Annobón, Litoral (donde además de región continental, se incluye Corisco y las Elobeyes), Wele-Nzas, Kie-Ntem y Centro Sur (las últimas cuatro en el continente). (Fig. 4)

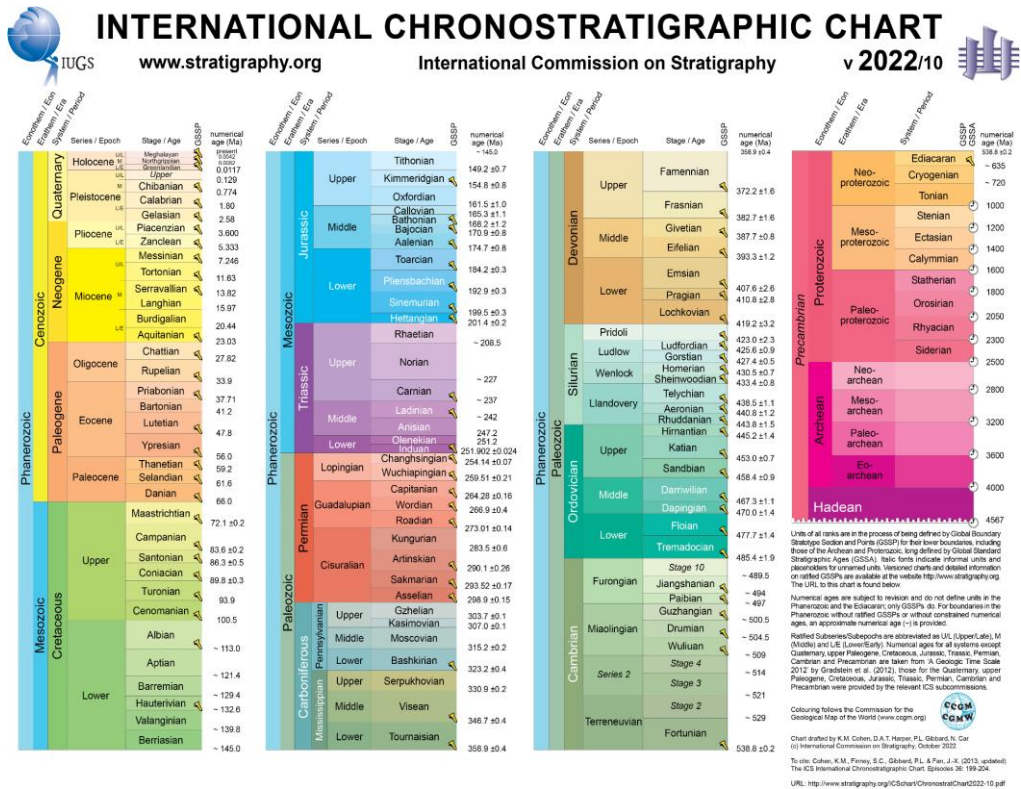


Figura 5: Tabla Cronoestratigráfica 2022 (fuente: <https://stratigraphy.org/chart>)

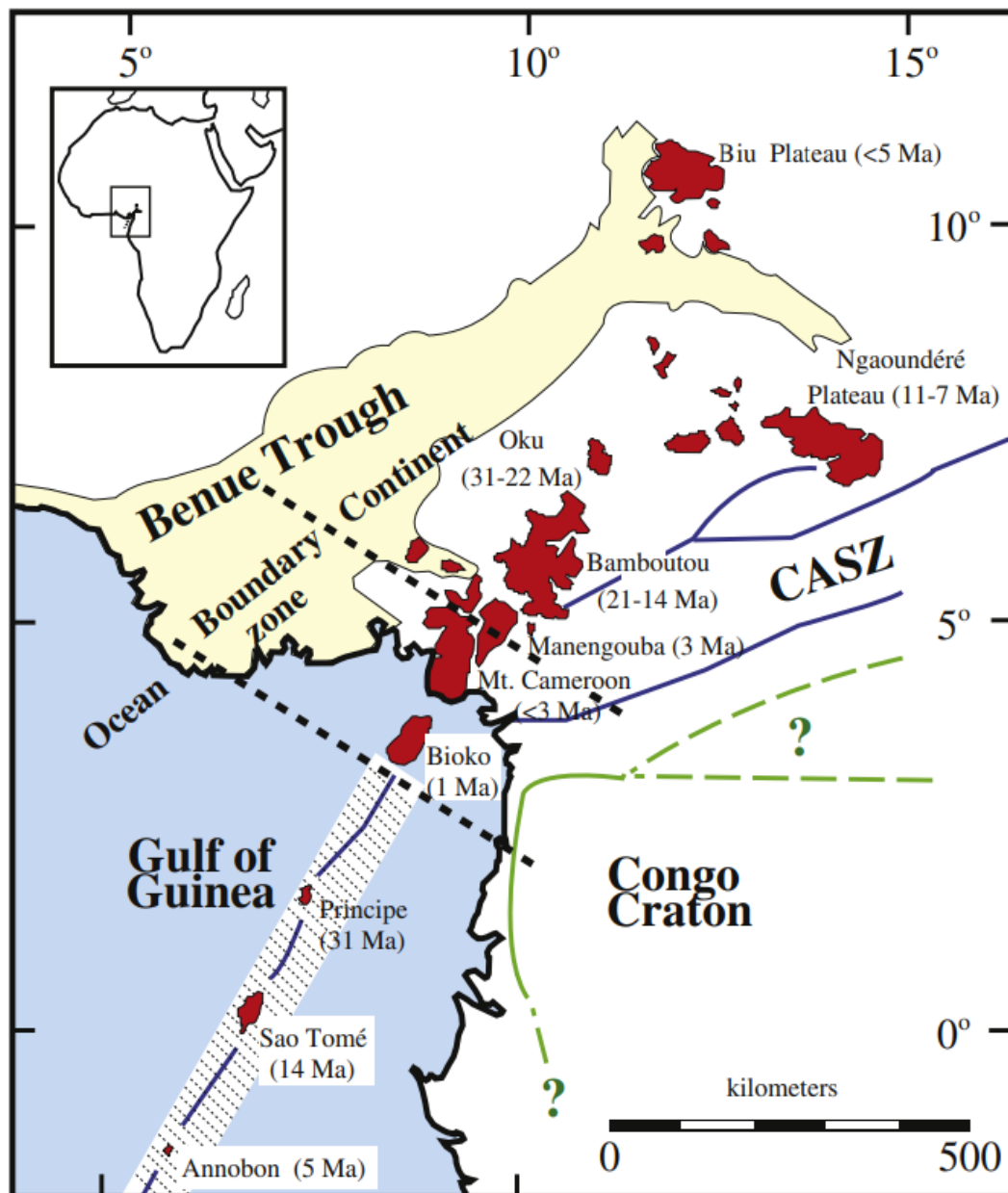


Figura 6: Línea Volcánica de Camerún (LCV) (Gannoun *et al*, 2015: 2)

Bioko es la isla más grande del Golfo de Guinea, y se encuentra a 37 km del continente (siendo Camerún su costa más cercana). Está compuesto por la unión de tres volcanes, que al superponer sus lavas dieron lugar al territorio actual: Pico Basilé, pico San Carlos (conocido como Caldera de Luba) y pico Biaó (Sánchez Moral & Rodríguez Berriguete, 2022), registrándose algunas erupciones recientes en 1898, 1903 y 1923 (Schlüter, 2006). El análisis de los basaltos de las lavas nos indican que todos estos volcanes son jóvenes, de aproximadamente 1.3 Ma aproximadamente, la misma edad que Monte Camerún (Yamgouot *et al.*, 2016). Es importante destacar que, aunque el origen de la isla es físicamente oceánico y volcánico, la isla está sobre la plataforma continental, ya que la profundidad de sus aguas no supera los 200 m de profundidad (siendo, de hecho, unos 60 m a lo sumo) (Rosas *et al.*, 2021), razón por la cual la consideramos a nivel biológico una isla continental y no oceánica o, como mencionan algunos autores, una isla semi-oceánica (Exell, 1973; Velayos *et al.*, 2013). Además,

parece evidente que hubo un ancho puente que conectó durante determinados períodos la isla con las costas de Camerún, siendo este último período hace 11.000 años (Ceríaco *et al.*, 2022). Esta conexión sería la responsable de la elevada biodiversidad de la isla, más propia del continente que de una isla oceánica, al igual que la baja tasa de endemismos que, sin embargo, en una isla oceánica (sin contacto posible con el continente) suele presentar más elevada. (Fig. 7)

Al contrario que Bioko, Annobón (también conocida como Pagalú) ha estado siempre aislada del continente, siendo la única isla oceánica del país. Es la isla más al sur de todo el Golfo de Guinea, y es el pico de un estratovolcán submarino de 5300 m de alto, alcanzando en la superficie solo 813 m (Schlüter, 2006). El aislamiento y la incomunicación con los humanos hasta hace 500 años ha provocado la evolución de especies únicas (Ceríaco *et al.*, 2022).

Por contraste con las islas mencionadas, de carácter volcánico, la región continental (Río Muni) se puede dividir en tres zonas (Ornia & Rodríguez Berriguete, 2022: 19):

- Rocas arcaicas del cratón del Congo:

Casi dos terceras partes de la región continental del país se encuentran sobre el Cratón del Congo (unos 2.800 Ma), teniendo una altitud media de 600 m. Aquí podemos observar diferentes estructuras morfológicas, como dos cadenas montañosas, una costera (de no más de 500 m de altitud) y otra interior (unos 1000 m de altitud), además de la zona comprendida entre las dos sierras y, por último la plataforma interior, más al este del país, con una penillanura. Esta zona está compuesta básicamente por gneises y facies granulíticas (Martínez Torres & Heras, 1995).

- Franja costera con rocas del Mesozoico y Cenozoico

Por antigüedad, la segunda zona en la que podemos dividir el continente es la franja costera, con materiales meso-cenozoicos en las cuencas de Douala (75% de la costa aproximadamente) y Gabón (25% restante) (Martínez Torres & Heras, 1995). De los materiales que componen esta zona, son de especial importancia los sedimentos de origen orgánico, ya que serán estos los que formen los depósitos de hidrocarburos tan importantes para la economía de Guinea Ecuatorial. La última de las zonas en las que hemos dividido el mapa geológico de Guinea es la zona de las cuencas intracratónicas, que hemos mencionado con anterioridad, como depresión entre las dos cadenas montañosas, denominada Depresión de Uoro, provocado por movimientos de cizalla. Estas depresiones tienden a rellenarse con sedimentos. También podemos observar los semigrabens, que por acción de fallas se forman cubetas con una dirección específica (Ornia & Rodríguez Berriguete, 2022)

- Cuencas intracratónicas del Mioceno

La última de las zonas en las que hemos dividido el mapa geológico de Guinea es la zona de las cuencas intracratónicas, que hemos mencionado con anterioridad, como depresión entre las dos cadenas montañosas, denominada Depresión de Uoro, provocado por

movimientos de cizalla. Estas depresiones tienden a rellenarse con sedimentos. También podemos observar los semigrabens, que por acción de fallas se forman cubetas con una dirección específica (Ornia & Rodríguez Berriguete, 2022) (Fig. 8)

En Río Muni, mención especial tienen los inselbergs, también denominados cerros cúpula. Se encuentran en la zona del Cratón del Congo, y son afloramientos rocosos, principalmente de granito o gneis, formados en el precámbrico y que sobresalen de la penillanura (Cabezas, 2006; Parmentier & Nguema, 2001).

Por último, están las tres islas del estuario del río Muni son Corisco y las dos Elobeyes, ambas en la cuenca del Congo, en la bahía de Corisco. Son ínsulas arenosas de sustrato del Mesozoico (Rosas *et al.*, 2022: 12).

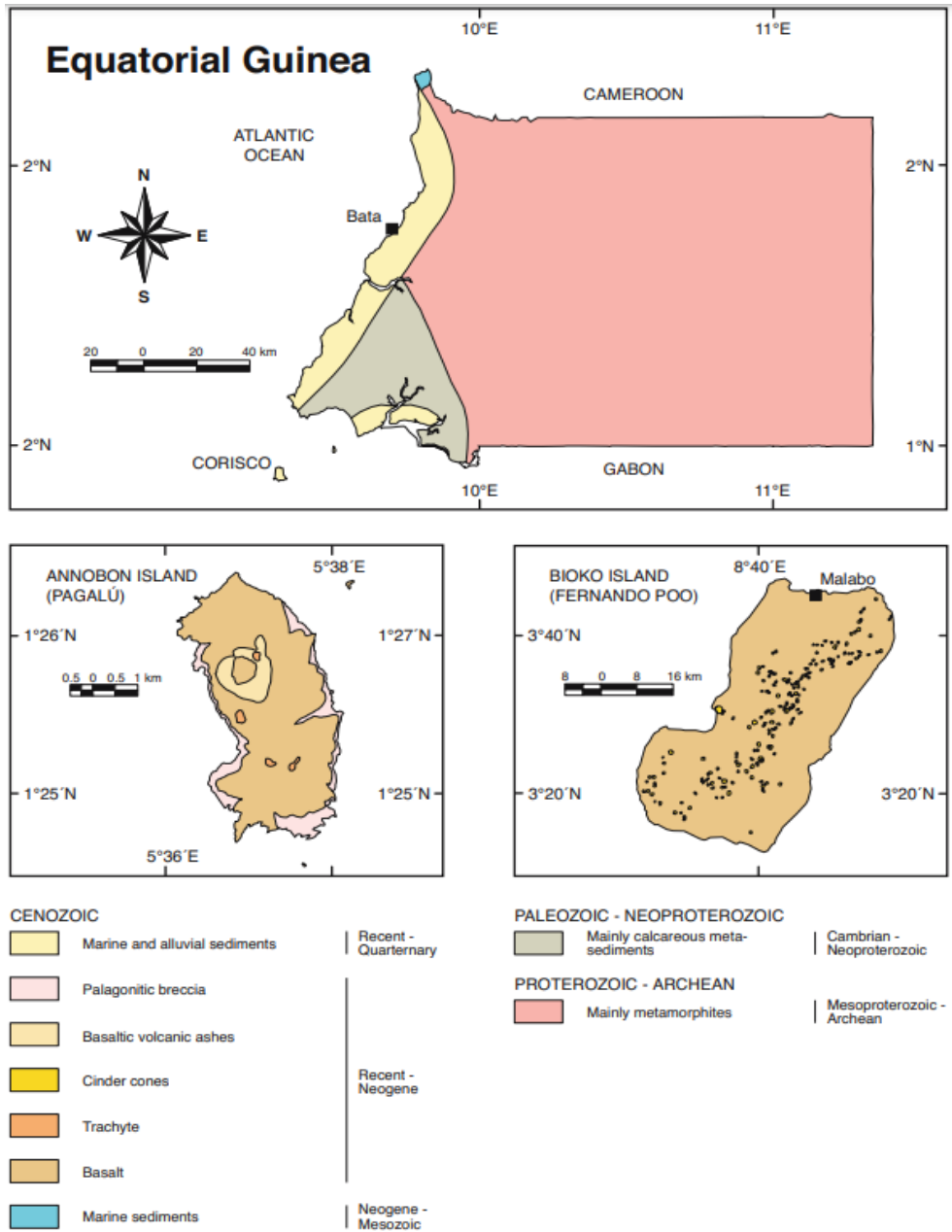


Figura 7: Vista general de la geología de Guinea Ecuatorial (Schlüter, 2006: 93)

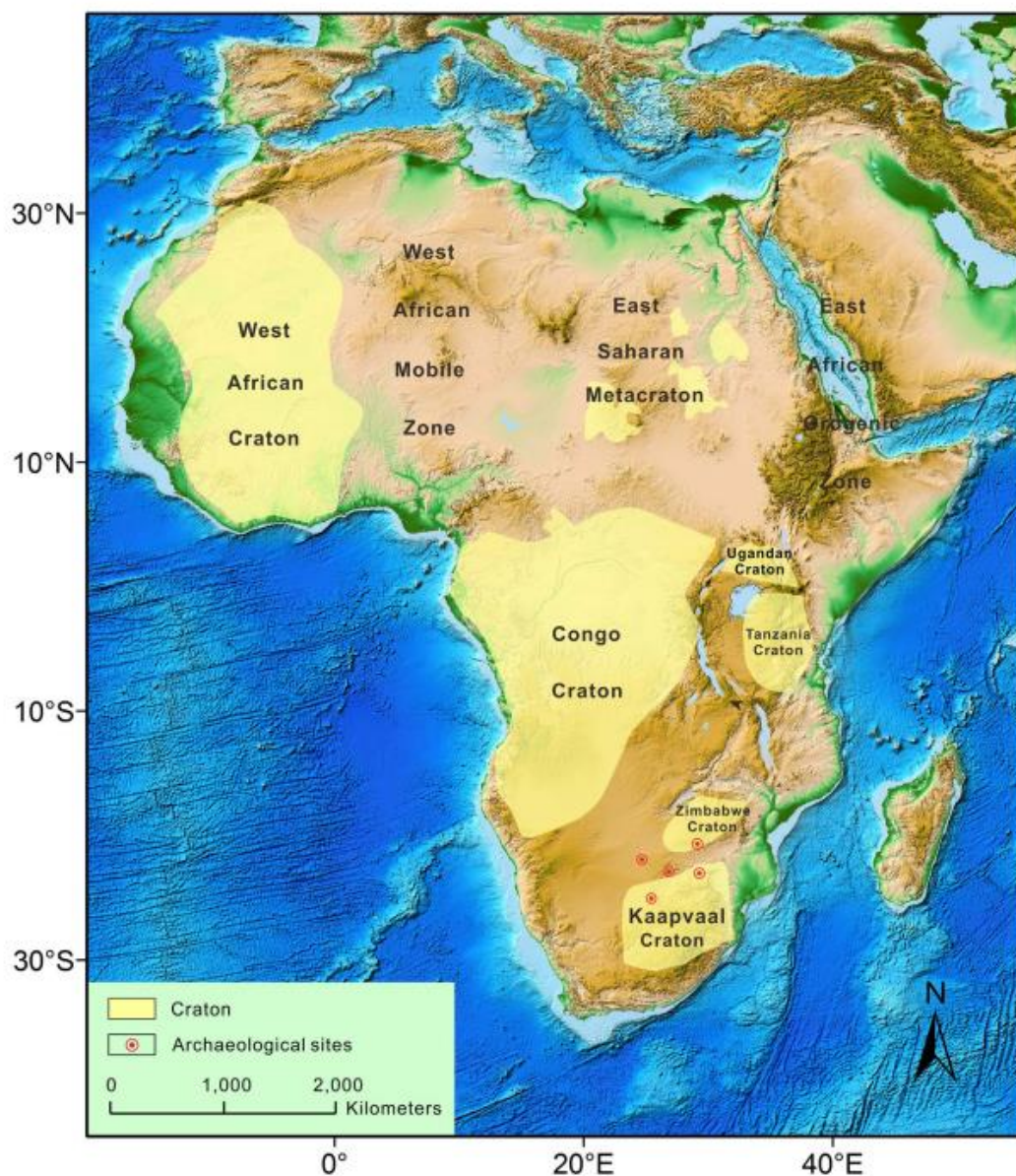


Figura 8: Mapa geológico de África con los Cratones Arcaicos (Sun *et al.*, 2016: 7)

1.4 Síntesis geográfica de Guinea Ecuatorial:

- Situación geográfica

Dentro del Golfo de Guinea, Guinea Ecuatorial se encuentra concretamente en el Golfo de Biafra. Río Muni, con sus 4 provincias, tiene unas fronteras rectas que, al Norte, lindan con Camerún, siendo el límite natural (si los países siguieran esta lógica para delimitarse) el río Campo (o río Ntem). La superposición exacta de la frontera con el río llega aproximadamente hasta 10 Km al Este de Ayamiken, momento en el que la frontera queda por debajo del río varios kilómetros, estando el río en Camerún. Las fronteras del Este y del Sur son con Gabón. Al igual que pasa con la desembocadura del río Campo, el río Muni acaba en el límite de la frontera Gabón-Guinea. Como ya hemos visto, la actividad orogénica ha dado lugar a un

relieve complejo, con la zona litoral con areniscas y margas, el interior con rocas metamórficas como el gneis y la zona oriental con granitos (De Castro & De la Calle, 1985). Aproximadamente en la mitad de la costa atlántica de Guinea se encuentra la desembocadura del río Mbini, río que recorre todo el país. Al sur, en el estuario del Muni encontramos las islas de Corisco y las Elobeyes siendo, principalmente, ínsulas arenosas de sustrato mesozoico (Rosas *et al.*, 2022: 12)

- Relieve:

Podemos distinguir en el relieve de Río Muni:

- La Meseta de Kie Ntem, en la provincia del mismo nombre en el noroeste.
- El estuario del río Muni, donde desembocan el río Congüe o el Mitemele.
- La penillanura central.
- El litoral.
- Dos cadenas montañosas, las Siete Montañas, más al oeste, y la Cadena de Niefang, de mayor tamaño. Ambas confluyen en el suroeste, y en la zona más al sur de la cadena de Niefang encontramos el Macizo de Monte Mitra, con una montaña del mismo nombre y, algo más al Norte, Monte Alén. Por último, al Norte, al Oeste de la Cadena de Niefang, entre esta y el litoral encontramos la depresión del Mbini.

La isla de Bioko tiene una orientación NE-SO, y aproximadamente 75 km de largo y, en su zona más ancha, 25 km (Navarro Cerrillo *et al.*, 2012). Está dividida en dos provincias, Bioko Norte y Bioko Sur. Las tres calderas volcánicas están inactivas, quedando Pico Basilé (3100 m) en la provincia del Norte y la Caldera de Luba (2261 m) y Pico Biao (2010), en el Sur. Basilé por un lado, y las otras dos calderas por otro, forman los dos macizos que caracterizan la isla, quedando separados por la depresión de Musola, con menos de 1000 m sobre el nivel del mar (Velayos *et al.*, 2013)

Por último, la isla de Annobón es la más pequeña de las islas del Golfo, además de la más alejada, encontrándose a unos 360 km del continente. De su relieve podemos destacar tres espacios bien diferenciados: en el cráter del volcán que originó la isla tenemos el lago A Pot, a 150 m de altitud, que tiene varios conos volcánicos adventicios que alcanzan los 400 m, (ejemplos son monte Quioveo o el pico do Fogo). En el sur, con elevaciones de hasta 613 m están los montes de Santa Mina. Por último, el tercer elemento es un corredor de dirección NE-SW por el que se unen las bahías de San Pedro (Anganchi) y Santa Cruz (Awal), recorrido parcialmente por el río Anganchi (De Castro & De la Calle, 1985: 67; Fero, 2012:15). (Fig. 9)



Figura 9: Mapa de la isla de Annobón (Velayos *et al.*, 2014)

- Suelos

Aunque en origen se creía que los suelos tropicales eran uniformes y altamente meteorizados, actualmente sabemos que estos suelos tienen un abanico de propiedades tan rico como los suelos de zonas templadas. Lo único que tienen en común los suelos tropicales en general es su escasa variación de temperatura (Sánchez & Camacho, 1981: 89).

Río Muni, la región continental de Guinea, se caracteriza por unos suelos lateríticos, producto de la descomposición de granitos y gneises. Debido al clima y las continuas lluvias, la lixiviación del suelo es constante, provocando que los fosfatos y carbonatos, ya de por sí escasos en estos suelos, sean muy bajos. El pH del suelo es de 6 o más, y suele contener grandes cantidades de elementos coloidales, dando una textura arcillosa y una gran adhesión (Fa, 1991: 19).

En las islas, tanto en Bioko como en Annobón, el origen volcánico hace que la roca madre esté formada por basaltos, siendo por tanto muy homogéneos en toda la isla, existiendo por tanto pocos tipos de suelos.

En Bioko, las principales diferencias que podemos observar están en las zonas altas, donde se caracteriza por la acción de la erosión y el hecho de estar la roca madre al descubierto, mientras que las zonas bajas, donde el carácter aluvial es fundamental. El suelo se considera neutro, no superando por lo general un pH de 6. Según aumenta la altitud, aumentan los niveles de materia orgánica en el suelo (Fa, 1991: 17; Fero, 2012: 16).

Annobón, por su parte, presenta una menor proporción de sílice y aluminio, aumentando los elementos ferromagnesianos. Es un suelo considerado ultrabásico (Fa, 1991: 22).

- Clima

Guinea cuenta con un clima ecuatorial húmedo cálido, teniendo por tanto muy poca variación entre las máximas y las mínimas. Además, se caracteriza por no tener una estación seca propiamente dicha. Según la región del país, encontramos las siguientes características:

En la región continental tenemos dos estaciones secas y dos lluviosas, de julio a septiembre y de diciembre a febrero en el primer caso, y de septiembre a noviembre y marzo a junio en el segundo caso (Cabezas, 2006). Las dos estaciones secas son cortas y muy poco severas. En la época de lluvias las precipitaciones rondan los 1.800-3.800 mm, y una humedad relativa de un 90%, bajando hasta el 85% en la estación seca. Con una temperatura media de 25°C, con una variación media anual no superior a los 5°C (Rosas *et al.*, 2022: 14). Las zonas como monte Mitra o la cuenca drenada por el Mitele son las más húmedas (Fero, 2012: 23).

Bioko, en cambio, cuenta con un componente monzónico en el sur de la isla. Al contrario que Río Muni, la isla cuenta solo con dos estaciones, una seca (noviembre-marzo) y otra lluviosa (abril-octubre). La temperatura media ronda los 25°C el mes más cálido (febrero), y mínimas en septiembre, aunque las variaciones de temperatura entre estos periodos es de no más de 2°C. Las precipitaciones medias en el norte son de unos 1950 mm, mientras en el sur se han alcanzado los 11.000 mm, e incluso los 14.000 en Eureka, muy cerca del máximo mundial registrado en Colombia (Velayos *et al.*, 2013: 110).

Por último, en la isla de Annobón el clima es semejante al de Bioko. No se tienen datos sobre las precipitaciones, pero existen también dos estaciones, siendo la temporada de lluvias entre noviembre y mayo. La temperatura media anual es de 26.1°C (Velayos *et al.*, 2014:3; Fa, 1991:22)

- Hidrografía

La región continental, como ya se ha comentado, tiene un elevado nivel de precipitaciones, lo que conlleva una red fluvial amplia e intrincada. Debido al relieve, el curso del agua sigue diferentes orientaciones, aunque la principal es de Este a Oeste, desembocando, como hemos visto, en el Atlántico. Son ríos de gran caudal, y que, debido a su carácter pluvial, presentan un periodo de estiaje en las épocas secas (De Castro & De la Calle, 1985: 48). Cuenta con tres cuencas principales, según Fa, 1991: la de los ríos Ntem (Río

Campo), el Uolo (Wele, Benito o Mbini) y Muni; la segunda de ellas es la más importante por ser navegable hasta 30 km hacia el interior. Cabe destacar que lo que conocemos como río Muni, la desembocadura más al sur y que da nombre al estuario, es un conjunto de cuatro ríos: Congüe, Mitong, Mven y Utamboni. De Castro & De la Calle (1985: 50) distinguen las siguientes vertientes:

- Vertiente Atlántica: desembocan el río Campo, Wele y Mbia.
- Vertiente de la Bahía de Corisco: ríos cortos con origen en las montañas y colinas litorales.
- Vertiente del Estuario del Muni.
- Vertiente del Gabón: ríos con orientación sur. Se originan en las elevaciones de Nsok y Acurenam.

En el caso de Bioko, el desnivel provoca aguas rápidas, de gran fuerza erosiva, formando incluso grandes cascadas. Todos los arroyos y ríos son de origen pluvial, y existen lagos en antiguos cráteres, como el caso del lago Biao. Los ríos surgen radialmente desde la cimas de los antiguos volcanes (De Castro & De la Calle, 1985; Fa, 1991; Velayos *et al.*, 2013). Al igual que en el caso de Río Muni, De Castro & De la Calle (1985) agrupan cuatro vertientes, coincidiendo con los cuatro puntos cardinales; en el caso de la vertiente Norte, es la que abastece de agua a la capital, mientras que a la del Sur pertenecen los ríos más importantes de la isla, que desaguan los lagos de la Gran Caldera de Luba y Biao.

Por último, Annobón, debido a su reducido tamaño no presenta grandes redes fluviales, contando con pequeños arroyos que van de las zonas más altas hasta la costa. El elemento más destacable es el lago A Pot.

1.5 La vegetación

Aunque en Guinea la delimitación de las estructuras que forman los bosques es complicada, dada la explotación y modificación de los mismos (Cabezas, 2006: 19), aquí hacemos un pequeño bosquejo de sus comunidades vegetales.

Tal y como mencionamos en Cabezas *et al.* (2022), según el nivel de antropización podemos dividir las estructuras de los bosques en diferentes niveles, teniendo en el tercero de ellos las formaciones de origen antrópico completo.

1.- Formaciones Primarias (Fig. 10): son las menos afectadas por la acción del hombre, y podemos dividir las en dos bloques:

- Formaciones climáticas, dependientes de la temperatura y precipitaciones.
- Formaciones edáficas, dependientes de la estructura y composición de los suelos.

2.- Formaciones secundarias o de origen antrópico.



Figura 10: bosque primario de Bioko (Rosas *et al.* 2022. Fotografía: M. Velayos)

Formaciones primarias, climáticas

- Pluviselva: Sus condiciones ambientales son muy homogéneas durante todo el año, lo que provoca patrones de floración no dependientes de las estaciones, sino del agua (estación seca - lluviosa vista en los apartados anteriores). La pluviselva se desarrolla en espacios donde no hay perturbaciones antrópicas. El estrato arbóreo es superior a los 40-50 m de altura, con árboles jóvenes de las mismas especies de 30-35 m. Dada la escasez de luz en los suelos, por el sombrero creado por los árboles, la pluviselva se caracteriza por no tener sotobosque, estando las zonas bajas relativamente despejadas. Como curiosidad, una de las Sapotáceas estudiadas en esta tesis es una de las especies más características de estas formaciones: *Tieghemella africana*.
- Bosque de montaña: aunque es un tipo de bosque de características semejantes a las anteriores, se da en alturas de 700-1800 m, predominando los helechos arborescentes del género *Cyathea* (Fig. 11). Los árboles están repletos de epífitas y, aunque sigue sin abundar la luz en la zona baja, el sotobosque es más denso que en la pluviselva.



Figura 11: bosque de Cyathea, Bioko (Rosas *et al.* 2022. Fotografía: J.M. Cardiel)

- Bosque de araliáceas (Fig. 12): bosques presentes entre los 1800-2500 m de altitud. Las nieblas son menos generalizadas que en bosque de montaña, lo que implica que la humedad también disminuye. Además, dada la altitud la insolación aumenta. Dadas estas características, las Araliaceae pasan a dominar esta estructura, predominando líquenes y especies más características de climas templados.



Figura 12: bosque de Araliaceae (Rosas *et al.* 2022. Fotografía: J.M. Cardiel)

- Formaciones de ericáceas y praderas de altura (Fig. 13): siguiendo la altitud como referencia, estas estructuras se dan a continuación de los bosques de araliáceas; es decir, a partir de 2500 m. Predominan estructuras arbustivas de no más de 2.5 m de altura, como ericáceas y la gutífera *Hypericum lanceolatum*. Sin embargo, a partir de los 2700 m aparecen combinadas con praderas de gramíneas y ciperáceas, aumentando la proporción de praderas según aumentamos en altitud. En las zonas más altas aparecen algunos elementos característicos de la Flora de Guinea, como *Luzula mannii* subsp. *mannii*.



Figura 13: matorral de Ericaceae. Pico Basilé, Bioko (Rosas *et al.* 2022. Fotografía: J.M. Cardiel)

- Restringido como vimos en la zona sur de Bioko, tenemos el bosque monzónico. Con características semejantes a la pluvisilva, el bosque monzónico se caracteriza por tener unas precipitaciones muy elevadas, lo que hace que sus características varíen ligeramente. Aunque en el resto del país a partir de los 700 m empezamos a tener sotobosque y desde los 1800 m tenemos los bosques de araliáceas, en el caso de los bosques monzónicos la estructura se mantiene hasta los 2000 m. Esto no significa que las especies no sean las mismas, que en general lo son, pero la estructura que forman es más o menos homogénea durante toda su extensión.

Formaciones primarias, edáficas:

- Cerros cúpula (Fig. 14): como hemos visto, estas estructuras podemos encontrarlas en el interior de la zona continental de Guinea Ecuatorial. También denominados inselbergs, sobresalen de las llanuras. Al estar formados por granito y gneis, sus suelos son escasos, dando lugar a una vegetación adaptada a esa característica. En las zonas centrales volvemos a encontrar praderas de gramíneas y ciperáceas; sin embargo, en la zona más cercana al bosque encontramos arbustos de las mismas especies que en el bosque forman estructuras de gran tamaño.

- Formaciones litorales: son formaciones costeras, donde tras la línea de playa se desarrollan praderas. Además, hay ciénagas y manglares, estando estos últimos en grave peligro por la acción del hombre.



Figura 14: cerro cúpula de Nfuiñ, Río Muni (Rosas *et al.* 2022. Fotografía: P. Barberá)

Formaciones secundarias

Son aquellas en las que la acción del hombre es total. Podemos encontrar zonas cultivadas o bosques secundarios. Como veremos en el apartado siguiente, el bosque de Guinea ha sido utilizado para cultivar cacao, frutas, explotar madera u otros productos como el látex, provocando una modificación de los bosques. Además de los cultivos en uso, las zonas con cultivos abandonados se ven invadidas por grandes herbáceas, que irá evolucionando a matorral, bosque secundario, hasta bosque húmedo de grandes árboles, si es que la acción del hombre lo permite.

1.6 Antecedentes botánicos en Guinea Ecuatorial

Hasta la fecha no existía una revisión exhaustiva de las expediciones realizadas en Río Muni. Sin embargo, sí se habían analizado con más profundidad los antecedentes botánicos de las regiones de Bioko y Annobón.

De la isla de Annobón, las colecciones más antiguas conocidas se encuentran en K. Son de 1839-1843, del botánico inglés Andrew B. Curror. Ya en la segunda mitad del s. XIX, entre 1861 y 1864 el diplomático Richard Francis Burton recogió algunos ejemplares, que también se encuentran en K. Por último, hay en LISU otra colección de finales del s. XIX, de Francis Newton. Aunque la Segunda Guerra Mundial destruyó gran parte del herbario de Berlín (B), y con ello la colección más grande de pliegos de Annobón (recogidos en 1911 por Johannes Gottfried Willhelm Mildbraed), hay duplicados en los herbarios de K, BM y HGB. En BM también encontramos los 40 pliegos recogidos por Exell en 1933. Ya en la segunda mitad del s.XX, en 1959, Thomas Christopher Wrigley y Fenella Ann Melville recogieron 316 pliegos depositados en K, con duplicados en BM, BR, MPU y MA. En 1964 fue Tomás Bernard Descoings quién recolectó 233 ejemplares depositados en MPU (Velayos *et al.*, 2014). Aunque a partir de aquí las recolecciones son algo más frecuentes, destacamos la realizada por investigadores del Real Jardín Botánico de Madrid y la Universidad Nacional de Guinea Ecuatorial (Carlos Aedo, Patricia Barberá, Francisco Cabezas, Manuel de la Estrella, Maximiliano Fero y Mauricio Velayos) en 2010, dando como resultado el depósito en el herbario MA de 337 pliegos.

Al contrario que la isla de Annobón, Bioko ha sido explorada intensamente desde mediados del s. XIX, dando como resultado un CDI (Índice de Densidad de Recolección, es decir, número de colecciones/Km²) de 365. Tal y como indican Velayos *et al.* (2013), las zonas donde se ha producido una mayor recolección son aquellas más accesibles, quedando varias regiones de la isla, las más inaccesibles, por explorar. Desde 2007 se está corrigiendo esta tendencia, con exploraciones a esos lugares menos conocidos, como la Caldera de Luba o Moaba. Si hablamos de las primeras recolecciones en Bioko, están depositadas en K, y se las debemos a Boulton, de antes de 1832, junto con Theodor Vogel, que murió en la isla en 1841, pudiendo recolectar 43 números; como ellos pero con menores recolecciones, más de 12 colectores solo en el s. XIX (Aedo *et al.*, 2001).

Objetivos y estructuración de la de la Tesis

Esta Tesis busca presentar un estudio de la familia *Sapotaceae* Juss. en Guinea Ecuatorial, así como la elaboración de la *checklist* de plantas vasculares de Río Muni, la región continental de Guinea Ecuatorial. Para lograrlo, los objetivos planteados son los siguientes:

- Elaboración de una *checklist* con los taxones vegetales citados en Río Muni. El grupo de investigación encargado del proyecto de Flora de Guinea Ecuatorial ha publicado previamente las *checklist* de Bioko (Botanica Complutensis 37:109-133. 2013) y Annobón (Phytotaxa 171:1-78. 2014). Con la de Río Muni quedaría completado el territorio de este país. . La *checklist* implica una revisión nomenclatural de todas las citas recogidas en la bibliografía, más todos los especímenes que se encuentren en los herbarios.
- Además de georreferenciar las localidades citadas, con los datos obtenidos de la checklist se elabora un análisis florístico.
- Síntesis taxonómica general de la familia *Sapotaceae* Juss. en Guinea Ecuatorial y países limítrofes (Gabón, Camerún y Sao Tomé y Príncipe).

Material y métodos

Los materiales y métodos utilizados en cada caso se detallan en los capítulos (páginas 44-46 y 55-56).

Capítulo 1: Catálogo de las plantas vasculares de Río Muni (Guinea Ecuatorial): análisis florístico, diversidad, endemicidad, y estado de amenaza.



Este capítulo se presenta en inglés por ser una adaptación (con la adición, en el apartado de colectores, de los 48 colectores esporádicos que en el artículo solo se mencionan, y con la numeración de tablas y figuras acorde a la memoria) del artículo publicado como **Checklist of the vascular plants of Río Muni (Equatorial Guinea): floristic analysis, diversity, endemism, and threatened status** (Velayos G., Barberá P., Cabezas F.J., Fero M., Velayos M. 2023. Checklist of the vascular plants of Río Muni (Equatorial Guinea): floristic analysis, diversity, endemism, and threatened status. *Anales del Jardín Botánico de Madrid* 80: e134. <https://doi.org/10.3989/ajbm.565>) en el marco de esta tesis.

El grueso de los resultados en encuentran, por su extensión, en los anexos, quedando en el texto el análisis de los mismos.

1. **Anexo 1.** Checklist of the Vascular Plants of Río Muni (Equatorial Guinea).
2. **Anexo 2.** Localities of Río Muni with geographic coordinates.

Introduction

The Republic of Equatorial Guinea is formed by an oceanic island called Annobón (17 km²), four continental islands: Corisco (15 km²), Elobey Grande (2.27 km²) and Elobey Chico (0.19 km²), and Bioko (2,017 km²), and a continental region, Río Muni. Politically, it is divided into seven provinces: Bioko Norte and Bioko Sur, Annobón, Litoral, Wele-Nzas, Kie-Ntem, and Centro Sur. The last four are on the mainland. Equatorial Guinea has maintained a close relationship with Europe. The island of Bioko was discovered in 1471, becoming part of the Portuguese crown. Four years later the same happened with the island of Annobon. In 1777, with the signing of the Treaty of San Ildefonso between Spain and Portugal, Equatorial Guinea passed to the Spanish crown, and would remain so until 1968, when it achieved its independence.

Río Muni is the continental region of Equatorial Guinea. It is in the Atlantic sector of Central Africa. It occupies 26017 km² between latitudes 1°01'N and 2°21'N, and longitudes 9°00 'E (the Atlantic coast) and 11°20'E. It limits to the north with Cameroon, along the Ntem River, and to the east and south with Gabon. Río Muni is part of a large granite plateau that runs from the Atlantic coast to the Adamawa Massif on the north, to the Angola Plateau on the south and to the Congo River Basin on the west. This granite block comes into contact with sandstones and marls of the Tertiary by the west and with sandstones and slates of the Secondary by the southwest.

From a biogeographical point of view, Río Muni is included entirely in the strip of lowland and plain African rainforest, which barely exceeds 1000 m in altitude. It is integrated within the Guineo-Congolian Region, in the Nigerian-Cameroonian Province (Takhtajan 1986: 199; Linder & al. 2012; Droissart & al. 2018). This biogeographical province contains several endemic genera and many endemic species, and is currently covered by dense equatorial rainforests.

The soils of Río Muni are derived from the decomposition of granite and gneiss. They are lateritic soils with a concentration of iron oxide, aluminum, titanium, and magnesium hydrates higher than 30% (De Castro & De la Calle 1985; Fa 1991: 19).

The climate is equatorial with two dry seasons: one from July to September, the most important, and another from December to mid-February, and two rainy seasons: one from September to November and another from March to June. The average temperature is 25°C with an oscillation not exceeding 5°C. The average relative humidity is 90%, dropping slightly, to 85%, in the dry season. Annual precipitation ranges from 1800 to 3800 mm mainly between the months of September to December, with a considerable decrease in precipitation from March to May (De Castro & De la Calle 1985: 15-16; Fa 1991: 20). However, these figures vary greatly from one year to another, with an estimated mean precipitation of 2500 mm\year (Wilks & Issembé 2000: 3). Rainfall decreases from west to east and from south to north. Mountainous areas, such as Mount Mitra, and the basin drained by the Mitemele river (Utamboni), on the southern border with Gabon, are the most humid areas.

Botanical collectors in Río Muni

The mainland of Equatorial Guinea has been much less explored than the island territories. The first known collections were made by the German Gustaf Mann (1836-1916),

expeditionary of the Baikie's Niger Expedition. Although he focused his work on Bioko, he also collected fifty specimens in Litoral province (Corisco, Elobey, and in the Kongui river [Congüe]) in 1862. These specimens are preserved mainly in the K herbarium.

It took almost half a century for the explorations in this area to continue, carried out by another German explorer, Günther Tessmann (1884-1969), who in 1908 collected 100 specimens in Litoral province and especially in Wele Nzás (hosted at K), at the Nkolentangan (Alén), Uelleburg and Bebai stations. In 1928, the Spanish forestry engineer Fernando Nájera, commissioned by the "Dirección General de Marruecos y Colonias", visited the continental area to study the forest richness of Spanish Guinea. During the four months that he stayed in Río Muni, he studied and identified around 60 types of wood. These collections were probably lost from the Madrid "Escuela de Ingenieros de Montes" due to a fire. The result of Nájera's study was published by the "Instituto Forestal de Investigaciones y Experiencias" (Nájera 1930).

The history of Spanish botanical collections in the continental region begins with the pharmaceutical inspector Lope del Val Cordon (1896-1967), who visited the area between June and July 1939, collecting 650 specimens in the four continental provinces. The first botanist to take a decided interest in the flora of Equatorial Guinea was Emilio Guinea López (1907-1985). He made only one trip to the continent between June and September 1945. Guinea indicates that he collected 3,000 specimens. This number is difficult to confirm due to the complicated numbering system that he used. What we know for sure is that more than 1000 vouchers are preserved in MA. A part of these specimens is found in Lisbon (LISC), where Emilio Guinea traveled to identify this material, and perhaps in London (K). The itinerary of his trip shows that he traveled through most of the continental region, with long walking journeys through the most intricate of the tropical forest. Although he collected in the four provinces, it is noteworthy his systematic and intense tours to the Wele Nzás and Kie Ntem provinces. A first advance of his work was published in the *Anales del Jardín Botánico de Madrid* (Guinea 1945). The following year he published what is still today the main work on the flora of Río Muni: *Ensayo Geobotánico de la Guinea Continental española* (Guinea 1946). Guinea was eventually accompanied by J. Gómez Moreno. It will be almost fifty years after (1946), before floristic studies were resumed in the continental region starting in 1990. The Spanish-Portuguese Manuel Fidalgo do Carvalho, who had already collected in Bioko, moved his residence from Malabo (Bioko) to Bata on April 10, 1991, although he had already made some collections in Río Muni in December 1990. Carvalho remained on the continent until September of 1997. During his time in Río Muni, he made 1896 botanical collections. The abundant material that he collected from each specimen is very remarkable, always from fertile plants, and perfectly prepared and preserved. A complete series of his collections is held in MA, with numerous duplicates in major European and North American herbaria (AAU, B, BM, BR, COI, FI, G, H, K, LG, LISC, MO, NY, P, S, UPS, US, WAG, etc.) as well as in the National Herbarium of Equatorial Guinea (BATA).

At the same time of Guinea's collecting work, in the 90s, the CUREF ("Conservación y Utilización Racional de los Ecosistemas Forestales de Guinea Ecuatorial") project, funded by the European Union, started, with special emphasis on the study of plants. The botanical leader of the project was Jean Lejoly (BRLU) with the invaluable help of Stanislaw Lisowski (POZG). Several European botanists collected with the support of this project: Tariq Stévant (BRLU, MO), Ingrid Parmentier (BRLU), Bruno Senterre (BRLU) and Stephan Porembski (ROST)

who collaborated in the training of a group of Guinean botanists from the INDEFOR (“Instituto de Desarrollo Forestal”), under the newly created BATA herbarium: Crisantos Obama, Pablo Esono, Norberto Nguema, Ildefonso Ndong, Domingo Ngomo, Francisca Eneme, and Diosdado Obiang Mbomio. In addition, there were six additional plant collectors who sometimes accompanied the CUREF-INDEFOR collecting team: Pierre van Asbroeck (BRLU) who collected in 1998 with Lejoly; N. Biedinger (BRLU) in 1998 with Porembski and N. Nguema, and Elad Maurice Epah (BRLU) in 1998 with Lejoly.

In 1997, with the financial support, of the “Agencia Española de Cooperación Internacional y Desarrollo” first, and later the Spanish Ministerio de Ciencia (in their different denominations), the Real Jardín Botánico, CSIC, began a project to study the flora of Equatorial Guinea, including Río Muni, Bioko and Annobón. It was directed by Mauricio Velayos (1955-) from the Real Jardín Botánico, CSIC. Since then, apart from M. Velayos, a team of researchers participated and directed the exploration and collection trips through the four continental provinces: C. Aedo (MA), F.J. Cabezas (MA, currently at MACB), M. de la Estrella (MA, currently at COA), P. Barberá (MA, currently at MO) and M. Fero Meñe (MA, currently at UNGE). In total, 6,800 specimens were collected under the Flora of Equatorial Guinea project.

Other people also participated in plant collecting campaigns organized by the Real Jardín Botánico: Raquel Pérez-Viso, who lived in Bata between 1998 and 2000 and collected intensively in Río Muni (4,500 specimens, especially from the Centro Sur Province). Myriam López Serrano, a pharmacist from Granada, focused on the study of the traditional use of medicinal plants of the Centro Sur Province. Encarnación Gómez Marín and Laureano Merino Cristóbal collected 160 plant specimens for the publication of the book *Plantas Medicinales de Guinea Ecuatorial*.

Up to forty-eight more botanist visited Equatorial Guinea sporadically and collected in the country (less than 100 specimens): in July 1902, *Jean Odon Debeaux* (1826-1910) collected some few plants in the Muni estuary (BM, K, P); in 1918, an American missionary, *George Latimer Bates* (1863-1940) collected in Litoral, in the Mbini area, 15 specimens (BM, G, L, P). There is also a single collection by the German merchant and diplomat *Max Julius Dinklage* (1864-1935) in the Litoral zone (HBG) [cf. Ploeg (1983: 18)]. The American *W.W. Sandford* (1924-) in 1969 collected a dozen of orchids (K, P) in the company of *Jordi Sabater Pi*, a Spanish primatologist who lived in Guinea from 1940 to 1969. An enthusiastic naturalist, he collected some plants and accompanied botanists like Sanford.

Georges Marie Patrice Charles Letestu collected in 1933 in the Oyem, Acam region, possibly between Cameroon and Guinea. *Gilles Joffroy* (BRLU) in 2001 collected a dozen specimens in Monte Alén. *Miguel Esteban Leal* (MO) on a couple of trips in 2005 and 2008 collected more than 180 specimens. The Venezuelan *Anabel Rial*, accompanied by *Carlos Andrés Lasso Alcalá*, and *F. Abaga*, collected in 1994, especially aquatic plants. *Gordon McPherson* (MO), collected in the Muni estuary in 1989. *Terry Christopher Heesom Sunderland* who in 1997 and 1998 collected palms throughout the continental region. He was accompanied by *Dinga Njingum* and *C. Obama*. *Chris Wilks* (MO) collected in the country in 1998. The Cameroonian, Rubiaceae specialist, *Bonaventure Sonké* (YA) in 2001 and 2003 collected with *P. Esono* and *D. Ndong*. The local botanist *Santiago Ndong Bokung*, between 1999 and 2002 collected orchids with *T. Stévant* (BRLU, MO). *Diosdado Nguema Ekomo* collected between 1997 and 1998.

Some other sporadic collectors are: *A. Cabeza*, *Ramón Castelo Álvarez* and *Javier Juste Ballesta*, naturalists of the group "*Amigos de Doñana*" (1984 and 1985). Also of the same group, *Javier Castroviejo* collected in 1981. *Jaime Nosti*, collected a dozen of specimens in 1941, without specifying the location, beyond Río Muni. He was sometimes accompanied by a certain *Abad*, of whom we have no other information than his surname.

The Belgian *Valerie Demán* collected a specimen in the inselbergs, sometime between 2002 and 2005, accompanied by a local botanist. *G. Desmet* collected in 2002 and 2003 with local botanists, *J.J. Dibata* collected a specimen in 1988, in the province of Litoral.

R. Boxall collected a dozen specimens in 2001, *Bernard Galand*, collected in 2001 accompanying *Gilles Joffroy*. *José Francisco Gómez* (UCM), collected a *Clerodendrum* in 2003. The Gabonese *Yves Azizet Issembé* collected in Río Muni in 1998. *León Guiral*, in 1885 participated in the "Benito exploration expedition". *Raoul Martin Anne Peter Haegens* (WAG) in 1994 collected together with *Jan Johannes Wieringa* (WAG), who regularly collected in Gabon but from whom we know a single reference in Río Muni, from 1994, specifically in Elendé (Litoral). *Jan Jacobus Friedrich Egmond de Wilde* (WAG) collected fifty specimens in 1998 in Litoral and Centro Sur. *Théophile-Joseph Klaine* (1842-1911), a French missionary in Gabon collected a single plant in Equatorial Guinea, specifically in Corisco Bay. *Jean-Paul Mondjo* collector in Gabon who, in 1994, eventually collected in Río Muni (Centro Sur). From *Didier Normand* (1908-2002), we only know of a Guinean collection, specifically in Litoral, from 1959. The Belgian *Laurent van Reeth*, in 1997-1998, collected around thirty specimens in the Monte Alén National Park. From *Francois-Romain Thollon* (1855-1896), we only know of one collection, from the island of Corisco (Litoral). *Henri Louis Marie Paul Trilles* (1866-1949) was a French missionary of whom we know half a dozen collections from Litoral, from 1899. *Franz Ludwig Stuhlmann* (1863-1828), German collector of whom we only know one Guinean reference, specifically "bay Kangawassi", we assume that in the Litoral province [cf. Sleumer (1974: 319)]. Finally we mention *Morel*, collector in Cameroon with a single collection in Equatorial Guinea, specifically in Wele Nzaz, Nkolentangan [cf. Sleumer (1973: 294)].

Additionally in our records we can find references to: *James Edgar? Dandy* (BM), *Andrew Akwasi Oteng-Amoako* (K), *Marc P.E. Parren* (WAG, YA), *A. Lofté* (?) and *Eibert Carl Henry Seimund* (BO, K, NMW, SING, UC) but not reliable data on their collection effort has been found.

Floristic knowledge

Most recent published data from Río Muni are those of Sosef & al. (2017). In this study, the reported plant species richness for the whole of Equatorial Guinea is 3,049 species, increasing the estimated figure up to 3,821 species. This approach was based on the study of 15,341 records reflecting a Collection Density Index (CDI) for the country (number of collections/100 km²) of 54.69 (Campbell 1989). When CDI is calculated, the figures reveal a moderate level of knowledge of the region and more precisely from the continental region. These authors suggest a minimum of a CDI of 100 before one can state that the botanical inventory of a country or a region is of an acceptable level. If we calculate the CDI of the four provinces of Río Muni, only the Litoral Province is near the level of the CDI of 100, being Kie Ntem and Wele Nzaz the provinces with the lowest botanical knowledge (Table 1)

Table 1. Collection Density Index (CDI) of Río Muni and its provinces.

Territory	Nº collections	Area km²	CDI
Centro Sur	4065	9931	40
Kie Ntem	1019	3943	27
Litoral	4953	6665	74
Wele Nzaz	1295	5478	23
Unknown Province	217	-	-
Total Río Muni	11549	26017	44

If we plot the collection localities from the 23,517 specimen records (Fig. 15) we observed that plant-collecting efforts are geographically biased and some inaccessible places remain poorly known, thus botanical exploration in Río Muni is still one of the main tasks for future biodiversity studies.

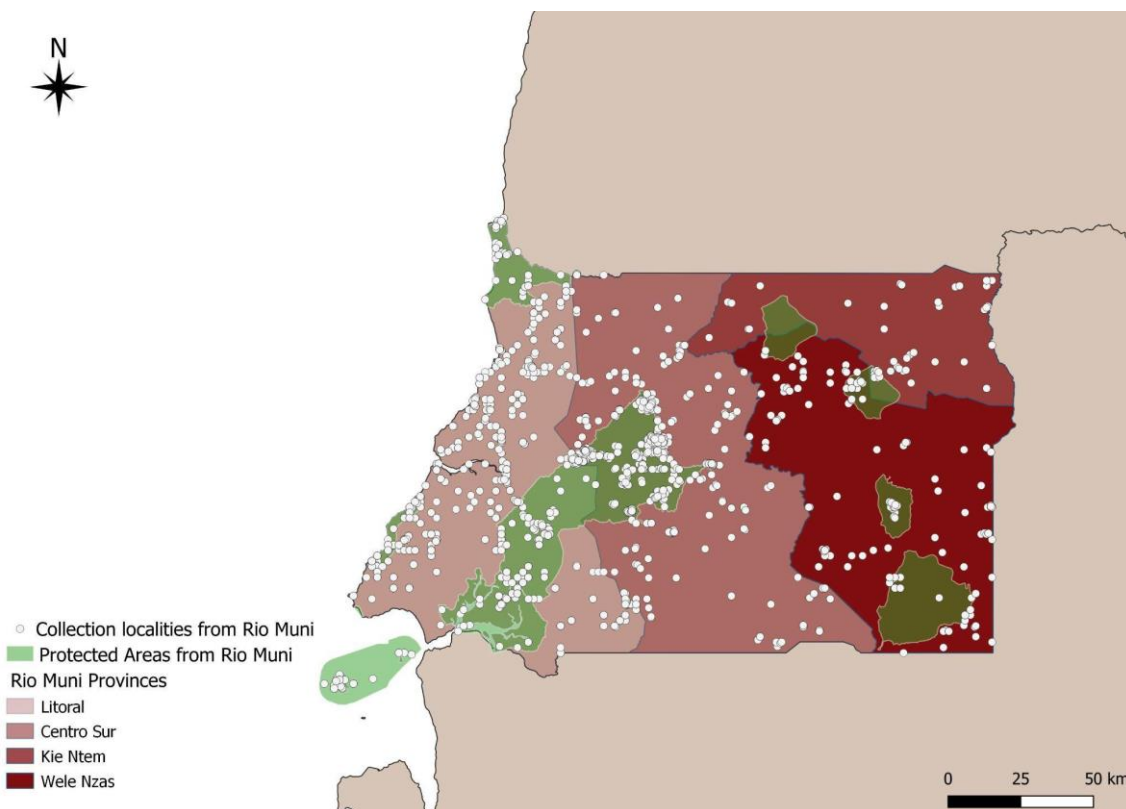


Fig. 15. Locations of the collections from Río Muni (white circles). Plot includes the location of 23,517 georeferenced records. Protected areas and provinces are highlighted in green (see Fig. 17).

Material and methods

We built a checklist (Appendix 1) based primarily on both herbarium specimens and bibliographic references. We studied 11,549 specimens collected in Río Muni, mainly from the herbaria BATA, BRLU, HBG, K, LBV, MA, and WAG; although to a lesser extent, also from BM, BR, G, MO, NY, P, and S. For comparative purposes specimens from Cameroon, Gabon, São Tomé and Príncipe, and other territories of Equatorial Guinea kept in those herbaria were also studied.

Of the 11,549 specimens compiled, only 6,850 could be identified to species, this is, assigned to an accepted name. Bibliographic references for all families of vascular plants were also checked. In total 7,985 species records from bibliographic sources were compiled from Alston (1956, 1959), Arends (1992), Aubréville (1961), Aubriot (2020), Bamps (1970, 1974), Barberá & al. (2013, 2014, 2015), Bauters & al. (2018), Bidault & van der Burg (2019), Bissiengou & al. (2013), Biye *et al.* (2014), Bos (1984), Bouroubou (2018), Brenan (1953a, 1953b, 1953c, 1968), Brenan & Exell (1957), Breteler (1999, 2010, 2011, 2013, 2016, 2017, 2018), Breteler & Smissaert-Houwing (1977), Cabezas & al. (2004, 2005, 2009), Cebolla-Lozano & Rivas-Ponce (1995a), Chatrou & Repetur (1998), Couvreur (2008, 2009), Cufodontis (1953, 1955a, 1955b, 1970), Damen & al. (2018), De Kok (2022), Dekker (1983), Del Val (1942), Dhetchuvi & al. (2011), Diels (1910), Dilst (1995), Dilst & Leeuwenberg (1991), Droissart & al. (2009), Eimunjeze (1976, 1989), Engler (1912), Estrella & al. (2005, 2006, 2010a, 2010b), Fernández-Casas (1992), Fero (2012), Fero & al. (2003, 2014), Figueiredo (1995), Fischer & Lachenaud (2013), Galán Cela & al. (2018), Gautier & al. (2016), Geerinck (1980), Ghogue & al. (2017), González Gómez & Pereira (1946), Guinea (1945, 1946, 1951), Harris (1995), Harris & Wortley (2018), Harris & al. (2021), Hauman (1951), Heine (1966), Hepper (1954, 1958, 1963, 1968a, 1968b, 1968c, 1972), Holtum (1981, 1986), Hooker (1864), Hooper & Napper (1972), Hutchinson & Dalziel (1927, 1928, 1931, 1936), Ikabanga & al. (2019), Jacques-Félix (1976, 1981), Jeffrey (1966, 1986, 1997), Johnson & Murray (2018), Jongkind & Lachenaud (2019), Jongkind (1989a, 1989b, 1989c, 2022), Keay (1952), Kenfack & al. (2015), Koechlin (1965), Kruif de (1985), Lachenaud (2016a, 2016b, 2019), Lachenaud & Breteler (2011), Lachenaud & Jongkind (2010), Lachenaud & van der Maesen (2016), Lachenaud & al. (2013, 2017, 2018), Le Thomas (1969), Leal (2007), Leeuwenberg (1961a, 1961b, 1969, 1985), Lejoly & Lisowski (1998, 1999a, 1999b, 2000), Lemmens (1989a, 1989b), Léonard (1951, 1955, 1961, 1988, 1995, 1996), Léonard & Voorhoeve (1964), Lissambou & al. (2018), Lock (1978, 1980, 1989), Maas & Maas-van de Kamer (2020), Maas-van de Kamer & al. (2016), Maesen & Sosef (2016), Manktelow (1996), Mas-Guindal (1944), Milne-Redhead (1950), Morales (1993, 2011), Moran & Smith (2001), Morton (1978, 1979), Moutsamboté (1990), Nemes (1955, 1956, 1957), Ntore (2008), Oliver & Hanbury (1864), Oliver (1865, 1868, 1871), Parmentier (2001), Parmentier & Geerik (2003), Parmentier & al. (2001), Paton & al. (2022), Pax & Hoffmann (1911, 1912, 1914), Poncy (1978), Prain (1911), Prance & Jongkind (2015), Quintanar & al. (2022), Rial (2002), Robbrecht & al. (1993), Sanford (1971), Schaefer (2021), Senterre (2005), Simons (2021), Sleumer (1971, 1972a, 1972b, 1972c, 1973, 1974a, 1974b, 1974c), Sonké (2007), Sosef & Bissiengou (2016), Sosef & Dauby (2013), Sosef & Nguema Miyono (2010), Stévant & al. (2010), Stévant & Oliveira (2000), Stewart (1979), Szlachetko (2008), Thiselton-Dyer (1913), Townsend (1975), Troupin (1950, 1962), Van der Burg (2013), Van der Burg & Bidault (2020), Velayos & al. (2001, 2008, 2014, 2015, 2018), Veranso-Libalah & al. (2019), Verdcourt (1996), Vermeulen (1987), Verstraete & al. (2013), Villiers (1990), White (1963, 1976, 1978), Whitmore (2008), Wieringa (1999), Wilde (1968, 1971), Wilks & Issembé (2000), Zemagho & al. (2017, 2018). Names were updated according to the African Plant Database (<https://africanplantdatabase.ch/en>), or in the cases where supporting specimens were mentioned, the corresponding accepted names were assigned. Names from localities were also updated and standardized. Complementarily, 10,109 records from GBIF (2022) and 8,897 records from RAINBIO (Dauby & al. 2016) databases were also checked and updated, building a dataset of 36,984 species occurrence records from Río Muni, of which 23,517 were georeferenced.

The checklist was arranged in four main plant groups: Pteridophytes, Magnoliids, Monocotyledons and Eudicotyledons. Within each group, families, genera, and species were arranged alphabetically. Family classification follows PPG I (Schuettpehl & al. 2016) for Pteridophytes and APG IV (Byng & al. 2016) for Angiosperms. When a discrepancy with the classification of *Flora de Guinea Ecuatorial* (Velayos & al. 2008) was found we indicated it in brackets. Authors of plant names were abbreviated according to Brummit & Powell (1992), and to the updated version available at http://www.ipni.org/ipni/query_author.html.

Under each accepted name, we included the following information: i) the updated IUCN category (<https://www.iucnredlist.org/> accessed September 2022) (NE indicates the species has not been evaluated); ii) distribution information, indicating if the species is native, endemic, subendemic (considering subendemic plants with a reduced distribution area in which most of the localities are in Río Muni), introduced, naturalized, or cultivated and also the complete distribution range with the biogeographical divisions of Takhtajan (1986); and iii) a list of the studied specimens arranged by provinces. References from the most relevant literature were also included, but these were not considered in the floristic analysis. Taxa marked with a question mark are doubtful because of imprecise information and must be corroborated in the future.

A map (Fig. 15) and an updated and standardized list of collection localities of Río Muni is also provided (Appendix 2). A list of 665 localities was gathered, checked, and correctly spelled, and 450 localities were revised and georeferenced.

The conservation status of threatened species was assessed using the IUCN criteria (IUCN 2019). A preliminary risk of extinction assessment using the IUCN Red List categories and criteria (IUCN 2019) was carried out for the endemics and subendemic species that have not yet been published in the IUCN. Area of Occupancy (AOO) and Extent of Occurrence (EOO), estimated using a 2 × 2 km grid, were calculated using GeoCAT (2020).

Results and Discussion

Floristic Analysis

Due to their biological importance, floristic inventories of tropical African underexplored areas are an urgent need. Despite of the huge development of communication infrastructures in the continental region of Equatorial Guinea, a large percentage of its territory is still inaccessible (Fig. 15). Besides, some of the published data are not supported by herbarium specimens, thus so much of the information available is not reliable. Many of the analyses, conservation plans, or management strategies that have been developed in African countries have been made with outdated bibliographic data and assuming complete biodiversity inventories, which are far from being so. Thus, it is quite common in these regions (tropical Africa) that when new collections are added, species numbers change drastically. Similar results are usually observed with new taxonomic treatments or systematic analyses. Endemic or threatened species are usually known from a few collections, which require new data to properly evaluate their real taxonomic status or threat level. The Río Muni Vascular Plants catalogue is a compendium of numerous cases of the above-mentioned problems.

The checklist of Vascular Plants from Río Muni comprises 178 families, 1,020 genera and 2,707 species and infraspecific taxa (Appendix 1). Pteridophytes represent the 5% of the species (142) and the 12.35% of the families of Río Muni (22). With these figures, the floristic knowledge of Río Muni, in terms of number of species, increases in 26.14% from the most recent studies (Table 2).

Table 2. Number of Río Muni vascular plants species compared with the main previous works.

	Guinea 1946	Lejoly & Lisowski 1998	Sosef & al. 2017	This work
Pteridophyta	52	53	133	142
Spermatophyta	1064	1141	2013	2565
Total	1116	1194	2146	2707

The number of taxa considered as native is 2,411 (89.96%), 32 species (1.2%) are introduced, 36 cultivated (1.35%), and 158 (5.92%) should be considered as naturalized since they are able to establish new populations.

The most diverse families are Rubiaceae (294 species), Fabaceae (290), Orchidaceae (168) and Poaceae (105). The 10 most species-rich families are completed by Euphorbiaceae (87), Apocynaceae (85), Cyperaceae (79), Annonaceae (68), Acanthaceae (65) and Melastomataceae (61). These 10 families alone comprise about half of the species (49.22%) of Río Muni (Fig. 16).

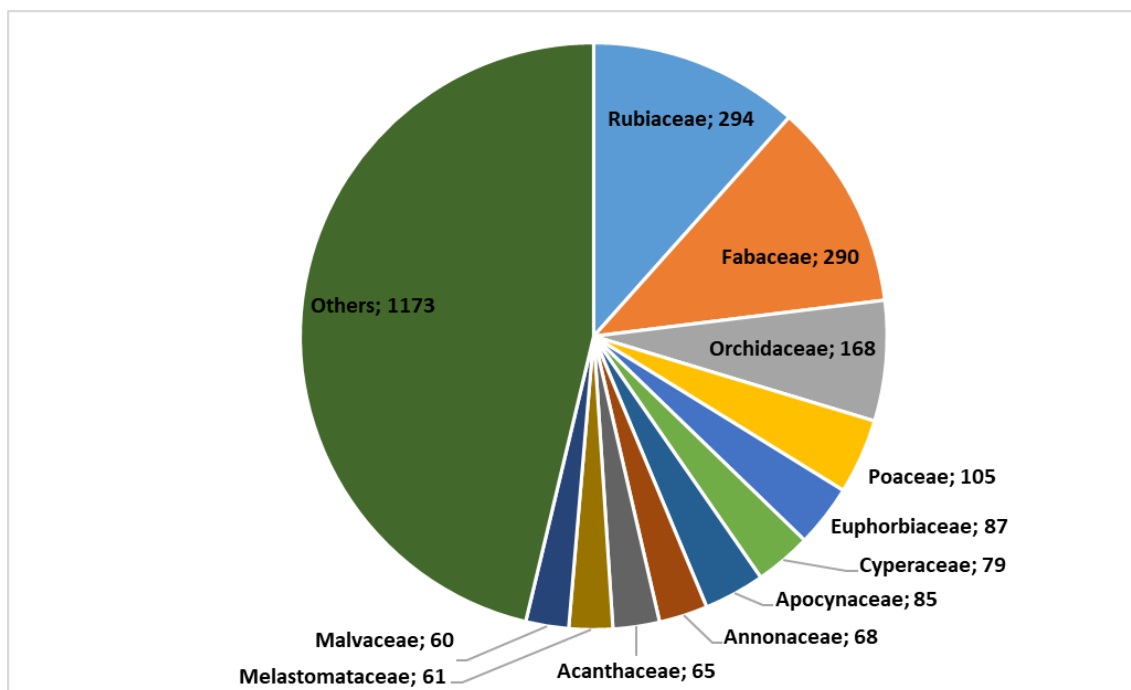


Fig. 16. Diversity of species per family. Uppermost 11 families in number of species in Río Muni are highlighted. Numbers indicate the number of species per family. The “Other” category includes 167 families with fewer than 59 species each one.

This floristic pattern of family diversity is similar to the one found in Annobon island (Velayos & al. 2014). Such pattern is observed even when total species-richness figures are 10-times bigger (Annobon 24 species of Fabaceae, Río Muni 290). It is highlighting the importance of the flow of species across the territories of the Gulf of Guinea. This idea is supported by the low number of endemic species observed in these territories.

Although the botanical exploratory level of Río Muni is relatively high when compared to the Central African countries, the number of species recorded so far is still far from the observed in neighboring Cameroon or Gabon, with 6,883 and 5,236 species respectively (Sosef & al. 2017). Besides the differences in area among the three of them, these figures are pointing out the need of continuing with the collection effort in Río Muni. The number of species in the continental region and the entire Equatorial Guinea would likely increase if plant collecting efforts were extended to the poorly explored areas in the near future.

Threatened status and endemism

The number of threatened taxa (VU, EN and CR.) is 144 (5.31% of the total taxa) of which 48 are under extinction risk, i.e., considered Endangered or Critically Endangered (Table 3). Two endemic species, *Polyscias aequatoguineensis* and *Scleria mongomoensis* are categorized as Endangered and should be regarded as priority species for Conservation plans and strategies. Nonetheless, a revaluation of the real situation of these species should be even more important to do since preliminary data indicate that the real threatened status of Vascular Plants in Equatorial Guinea is far from well known. As an example, we focus our discussion below on endemic or subendemic plants from Río Muni.

Of all threatened taxa, only three are non-native to Río Muni: *Terminalia neotaliala*, *Gossypium hirsutum* (both naturalized) and *Memecylon erythranthum* (introduced). Only 11 species could be considered as strictly endemic to Río Muni. This low number is reflecting the absence of natural barriers in the territory (Table 4).

Table 3. Number of taxa per conservation status for each major plant group. Percentages were calculated considering the total number of taxa in each plant group.

	NE-DD		LC		NT		VU		EN		CR	
	Nº	%	Nº	%	Nº	%	Nº	%	Nº	%	Nº	%
Pteridophyta	132	92.96	9	6.34	0	0	1	0.70	0	0	0	0
Gymnospermae	1	50.00	0	0	1	50.00	0	0	0	0	0	0
Magnolioids	42	43.75	43	44.79	3	3.12	6	6.25	1	1.04	1	1.04
Monocots	389	65.79	177	31.21	1	0.17	8	1.41	11	1.94	1	0.17
Eudicots	1082	57.55	652	34.68	31	1.65	81	4.3	30	1.6	4	0.21
Total	1646		881		36		96		42		6	

Table 4. Endemic and subendemic species from Río Muni. Accepted Name, threatened category according to the IUCN, or preliminary assessments already published or preliminary assessed here. Preliminary risk of extinction assessments using the IUCN Red List categories and criteria (IUCN 2022) are provided for the endemic and subendemic species that have not yet been published in the IUCN.

Family	Species	IUCN category	Preliminary assessment
Araliaceae	<i>Polyscias aequatoguineensis</i> Lejoly & Lisowski	EN (2021)	-
Begoniaceae	<i>Begonia aequatoguineensis</i> Sosef & Nguema	NE	VU D2 (here)
Begoniaceae	<i>Begonia monte-alenensis</i> Sosef	NE	VU D2 (Sosef 2014)
Euphorbiaceae	<i>Grossera angustifolia</i> Barberá & Riina	EN (2022)	-
Malvaceae	<i>Scaphopetalum obiangianum</i> M.E. Leal	NE	VU D2 (here)
Melastomataceae	<i>Guyonia obamae</i> (Lejoly & Lisowski) Veranso-Libalah & R. D. Stone (= <i>G. arenaria</i> (Jacq.-Fél.) Verano-Libalah & R.D. Stone	NE	NT (Lachenaud & al. 2018)
Melastomataceae	<i>Nothodissotis alenensis</i> Veranso-Libalah & O. Lachenaud	NE	VU D2 (Veranso-Libalah & al. 2019)
Podostemaceae	<i>Macropodiella uoroensis</i> Rial	NE	CR (here)
Cyperaceae	<i>Scleria mongomoensis</i> Bauters	EN (2020)	-
Orchidaceae	<i>Polystachya riomuniensis</i> Stévant & Nguema	NE	LC/EN
Orchidaceae	<i>Rhipidoglossum montealenense</i> Descourvières, Stévant & P.J. Cribb	-	EN (Descourvières & al. 2013)
Orchidaceae	<i>Vanilla chalogii</i> Finet	NE	VU/EN
Aspleniaceae	<i>Asplenium carvalhoanum</i> Herrero, Aedo, Velayos & Viane	NE	CR (here)

From the 13 endemic/subendemic species, three of them (*Scleria mongomoensis*, *Polyscias aequatoguineensis*, and *Grossera angustifolia*) have been recently evaluated by the IUCN as EN (Larridon & Bauters 2020; Paradis & al. 2021; Ruiz de Diego & al. 2022). *Guyonia obamae* records from Río Muni have been identified as *G. arenaria*, and the species was preliminary assessed as NT (Lachenaud & al. 2018), nonetheless its taxonomic situation is still unclear.

We confirm that 12 out of 13 of the endemic species evaluated should be considered as threatened (Table 4). Only for the subendemic *Polystachya riomuniensis*, since the distribution range of the species is quite large, the Extent of Occurrence (EOO) criteria states it as Least Concern while the Area of Occupancy (AOO) indicates the taxon as EN. We consider a more realistic conservative approach until taxonomic studies confirm the identity of these 12 species or new collecting campaigns confirm the presence of these taxa beyond the current distribution ranges.

Preliminary assessments of NE taxa

Scaphopetalum obiangianum is a shrub 20-150 cm tall, known from the understory of rain forest, at around 700 m in elevation (Leal 2007). The species is endemic to Equatorial Guinea and is only known from one collection made by Leal in 2005 in Monte Mitra, which thus represents a single occurrence in the Litoral Province. The AOO is estimated as 4 km², below the upper threshold for Critically Endangered status under subcriterion B2. The EOO is the same as the AOO. This occurrence therefore represents the entire known population of the species. It is located within a protected area (Monte Alén National Park), and no specific threats have been identified at the present time. Therefore, *Scaphopetalum obiangianum* is assigned a preliminary status of VU D2.

Begonia aequatoguineensis is an herb up to c. 5 cm high, known from primary forest at c. 450 m altitude (Sosef & Nguema Miyono 2010). The species is endemic to Equatorial Guinea and is only known from one collection, which thus represents a single occurrence, made by Nguema Miyono at West of Mendung, in the Centro Sur Province. The AOO is estimated as 4 km², below the upper threshold for Critically Endangered status under subcriterion B2. The EOO is the same as the AOO. This occurrence therefore represents the entire known population of the species. It is located within the protected area Monte Alén National Park and no specific threats have been identified at the present time. Therefore, *Begonia aequatoguineensis* is assigned a preliminary status of VU D2.

Asplenium carvalhoanum is an epiphyte, known from primary rainforest, endemic to Equatorial Guinea (Herrero & al. 2001). The species is only known from one collection, made by Carvalho at Cogo, between Emangós and Ncó villages, in the Litoral Province, which thus represents a single occurrence. The AOO is estimated as 4 km², below the upper threshold for Critically Endangered status under subcriterion B2. The EOO is the same as the AOO. This occurrence therefore represents the entire known population of the species. It is not located within a protected area and is threatened by logging and by small-scale harvesting. The most serious plausible threat is the logging. We infer a future decline in the extent and quality of its habitat, therefore *Asplenium carvalhoanum* is thus assessed as CR B2ab(iii).

Macropodiella uoroensis is endemic to Equatorial Guinea, known from the rapids of the Uoro river, at Centro Sur province. The species is only known from one collection made by Rial & Laso in 1994, representing a single occurrence. The AOO is estimated as 4 km², below the upper threshold for Critically Endangered status under subcriterion B2. The EOO is the same as the AOO. This occurrence therefore represents the entire known population of the species. It is not located within a protected area and is potentially threatened by water pollution due to increase in urbanization. We infer a future decline in the extent and quality of its habitat hence, *Macropodiella uoroensis* is assessed as CR B2ab(iii).

Priority conservation areas

The geographical analyses of threatened species from Río Muni revealed the value of the National System of Protected Areas of Equatorial Guinea (Fig. 17).

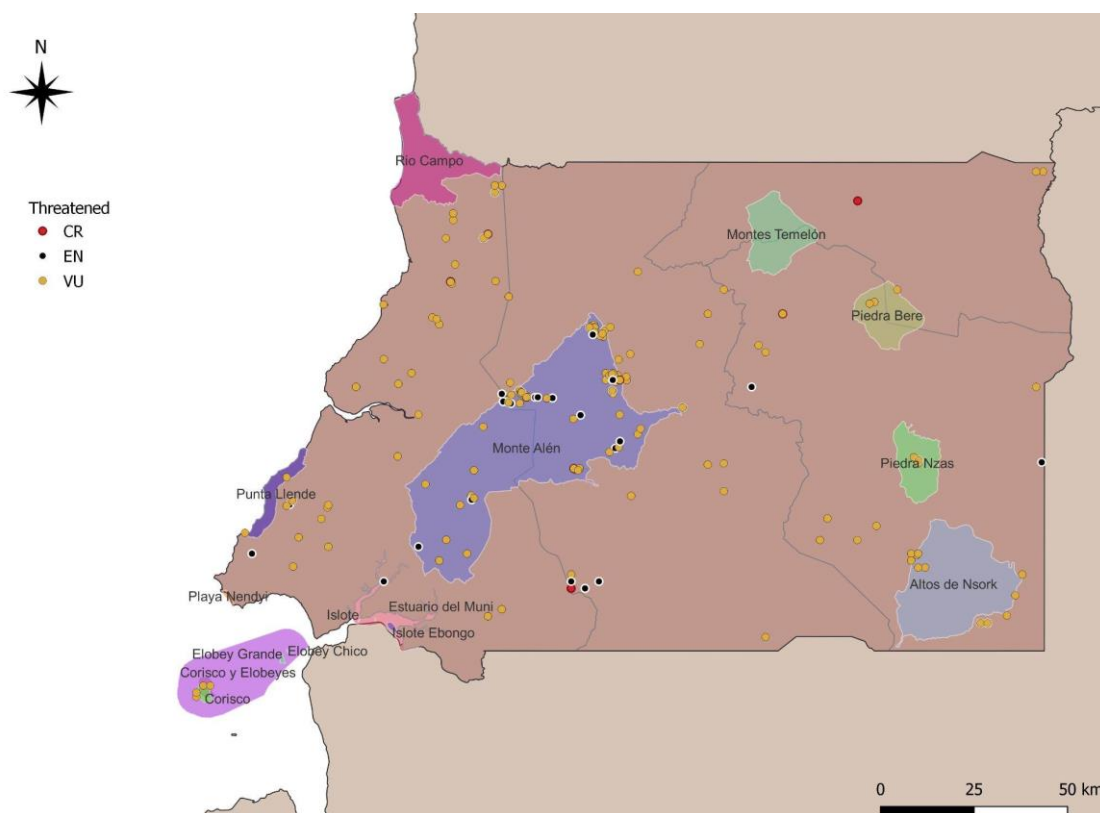


Fig. 17. Protected Areas of Río Muni. Dots indicate the occurrences of threatened species: CR (red), EN (black), VU (yellow).

A total of 618 records out of the 23,517 compiled correspond to threatened species (CR, EN or VU), 224 of them are out of protected areas, which means that 36.25% of the threatened plants of Río Muni do not have any protection at all. If we consider those Near Threatened taxa, there are 721 total occurrences, 276 outside protected areas (38.28%).

Monte Alén National Park is, by far, the most important Protected Area in Río Muni, hosting 49.23% of the occurrences of threatened species in this continental region. Two protected areas, Río Campo, and Montes Temelón do not include any occurrence from threatened species.

Endemicity and areas for conservation

The conservation relevance of the system of protected areas of Equatorial Guinea comes to the fore when we consider the endemicity of the flora. Figure 18 shows the spatial distribution of the 13 endemic and subendemic species. Twenty-one of this “dots” (46.6%) are included in protected areas. In this sense, the situation of *Scleria mongomoensis*, *Macropodiella uoroensis*, *Polyscias aequatoguineensis*, *Grossera angustifolia* and *Asplenium carvalhoanum* is particularly delicate since none of their localities has any protection status. As aforementioned, all of them, but *Polyscias aequatoguineensis*, could be also threatened under the IUCN category of Critically Endangered.

Expanding the area of the Monte Alén National Park and establishing a monitoring program for these species to establish corridors between protected areas or new areas of special interest for the flora are necessary strategies to achieve sustainable management of plant diversity in Equatorial Guinea. Connecting the different protected areas or increasing the surface area of some of them seems to be the best alternative to include the greatest number of threatened species present in this region. Coastal meadows are specially unprotected.

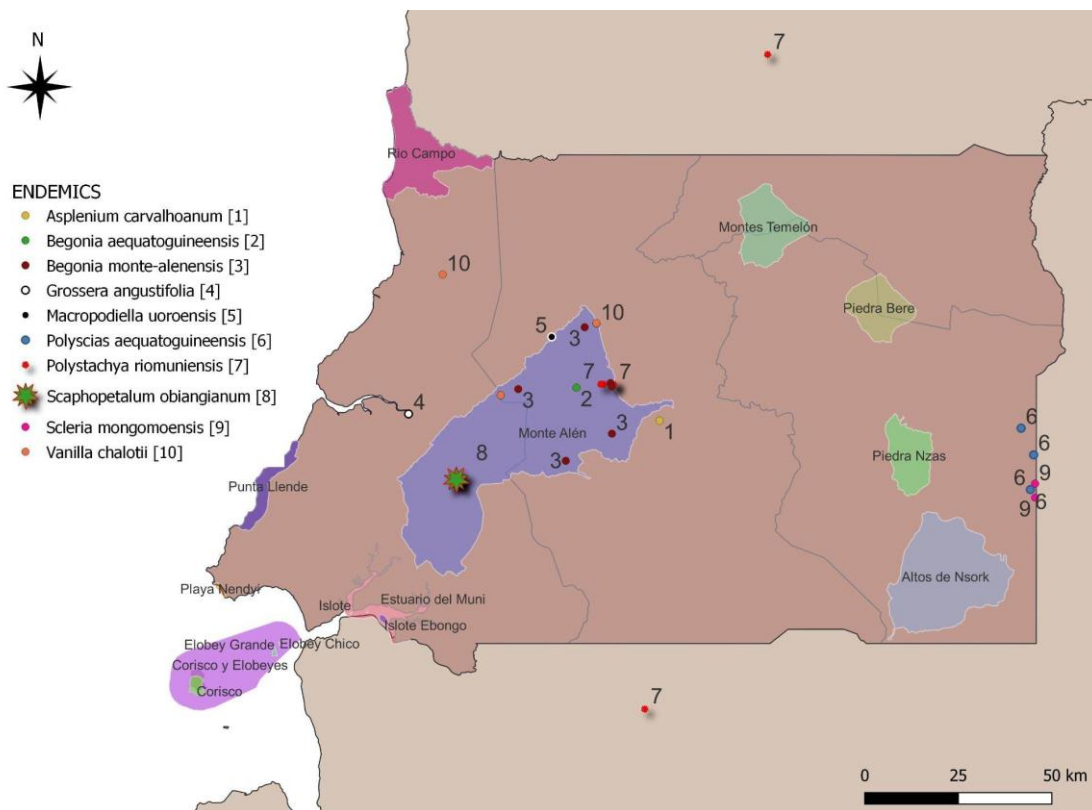


Fig. 18. Protected Areas of Equatorial Guinea included in Río Muni (8, each shown in a different color) and distribution of endemic and subendemic species indicated by colored dots and numbers.

Capítulo 2: *Sapotaceae* Juss. de Guinea Ecuatorial



Material y métodos del Capítulo:

Este catálogo se ha realizado con el análisis de pliegos de herbarios (BRLU, H, K, MA, P, entre otros), el estudio de todos los protólogos, tanto de los basiónimos como de las diferentes combinaciones o sinónimos, y la claves y descripciones presentes en bibliografía clásica y moderna (floras como la Flora de Gabón, de Camerín, West Trópic Africa, Costa de Marfil, etc). Las floras se han utilizado tanto para la identificación de ejemplares como para la elaboración de las claves o descripciones.

Para la realización del listado preliminar de especies de la familia presentes en Guinea, se llevó a cabo el estudio mostrado en el Capítulo 2 de esta memoria, completándolo con citas conocidas de otras especies de regiones cercanas, como Camerún, Gabón o Santo Tomé y Príncipe. Para ello, además de lo descrito anteriormente, se usaron bases de datos como African Plant Database (<https://africanplantdatabase.ch/>), Tropicos (<https://www.tropicos.org/>) (MO) o Naturalis (<https://www.naturalis.nl/en/collections-of-naturalis>), entre otras.

Además de una clave general de géneros, se incluye, para cada uno de estos, la siguiente información:

- Nombre aceptado, basiónimo y sinónimos.
- Tipo
- Al menos una referencia bibliográfica con una descripción del taxon.
- Iconografía, tanto una imagen de los tipos (en caso de ser posible) como una referencia bibliográfica.
- Los pliegos de herbario estudiados.
- Citas que conocemos en el país.
- Información general de la especie, como hábitat o una breve descripción.

Los táxones que aparecen numerados en la clave y en cada género son los que conocemos de Guinea Ecuatorial. Para cada uno de ellos se señala el nombre correcto, el protólogo, basiónimo (cuando se trata de una combinación), el tipo cuando se conoce, la referencia a una descripción y a una ilustración, el hábitat y la altitud a la que crece, el área de distribución y su carácter natural o introducido. Se enumeran también todos los especímenes estudiados y todas las citas bibliográficas previas. Siguiendo el modelo de la Flora de Guinea Ecuatorial, se añade para cada especie un pequeño mapa con las provincias donde está presente (color uniforme si es espécimen y bandado si únicamente se conoce cita bibliográfica).

Sin numerar en la clave y a continuación de los táxones guineanos, se recogen los táxones que crecen en los países limítrofes (Sao Tomé y Príncipe, Camerún y Gabón) y cuya presencia en Guinea Ecuatorial es muy probable. Para cada uno de ellos se indica el protólogo y los sinónimos más frecuentes.

Las descripciones y los datos de las claves, cuando ha sido posible, están basados en datos de los ejemplares consultados, preferentemente los de Guinea Ecuatorial, pero también en pliegos de otros países para los taxones extra-guineanos.

Cuando no hemos tenido acceso a especímenes de herbario, nos hemos basado en dibujos, descripciones de floras y monografías (por ejemplo, Aubréville, 1961 o Heine, 1963) y sobre todo en las descripciones originales.

Cuando las descripciones originales están basadas en ejemplares inmaduros o muy incompletos, y no hay recolecciones posteriores que pudieran aclarar la entidad y el status del taxon en cuestión, hemos preferido incluir el taxon al final del género bajo el epígrafe: táxones con estatus incierto, haciendo constar las razones de la incertidumbre.

El hábitat y la altura indicada en cada una de las especies presentes en Guinea Ecuatorial no son generales para la especie, si no información obtenida de las etiquetas de herbario de los especímenes estudiados; por tanto, es información y rangos susceptibles de ser ampliados.

Con todo esto, se elabora, además, un índice de nombres de *Sapotaceae* Juss. de Guinea Ecuatorial y regiones cercanas (Anexo 3).

SAPOTACEAE Juss.

El orden Ericales -donde se incluye Sapotaceae- está formado por unas 12 000 especies en 22 familias (APG IV, 2016). La familia comprende unas 1175 especies en 54 géneros (Govaerts *et al.*, 2001). Muchos de esos géneros, basados en escasísimas recolecciones, necesitan una ulterior revisión, con la consecuente redistribución de especies.

Distribución pantropical, y por tanto presente en América, África, Asia y Australia. Habita zonas cálidas y, en la mayoría de los casos, húmedas. Por excepción, *Argania spinosa* (L.) Skeels, distribuida en zonas áridas de Marruecos. El origen de la familia se sitúa en la región indomalaya, hace 102-58 millones de años, pasando a África hace 30 millones de años (Rose *et al.*, 2018).

Árboles o arbustos, una de sus principales características es la presencia de laticíferos que contribuye, junto a su madera, a la importancia económica de esta familia. Hojas alternas, en África enteras y coriáceas; generalmente sin estípulas o con estas caducas. Flores pequeñas, solitarias o en fascículos, actinomorfas, hermafroditas en su mayoría. Androceo con 8-10 estambres, generalmente con estaminodios. Ovario súpero, piloso. Fruto en baya, con pulpa a menudo comestible, más raramente en cápsula (Govaerts *et al.*, 2001; Kupicha, 1983, Hemsley, 1968; Aubreville, 1961).

En Guinea Ecuatorial tenemos constancia de la presencia de 12 géneros y 26 especies. La presencia de otras especies en las vecinas Camerún, Gabón y Santo Tomé y Príncipe podría elevar esta cifra hasta 17 géneros y 79 especies, a pesar de que nosotros hayamos incluido *Gambeya* en *Chrysophyllum*, y *Pseudopachystela*, *Pachystela*, *Tulestea* y *Vincentella* en *Synsepalum*.

Clave de Géneros:

1. Sépalos dispuestos en 2 verticilos de 3-4 piezas..... 2
2. Lóbulos de la corola enteros **Vitellaria** (Cam)
2. Lóbulos de la corola divididos 3
3. Lóbulos de la corola divididos en 6 segmentos **9. Neolemmoniera**
3. Lóbulos de la corola divididos en 3 segmentos 4
4. Número de lóbulos de la corola en igual número que los sépalos **7. Letestua**
4. Número de lóbulos de la corola 2-3 veces más que los sépalos 5
5. Flor trímera (sépalos, lóbulos de la corola y estambres 6) **8. Manilkara**
5. Flor tetrámera (sépalos, lóbulos de la corola y estambres 8) 6
6. Semillas con una cicatriz umbilicada en la base..... **Mimusops** (Cam)
6. Semillas con una cicatriz longitudinal de más de un tercio de la longitud de la semilla 7
7. Estípulas muy pequeñas o ausentes **12. Tieghemella**
7. Estípulas grandes y conspicuas 8
8. Tubo de la corola de mayor longitud que los lóbulos; filamentos de los estambres unidos a los estaminodios en casi toda su longitud **1. Autranella**
8. Tubo de la corola más corto que los lóbulos; filamentos de los estambres libres **2. Baillonella**
1. Sépalos dispuestos en 1 verticilo de 2-5 piezas 9
9. Lóbulos de la corola divididos en 3 segmentos..... 10
10. Estaminodios libres, alternos a los estambres..... **6. Lecomtedoxa**
10. Estaminodios ligeramente soldados en la base, opuestos a los estambres **Gluema** (Cam, Gab)
9. Lóbulos de la corola enteros 11
11. Lóbulos de la corola 5; estambres en grupos de 2-6, opuestos a cada lóbulo de la corola 12
12. Lóbulos de la corola algo más largos que el tubo; estambres no soldados en su longitud, insertos en la parte superior del tubo, totalmente glabros **10. Omphalocarpum**
12. Lóbulos de la corola libres casi hasta la base; estambres insertos en la mitad inferior del tubo de la corola, casi completamente soldados por pares o tríos; filamentos pelosos; anteras pelosas o glabras **Tridesmostemon** (Cam, Gab)
11. Lóbulos de la corola 4-5; estambres sin agrupar, en igual número que los lóbulos de la corola 13

- 13. Corola rotada o tubular, con lóbulos patentes; estambres exertos..... 14
 - 14. Estaminodios presentes..... 15
 - 15. Hojas con estípulas y con los nervios secundarios muy cercanos y paralelos; filamentos estaminales más o menos soldados formando un tubo estaminal **5. Englerophytum**
 - 15. Hojas con estípulas o sin ellas, con los nervios secundarios ni cercanos ni paralelos; filamentos estaminales libres **11. Synsepalum**
 - 14. Sin estaminodios 16
 - 16. Sin estípulas **Pradosia**
 - 16. Con estípulas..... 17
 - 17. Hojas con los nervios secundarios muy cercanos y paralelos; filamentos estaminales más o menos soldados formando un tubo estaminal **5. Englerophytum**
 - 17. Hojas con los nervios secundarios ni cercanos ni paralelos; filamentos estaminales libres **12. Tieghemella**
- 13. Corola rotada o ciatiforme con lóbulos erectos; estambres insertos 18
 - 18. Con estaminodios 19
 - 19. Semillas sin endosperma **Pouteria** (Cam, Gab)
 - 19. Semillas con endosperma **Breviea** (Cam.)
 - 18. Sin estaminodios..... 20
 - 20. Semillas sin endosperma **4. Delpyhora**
 - 20. Semillas con endosperma. **3. Chrysophyllum**** (ncl.. **Gambeya korupensis**)

** Seguimos en este trabajo el criterio original de Engler (1904), apoyado por Pennington (1991) por el cual *Chrysophyllum* se considera un género pantropical. Estudios de base molecular han resuelto que este concepto de *Chrysophyllum* implica la aceptación de un género polifilético (Swenson & Anderberg, 2005), por lo que aconsejan la restricción de *Chrysophyllum* a las especies americanas del grupo. Es probable que algunas de las especies aceptadas en este trabajo se vean nuevamente combinadas dentro de *Gambeya* o *Donella*. El género *Gambeya* ha sido incluido por completo dentro de *Chrysophyllum* (Pennington, 1991) sobre la base de estudios moleculares. Sin embargo, algunas de las especies de *Gambeya* aún no se han combinado de acuerdo a este criterio. En el caso de nuestra zona de estudio, *Gambeya korupensis* Ewango & Kenfack aún es reconocida como aceptada en las bases de datos de referencia (<https://powo.science.kew.org/taxon/urn:lsid:ipni.org:names:60471714-2>). Apoyándonos en los estudios de Swenson & Anderberg (2005), muy probablemente, en un futuro el género *Gambeya* se mantendrá fuera de los *Chrysophyllum* africanos.

1. *Autranella* A. Chev.

Si bien es Chevalier el que describe el género en 1917, sólo publicó una breve descripción de la semilla, siendo Aubréville (1961) el que realiza una descripción más extensa, considerando él, erróneamente, que la autoría del género debía ser *Autranella* A. Chev. ex. Aubr. et Pellegr.

Árboles. Hojas con pecíolo largo; estípulas caedizas. Flores tetrámeras, pediceladas. Sépalos dispuestos en 2 verticilos de 4 piezas. Pétalos soldados formando un tubo con 8 lóbulos lanceolados, cada uno de ellos con 2 apéndices a los lados, del doble de longitud que los lóbulos. Estambres 8; filamentos cortos; con estaminodios. Ovario pubescente, de mucha mayor longitud que el estilo. Semilla de c. 4.5 cm, con una cicatriz que cubre aproximadamente la mitad de la zona ventral.

Género africano, monoespecífico.

1. *Autranella congolensis* (De Wild.) A. Chev. in Veg. Utiles Afrique Trop. Franc. 9: 268, 271 (1917)

Mimusops congolensis De Wild., Miss. Em. Laurent 1: 434 (1907) [basión.]

Mimusops ebolowensis Engl. & K. Krause in Bot. Jahrb. Syst. 49: 396 (1913)

Mimusops letestui Lecomte in Bull. Mus. Natl. Hist. Nat. sér.1 26: 534 (1920)

Autranella letestui (Lecomte) A. Chev. in Rev. Bot. Appl. 23: 133 (1943)

Mimusops boonei De Wild. in Rev. Zool. Bot. Africaines 7: B27 (1919)

Autranella boonei (De Wild.) A. Chev. in Rev. Bot. Appl. 23: 132 (1943)

Mimusops boonei var. *acuminata* De Wild., Pl. Bequaert. 4: 150 (1926)

Mimusops boonei var. *abrupte-acuminata* De Wild., Pl. Bequaert. 4: 151 (1926)

Tipo: CONGO [República Democrática del Congo], *E. Laurent & M. Laurent s.n.* (BR 8962348, 896263)

Descripción: Aubréville (1961: 42-44); Engler & Krause (1913: 396)

Iconografía: Aubréville (1961: 41); Lecomte (535: 1920b); Figura 19.

Árboles de bosque primario; 0-600 m. Región Guineo-Congoliana (Provincia Alta Guinea, Provincia Nigero-Camerunesa, Provincia Congolesa). Río Muni.

No hemos encontrado ningún ejemplar de herbario que apoye las citas, sin localidad precisa, de Guinea Ecuatorial (Guinea, 1946: 342; Hepper, 1963: 21) y de Río Muni (Wilks & Issembé, 2000: 464), no obstante, el área de distribución de la especie, así como sus requerimientos ecológicos hacen que su presencia en el país sea muy probable.

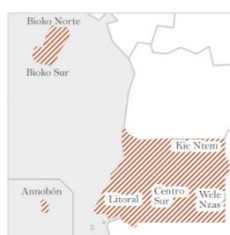




Fig. 19.- Typus de *Autranella congolensis* (BR)

2. *Baillonella* Pierre

Árboles hasta de 50 m de altura. Hojas dispuestas en la zona terminal de las ramas, caedizas en la floración, con el envés completamente piloso cuando jóvenes, con tricomas persistentes únicamente en las nerviaciones en la madurez; estípulas presentes (lo que permite diferenciarlo de *Tieghemella*). Flores en densos fascículos, con pedicelos de más de 4 cm, tetrámera. Sépalos 8, dispuestos en 2 verticilos de 4 piezas cada uno. Pétalos soldados formando un tubo con 8 lóbulos, con apéndices dorsales más largos que los lóbulos. Estambres 8; estaminodios 8, más largos que los estambres, con forma de cuchara, externamente pilosos en la base. Ovario con 8 lóculos. Frutos de más de 6 cm de diámetro, subgloboso, con un pedúnculo corto y grueso. Semillas con una cicatriz ventral que ocupa toda la superficie (Heine, 1963; Aubréville, 1961; Govaerts *et al*, 2001). Las semillas contienen un aceite semejante a la manteca de karité (*Vitellaria paradoxa* G.F. Gaertn.), utilizada con frecuencia en la medicina tradicional guineana para cuidado de la piel (Obama, 2002)

Género africano, monoespecífico.

1. *Baillonella toxisperma* Pierre, Notes Bot. Sapot.: 14 (1890)

Baillonella toxisperma var. *obovata* Aubrév. & Pellegr., Fl. Gabon 1: 57 (1961)

Mimusops obovata Pierre ex Engl., Nat. Pflanzenfam. Nachtr. 1: 279 (1897). [nom. illeg.]

Mimusops pierreana Engl., Monogr. Afrik. Pflanzen.-Fam. 8: 82 (1904)

Baillonella pierreana (Engl.) A. Chev. in Rev. Bot. Appl. 23: 127 (1943)

Mimusops djave Engl., Nat. Pflanzenfam. Nachtr. 1 : 279 (1897)

Baillonella djave (Engl.) Dubard in Ann. Inst. Bot.-Géol. Colon. Marseille, sér. 3 3 : 37 (1915)

Mimusops toxisperma (Pierre) A. Chev. in Rev. Bot. Appl. Agric. Trop. 23: 126 (1943)

Tipo: Gabon. Aubry-Lecomte 5631 (P)

Descripción: Aubréville (1961: 55-56)

Iconografía: Aubréville (1961: 53); Figura 20.

Bosque primario, húmedo, más común en el interior del país; 0-1000 m. África tropical occidental y central desde Nigeria hasta Cabinda y R.D. Congo. Región Guineo-Congoliana (Provincia Nigerio-Camerunesa, Provincia Congolesa). Río Muni.

Material estudiado: CENTRO SUR: Monte Alén, *Ngomo 412* (BATA); Monte Alén, *Lisowski M-1438* (BATA, BRLU). LITORAL: Área de Mbini, poblado de Bilén, Bitica y Mboete, *López Serrano 190423* (MA)

Previamente citado en Centro Sur (Guinea, 1946: 142; Lejoly & Lisowski, 1998: 123); Wele Nzas (Guinea, 1946: 146); Guinea Ecuatorial, sin localidad precisa (Guinea, 1946: 343) y Río Muni, sin localidad precisa (Wilks & Issembé, 2000: 462).

No había sido citada anteriormente en la provincia de Litoral.



3. *Chrysophyllum* L.

Árboles en su mayoría, a veces arbustos trepadores (*C. welwitschii*). Hojas sin estípulas. Flores fasciculadas, hermafroditas, pentámeras. Estambres opuestos a los pétalos, generalmente insertos en la base de la corola; sin estaminodios. Ovario cónico, piloso, con 5 lóculos. Semillas con abundante endospermo.

Género pantropical compuesto por c. 81 especies de las que encontramos 9 en Guinea Ecuatorial.

Chrysophyllum (en griego, hoja de oro) hace referencia al color de los tricomas de las hojas presentes en gran parte de las especies del género. Algunas especies como *C. albidum* o *C. giganteum*, tienen frutos comestibles muy apreciados en Guinea Ecuatorial.

Género controvertido, originalmente descrito como exclusivo de América. A pesar de la opinión de Aubreville (1961) quien mantiene como géneros distintos de *Chrysophyllum* a los africanos *Gambeya* y *Donella*, y ante la falta de una revisión moderna profunda, hemos preferido una visión más conservadora y amplia del grupo. Así incluimos en nuestro trabajo un único género *Chrysophyllum*, idea propuesta por Engler (1904) y mantenida por Pennington (1991), Kupicha (1983); Govaerts (2001), Inyama (2016) o Ewango (2016). En consecuencia, incluimos en estas claves la recientemente descrita *Gambeya korupensis*, taxon que aún no se ha combinado dentro de *Chrysophyllum*.

1. Hojas con envés glabro 2
 2. Arbusto trepador; pedicelos 2-3 mm **9. C. welwitschii**
 2. Árbol; pedicelos de 3-10 mm 3
 3. Pecíolo 2-3 cm **5. C. lacourtianum**
 3. Pecíolo de menos de 1.5 cm 4
 4. Pedicelo glabro **C. ubangiense** (Cam, Gab)
 4. Pedicelo pubescente **7. C. pruniforme**
1. Hojas con envés pubescente 5
 5. Hojas asimétricas, irregularmente redondeadas en la base **C. beguei** (Gab)
 5. Hojas simétricas, regulares, cuneadas en la base 6
 6. Hojas plateadas, sedosas en el envés 7
 7. Hojas al principio plateadas-sedosas por el envés, volviéndose glabrescente en estado adulto, nétamente acuminadas, con 8-10 pares de nervios laterales **8. C. subnudum**
 7. Hojas plateadas por el envés en estado adulto, cortamente acuminadas, con 12-15 pares de nervios 8
 8. Sépalos y lóbulos en la corola 6 **2. C. albidum**
 8. Sépalos y lóbulos en la corola 5 **3. C. boukokoense**
 6. Hojas anaranjado-amarillentas o doradas por el envés 9
 9. Limbo con pequeños puntos translúcidos 10
 10. Hojas con 7-10 pares de nervios laterales; flores con pedicelos de 3-4 mm; frutos glabros y amarillos **4. C. giganteum**
 10. Hojas con 11-20 pares de nervios laterales; flores sésiles; frutos jóvenes densamente pubescentes, rojos, y con 5 crestas longitudinales prominentes, siendo el espacio entre estas verrucoso **Gambeya korupensis** (Cam)
 9. Limbo sin puntos translúcidos 11
 11. Hojas pequeñas, de menos de 10 cm, con 12-14 pares de nervios laterales **6. C. prunifolium**

11. Hojas grandes, de más de 10 cm, nervios laterales con 15 pares o más de nervios laterales 12
12. Nervios laterales 15-20 pares; hojas oblongo-elípticas, obtusas o cortamente acuminadas, de 15-22 cm., con indumento adpreso por el envés **C. perpulchrum** (Cam)
12. Nervios laterales 20-30 pares; hojas alargadas-obovadas-elípticas, acuminadas, de 15-30 cm.; indumento claramente adpreso por el envés ... 13
13. Fruto amarillo-anaranjado, de 6 × 5 cm, glabro, con un pedicelo de c. 5 mm; estambres insertos en la zona media de la corola **1. C. africanum**
13. Fruto rojizo-pardo, de 4 × 3 cm, densamente pubescente, con un pedicelo muy corto, subsésil; estambres insertos en la base del tubo de la corola **C. gorungosanum** (Cam)

1. *Chrysophyllum africanum* A. DC. in DC., Prodr. 8: 163 (1844)

Gambeya africana (A. DC.) Pierre, Notes Bot. Sapot. 63 (1891)
Planchonella africana (A. DC.) Baehni in Boissiera 11: 68 (1965)
Chrysophyllum macrophyllum Sabine in Trans. Hort. Soc. London 5: 458 (1824)
Gambeya africana var. *aubrevillei* Pellegr. in Bull. Soc. Bot France 78: 682 (1932)
Chrysophyllum africanum var. *aubrevillei* (Pellegr.) Aubrév., Fl. Forest. Cote d'Ivoire 3: 138 (1936)
Chrysophyllum edule Hoyle in Bull. Misc. Inform. Kew 269 (1932)
Chrysophyllum africanum var. *likimensis* De Wild., Repert. Spec. Nov. Regni Veg 13: 376 (1914)
Chrysophyllum omumu J. D. Kenn., Forest Fl. S. Nigeria: 194 (1936).
Gambeya kali Aubrév. & Pellegr. in Not. Syst., Paris, 16: 249 (1960)
Chrysophyllum africanum var. *multinervatum* De Wild., Pl. Bequaert. 4: 121 (1926)
Chrysophyllum perpulchrum Mildbr. ex Hutch. & Dalziel, Fl. W. Trop. Afr. 2: 10 (1931)
Chrysophyllum africanum var. *orientale* Engl. in Bot. Jahrb. Syst. 49: 390 (1913)

Tipo: Sierra Leona: [Localidad desconocida], [sin información de colector], en zonas montañosas

Descripción: de Candolle (1844: 163)

Iconografía: Figura 21.



Bosque denso maduro; 400-1200 m. África Tropical Occidental, desde Uganda hasta África Tropical Occidental. Región Guineo-Congoliana (Provincia Alta Guinea, Provincia Nigero-Camerunesa, Provincia Congolesa). Bioko, Río Muni.

Material estudiado: BOKO: Fernando Po, Mann 1154 (P). RÍO MUNI: Senterre & Obiang 3911 (BRLU); Senterre & Ngomo 3452 (BRLU); Senterre & Obiang 2567 (BRLU); Parmentier & Nguema 324 (BRLU).

Previamente citada en Bioko Norte (Hutchinson, 1931: 10; Guinea, 1968: 130), Bioko, sin localidad precisa (Guinea, 1946: 342; Velayos & al., 2013: 125; Hepper, 1963: 28), Centro Sur (Lejoly & Lisowski, 1998: 124) y Río Muni, sin localidad precisa (Wilks & Issembé, 2000: 458).

2. *Chrysophyllum albidum* G. Don, Gen. Hist. 4: 32 (1837)

Gambeya albida (G. Don) Aubrév. & Pellegr. in Not. Syst., Paris, 16: 247 (diciembre 1960)

Planchonella albida (G. Don) Baehni in Boissiera 11: 68 (1965)

Chrysophyllum millenianum Engl., Monogr. Afrik. Pflanzen.-Fam. 8: 44 (1904)

Chrysophyllum kayei S. Moore in J. Bot. 47: 412 (1909)

Gambeya mammosa (Gaertn.) Pierre, Notes Bot. Sapot. 61 (1891)

Achras sericea Schumach. Beskr., Guin. Pl. 176 (1827)

Sapota sericea (Schumach.) A. DC. in DC., Prodr. 8: 176 (1844)

Tipo: Santo Tomé y Príncipe: Sto, Thome [Santo Tomé] *G. Don s.n.* (BM)

Descripción: G. Don (1837: 32); Burkill (2000: 37-38)

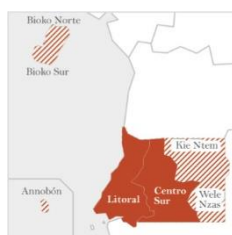
Iconografía: Figura 22.

Bosque primario, húmedo; 100-700 m. África Tropical Occidental, desde Sierra Leona hasta Sudán del Sur y Tanzania. Región Guineo-Congoliana (Provincia Alta Guinea, Provincia Nigero-Camerunesa, Provincia Congolesa). Río Muni.

Material estudiado: WELE NZAS: Nkolentangan, *Tessmann 41* (K)

Previamente citado en Río Muni, sin localidad precisa (Hutchinson, 1931: 9) y Guinea Ecuatorial sin localidad precisa (Guinea, 1946: 342).

No había sido citado en Wele Nzas anteriormente.



3. *Chrysophyllum boukokoëns* (Aubrév. & Pellegr.) L. Gaut. J.-P. Lebrun & A.L. Stork, Énum. Pl. Fleurs Afr. Trop., 4: 27 (1997).

Gambeya boukokoëns Aubrév. & Pellegr. in Not. Syst., Paris, 16: 248 (1960) [basiòn.]

Tipo: [República Centroafricana] Boukoko (Oubangui), *Tisserant* 756 (P).

Descripción: Aubrév. & Pellegr. (1961: 248) sub *Gambeya boukokoëns*

Iconografía: Figura 23.

Bosque denso, húmedo; 0-700 m. África Tropical Centro-Occidental. Región Guineo-Congoliana (Provincia Nigerio-Camerunesa, Provincia Congolesa). Bioko.

Material estudiado: BOKO NORTE: Malabo-Cupapa. Estrada kms 14-15. Montes de Oca. Lado esquerdo do entrada, *M. Carvalho* 3985 (MA-877504). BOKO SUR: Moca-Riaba, *J. Fernández Casas & al.* 11690 (MA-877503).

No había sido citada anteriormente en Guinea Ecuatorial.

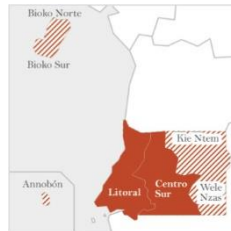




Fig. 23.- Typus de *Chrysophyllum boukokoense* (P)

4. *Chrysophyllum giganteum* A. Chev. in Bull. Soc. Bot. France 61 (8): 267 (1914) [1917]

Gambeya gigantea (A. Chev.) Aubrév. & Pellegr. in Not. Syst., Paris, 16: 247 (1961)

Gambeyobotrys gigantea (A. Chev.) Aubrév. in Adansonia, sér. 2, 12(2): 187 (1972)

Tipo: Costa de Marfil, Akabilékrou, *Chevalier* 22512 (K)

Descripción: Aubréville (1972: 187) sub *Gambeyobotrys gigantea*

Iconografía: Aubréville (1972: 188) sub *Gambeyobotrys gigantea*; Figura 24.

Bosque semicaducifolio; 500-900 m. África Tropical Occidental. Región Guineo-Congoliana (Provincia Alta Guinea, Provincia Nigero-Camerunesa). Río Muni

No hemos podido estudiar el material de referencia de la cita de Centro Sur (Lejoly & Lisowski, 1998: 124), *Lejoly* 95T/L4.248, no obstante, tanto el área de distribución como los requerimientos ecológicos de la especie hacen muy posible su presencia en Guinea Ecuatorial.





Fig. 24.- Typus de *Chrysophyllum giganteum* (K)

5. *Chrysophyllum lacourtianum* De Wild., Miss. Em. Laurent 1: 425 (1907)

Gambeya lacourtiana (De Wild.) Aubrév. & Pellegr. in Not. Syst., Paris, 16: 247 (1960)

Chrysophyllum autranianum A. Chev. in Veg. Utiles Afrique Trop. Franc. 9: 265 (1917)

Tipo: República Democrática del Congo. Lukolela [región de Equateur], *E. Laurent & M. Laurent s.n.* (BR 896274); Kutu, *E. Laurent & M. Laurent s.n.* (BR 896293); Ibali [región de Bandundú], *E. Laurent & M. Laurent s.n.* (BR 896262); Kondué [Sankuru], *Luja 98, s.n.* (BR 896292, 896291); Coquilhatville [región de Equateur, Mbandaka], *De Bauw s.n.* (BR 896289); *Pynaert 4336* (BR 896292); Bikoro [región de Equateur], *De Bauw s.n.* (BR 896288, 896283); región de Lomila, *Jurgensen s.n.* (BR 896287). En BR, aparte de los sítios que se citan en el protólogo, existen otros pliegos de República Democrática de Congo que bien pudieron ser consultados por el autor. Sin embargo, solo uno de ellos lleva etiqueta manuscrita de De Wildeman, el BR 896271 (*Luja 190*). Tampoco existen etiquetas del autor entre los sítios.

Descripción: Aubréville (1961: 130) sub *Gambeya lacourtiana*

Iconografía: Figura 25.

Bosque primario; 0-600 m. África Tropical Centro-Occidental. Región Guineo-Congoliana (Provincia Alta Guinea, Provincia Nigero-Camerunesa, Provincia Congolesa). Río Muni.

Material estudiado: CENTRO SUR: carretera de Niefang a Evinayong, km 15, poblado cerca de Ndong, *Cabezas 83bis* (MA); *Cabezas 85* (MA-695669); Monte Alén, *Lisowski M-382*. WELE NZAS: Abama, 6 km au Nord de Nsork, *Obama & Lejoly 581* (BATA, BRLU).

Previamente citado en Centro Sur (Guinea, 1946: 142; Lejoly & Lisowski 1998: 124), Wele Nzas (Lejoly & Lisowski, 1998: 124), Río Muni, sin localidad precisa (Wilks & Issembé, 2000: 456) y Guinea Ecuatorial, sin localidad precisa (Guinea, 1946: 342).



6. *Chrysophyllum prunifolium* Baker, in Oliv. (ed.), Fl. Trop. Afr. 3: 499 (1877)

Gambeya prunifolia (Baker) Aubrév. & Pellegr. in Not. Syst., Paris, 16: 247 (1960)

Tipo: Guinea Ecuatorial, Fernando Po [Bioko], *G. Mann 2344* (K000430554, P)

Descripción: Baker (1877: 499)

Iconografía: Figura 26.

Bosque submontano; 1000-1800 m. África Tropical Central. Nigeria y Guinea Ecuatorial (Bioko). Región Guineo-Congoliana (Provincia Nigerio-Camerunesa, Provincia Congolesa). Bioko.

Material estudiado: BOKO: Fernando Po, *Mann 2344* (K, P)

Previamente citado en Bioko (Burkil, 2000: 42; Guinea, 1946: 342; Hepper, 1963: 28; Hutchinson, 1931: 10; Velayos & al., 2013: 125).





Fig. 26.- Typus de *Chrysophyllum prunifolium* (K)

7. *Chrysophyllum pruniforme* Pierre ex Engl., Monogr. Afrik. Pflanzen.-Fam. 8: 42 (1904)

Donella pruniformis (Pierre ex Engl.) Aubrév. & Pellegr., Fl. Gabon 1: 142 (1961)

Chrysophyllum buchholzii Engl., Monogr. Afrik. Pflanzen.-Fam. 8: 41 (1904)

Chrysophyllum mortehanii De Wild., Pl. Bequaert. 4: 137 (1926)

Donella parvifolia Lecomte in Bull. Mus. Natl. Hist. Nat. sér.1, 26: 648 (1920)

Tipo: Gabón: Libreville, *Klaine* 1577, Herb. Pierre 6383 (B).

Gabón, Libreville, *Klaine* 283 (lecto K (K000430540) [Mackinder (2016: 326)]

designated here; isolecto E (E00290011))

Descripción: Aubréville (1961: 142) sub *Donella pruniformis*

Iconografía: Figura 27.

Bosque primario y secundario; 0-1500 m. África Tropical Centro-Occidental, extendiéndose hasta Uganda por el Este. Región Guineo-Congoliana (Provincia Alta Guinea, Provincia Nigero-Camerunesa, Provincia Congolesa). Río Muni.

No hemos podido estudiar los ejemplares de respaldo de la cita de Litoral de Lisowski & Lejoly (1998: 124), *Eneme & Lejoly* 5 (BATA), no obstante, el área de distribución y los requerimientos ecológicos de la especie hacen muy probable su presencia en Guinea Ecuatorial.





8. *Chrysophyllum subnudum* Baker, in Oliv. (ed.), Fl. Trop. Afr. 3: 499 (1877)

Gambeya subnuda (Baker) Pierre in Notes Bot. Sapot. 62 (1891)

Planchonella subnuda (Baker) Baehni in Boissiera 11: 68 (1965)

Chrysophyllum renieri De Wild. in Repert. Spec. Nov. Regni Veg. 13: 376 (1914)

Chrysophyllum brieyi De Wild. in Rev. Zool. Bot. Africaines 7: B21 (1919)

Chrysophyllum normandii A. Chev. in Rev. Bot. Appl. 23: 139 (1943)

Chrysophyllum metallicum Hutch. & Dalziel, Fl. W. Trop. Afr. 2:9 (1931)

Tipo: Guinea Ecuatorial/Gabón. Banks of the river Muni, 1º N. lat. G. *Mann 1765* (K, P)

Descripción: Aubréville (1961: 132)

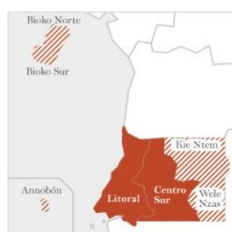
Iconografía: Figura 28.

Bosques primarios, formando parte del sotobosque, y en zonas agrícolas; 0-700 m. África Tropical Occidental y Central desde Guinea Conakri hasta Uganda. Región Guineo-Congoliana (Provincia Alta Guinea, Provincia Nigero-Camerunesa, Provincia Congolesa). Río Muni.

Material estudiado: LITORAL: Monts de Cristal, proche aviation de S.E.M.E.G. (Bonneville sur Rio Mven), *Wilks 1829* (LBV); Banks of the river Muni, *Mann 1765* (K, P)

Previamente citado en Río Muni, sin localidad precisa (Hepper, 1963: 27) y Guinea Ecuatorial, sin localidad precisa (Guinea, 1946: 343).

El ejemplar tipo probablemente se recolectó en territorio guineano, no obstante, la información recogida en la etiqueta original no es definitiva. Seguimos el criterio de los autores de *Flora of Tropical Africa*, de *Flora of West tropical Africa* y de *Kew Gardens* y asignamos a Litoral el ejemplar de Mann.



9. *Chrysophyllum welwitschii* Engl., in Bot. Jahrb. Syst. 12: 521 (1890)

Donella welwitschii (Engl.) Pierre ex Aubrév. & Pellegr. in Not. Syst., Paris, 16: 248 (1961)

Chrysophyllum klainii Engl., Monogr. Afrik. Pflanzen.-Fam. 8: 42 (1904)

Chrysophyllum gracile A. Chev. in Bull. Soc. Bot. France 61 (8):268 (1914) [1917]

Chrysophyllum ellipticum A. Chev. in Expl. Bot. Afr. Occ. 1: 386 (1920)

Chrysophyllum ealaense De Wild., Pl. Bequaert. 4: 128 (1926)

Micropholis angolensis Pierre in Notes Bot. Sapot. 2: 41 (1891)

Tipo: Angola. F.M.J. Welwitsch 4831 (LISU, G)

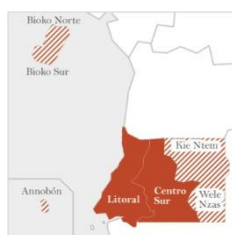
Descripción: Aubréville (1961: 145-146, sub *Donella welwitschii*)

Iconografía: Figura 29.

Matorral o bosque de ribera; 0-900 m. África Tropical Occidental, desde Guinea Conakri hasta Zambia y Angola. Región Guineo-Congoliana (Provincia Alta Guinea, Provincia Nigero-Camerunesa, Provincia Congolesa). Bioko, Río Muni.

Material estudiado: BIOKO NORTE: Malabo-Cupapa, estrada km. 22-23, *Carvalho* 3406 (MA-715185). LITORAL: Bata-praderas de Selives-Readive, *Carvalho* 5289 (BATA, MA); Etembue (Réserve de Ndote).

Previamente citado en Bioko, sin localidad precisa (Velayos & al, 2013: 125). No hemos encontrado referencias anteriores para la provincia de Litoral.



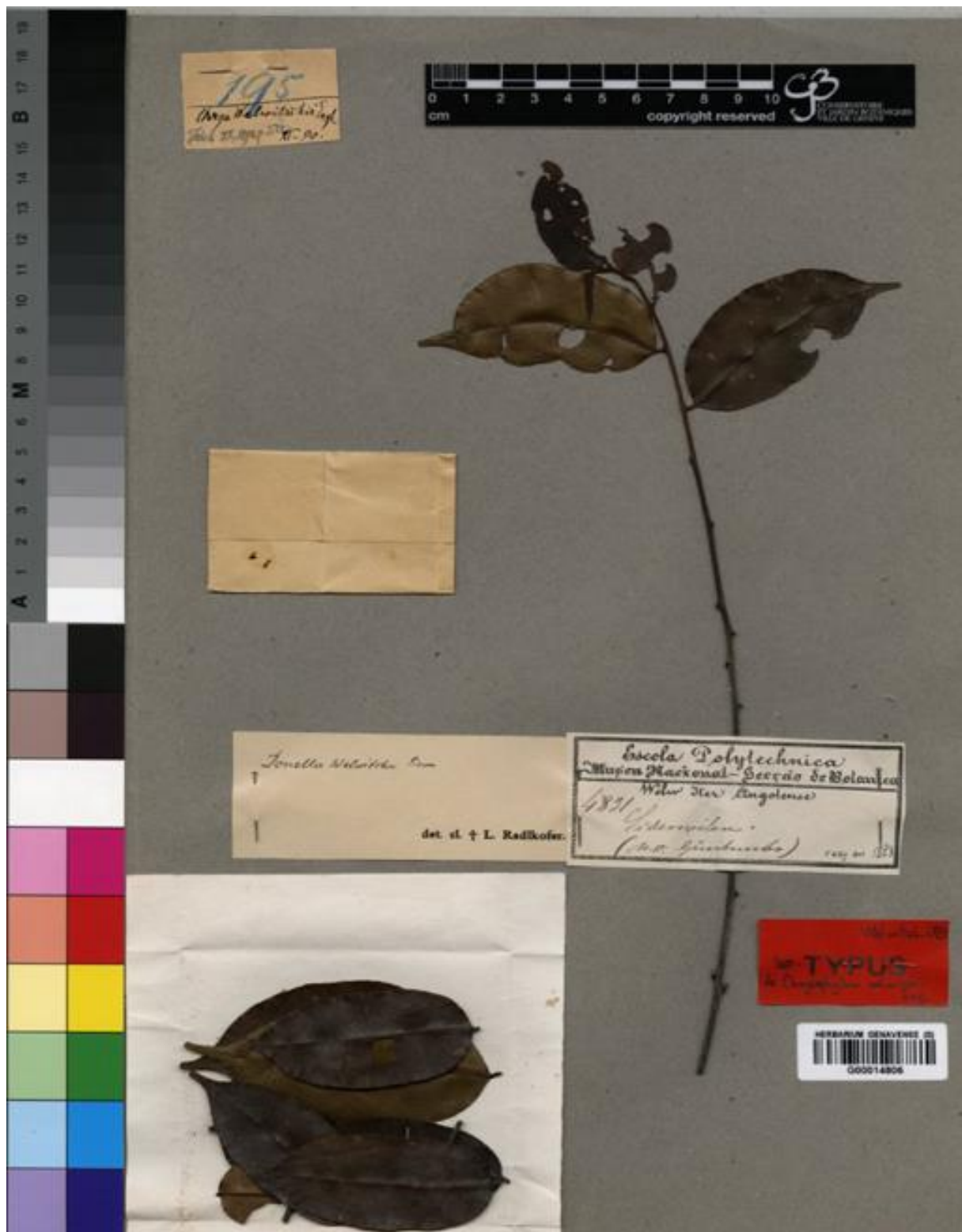


Fig. 29.- Typus de *Chrysophyllum welwitschii* (G)

Táxones de **Chrysophyllum** que han de buscarse

Chrysophyllum beguei Aubrév. & Pellegr. in Bull. Soc. Bot. France 81: 795 (1934)

Gambeya beguei (Aubrév. & Pellegr.) Aubrév. & Pellegr. in Not. Syst., Paris, 16: 247 (1961)

Chrysophyllum calophyllum Exell, Cat. Vasc. Pl. S. Tome 234 (1944)

Chrysophyllum gorungosanum Engl., Monogr. Afrik. Pflanzen.-Fam. 8: 44 (1904)

Gambeya gorungosana (Engl.) Liben in Bull. Jard. Bot. Natl. Belg. 58(3-4): 556 (1988)

Chrysophyllum fulvum S. Moore in J. Linn. Soc. Bot. 40: 131 (1911)

Chrysophyllum delevoyi De Wild., Pl. Bequaert. 4: 126 (1926)

Chrysophyllum perpulchrum Mildbr. ex Hutch. & Dalziel, Fl. W. Trop. Afr. 2: 9 (1931) *Gambeya perpulchra* (Mildbr. ex Hutch. & Dalziel) Aubrév. & Pellegr. in Not. Syst., Paris, 16: 247 (1961)

Chrysophyllum ubangiense (De Wild.) Govaerts, World Checkl. Seed Pl. 3(1): 15 (1999)

Mimusops ubangiensis De Wild., Miss. Em. Laurent 1: 433 (1907) [basión.]

Donella ubangiensis (De Wild.) Aubrév. in Adansonia, sér. 2 3: 231 (1963)

Chrysophyllum pentagonocarpum Engl. & K. Krause in Bot. Jahrb. Syst. 49: 387 (1913)

Donella pentagonocarpa (Engl. & K. Krause) Aubrév. & Pellegr. in Not. Syst., Paris, 16: 248 (1961)

Chrysophyllum letestuanum A. Chev. in Bull. Soc. Bot. France lxi. Mem. 8 (1914)

Donella letestuana (A. Chev.) A. Chev. ex Pellegr. in Mem. Soc. Linn. Normand, n. s. Bot., i. Fasc. 3 (Fl. Mayombe, II.) 15 (1928)

Chrysophyllum belemba De Wild., Pl. Bequaert. 4: 122 (1926)

Chrysophyllum claessensii De Wild., Pl. Bequaert. 4: 125 (1926)

Gambeya korupensis Ewango & Kenfack in Kew Bulletin 71: 28 (2016)

4. *Delpydora* Pierre

Árboles de pequeño tamaño o arbustos que se caracterizan por estar cubiertos por tricomas de color pardo. Hojas sin estípulas. Flores en fascículos, unisexuales, en individuos monoicos o dioicos, las femeninas formadas únicamente por el pistilo. Sin Estaminodios. Ovario con 5 lóculos, piloso, con tricomas más largos en las flores femeninas que en las masculinas. Fruto globoso. Semillas carentes de endospermo (Aubréville, 1961; Breteler & Nzabi, 1995; Govaerts *et al*, 2001).

Género africano formado por dos 2 especies, de las que en Guinea Ecuatorial tenemos constancia de una de ellas: *D. macrophylla*.

1. Arbusto. Hojas hasta de 50 × 12 cm, con 2 aurículas evidentes y tomentosas en la base del limbo. **1. *D. macrophylla***
1. Árbol de pequeño tamaño. Hojas de 18-25 × 7-10 cm, sin aurículas en la base del limbo. ***D. gracilis* (Gab)**

1. *Delpydora macrophylla* Pierre, in Bull. Mens. Soc. Linn. Paris 2: 1277 (1896)

Chrysophyllum magnilimbum Roberty in Boissiera 11: 75 (1965)

Chrysophyllum ogoouense A. Chev. in Veg. Utiles Afrique Trop. Franc. 9: 270, 443 (1917)

Donella ogoouensis (A. Chev.) Aubrév. & Pellegr. in Not. Syst., Paris, 16: 247 (diciembre 1960)

Donella griffoniana Pierre ex Pellegr. in Mém. Soc. Linn. Normandie 1(2): 15. (1928). (nom. nud.)

Tipo: Gabón. Libreville, *Klaine* 436 (P, BR)

Descripción: Aubréville (1961: 136-138)

Iconografía: Breteler & Nzabi (1995: 34); Figura 30.

Bosque secundario y plantaciones abandonadas, más cercana al litoral; 0-200. África Tropical Centro-Occidental, desde Camerún hasta Congo. Región Guineo-Congoliana (Provincia Nigero-Camerunesa). Río Muni.

Material estudiado: LITORAL: Bata-Monson-Dibolo, estrada km 57, *Carvalho* 4828 (MA-832666); Ayamiken (Reserva de Río Campo), *Obama* 60, 113 (BATA, BRLU); Ayamiken (Reserva de Río Campo), 3 km au nord du village, *Lejoly* 97/38 (BATA, BRLU).

Previamente citado en Litoral (Lejoly & Lisowski, 1998: 124).

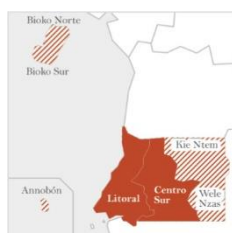




Fig.- 30.- Typus de *Delpyodora macrophylla* (BR)

Otras especies de **Delpydora** que han de buscarse

Delpydora gracilis A. Chev., in Bull. Soc. Bot. France 61 (Mem. 8e: 263 (1917)

Chrysophyllum delpydora Baehni in Boissiera 11: 73 (1965)

5. Englerophytum K. Krause

Árboles pequeños. Hojas con nervadura broquidódroma, con el nervio central hundido y pecíolo canicular cerrado, frecuentemente con estípulas. Estambres con filamentos muy cortos con tendencia a fusionarse (salvo *E. paludosum* y los táxones anteriormente adscritos al género *Zeyherella*; estaminodios ausentes o vestigiales (Aubréville, 1961; Govaerts *et al*, 2001; Gautier *et al*, 2016; Borg, 2019)

Género africano compuesto por 19 especies de las que encontramos 2 en Guinea Ecuatorial. Seguimos el criterio de Pennington (1991) corroborado por estudios moleculares recientes (Borg, 2019) que apoyan la inclusión dentro de este género de *Wildemaniodoxa* y *Zeyherella*. Género de gran interés económico tanto por la presencia de frutos comestibles como por su apreciable madera (Borg., 2013; Gautier *et al*., 2016).

Aunque *E. somiferanum* Aubrév. se cita en Belinga (Gabón) (Aubréville, 1967), no aparece en esta clave por estar muy alejada de Guinea Ecuatorial.

1. Flores sésiles o con pedicelos hasta de 6 mm..... 2
 2. Hojas de 23-70 × 6-15 cm, con pecíolo de 2-3 cm **E. ferrugineum** (Gab)
 2. Hojas de 6-17 × 2-4,5 cm, con pecíolos hasta de 1 cm 3
 3. Pedicelos de 0,3-0,5 cm; anteras apiculadas, con el ápice ± tridentado; estaminodios rudimentarios de borde crenado..... **E. mayumbense** (Gab)
 3. Pedicelos hasta de 0,15 cm; anteras filiformes-oblongas de ápice obtuso; estaminodios lanceolados, acuminados **E. oblanceolatum** (Cam)
1. Flores con pedicelos mayores de 6 mm 4
 4. Ovario más corto que el estilo 5
 5. Lóbulos de la corola 7-8; estambres 7-8..... **E. gigantifolium** (Gab)
 5. Lóbulos de la corola 5; estambres 5 **2. E. sylverianum**
 4. Ovario más largo que el estilo..... 6
 6. Filamentos de los estambres connados, recubriendo el pistilo..... 7
 7. Hojas de 12-18 × 3-6 cm **E. oubanguiense** (Cam)
 7. Hojas de 25,5-60 × 7-12,5 cm 8
 8. Pedicelo de más de 3 cm, tomentoso; hojas con el ápice de emarginado a brevemente acuminado **E. iturense** (Gab)
 8. Pedicelo de menos de 2 cm, pubescente; hojas con el ápice redondeado o acuminado **E. libenii** (Cam, Gab)
 6. Filamentos de los estambres libres..... 9
 9. Estambres 10 **E. laurenti** (Cam, Gab)
 9. Estambres 5 10
 10. Estigma truncado en el ápice; ovario pubescente; hojas con el ápice acuminado y ligeramente emarginado en su extremo **1. E. stelechanthum**
 10. Estigma cónico alargado; ovario densamente viloso; hojas con el ápice mucronado, emarginado o ligeramente acuminado 11
 11. Pedicelo de más de 1 cm; hojas con estípulas de 0,6-1,4 cm **E. paludosum** (Cam, Gab)
 11. Pedicelo de menos de 0,8 cm; hojas con estípulas de 0,2-0,6 cm 12
 12. Pecíolo de 1,2-1,6 cm; estípulas pubescentes; tubo de la corola de 1-1,5 mm; anteras del mismo tamaño que los filamentos **E. magalismontanum** (DR Congo y Angola)*
 12. Pecíolo de 2,5 cm; estípulas tomentosas; tubo de la corola de 2,5 mm; anteras ligeramente más largas que los filamentos **E. letestui** (Gab)

* A pesar de que se ha citado, de un modo impreciso, en Guinea Ecuatorial (Guinea, 1946: 343, sub *Chrysophyllum tessmannii*) la lejanía de las citas más cercanas (DR Congo y Angola) hace muy improbable su presencia en Guinea Ecuatorial

1. Englerophytum stelechanthum K. Krause in Bot. Jahrb. Syst. 50, Suppl.: 344 (1914)

Englerophytum hallei Aubrév. & Pellegr. in Not. Syst., Paris, 16: 253 (1960)

Tipo: Camerún. Bei Nkolebunde am Nlongobach, *Lederman 909*. Kribi, *Mildbraed 6113* (HBG)

Descripción: Krause (1914: 334-335)

Iconografía: Krause 1914: 335; Figura 31.

Pradera y bosque bajo submontano; 0-1000 m. África tropical Occidental y Central, desde Camerún hasta Congo. Región Guineo-Congoliana (Provincia Nigero-Camerunesa, Provincia Congolese). Río Muni.

Material estudiado: CENTRO SUR: ouest du Parc National de Mante Alén, entre la station Ecofac de Mosumo et Monte Boracho, *Senterre et Ngomo 489* (BATA, BRLU). LITORAL: Bata-Senge, estrada km. 27 en dirección a la explotación maderera de EXFOSA, *Carvalho 6359* (BATA, MA-620765); Nco, 20 km ENE vers la riv. Mitong, *Nguema et Lejoly 148* (BATA, BRLU); Monts de Cristal, 10 km ENE d'Okuamkos, *Wilks 1803* (LBV, WAG).

Previamente citado en Litoral (Lejoly & Lisowski, 1998: 124).

No hemos encontrado referencias anteriores de la presencia de esta especie en Centro Sur.





Fig. 31.- Typus de *Englerophytum stelechanthum* (HBG)

2. *Englerophytum sylvanianum* Kenfack & L. Gaut. in Candollea 71(2): 299 (2016)

Tipo: Cameroon. Southwest Region: Korup National Park, descent to Chimpanzee from “Big Boulder”, 05°04’08”N 08°51’35”E, 120 m, 25.V.1997, fl., *Kenfack 764* (holo- : MO!; iso- : K!, WAG!, YA!).

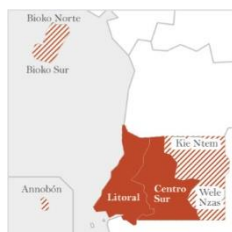
Descripción: Gautier *et al.* (2016: 299)

Iconografía: Gautier *et al.* (2016: 300); Figura 32.

Bosques primarios y secundarios con suelos drenados; 0-1000 m. África tropical central, Camerún y Guinea Ecuatorial. Región Guineo-Congoliana (Provincia Nigero-Camerunesa, Provincia Congolesa). Bioko y Río Muni.

Previamente citado en Bioko Sur (Gautier *et al.*, 2016: 302) y Litoral (Gautier *et al.* 2016: 302).

No hemos podido estudiar el material de referencia de las citas de Bioko y de Litoral de Gautier *et al.* (2016: 302), *Luke et al. 11971* y *Lejoly & van Asbroeck 46*, respectivamente. No obstante, el área de distribución, así como los requerimientos ecológicos de la especie hacen muy posible su presencia en Guinea Ecuatorial.



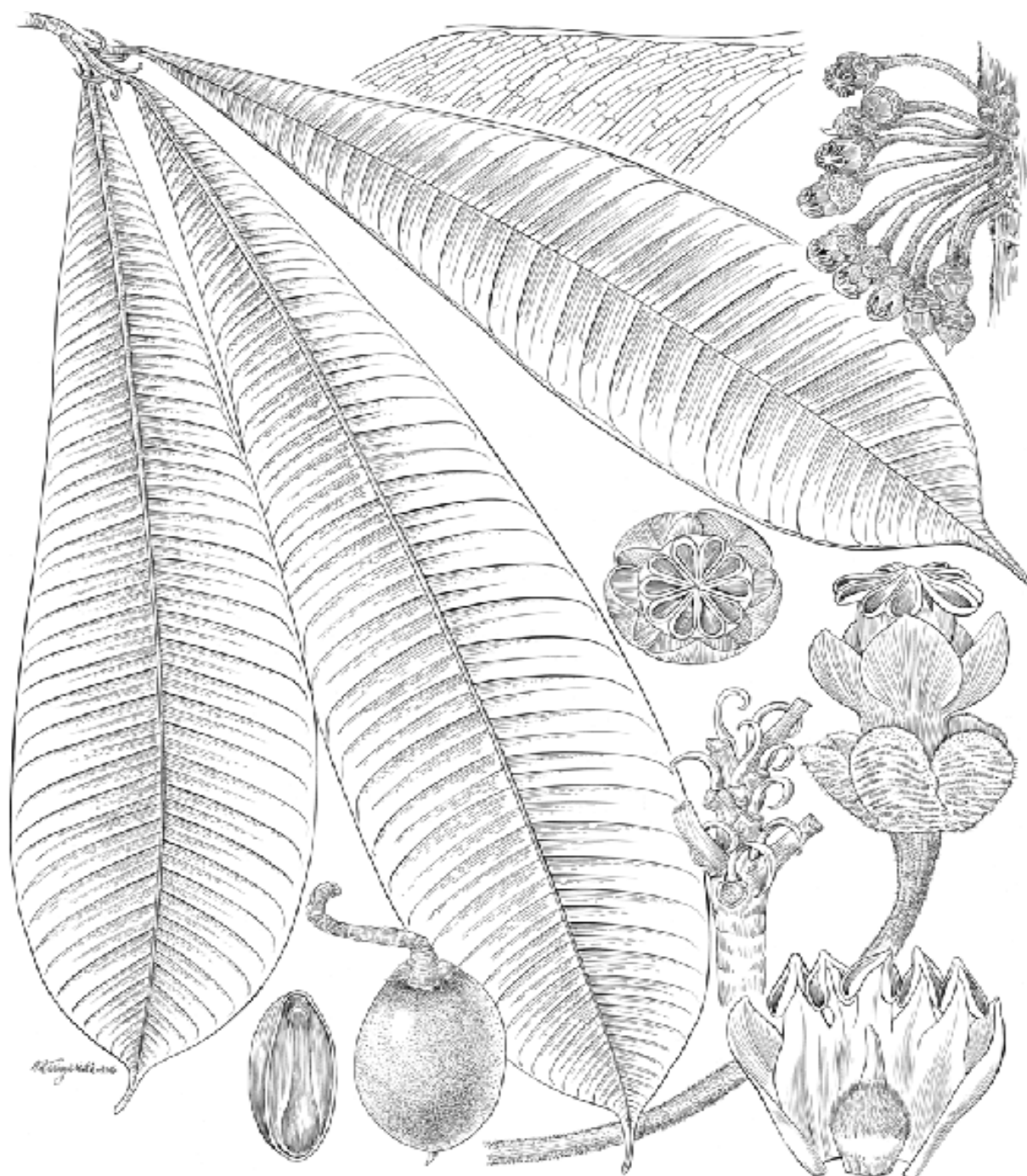


Fig. 32.- Dibujo de *Englerophytum sylverianum* (descripción original)

Otras especies de **Englerophytum** que han de buscarse

- Englerophytum ferrugineum** L. Gaut. & O. Lachenaud in Candollea 71(2): (2016)
- Englerophytum gigantifolium** O. Lachenaud & L. Gaut. in Candollea 71(2): 293 (2016)
- Englerophytum iturense** (Engl.) L. Gaut., Énum. Pl. Fleurs Afr. Trop. 4: 29 (1997)
Chrysophyllum iturense Engl. in Mildbraed, Wiss. Erg. Deut. Zentr.-Afr. Exped. , Bot. 2: 521 (1913). [basión.]
Chrysophyllum vermoesonii De Wild., Pl. Bequaert. 4: 140 (1926)
Englerophytum vermoesonii (De Wild.) Aubrév. & Pellegr. in Not. Syst., Paris, 16: 255 (1961)
Englerophytum somiferanum Aubrév. in Adansonia, sér. 2 7: 25 (1967)
- Englerophytum laurentii** (De Wild.) L. Gaut., in Edinburgh J. Bot. 76(2): 263 (2019)
Chrysophyllum laurentii De Wild., Miss. Em. Laurent 1: 429 (1907) [basión.]
Wildemaniodoxa laurentii (De Wild.) Aubrév. & Pellegr. var. laurentii
Gymnoloma laurentii (De Wild.) Baehni
Wildemaniodoxa laurentii (De Wild.) Aubrév. & Pellegr. (1961)
- Englerophytum letestui** (Aubrév. & Pellegr.) L. Gaut., in Edinburgh J. Bot. 76(2): 265 (2019)
Zeyherella letestui Aubrév. & Pellegr. in Not. Syst., Paris, 16: 257 (1961) [basión].
Englerophytum letestui Aubrév. & Pellegr. in Not. Syst., Paris, 16: 257 (1961), nom inval.
- Englerophytum libenii** O. Lachenaud & L. Gaut., in Candollea 71(2): 296 (2016)
- Englerophytum magalismontanum** (Sond.) T. D. Penn., Genera Sapotac.: 252 (1991)
Chrysophyllum magalismontanum Sond. in Linnaea 23: 72 (1850) [basión]
Bequaertiodendron magalismontanum (Sond.) Heine & J. H. Hemsl. in Kew Bull. 14: 307 (1960)
Pouteria magalismontana (Sond.) A. Meeuse in Bothalia 7: 335 (1960)
Zeyherella magalismontana (Sond.) Aubrév. & Pellegr. in Bull. Soc. Bot. France 105: 37 (1958)
Pachystela magalismontana (Sond.) Lecomte in Bull. Mus. Natl. Hist. Nat. sér.1 25: 194 (1919)
Chrysophyllum tessmannii Engl. & K. Krause in Bot. Jahrb. Syst. 49: 389 (1913)
- Englerophytum mayumbense** (Greves) L. Gaut. in Edinburgh J. Bot. 76(2): 265 (2019)
Sideroxylon mayumbense Greves in J. Bot. 65 (Suppl. 2): 71 (1927) [basión.]
Zeyherella mayumbensis (Greves) Aubrév. & Pellegr. in Not. Syst., Paris, 16: 259 (1961)
- Englerophytum oblanceolatum** (S. Moore) T. D. Penn., Genera Sapotac.: 252 (1991)
Sideroxylon oblanceolatum S. Moore in J. Bot. 45: 47 (1907) [basión.]
Pseudoboivinella oblanceolata (S. Moore) Aubrév. & Pellegr. in Not. Syst., Paris, 16: 260 (1961)
Bequaertiodendron oblanceolatum (S. Moore) Heine & J. H. Hemsl. in Kew Bull. 14: 309 (1960)
Sersalisia malchairi De Wild. in Rev. Zool. Bot. Africaines 7: 15 (1919)
Pouteria malchairi (De Wild.) Baehni in Candollea 9: 280 (1942)
Chrysophyllum glomeruliferum Hutch. & Dalziel in Bull. Misc. Inform. Kew 56 (1937)
Boivinella glomerulifera (Hutch. & Dalziel) Aubrév. & Pellegr. in Bull. Soc. Bot. France 105: 37 (1958)
Neoboivinella glomerulifera (Hutch. & Dalziel) Aubrév. & Pellegr. in Bull. Soc. Bot. France 106: 23 (1959)
- Englerophytum oubanguiense** (Aubrév. & Pellegr.) Aubrév. & Pellegr. in Not. Syst., Paris, 16: 255 (1961)
Tisserantiodoxa oubanguiensis Aubrév. & Pellegr. in Bull. Soc. Bot. France 104: 277 (1957) [basión.]
- Englerophytum paludosum** L. Gaut., Burgt & O. Lachenaud in Candollea 71(2): 289 (2016)

6. *Lecomtedoxa* Pierre ex Dubard.

Árboles de gran tamaño. Hojas sin estípulas. Flores con un verticilo único de 5 sépalos y con 5 lóbulos de la corola con 3 apéndices dorsales. Estaminodios presentes. Fruto dehiscente, con una única semilla (Aubréville, 1961; Govaerts *et al*, 2001; Burgt, 2009).

Género con 10 especies, todas ellas de África central occidental, y con 1 especie en Guinea Ecuatorial. Generalmente cerca de la costa, su madera es apreciada para construcción, suelos, y otros usos. (Fa, 1991)

1. Apéndices de los lóbulos de la corola tan largos o casi tan largos como los lóbulos; estaminodios villosos en los bordes 2
 2. Sépalos escasamente pubescentes por fuera, glabros por dentro; fruto glabro
..... **1. *L. klaineana***
 2. Sépalos claramente pubescentes por fuera; fruto de 4,8 cm, densamente piloso.....
..... ***L. plumosa* (Cam)**
1. Apéndices de los lóbulos de la corola claramente más cortos que los lóbulos; estaminodios glabros o con los bordes aserrados..... 3
 3. Hojas de más de 30 cm, con 10-12 pares de nervios laterales ***L. biraudii* (Gab)**
 3. Hojas de menos de 30 cm, con 12-15 pares de nervios laterales 4
 4. Estaminodios lisos o ligeramente aserrados en los bordes **2. *L. nogo***
 4. Estaminodios marcadamente aserrados en los bordes y terminados en largos pelos..
..... ***L. saint-aubinii* (Gab)**

1. *Lecomtedoxa klaineana* (Pierre ex Engl.) Dubard in Ann. Inst. Bot.-Géol. Colon. Marseille, sér. 3 3: 32 (1915)

Mimusops klaineana Pierre ex Engl., Monogr. Afrik. Pflanzen.-Fam. 8: 82 (1904) [basión.]

Nogo klaineana (Pierre ex Engl.) Baehni in Arch. Sci. 17: Fasc. 1 (1964)

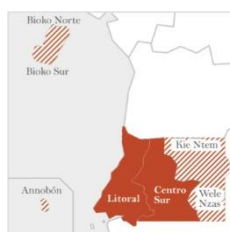
Tipo: Gabón. Cabo Estirias, noviembre de 1895, *Klaine* 408-507 (B); en K y en P existen 6 pliegos de la misma localidad y el mismo número de colector pero de los años 1896 y 1898. en uno de los de K hay un dibujo de semillas con la fecha 11 de 1895, basado en el ejemplar de B.

Descripción: Aubréville (1961: 60-61)

Iconografía: Figura 33.

Bosque maduro en tierra firme; 0-100 m. África tropical central, Camerún y Gabón. Región Guineo-Congoliana (Provincia Nigero-Camerunesa). Río Muni.

No hemos encontrado ningún ejemplar de herbario que apoye la cita de Wilks & Issembé (2000: 450) de Río Muni. No obstante, el área de distribución y los requerimientos ecológicos de la especie hacen muy probable su presencia en Guinea Ecuatorial.



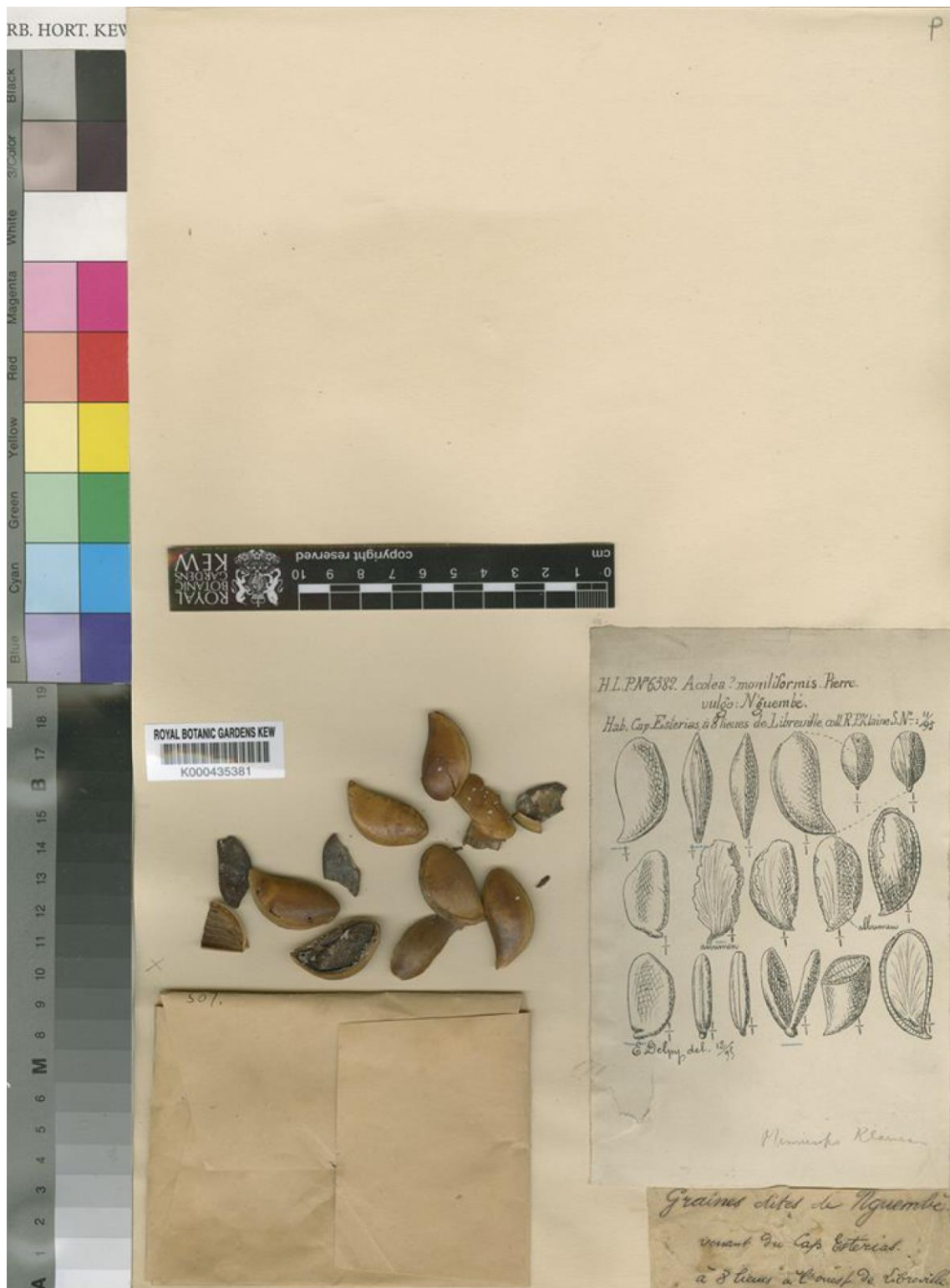


Fig. 33.- Typus de *Lecomtedoxa klaineana* (K)

2. *Lecomtedoxa nogo* (A. Chev.) Aubrév. in Bull. Soc. Bot. France 103: 11 (1956)

Walkeria nogo A. Chev. in Rev. Int. Bot. Appl. Agric. Colon. 26: 551 (1946) [basi6n.]

Lecomtedoxa heitziana (A. Chev.) Aubrév. in Bull. Soc. Bot. France 103: 11 (1956)

Walkeria heitziana A. Chev. in Rev. Int. Bot. Appl. Agric. Trop. 26: 552 (1946)

Nogo heitziana (A. Chev.) Baehni in Arch. Sci. 18: Fasc. 1 (1965)

Nogo chevalieri Baehni in Arch. Sci. 18: Fasc. 1 (1965)

Tipo: Gab6n. Fernan Vaz, *Walker*, s.n. (P, L).

Descripci6n: Aubréville (1961: 64)

Iconografía: Figura 34.

Bosque húmedo; 0-500 m. África Tropical Central, Gab6n. Regi6n Guineo-Congoliana (Provincia Nigero-Camerunesa). Río Muni.

Material estudiado: RÍO MUNI: sin localidad precisa, *Y. Issembe 12* (BATA, BRLU).

Previamente citado en Río Muni, sin localidad precisa (Wilks & Issembé, 2000: 450).





Fig. 34.- Typus de *Lecomtedoxa nogo* (P)

Otras especies de **Lecomtedoxa** que han de buscarse

Lecomtedoxa biraudii Aubrév. & Pellegr, Fl. Gabon 1: 66 (1961)

Lecomtedoxa plumosa Burgt in Kew Bull. 64: 313 (2009)

Lecomtedoxa saint-aubinii Aubrév. & Pellegr., Fl. Gabon 1: 62 (1961)

7. *Letestua* Lecomte

Género monoespecífico distribuido por toda África tropical.

Árbol de gran tamaño, con ramas glabras. Hojas alternas, sin estípulas, con pecíolo largo, oblongas a oblongo-obovales, con la nervadura muy marcada. Flores que salen de las axilas de las hojas y dispuestas en fascículos de 4-12 flores. Cáliz con 6 sépalos divididos en dos verticilos de 3 sépalos cada uno. Corola con 12 lóbulos o más, y cada uno de ellos con 2 apéndices dorsales. Estambres 12-18; sin estaminodios. Ovario con 18 lóculos.

Género africano monoespecífico.

1. *Letestua durissima* (A. Chev.) Lecomte in Notul. Syst. (Paris) 4: 5 (1920)

Pierreodendron durissimum A. Chev. in Veg. Utiles Afrique Trop. Franc. 9: 258 (1917)
[basión.]

Letestua floribunda Lecomte in Notul. Syst. (Paris) 4: 6 (1920)

Tipo: Gabón. Tchibanga, 25 diciembre 1910, *Le Testu* 1169 ([1669]* (*flores*), 1485 (*frutos*) (BR, K, P).

*Los ejemplares tipo consultados en las colecciones de BR, K y P coinciden en localidad y fecha de recolección, no así en el número de colector, mientras que en el protólogo se indica el 1169, los pliegos están etiquetados como 1669 por lo que el número indicado en el protólogo debe tratarse de una errata. No hemos encontrado en los herbarios mencionados ningún ejemplar recolectado por Le Testu con el número 1485.

Descripción: Aubréville (1961: 38)

Iconografía: Lecomte (1920a: 6) sub *Letestua floribunda*; Aubréville (1961: 39); Figura 35.

Árbol de bosque maduro, más común en el interior del país en la región de Río Muni; 0-1000 m. África Tropical central, Gabón y Congo. Región Guineo-Congoliana (Provincia Nigero-Camerunesa). Río Muni.

Material estudiado: CENTRO SUR: Monte Alén, S. Lisowski M-1424 (BATA, BRLU)

Previamente citado en Río Muni, sin localidad precisa (Wilks & Issembé, 2000: 454). No había sido citada anteriormente en la provincia de Centro Sur.

En Guinea Ecuatorial, en fang, se le llama Kong Afán. Es utilizado para la construcción (Aubréville, 1961; Wilks & Issembe, 2000; Govaerts *et al*, 2001).





Fig. 35.- *Letestua durissima* (BR)

8. *Manilkara* Adans.

Género de distribución pantropical con 83 especies, de las que al menos 2, se encuentran en Guinea Ecuatorial. Originario de África desde donde se extendió a Asia, Neotrópico y Madagascar. Dado que es un género de amplia distribución, con más de 30 especies americanas, la descripción genérica se refiere exclusivamente al África tropical.

Árboles o más raramente arbustos. Hojas desde pequeñas hasta muy grandes, con venación variable. Flores sésiles o pediceladas; cáliz con 6 sépalos en 2 verticilos de 3; corola con 6 lóbulos, con 2 apéndices laterales cada uno. Estaminodios 6. Ovario que en la mayoría de las especies supera los 12 lóculos. (Aubreville, 1961; Govaerts *et al*, 2001; Armstrong, 2010)

Crece en zonas costeras, en bosques húmedos y hasta en bosques secos. Muchas de sus especies son muy valoradas por sus frutos comestibles o por su madera. A este género pertenece también el chicle, *M. zapota*, originario de América e introducido posteriormente por África y Asia. referencia

Pennington (1991) sitúa este género junto con *Letestua* en la subtribu Manilkarinae, una de las tres que forman la tribu Mimosopeae. Ambos géneros pueden diferenciarse por el número de lóbulos de la corola y la presencia de estaminodios. De todos los géneros de esta subtribu, el mayor es *Manilkara*.

1. Flores subsésiles o muy poco pediceladas (2- 6 mm); tubo de la corola cónico o subcónico (>2mm)..... **M. zenkeri** (Cam)
1. Flores pediceladas, a veces largamente (> 7 mm); tubo de la corola corto (1-2 mm)..... 2
2. Estaminodios claramente laciniados por los bordes, pubescentes **M. letestui** (Gab)
2. Estaminodios divididos en el ápice 3
3. Hojas con estípulas 4
4. Estípulas 20-25 mm, filiformes; pecíolos 20-40 mm; pedicelos por lo general < 20 mm, de aproximadamente el mismo tamaño que las estípulas . **2. M. pellegriniana**
4. Estípulas 4-7 mm, triangulares; pecíolos 5-15 mm; pedicelos generalmente 20-30 mm y de 4-6 veces el tamaño de las estípulas **M. lososiana** (Cam)
3. Hojas sin estípulas o con estípulas poco visibles 5
5. Estambres y estaminodios no soldados en la base, libres; pedicelo 8-15 mm; hojas obovado-elípticas u obovado-oblongas **1. M. obovata**
5. Estambres y estaminodios soldados en la base, formando un anillo; pedicelo 5-10 mm; hojas glabras de pequeño tamaño (50-70 x 15-28 mm) . **M. microphylla** (Gab)

1. *Manilkara obovata* (Sabine & G. Don) J.H. Hemsl. in Kew Bull. 17: 171 (1963)

Chrysophyllum obovatum Sabine & G. Don in Trans. Hort. Soc. London 5: 458 (1824)
[basién.]

Mimusops lacera Baker in Oliv. (ed.), Fl. Trop. Afr. 3: 507 (1877)

Manilkara lacera (Baker) Dubard in Ann. Inst. Bot.-Géol. Colon. Marseille, sér. 3, 3: 24 (1915)

Tipo: Sierra Leona. *G. Don s.n.* (BM)

Descripción: Burkill (2000: 47)

Iconografía: Figura 36.

Generalmente en zonas cercanas a la costa, en el borde del bosque; 0-500 m. África Tropical, desde Guinea Conakry hasta Chad, Sudán, Zambia y Angola. Región Sudano-Zambeziana (Provincia Sudanesa, Provincia Somalo-Etíope); Región Guineo-Congoliana (Provincia Alta Guinea, Provincia Nigero-Camerunesa, Provincia Congolesa). Annobón, Río Muni.

Material estudiado: ANNOBÓN: San Pedro, *Elad 1215* (BATA); Weg nach Santa Cruz, *G.W.J. Mildbraed 6595* (HBG); Olea-Wald am Nordkrater, *G.W.J. Mildbraed 6611* (HBG). LITORAL: Bata: entre el aeropuerto y Río Utonde, *Carvalho 4874* (BATA, MA); *Carvalho 5198* (BATA, MA-598216); Bata: Entre el Aeropuerto y Río Utonde. Pradera gramínea compuesta por varios "generos", *M. Carvalho 4874* (MA-597392); au S de Bata, pres du fleuve Ekuka, *S. Lisowski M-1195a* (BATA, BRLU); Crystal Mountains, 10 km ENE of Okuamkos, near Mitemele River, *Wilks, C.M. 1822* (LBV).

Previamente citado en Annobón (Exell, 1973b: 370, Mildbraed, 1922: 163, Exell 1944: 236, Velayos et al., 2014: 49) y Litoral (Lejoly & Lisowski, 1998: 124).





Fig. 36.- Typus de *Manilkara obovata* (BM)

2. *Manilkara pellegriniana* Tisser. & Sillans in Rev. Bot. Appl. 33: 558 (1953)

Tipo: Camerún. Rives de la Doume pres Bimba 40 km SW de Batouri, *Letouzey, R. 4751.* (YA)

Descripción: Sillans (1953: 558)

Iconografía: Figura 37.

Bosque húmedo, usualmente en zonas de ribera; 0-400 m. África tropical central, Camerún, R. Centroafricana y Congo. Región Guineo-Congoliana (Provincia Nigero-Camerunesa). Rio Muni.

Material estudiado: LITORAL: Sud de Etembue, *Lejoly et Van Asbroeck 46* (BATA); *Lejoly & Van Asbroeck 52* (BATA)

No había sido citada anteriormente en Guinea Ecuatorial





Fig. 37.- Typus de *Manilkara pellegriniana* (YA)

Otras especies de **Manilkara** que han de buscarse

Manilkara letestui Auberville & Pellegrin in Not. Syst., Paris, 16: 233 (1961)

Manilkara lososiana Kenfack & Ewango, in Kew Bull. 59: 609 (2004)

Manilkara microphylla Auberville & Pellegrin in Not. Syst., Paris, 16: 233 (1961)

Manilkara zenkeri Lecomte ex Aubrév. & Pellegr. in Not. Syst., Paris, 16: 231 (1961)

9. *Neolemonniera* Heine

Árboles de c. 20 m. Hojas con estípulas. Flores pentámeras; corola con lóbulos provistos de 2 apéndices no completamente divididos. Estaminodios 5. Ovario con 5 lóculos.

Género con 3 especies de África occidental y África central occidental, con una única representante en Guinea Ecuatorial.

El género fue nombrado por Paul Henri Lecomte en 1918 sobre una especie de *Mimusops* de Pierre sinonimizada más tarde a *Lecomtedoxa* (*Lecomtedoxa ogouensis*). El nombre dado por Lecomte fue *Le-Monniera*, género ya existente para hongos, lo que hizo que Heine lo renombrara como *Neolemonniera*. Más allá de las descripciones, no existe una revisión de este género. (Aubreville, 1961; Govaerts *et al*, 2001).

1. *Neolemonniera batesii* (Engl.) Heine, in Kew Bull. 14: 301 (1960)

Mimusops batesii Engl., Monogr. Afrik. Pflanzen.-Fam. 8: 64 (1904) [basión.]

Tipo: Gabón: an Flussufern bei Mfoa im Osten von Gabun [orillas de los ríos cerca de Mfoa en el E de Gabón], *G.L. Bates 530*. Bluhend in Oktober 1896 [en flor en octubre de 1896]. Herb. De Candolle (G).

Descripción: Engler (1904: 64), Aubréville (1959: 116)

Iconografía: Figura 38.

Bosque de ribera; 10-550 m. África Tropical central. Autóctona de África Tropical. Región Guineo-Congoliana (Provincia Nigero-Camerunesa). Río Muni.

Material estudiado: LITORAL: District Mbili, près du village Sendje, rochers au bord du fleuve Uele, *S. Lisowski 580* (BRLU).

Previamente citado de Litoral (Lejoly & Lisowski, 1998: 124).





Fig. 38.- Typus de *Neolemonniera batesii* (G)

10. *Omphalocarpum* P. Beauv.

Árboles de gran tamaño, hasta 30 m de altura, generalmente caulifloros (a excepción de *O. pachystelioides*), de bosques húmedos. Flores hermafroditas o solo femeninas; corola con los lóbulos sin apéndices laterales. Estaminodios presentes. Frutos con 5-30 semillas, subglobosos, grandes (pudiendo llegar a pesar varios kilos).

Género con 27 especies aproximadamente, 2 de ellas presentes en Guinea Ecuatorial.

Si bien el género es fácil de diferenciar dentro de la familia, las especies son bastante difíciles de separar, siendo uno de los principales problemas la falta de material, que provoca que hojas, flores o frutos no se encuentren disponibles para su descripción y comparación. El género requiere una revisión (Aubreville, 1961; Aubreville, 1963; Govaerts *et al*, 2001).

- 1. Flores sésiles; hojas de 3-5 cm de ancho y 6-7 pares de nervios laterales **2. *O. procerum***
- 1. Flores pediceladas; hojas de 4-10 cm de ancho y 8-12 pares de nervios laterales 2
 - 2. Sépalos tomentosos en su exterior; anteras de longitud similar a la del filamento; estaminodios casi tan largos como los estambres ***O. pachystelioides*** (Cam)
 - 2. Sépalos glabros o ligeramente pubescentes en su exterior; anteras mucho más cortas que el filamento; estaminodios más cortos que los filamentos 3
 - 3. Estaminodios subulados, lisos con el ápice laciniado o con flecos **1. *O. elatum***
 - 3. Estaminodios rómbicos, con el ápice desflecado ***O. lecomteanum*** (Gab)

1. *Omphalocarpum elatum* Miers in Trans. Linn. Soc. London, Bot. 1(1): 16 (1875)

Omphalocarpum anocentrum Pierre ex Engl., Monogr. Afrik. Pflanzen.-Fam. 8: 15 (1904)

Omphalocarpum radlkoferi var. *pluriloculare* Engl., Monogr. Afrik. Pflanzen.-Fam. 8: 15 (1904)

Omphalocarpum trillesianum Pierre ex Engl., Monogr. Afrik. Pflanzen.-Fam. 8: 13 (1904)

Omphalocarpum radlkoferi Pierre in Bull. Mens. Soc. Linn. Paris 1: 579 (1886)

Tipo: Sierra Leona. río Bagroo, G. Mann 815 (BM); Nigeria. Old Calabar [Akwa Akpa], Thompson 128 (BM); Camerún. Cameroon River. G. Mann 512 (BM). Los tres elementos que se citan en el protólogo se encuentran reunidos en un mismo pliego de BM. En él aparece también un dibujo de *O. elatum* y un espécimen de Mann 718, colectado también en Camerún.

Descripción: Burkill (2000: 51-52)

Iconografía: Figura 39.

Árbol de bosque maduro; 0-1100 m. África Tropical central, desde Guinea Conakri hasta R.D. Congo. Región Guineo-Congoliana (Provincia Alta Guinea, Provincia Nigero-Camerunesa, Provincia Congolesa). Bioko, Río Muni.

Material estudiado: BLOKO SUR: de Musola a Balachá de Riocoricho, E. Guinea 1484 (MA-699262); Ureca. Camino de Etepo, M. Fero 424 (UNGE); Ureca. Reserva Científica de la Gran Caldera de Lubá. Camino de Moraka Norte, M. Fero, J. M. Borilo & L. Broadhead 543 (UNGE); Ureca. Reserva Científica Gran Caldera de Lubá. Camino de Etepo, M. Fero, J. M. Borilo, Hannah, Alee & Kisito 534 (UNGE). LITORAL: Bata-Makoga: Estrada Km. 10 da estrada Bata-Niefang, M. Carvalho 5983 (MA-610065); Monts de Cristal. 8 km ENE de Okuamkos., C.M. Wilks 1717 (LBV, WAG).

Previamente citado de Bioko (Velayos et al., 2013: 125), Bioko Sur (Hepper, 1963: 18), Centro Sur (Lejoly & Lisowski, 1998: 125; Guinea, 1946: 155; Aubréville, 1961: 79), Wele Nzas (Guinea, 1946: 146), Río Muni (Wilks & Issembé, 2000: 460) y Guinea Ecuatorial sin localidad precisa (Guinea, 1946: 343; Hepper, 1963: 18).

No había sido citada anteriormente en la provincia de Litoral





Fig. 39.- Typus de *Omphalocarpum elatum* (BM)

2. *Omphalocarpum procerum* P. Beauv., Fl. Oware 1: 7, t.5-6 (1804)

Omphalocarpum pierreanum Engl., Monogr. Afrik. Pflanzen.-Fam. 8: 14 (1904)

Omphalocarpum congolense Pierre ex Engl., Monogr. Afrik. Pflanzen.-Fam. 8: 14 (1904)

Omphalocarpum laurentii De Wild., Miss. Em. Laurent 1: 417 (1907)

Tipo: [Nigeria]: Cote du Benin, Oware. *Palisot de Beauvois* (G). La procedencia del tipo es dudosa. A pesar de que Aubréville sitúa la procedencia del tipo en Benín, en realidad procede de Oware, en Nigeria, como ya señalan otros autores (Heine, 1963).

Descripción: Aubréville (1961: 76-78)

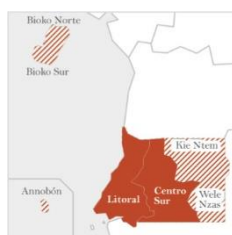
Iconografía: Figura 40.

Bosque secundario, en zonas húmedas; 0-600 m. África tropical occidental y central, desde Costa de Marfil hasta R.D. Congo. Región Guineo-Congoliana (Provincia Alta Guinea, Provincia Nigero-Camerunesa, Provincia Congolesa). Río Muni.

Material estudiado: LITORAL: Afana Oyek (Bata-Mbini km 25), *Lejoly & Van Asbroeck 56* (BATA, BRLU).

Previamente citado en Wele Nzaz (Guinea, 1946: 146) y Río Muni sin localidad precisa Wilks & Issembé, 2000: 460).

No había sido citada anteriormente en la provincia de Litoral



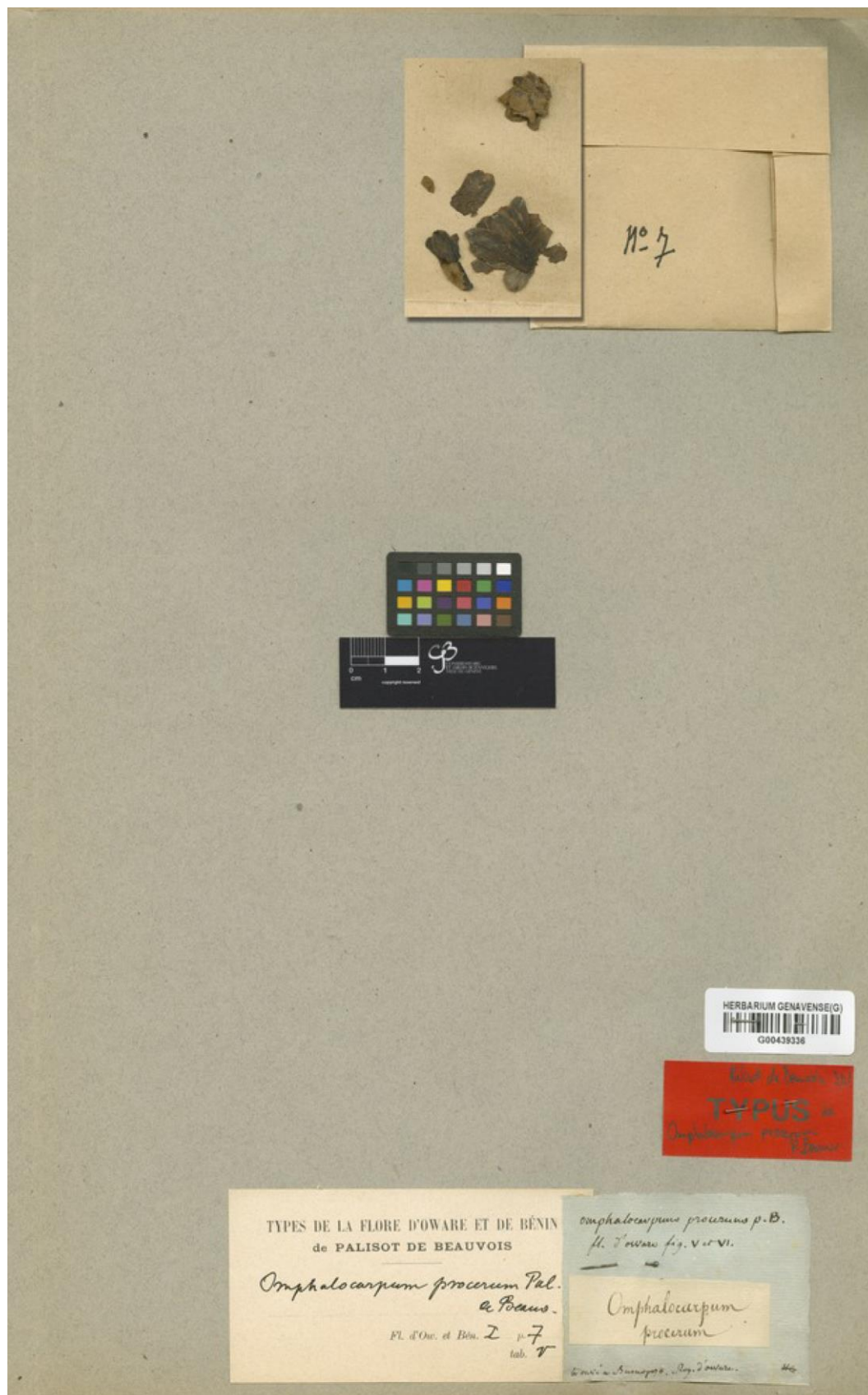


Fig. 40.- Typus de *Omphalocarpum procerum* (G)

Otras especies de **Omphalocarpum** que han de buscarse:

Omphalocarpum lecomteanum Pierre ex Engl., Monogr. Afrik. Pflanzen.-Fam. 8: 15 (1904)

Omphalocarpum bomanehense De Wild., Miss. Em. Laurent 1: 422 (1907)

Omphalocarpum mildbraedii Engl. & K. Krause in Bot. Jahrb. Syst. 49: 381 (1913)

Omphalocarpum injoloense De Wild. in Rev. Zool. Bot. Africaines 7: 7 (1919)

Omphalocarpum letestui Aubrév. & Pellegr. in Not. Syst., Paris, 16: 273 (1961)

Omphalocarpum pachysteloides Mildbr. ex Hutch. & Dalziel, Fl. W. Trop. Afr. 2: 13 (1931)

Ituridendron bequaertii De Wild., Pl. Bequaert. 4: 100 (1926)

Vanderystia congolensis De Wild., Pl. Bequaert. 4: 103 (1926)

Omphalocarpum incertae sedis:

Omphalocarpum adolfi-friedericii Engl. & K. Krause in Bot. Jahrb. Syst. 49: 383 (1913).

Descrita en 1913 sobre material sin flores, por lo que se basa en hojas, tronco y frutos inmaduros. Las hojas son pequeñas (7-12 cm de largo y hasta 3,8 cm de ancho), pecioladas. Frutos inmaduros subsésiles.

Omphalocarpum ogouense Pierre ex Engl., Monogr. Afrik. Pflanzen.-Fam. 8: 17 (1904)

Descripción solo con fruto incompleto. Según la descripción, la diferencia con otras especies es la punta del fruto, el grosor completo del pericarpio y semillas más grandes que otras especies, como *O. lecomteanum*.

Omphalocarpum torosum Baudon in Ann. Inst. Bot.-Géol. Colon. Marseille, sér. 4, 7: 1 (1929).

Descripción sin flores, solo con hojas y frutos incompletos o inmaduros. Hojas grandes, de unos 20 cm de largo y 5 de ancho, sésiles. Frutos con pedúnculo muy corto, redondeados. Según la descripción, se caracteriza por frutos irregulares de superficie lisa y brillante.

11. *Synsepalum* (A. DC.) Daniell

De arbustos a pequeños árboles. Hojas con nervadura eucaptódroma. Flores pentámeras, con el cáliz soldado al menos hasta la mitad de su longitud. Estambres con filamentos libres, y estaminodios, de la misma longitud que los filamentos y generalmente con los bordes dentados. Ovario con 5 lóculos (Aubréville, 1961; Govaerts *et al*, 2001; Gautier *et al*, 2016; Borg, 2019)

Frutos comestibles y madera con interés económico. Por ejemplo *S. dulcificum*, tiene unos frutos ricos en miraculina, glicoproteína que proporciona un sabor dulce a alimentos ácidos (Chen *et al.*, 2009).

Género con 35 especies, contando en Guinea Ecuatorial con 3 especies. El género es fácil de diferenciar de otros de la misma familia (siendo *Englerophytum* su grupo más cercano), pero presentando dificultad para la diferenciación específica, especialmente mediante caracteres sexuales, por lo que, de momento, debemos centrarnos en caracteres en su mayoría vegetativos.

1. Estaminodios pequeños y vestigiales, de margen entero, o sin estaminodios..... 2
 2. Hojas con estípulas..... 3
 3. Estilo glabro..... **1. S. brevipes**
 3. Estilo pubescente **S. msolo** (Cam, Gab)
 2. Hojas sin estípulas..... 4
 4. Anteras pubescentes..... **S. gabonense** (Gab)
 4. Anteras glabras 5
 5. Sépalos libres 6
 6. Hojas de ápice claramente acuminado..... **S. sereti** (Gab)
 6. Hojas de ápice redondeado, no acuminado **S. afzelii** (Gab)
 5. Sépalos soldados aproximadamente hasta la mitad de su longitud 7
 7. Estilo glabro **S. nyangense** (Gab)
 7. Estilo pubescente..... **S. cerasiferum** (Cam, Gab)
 1. Estaminodios de más de 1 mm, de margen $\pm$ aserrado 8
 8. Sépalos libres, al menos en la mitad de su longitud 9
 9. Flores sésiles, con estaminodios ovado-apiculados, aserrados lateralmente y con 2 pequeños apéndices en los laterales..... **2. S. letouzeyi**
 9. Flores pediceladas, con estaminodios lineares, muy estrechos 10
 10. Estilo claramente más largo que los estambres **3. S. revolutum**
 10. Estilo más corto o tan largo como los estambres..... **S. passargei** (Cam)
 8. Sépalos soldados en más de 2/3 partes de su longitud 11
 11. Hojas asimétricas, de margen claramente ondulado **S. letestui** (Gab)
 11. Hojas simétricas y de margen liso..... 12
 12. Flores sésiles **S. fleuryanum** (Gab)
 12. Flores con pedicelos de 1,5-4 mm 13
 13. Hojas con limbo de 45 × 14 cm y pecíolos hasta de 12 mm
..... **S. subcordatum** (Gab)
 13. Hojas con limbo de 14-26 × 4-14 cm y pecíolos hasta de 40 mm 14
 14. Hojas más o menos pubescentes por el envés..... 15
 15. Subarbusto con hojas con limbo de 10-14 × 4-5 cm, estipuladas; estaminodios ovados con margen denticulado, casi tan largos como los estambres..... **S. congolense** (Cam, Gab)

15. Árbol con hojas con limbo de 14-20 × 5-7 cm, aparentemente sin
estípulas; estaminodios lanceolados, puntiagudos y dentados a partir del
ensanchamiento, tan largos como los estambres..... 16
16. Hojas con el envés claramente pubescente, con gruesos tricomas
adpresos; 12 pares de nervios secundarios; tubo de la corola de 3
mm, con lóbulos de 3,5-4 mm **S. batesii** (Gab)
16. Hojas adultas con el envés glabro, pero con marcas evidentes de una
pubescencia densa; 10-12 pares de nervios secundarios; tubo de la
corola de 2 mm, con lóbulos de 3 mm..... **S. zenkeri** (Cam)
14. Hojas glabras..... 17
17. Hojas con pecíolo muy corto, de ± 0.5 cm; cáliz con forma de campana;
antras del mismo tamaño que los filamentos y estaminodios tan largos
como los estambres, lanceolados y dentados **S. dulcificum** (Cam, Gab)
17. Hojas con pecíolo de 2-3 cm; cáliz globoso; filamento de los estambres
del doble de longitud que las antras, estaminodios ligeramente más
cortos que los estambres, ovados y con un ápice largo y estrecho.....
..... **S. stipulatum** (Cam, Gab)

1. *Synsepalum brevipes* (Baker) T.D.Penn., Genera Sapotac.: 248 (1991)

- Sideroxylon brevipes* Baker, in Oliv. (ed.), Fl. Trop. Afr. 3: 502 (1877) [basión.]
Pouteria brevipes (Baker) Baehni in Candollea 9: 290 (1942)
Pachystela brevipes (Baker) Engl., Monogr. Afrik. Pflanzen-Fam. 8: 37 (1904)
Bakeriella brevipes (Baker) Dubard in Ann. Inst. Bot.Géol. Colon. Marseille, sér. 2, 10: 27
(1912)
Sersalisia brevipes (Baker) Baill. in Bull. Mens. Soc. Linn. Paris 2: 947 (1891)
Sideroxylon cinereum (Pierre) Eyles in Trans. Roy. Soc. South Africa 5: 437 (1916)
Chrysophyllum cinereum Engl. in Bot. Jahrb. Syst. 12: 522 (1890)
Bakeriella cinerea (Engl.) Dubard in Ann. Inst. Bot.Géol. Colon. Marseille, sér. 2 10: 27
(1912)
Chrysophyllum stuhlmannii Engl., Pflanzenw. Ost-Afrikas 306 (1895)
Chrysophyllum batangense C. H. Wright in Bull. Misc. Inform. Kew 162 (1896)
Pachystela longistyla (Baker) Radlk. in Ann. Mus. Congo Belge, Bot., sér. 2, 1(1): 33 (1899)
Sideroxylon longistylum Baker in Oliv. (ed.), Fl. Trop. Afr. 3: 502 (1877)
Bakeriella longistyla (Baker) Dubard in Ann. Inst. Bot.Géol. Colon. Marseille, sér. 2 10: 27
(1912)
Sideroxylon saculeuxii Baill. in Bull. Mens. Soc. Linn. Paris 2: 911, 946 (1891)
Pachystela conferta Radlk. in Ann. Mus. Congo Belge. Bot., Ser. 2 1(1): 33 (1899)
Pachystela cinerea var. *cuneata* (Radlk.) Engl., Monogr. Afrik. Pflanzen-Fam. 8: 38 (1904)
Pachystela cuneata Radlk. in Ann. Mus. Congo Belge, Bot. sér. 2, Varia 1: 32 (1899).
Pachystela lenticellosa Radlk. in Ann. Mus. Congo Belge. Bot., Ser. 2 1(1): 33 (1899)
Pachystela cinerea var. *undulata* Engl., Monogr. Afrik. Pflanzen-Fam. 8: 38 (1904)
Pachystela liberica Engl. in Bot. Jahrb. Syst. 49: 385 (1913)
Pachystela macrocarpa A. Chev. in Rev. Bot. Appl. 23: 288 (1943)

Tipo: Distrito de Mozambique [Mozambique, Tanzania o Malawi]. Zanzibar, Zanguebar and the
north end of Lake Nyasa. *Kirk s.n.* (K)

Descripción: Baker (1877: 502)

Iconografía: Figura 41.

Bosque montano o submontano; 200-600 m. África tropical occidental y central, desde Guinea
Conakry hasta Sudán, Zimbabue, Mozambique y Angola. Región Sudano-Zambeziana (Provincia

Zambeciana); Región Guineo-Congoliana (Provincia Alta Guinea, Provincia Nigero-Camerunesa, Provincia Congolesa). Río Muni.

Material estudiado: LITORAL: District Mbini, village Sendje, Río Uele, *Lisowski M-1275* (BRLU); Etembue (Réserve de Ndote), *Eneme & Lejoly 67* (BRLU).

Previamente citada en Litoral (Lejoly & Lisowski, 1998: 125) y en Guinea Ecuatorial sin localidad precisa (Guinea, 1946: 127, 160, 243).

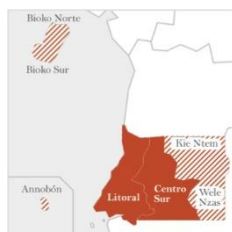




Fig. 41.- Typus de *Synsepalum brevipes* (K)

2. *Synsepalum letouzeyi* Aubrév. in Adansonia, sér. 2, 3: 38 (1963)

Tipo: Camerún, *Letouzey* 3775 (P, YA)

Descripción: Aubreville (1963: 38)

Iconografía: Aubreville (1963: 39); Figura 42.

Bosque primario; 0-1000 m. África tropical central, Camerún y R. Centroafricana. Región Guineo-Congoliana (Provincia Nigero-Camerunesa, Provincia Congolesa). Río Muni.

Previamente citado en Wele Nzas (Lejoly & Lisowski, 1998: 125). No hemos encontrado material de herbario que confirme la cita, aunque su área de distribución y requerimientos ecológicos hacen que su presencia en la país sea muy probable.



3. *Synsepalum revolutum* (Baker) T.D. Penn., Genera Sapotac.: 249 (1991)

- Sideroxylon revolutum* Baker in Oliv. (ed.), Fl. Trop. Afr. 3: 503 (1877) [basi6n.]
Vincentella revoluta (Baker) Pierre, Notes Bot. Sapot.: 37 (1891)
Bakerisideroxylon revolutum (Baker) Engl., Monogr. Afrik. Pflanzen.Fam. 8: 34 (1904)
Pouteria revoluta (Baker) Baehni in Candollea 9: 385 (1942)
Bakeriella revoluta (Baker) Dubard in Ann. Inst. Bot.G6ol. Colon. Marseille, s6r. 2 10: 28 (1912)
Sideroxylon densiflorum Baker in Oliv. (ed.), Fl. Trop. Afr. 3: 503 (1877)
Vincentella densiflora (Baker) Pierre, Notes Bot. Sapot. 37 (1891)
Bakerisideroxylon densiflorum (Baker) Engl., Monogr. Afrik. Pflanzen.Fam. 8: 34 (1904)
Bakeriella densiflora (Baker) Dubard in Ann. Inst. Bot.G6ol. Colon. Marseille, s6r. 2, 10: 28 (1912)
Pouteria densiflora (Baker) Baehni in Candollea 9: 387 (1942)
Vincentella camerounensis Pierre ex Aubr6v. & Pellegr. in Bull. Soc. Bot. France 81: 800 (1934)
Pouteria camerounensis (Pierre ex Aubr6v. & Pellegr.) Baehni in Candollea 9: 383 (1942)
Bakerisideroxylon revolutum var. *brevipetiolulatum* Engl., Monogr. Afrik. Pflanzen-Fam. 8: 34 (1904)
Bakerisideroxylon bruneelii De Wild. in Repert. Spec. Nov. Regni Veg. 13: 375 (1914)

Tipo: Guinea Ecuatorial. Fernando Po [Bioko, sin localidad precisa], *Mann s.n.* (P)

Descripci6n: Baker (1877: 503) sub *Sideroxylon densiflorum*

Iconografía: Engler (1904: 34). sub *Bakerisideroxylon densiflorum*; Figura 43 de este capítulo.

Praderas y bosques submontanos; 0-1100 m. Aut6ctona de África Tropical. Regi6n Guineo-Congoliana (Provincia Alta Guinea, Provincia Nigero-Camerunesa, Provincia Congolesa). Bioko.

Material estudiado: BOKO SUR: Badja E trail pt. 335 to pt. 338, *Q. Luke 13112* (MA-839547)

Previamente citado en Bioko (Hutchinson, 1931: 12; Guinea, 1946: 342; Velayos et al., 2013: 125; Hepper, 1963: 23).



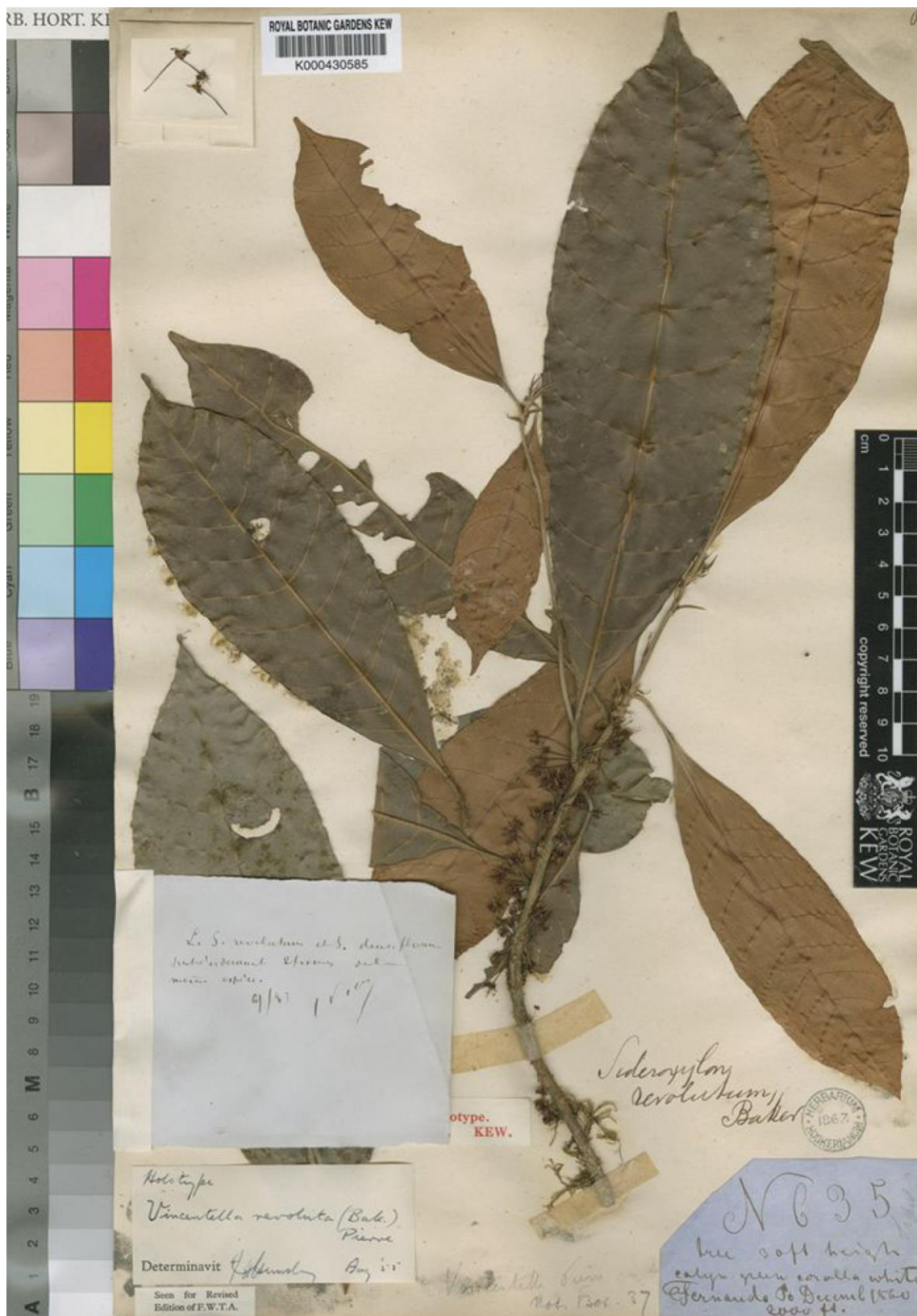


Fig. 43.- Typus de *Synsepalum revolutum* (K)

Otras especies de **Synsepalum** que han de buscarse:

Synsepalum afzelii (Engl.) T. D. Penn., Genera Sapotac.: 248 (1991)

Sersalisia afzelii Engl., Monogr. Afrik. Pflanzen.Fam. 8: 30 (1904) [basi3n.]

Richardella afzelii (Engl.) Baehni in Boissiera 11: 96 (1965)

Afroersalisia afzelii (Engl.) A. Chev. In Rev. Bot. Appl. 23: 293 (1943)

Pouteria afzelii (Engl.) Baehni in Candollea 9: 320 (1942)

Pouteria akuedo Baehni in Candollea 9: 384 (1942)

Vincentella micrantha (A. Chev.) A. Chev.

Sersalisia micrantha (A. Chev.) Aubr3v. & Pellegr.

Mimusops micrantha A. Chev. in Veg. Utiles Afrique Trop. Franc. 5: 244 (1909)

Pachystela micrantha (A. Chev.) Hutch. & Dalziel, Fl. W. Trop. Afr. 2: 10, in clavi, 11 (1931)

Afroersalisia micrantha (A. Chev.) A. Chev. in Rev. Bot. Appl. 23: 293 (1943)

Sersalisia microphylla A. Chev., Expl. Bot. Afr. Occ. 1: 388 (1920)

Synsepalum batesii (A. Chev.) Aubr3v. & Pellegr., Not. Syst., Paris, 16: 263 (1961)

Pachystela batesii A. Chev. in Rev. Bot. Appl. Agric. Trop. 23: 290 (1943) [basi3n.]

Synsepalum cerasiferum (Welw.) T. D. Penn., Genera Sapotac.: 248 (1991)

Sapota cerasifera Welw., Apont. 585 (1859) [basi3n.]

Afroersalisia cerasifera (Welw.) Aubr3v. ex Heine, Fl. W. Trop. Afr., ed. 2 2: 30 (1963)

Chrysophyllum cerasiferum (Welw.) Hiern, Cat. Afr. Pl. 1: 643 (1898)

Bakeriella cerasifera (Welw.) Dubard in Ann. Inst. Bot.G3ol. Colon. Marseille, s3r. 2 10: 27 (1912)

Amorphospermum cerasiferum (Welw.) Baehni in Boissiera 11: 103 (1965)

Chrysophyllum disaco Hiern, Cat. Afr. Pl. 1: 642 (1898)

Sersalisia disaco (Hiern) Engl., Monogr. Afrik. Pflanzen.Fam. 8: 30 (1904)

Bakeriella disaco (Hiern) Dubard in Ann. Inst. Bot.G3ol. Colon. Marseille, s3r. 2 10: 27 (1912)

Afroersalisia disaco (Hiern) Aubr3v. in Bull. Soc. Bot. France 104: 281 (1957)

Pouteria disaco (Engl.) A. Meeuse in Bothalia 7: 341 (1960)

Sersalisia chevalieri Engl. in Bot. Jahrb. Syst. 49: 385 (1913)

Pouteria chevalieri (Engl.) Baehni in Candollea 9: 320 (1942)

Rogeaonella chevalieri (Engl.) Chesnais ex A. Chev. in Rev. Bot. Appl. 23: 294 (1943)

Afroersalisia chevalieri (Engl.) Aubr3v., Fl. Forest. Soudano-Guineenne 427 (1950)

Sersalisia usambarensis Engl., Monogr. Afrik. Pflanzen.Fam. 8: 31 (1904)

Afroersalisia usambarensis (Engl.) Aubr3v. in Bull. Soc. Bot. France 104: 281 (1957)

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Bakerisideroxylon djalonense A. Chev., Expl. Bot. Afr. Occ. 1: 390 (1920)

Sersalisia edulis S. Moore in J. Bot. 44: 86 (1906)

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Sersalisia djalonensis Aubr3v. & Pellegr. in Bull. Soc. Bot. France 81: 798 (1934)

Synsepalum congolense Lecomte, in Bull. Mus. Natl. Hist. Nat. s3r.1 34: 356 (1928)

Pouteria congolense (Lecomte) Baehni in Candollea 9: 276 (1942)

Synsepalum dulcificum (Schumach. & Thonn.) Daniell in Pharm. J. Trans. 11: 446 (1852)

Pouteria dulcifica (Schumach. & Thonn.) Baehni in Candollea 9: 276 (1942)

Sideroxylon dulcificum (Schumach. & Thonn.) A. DC. in DC., Prodr. 8: 183 (1844)

Bakeriella dulcifica (Schumach. & Thonn.) Dubard in Ann. Inst. Bot.G3ol. Colon. Marseille, s3r. 2 10: 28 (1912)

Bumelia dulcifica Schumach. & Thonn., Beskr. Guin. Pl. 130 (1827)

Richardella dulcifica (Schumach. & Thonn.) Baehni in Boissiera 11: 97 (1965)

Synsepalum fleuryanum A. Chev., in Rev. Bot. Appl. 23: 292 (1943)

Synsepalum gabonense (Aubr3v. & Pellegr.) T. D. Penn., Genera Sapotac.: 249 (1991)

Tulestea gabonensis Aubr3v. & Pellegr. in Not. Syst., Paris, 16: 266 (1961) [basi3n.]

Synsepalum letestui Aubr3v. & Pellegr., in Not. Syst., Paris, 16: 266 (1961)

- Synsepalum msolo** (Engl.) T. D. Penn., Genera Sapotac.: 249 (1991)
Chrysophyllum msolo Engl., Abh. Königl. Akad. Wiss. Berlin (1894) [basión.]
Pouteria msolo (Engl.) A. Meeuse in Bothalia 7: 341 (1960)
Pachystela msolo (Engl.) Engl., Monogr. Afrik. Pflanzen.Fam. 8: 38 (1904)
Amorphospermum msolo (Engl.) Baehni in Boissiera 11: 103 (1965)
Pachystela bequaertii De Wild., Pl. Bequaert. 4: 106 (1926)
Pouteria bequaertii (De Wild.) Baehni in Candollea 9: 277 (1942)
Pachystela argentea A. Chev. in Bull. Soc. Bot. France lxi. Mem. 8 (1914)
- Synsepalum nyangense** (Pellegr.) McPherson & L.T.J. White in Novon 9(4): 534 (1999)
Gambeya nyangensis Pellegr. in Bull. Mus. Natl. Hist. Nat. sér.1, 30: 327 (1924) [basión]
- Synsepalum passargei** (Engl.) T. D. Penn., Genera Sapotac.: 249 (1991)
Bakerisideroxylon passargei Engl., Monogr. Afrik. Pflanzen.Fam. 8: 35 (1904) [basión]
Vincentella passargei (Engl.) Aubrév., Fl. Forest. Soudano-Guineenne 427 (1950)
Pouteria passargei (Engl.) Baehni in Candollea 9: 382 (1942)
Afroseralisia afzelii var. *ligulata* (Baehni) A. Chev.
Pouteria ligulata Baehni in Candollea 9: 386 (1942)
Pouteria tridentata Baehni in Candollea 9: 386 (1942)
Bakerisideroxylon sapinii De Wild. in Rev. Zool. Bot. Africaines 7: 16 (1919)
Vincentella sapinii (De Wild.) Brenan in Mem. New York Bot. Gard. 8: 498 (1954)
- Synsepalum sereti** (De Wild.) T. D. Penn., Genera Sapotac.: 249 (1991)
Pachystela seretii De Wild., Pl. Bequaert. 4: 110 (1926) [basión.]
Lasersisia seretii (De Wild.) Liben in Bull. Jard. Bot. Natl. Belg. 61(1-2): 78 (1991). nom. inval.
- Synsepalum stipulatum** (Radlk.) Engl., Monogr. Afrik. Pflanzen.Fam. 8: 33 (1904)
Stironeurum stipulatum Radlk. in Ann. Mus. Congo Belge. Bot., Ser. 2, 1(1): 32 (1899)
[basión]
Pouteria stipulata (Radlk.) Baehni in Candollea 9: 278 (1942)
- Synsepalum subcordatum** De Wild., Repert. Spec. Nov. Regni Veg. 13: 377 (1914)
Pouteria subcordata (De Wild.) Baehni in Candollea 9: 279 (1942)
Richardella subcordata (De Wild.) Baehni in Boissiera 11: 98 (1965)
- Synsepalum zenkeri** Engl. ex Aubrév. & Pellegr. in Not. Syst., Paris, 16: 263 (1961)

Synsepalum incertae sedis:

Además de las especies mencionadas en este apartado, existen una serie de especies que no están en Guinea Ecuatorial pero sí en Camerún o en el cercano Gabón, y cuya afiliación al género *Synsepalum* está siendo estudiada en este momento, no habiendo sido publicadas todavía las respectivas combinaciones, aunque en algunas bases de datos aparecen como combinaciones inéditas; esas especies son del género *Pachystela* Pierre ex Radlk., *Pseudopachystela* Aubrév. & Pellegr., *Tulestea* Aubrév. & Pellegr. y *Vincentella* Pierre (Borg, 2019).

- Pseudopachystela oyemensis** Aubrév. & Pellegr., Not. Syst., Paris, 16: 277 (1961)
- Pachystela buluensis** (Greves) Aubrév. & Pellegr., Notul. Syst. (Paris) 16: 275 (1961)
Sersalisia buluensis Greves in J. Bot. 65 (Suppl. 2): 72 (1927) [basión.]
Pouteria buluensis (Greves) Baehni in Candollea 9: 417 (1942)
- Synsepalum brenanii** (Heine) T. D. Penn., Genera Sapotac.: 248 (1991)
Vincentella brenanii Heine, in Hooker's Icon. Pl. 37: t. 3630 (1967) [basión.]
- Tulestea tomentosa** Aubrév. & Pellegr., Not. Syst., Paris, 16: 267 (1961)
- Vincentella ogouensis** Aubrév. & Pellegr., Not. Syst., Paris, 16: 271 (1961)

12. Tieghemella Pierre

Árboles de gran tamaño. Hojas obovadas, con el extremo acuminado redondeado, sin estípulas. Cáliz formado por 2 verticilos de 4 sépalos cada uno. Corola de 8 lóbulos con 2 apéndices dorsales cada uno. Estaminodios presentes. Ovario con 8 lóculos. Frutos con 1-2 semillas.

Género africano que incluye dos especies, una de ellas presente en Guinea Ecuatorial. El género se diferencia de *Baillonella* por la nervadura de las hojas y por la presencia, en el caso de *Tieghemella*, de estípulas en las hojas. Los frutos contienen semillas con un aceite comestible, y son dispersados por elefantes. (Aubreville, 1961; Govaerts *et al*, 2001).

1. Tieghemella africana Pierre, Notes Bot. Sapot. 1: 18 (1890)

Mimusops africana (Pierre) Lecomte in Bull. Mus. Natl. Hist. Nat. sér.1 27: 108 (1921)

Baillonella africana (Pierre) Baehni in Boissiera 11: 121 (1965)

Dumoria africana (Pierre) Dubard in Ann. Inst. Bot.Géol. Colon. Marseille, sér. 3, 3: 41 (1915)

Lecomtedoxa vazii Dubard in Ann. Inst. Bot.Géol. Colon. Marseille, sér. 3, 3: 32 (1915)

Tieghemella jollyana Pierre in Ann. Inst. Bot.-Géol. Colon. Marseille 1(2): 2 (1893)

Tipo: Gabón. A. Lecompte 3604 (P)

Descripción: Aubréville (1961: 46)

Iconografía: Figura 44.

Árbol de bosque secundario; 0-800 m. África tropical central, desde Costa de Marfil hasta Camerún y R.D. Congo. Región Guineo-Congoliana (Provincia Alta Guinea, Provincia Nigero-Camerunesa, Provincia Congolesa). Río Muni.

Previamente citado en Río Muni, sin localidad precisa (Wilks & Issembé, 2000: 452) y Guinea Ecuatorial, sin localidad precisa (Guinea, 1946: 343). No hemos encontrado material de herbario que confirme las citas, aunque su área de distribución y requerimientos ecológicos hacen que su presencia sea muy probable.



Géneros de los que no hay constancia de su presencia en Guinea Ecuatorial, pero sí en zonas cercanas:

Breviea Aubrév. & Pellegr.

- Breviea sericea** Aubrév. & Pellegr. in Bull. Soc. Bot. France 81: 793 (1934)
Chrysophyllum sericeum A. Chev. in Mém. Soc. Bot. France 8: 269 (1917) nom. Illeg.
Pouteria leptosperma Baehni in Candollea 9: 388 (1942)
Chrysophyllum leptospermum (Baehni) Roberty in Bull. Inst. Franc. Afrique Noire 15: 1417 (1953)
Breviea leptosperma (Baehni) Heine in Kew Bull. 14: 302 (1960)

Gluema Aubrév. & Pellegr.

- Gluema ivorensis** Aubrév. & Pellegr. in Bull. Soc. Bot. France 81: 798 (1934)
Gluema korupensis Burgt in Kew Bull. 61(1): 79 (2006)

Mimusops L.

- Mimusops andongensis** Hiern. in Cat. Afr. Pl. 1: 646 (1898)
Mimusops warneckei Engl. in Monogr. Afrik. Pflanzen.-Fam. 8: 68 (1904)

Pouteria Aubl.

- Pouteria alnifolia** (Baker) Roberty in Bull. Inst. Franc. Afrique Noire 15: 1417 (1953)
Chrysophyllum alnifolium Baker in Oliv. (ed.), Fl. Trop. Afr. 3: 499 (1877) [basién.]
Malacantha alnifolia (Baker) Pierre, Notes Bot. Sapot. 61 (1891)
Pouteria alnifolia (Baker) Roberty var. *alnifolia*
Chrysophyllum ferrugineo-tomentosum Engl. in Bot. Jahrb. Syst. 28: 447 (1900)
Malacantha ferrugineo-tomentosa (Engl.) Engl., Monogr. Afrik. Pflanzen.Fam. 8: 48 (1904)
Malacantha heudelotiana Pierre, Notes Bot. Sapot. 61 (1891)
Malacantha warneckiana Engl., Monogr. Afrik. Pflanzen.Fam. 8: 48 (1904)
Malacantha obtusa C. H. Wright in Bull. Misc. Inform. Kew 58 (1908)
Malacantha centralis A. Chev. in Etudes Fl. Afr. Centr. Franc. 1: 182 (1913)
Malacantha acutifolia A. Chev., Expl. Bot. Afr. Occ. 1: 387 (1920)
Pouteria alnifolia var. *sacleuxii* (Lecomte) L. Gaut. J.P. Lebrun & A.L. Stork, Énum. Pl. Fleurs Afr. Trop., 4: 34 (1997)
- Pouteria altissima** (A. Chev.) Baehni in Candollea 9: 292 (1942).
Hormogyne altissima A. Chev. in Veg. Utiles Afrique Trop. Franc. 9: 263 ; (1917) [basién.]
Aningeria altissima (A. Chev.) Aubrév. & Pellegr. in Bull. Soc. Bot. France 81: 796 (1934)
Sideroxylon altissimum (A. Chev.) Hutch. & Dalziel
Pouteria giordanii Chiov. in Atti R. Accad. Ital., Mem. Cl. Sc. Fis. etc., xi. (Pl. Nov. Aethiop.) 43 (1940)
Hormogyne gabonensis A. Chev. in Veg. Utiles Afrique Trop. Franc. 9: 264 (1917)
Sideroxylon gabonense (A. Chev.) Lecomte ex Pellegr., Mem. Soc. Linn. Normand, n. s. Bot., i. Fasc. 3, 16 (1928)

Pradosia Liais

- Pradosia spinosa** Ewango & Breteler in Adansonia, sér. 3, 23(1): 149 (2001)

Tridesmostemon Engl.

Tridesmostemon congoense (Pierre ex A. Chev.) Aubrév. & Pellegr., Fl. Gabon 1: 85 (1961)
Chrysophyllum congoense Pierre ex A. Chev. in Veg. Utiles Afrique Trop. Franc. 9: 248 (1917)
[basi6n.]

Conocida en Gab6n.

Tridesmostemon omphalocarpoides Engl. in Bot. Jahrb. Syst. 38: 99 (1905)
Sideroxylon gossweileri Greves in J. Bot. 65, Suppl. 2: 71 (1927)

Vitellaria C.F. Gaertn.

Vitellaria paradoxa C. F. Gaertn., Suppl. Carp. 131 (1807)

Vitellaria paradoxa C. F. Gaertn. subsp. *Paradoxa*

Lucuma paradoxa (C. F. Gaertn.) A. DC. in DC., Prodr. 8: 173 (1844)

Butyrospermum mangifolium (Pierre ex A. Chev.) A. Chev. in Veg. Utiles Afrique Trop. Franc. 2: 35 (1907)

Butyrospermum paradoxum (C. F. Gaertn.) Hepper in Taxon 11: 227 (1962)

Heterotipicos

Mimusops capitata Baker in Bull. Misc. Inform. Kew 149 (1895)

Mimusops pachyclada Baker in Bull. Misc. Inform. Kew 149 (1895)

Butyrospermum paradoxum subsp. *parkii* (G. Don) Hepper

Butyrospermum parkii (G. Don) Kotschy Sitzungsber. in Acad. Wien, Math. -Nat. 1:

Bassia parkii G. Don Gen. Hist. 4: 36 (1837)

Butyrospermum parkii var. *floccosa* A. Chev.

Butyrospermum parkii var. *cuneata* A. Chev.

Butyrospermum parkii var. *ferruginea* A. Chev.

Butyrospermum parkii var. *mangifolium* Pierre ex A. Chev.

Butyrospermum parkii var. *poissoni* A. Chev.

Butyrospermum parkii var. *parvifolia* A. Chev.

Butyrospermum parkii var. *serotina* A. Chev.

Conclusiones



Conclusiones:

Tras presentar en los capítulos correspondientes los resultados del catálogo de *Sapotaceae* Juss. de Guinea Ecuatorial, con un análisis del estado de los géneros, y la *checklist* de Río Muni, con una discusión sobre los datos analizados en la misma, las conclusiones obtenidas son las siguientes:

Sobre la *checklist* de Río Muni:

- Se amplía la distribución conocida para 247 especies, gracias a las nuevas citas para Río Muni (75) y Guinea Ecuatorial (172).
- El estatus y categoría de las especies se basan en pocas recolecciones, por lo que su variación es muy sensible al aumento de colecciones.
- Este catálogo aumenta considerablemente las especies de la región con respecto a catálogos anteriores.
- El principal porcentaje de las especies del catálogo corresponde a taxones nativos, siendo el más bajo el de taxones introducidos.
- *Rubiaceae*, *Fabaceae*, *Orchidaceae*, *Poaceae*, *Euphorbiaceae*, *Apocynaceae*, *Cyperaceae*, *Annonaceae*, *Acanthaceae* y *Melastomataceae* comprenden aproximadamente la mitad de las especies de Río Muni, siendo *Rubiaceae* la más diversa con 294 especies.
- 11 especies se consideran estrictamente endémicas de Río Muni. El bajo número de endemismos se debe a la ausencia de barreras naturales en el territorio.
- El Parque Nacional Monte Alén es el Área Protegida más importante de Río Muni, ya que alberga la mitad de las citas de especies amenazadas.
- Las regiones protegidas de Río Campo y Montes Temelón no incluyen ninguna ocurrencia de especies amenazadas. Esto indica la necesidad de aumentar las colecciones y citas para desarrollar unas labores de conservación buenas y útiles.
- Se deben ampliar las regiones protegidas de Río Muni, para que incluyan las especies amenazadas y endémicas.

Sobre la familia *Sapotaceae*:

- Aunque en Guinea Ecuatorial podemos encontrar 26 especies de la familia *Sapotaceae*, organizados en 12 géneros, el incremento esperado tras próximas recolecciones es de un 41.6% para los géneros y de más de un 200% para las especies.
- Es necesario realizar expediciones para aumentar el número de colecciones, y poder confirmar así las citas que presentamos de Camerún, Gabón o Santo Tomé y Príncipe. Un ejemplo es *Autranella congolensis*, de la que solo conocemos citas sin pliego.
- Es necesario la realización de estudios moleculares para poder definir bien el género *Chrysophyllum*, *Manilkara* o *Synsepalum*.
- Ante la falta de consenso y de estudios moleculares concluyentes, se han incluido *Gambeya* en *Chrysophyllum*, y *Pseudopachystela*, *Pachystela*, *Tulestea* y *Vincentella* en *Synsepalum*.
- Las especies *Chrysophyllum boukokoënsis* y *Manilkara pellegriniana* no habían sido citadas anteriormente en Guinea Ecuatorial.

- El género *Chrysophyllum* supone el 34.6% de las especies de *Sapotaceae* de las que tenemos constancia en Guinea Ecuatorial, siendo el más amplio; sin embargo, si consideramos las especies que potencialmente estarían en Guinea Ecuatorial, *Synsepalum* es el género más amplio, suponiendo el 23% de las especies.

Además, la conclusión general y transversal tras la realización de este trabajo es que aunque aquí se presente un catálogo de las Sapotáceas y otro general de Río Muni, ambos van precedidos por la palabra *preliminar*, ya que el material y conocimiento existente es muy limitado, siendo por tanto necesario la recolección de abundante material.

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Anexos

Anexo 1

Checklist of the Vascular Plants of Río Muni (Equatorial Guinea)

Dataset of the paper: Floristic analyses of the checklist of the Vascular Plants of Río Muni (Equatorial Guinea), diversity, endemism and threatened status. *Anales del Jardín Botánico de Madrid* 80(1): e134

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PTERIDOPHYTES

ASPLENIACEAE

Asplenium aethiopicum (Burm.f.) Bech. in Candollea 6: 23 (1935)

VU Native

Paleotropics. Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Añisok, *Pérez Viso* 1361 (MA).

Previously reported from Centro Sur (Velayos *et al.* 2001: 149).

Asplenium africanum Desv. in Berlin. Mag. 5: 322 (1811)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobon and Bioko.

Centro Sur: Añisok, *Pérez Viso* 1375 (MA), 1378 (MA), 1381 (MA); Bisun, *Pérez Viso* 3423 (MA-728633); Monte Bata-Río Campo, *Pérez Viso* 2449 (MA-731339); Evinayong, *Guinea* 81 (MA-389181), 82 (MA-389182); Bata-Niefang, km. 40, *Pérez Viso* 2734bis (MA-732252); Mosumo, *Aedo & al.* 5113 (MA-638683); Niefang, Bindeng, *Pérez Viso* 2383 (MA-731336); P.N. Monte Alén, Asok, *Pérez Viso* 895 (MA); P.N. Monte Alén, Monte Chocolate, *Pérez Viso* 4044 (MA-731341); *Stévert* 919 (MA-735452), 927 (MA-735453); P.N. Monte Alén, Mosumu, *Pérez Viso* 628 (MA). Kie Ntem: Eloan, *Pérez Viso* 4298 (MA-728635); Ngomgom, *Barberá et al.* 66 (MA-831633). Litoral: Bata-Bome, *Carvalho* 5394 (MA-598454, MO); Bata-Kogo, km. 67,

Pérez Viso 1860 (MA-728630); Bata-Senye, *Carvalho 6475* (MA-620758); Corisco, *Pérez Viso 1915* (MA-731321); Ondoa, *Pérez Viso 3513* (MA-731288); Río Campo, a 14 km de San Joaquin de Adjiaikom, *Pérez Viso 2510* (MA-734399); Sendje 2° Kogo, km. 47, *Pérez Viso 2948* (MA-731342). Wele Nzas: Akok, *Pérez Viso 2022* (MA-731322); Añisok-Mongola, *Pérez Viso 3724* (MA-731337); Oveng Esandong, *Pérez Viso 3102* (MA-731343), *3103* (MA-731338).

Previously reported from Centro Sur (Guinea 1946: 143, 184i; Velayos *et al.* 2001: 149), Litoral (Velayos *et al.* 2001: 149) and Wele Nzas (Lejoly & Lisowski 1998: 176).

Asplenium anisophyllum Kunze in Linnaea 10: 511 (1836)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Evian [Ebiane], entre Aconibe y Acurenam, *Pérez Viso 1421* (MA-638706), *1426* (MA-638708), *1432* (MA-638710); P.N. Monte Alén, Engong, *Pérez Viso 2695* (MA-731331). Wele Nzas: explotación maderera de Añisok-Mongola, *Pérez Viso 3726* (MA-731348).

Previously reported from Centro Sur (Velayos *et al.* 2001: 150).

Asplenium barteri Hook., Sec. Cent. Ferns 2, tab. 75 (1861)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Mosumo, *Pérez Viso 1300* (MA), *Aedo & al. 5167* (MA-638672), *5168* (MA); P.N. Monte Alén, lago Atok, *Pérez Viso 1025* (MA); P.N. Monte Alén, Monte Chocolate, *Pérez Viso 4048* (MA-734899); P.N. Monte Alén, Esamalang, *Pérez Viso 1562* (MA-732268), *1573* (MA-728622), *3274* (MA-728625). Litoral: Bata-Senye (Senge)-Mitom-Emangës, *Carvalho 6478* (MA-620756). Wele Nzas: Eviam, *Pérez Viso 2626* (MA-734564); Akok, carretera Acurenam-Aconibe, *Pérez Viso 2028* (MA-731324).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 176), Litoral (Velayos *et al.* 2001: 150) and Wele Nzas (Lejoly & Lisowski 1998: 176).

Asplenium cancellatum Alston in Bol. Soc. Brot. ser. 2, 30: 8 (1956)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Bata-Monte Alén, río Oton Asok, *Carvalho 5327* (MA-598165, MO). Litoral: Sendje 2° Kogo, km. 47, *Pérez Viso 2924* (MA-731335). Wele Nzas: Nsum Esangüi, *Pérez Viso 3620* (MA-731332).

Previously reported from Centro Sur (Velayos *et al.* 2001: 150).

Asplenium carvalhoanum Herrero, Aedo, Velayos & Viane in Ann. Bot. Fenn. 38: 177 (2001)

NE* Endemic

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Litoral: Bata-Senye (Senge)-Mitom-Emangës, *Carvalho* 6417 (MA-620514, MO-5600922).

*This species is known from a single locality, and has never been collected since the original materials, thus it could be considered as CR based on the criteria A2 and C2a(ii) (less than 250 mature individuals) and 90-100% of individuals in a single population or D (less than 50 mature individuals).

Previously reported from Litoral (Velayos *et al.* 2001: 150).

Asplenium dregeanum Kunze in Linnaea 10: 517 (1836)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, *Lejoly* 99/047 (MA-621779); P.N. Monte Alén, Engong, *Velayos & al.* 9510 (MA-638772). Wele Nzas: Akok, Acurenam-Aconibe, *Pérez Viso* 2025 (MA-732313), 2027 (MA-731323).

Previously reported from Centro Sur (*Lejoly & Lisowski* 1998: 176; *Velayos et al.* 2001: 150-151).

Asplenium emarginatum P.Beauv., Fl. Oware 2: 6, tab. 61 (1807)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Bome, *Carvalho* 5494 (MA-599381, MO-5600917, WAG).

Previously reported from Litoral (Velayos *et al.* 2001: 151).

Asplenium hemitomum Hieron. in Bot. Jahrb. Syst. 46: 365 (1911)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, *Velayos & al.* 9556 (MA-638783). Litoral: Bata-Bicomo, *Carvalho* 5207 (MA-598157, MO, WAG). Wele Nzas: Añisok-Mongola, *Pérez Viso* 1476 (MA-638494); Eviam, *Pérez Viso* 2636 (MA-734560).

Previously reported from Centro Sur and Litoral (Velayos *et al.* 2001: 151).

Asplenium jaundeense Hieron. in Bot. Jahrb. Syst. 46: 369 (1911)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bikurga, *Stévant 1488* (MA-735459).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 118 and 176).

Asplenium laurentii J.Bommer ex C.Chr. in Bull. Herb. Boiss. 4: 663 (1896)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Oyac Esom, *Pérez Viso 3455* (MA-728634).

Previously reported from Centro Sur (Velayos *et al.* 2008: 32).

Asplenium longicauda Hook., Sec. Cent. Ferns, tab. 69 (1861)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Guinea 1946: 225). We have not found any herbarium specimen supporting this record, the distribution range of the species makes its presence in Equatorial Guinea reliable.

Asplenium macrophlebium Baker in Hook. & Baker, Syn. Fil. ed. 2: 485 (1874)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Engong, *Velayos & al. 9500* (MA-638771), *9511* (MA-638773); *Pérez Viso 2656* (MA-731333), *2700* (MA-731334); P.N. Monte Alén, Enkumekien, *Pérez Viso 1577* (MA-731326).

Previously reported from Centro Sur (Velayos *et al.* 2001: 152).

Asplenium paucijugum F.Ballard in Hooker's Icon. Pl. ser. 5, 33, tab. 3287 (1935)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Centro Sur: Evinayong, *Guinea 80* (MA-389183); Monte Alén, *Velayos & Pérez Viso 9293* (MA-638792).

Previously reported from Centro Sur (Guinea 1946: 225; Velayos *et al.* 2001: 152).

Asplenium sandersonii Hook., Sp. Fil. 3: 147, tab. 179 (1860)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Evinayong, *Guinea* 1237 (MA-389179); Monte Alén, *Velayos & Pérez Viso* 9275 (MA-638790); P.N. Monte Alén, Enkumekien, *Pérez Viso* 1542 (MA-728620), 1582 (MA-728623); *Pérez Viso* 4094 (MA-734394); P.N. Monte Alén, lago Atok, *Pérez Viso* 1024 (MA), 1038 (MA). Kie Ntem: Ngomgom, *Barberá & al.* 96 (MA-831494).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 176; Velayos *et al.* 2001: 152).

Asplenium theciferum (Kunth) Mett. in Ann. Sci. Nat., Bot., ser. 5, 2: 227 (1864)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region. Also known from Bioko.

Litoral: Bata-Senye, a 5 kms de Emangós hacia Cogo, *Carvalho* 6458 (MA-620833).

Previously reported from Litoral (Velayos *et al.* 2001: 153).

Asplenium variabile Hook., Sp. Fil. 3: 93, tab. 185 (1860)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Centro Sur: Miyobo, *Pérez Viso* 2537 (MA-728627); Mosumo, cataratas del Laña, *Aedo & al.* 5154 (MA-638673); P.N. Monte Alén, lago Atok, *Pérez Viso* 1088 (MA), 34 (MA-690397); P.N. Monte Alén, Mosumu, *Pérez Viso* 1282 (MA-638693); P.N. Monte Alén, *Pérez Viso* 1340 (MA).

Previously reported Centro Sur (Lejoly & Lisowski 1998: 177; Velayos *et al.* 2001: 153) and Wele Nzas (Lejoly & Lisowski 1998: 177).

ATHYRIACEAE

Athyrium ammifolium (Mett. ex Kuhn) C.Chr., Index Filic.: 139 (1905)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Esamalang, *Pérez Viso* 3261 (MA-735283).

Not previously reported from Río Muni.

Diplazium proliferum (Lam.) Kaulf., Enum. Filic.: 182 (1824)

NE Native

Tropical & Subtropical Old World. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Previously reported from Río Muni (Guinea 1946: 224). We have not found any herbarium specimen supporting this record, the distribution range of the species makes its presence in Equatorial Guinea reliable.

Diplazium sammatii (Kuhn) C.Chr., Index Filic.: 238 (1905)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Kie Ntem: Ebon Oyac, Ebebiyin, *Pérez Viso* 4328 (MA-734703). Litoral: Bata-praderas de Bome, *Carvalho* 5921 (MA-609909). Wele Nzaz: Nnvam Oveng, Añisok, *Pérez Viso* 3014 (MA-734694).

Previously reported from Litoral (Velayos *et al.* 2001: 157).

Diplazium welwitschii (Hook.) Diels in Engl. & Prantl (eds.), Nat. Pflanzenfam. 1(4): 226 (1899)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Centro Sur: Bata-Monte Alén, *Carvalho* 5323 (MA-598168, MO); Evinayong, *Guinea* 76 (MA-386685); Nfing Ntagan, *Pérez Viso* 2765 (MA-734556); Niefang, *Pérez Viso* 2247 (MA-734852); P.N. Monte Alén, Engong, *Velayos & al.* 9483 (MA-638762); P.N. Monte Alén, Misergue-río Laña, *Pérez Viso* 3245 (MA-735159). Wele Nzaz: Alum, entre Mikomeseng y Nkue, *Pérez Viso* 3039 (MA-734854); Eviam, *Pérez Viso* 2615 (MA-734566).

Previously reported from Centro Sur (Velayos *et al.* 2001: 157) and from the continental region, without any specific locality (Lejoly & Lisowski 1998: 177).

CYATHEACEAE

Cyathea camerooniana Hook. in Hook. & Baker, Syn. Fil.: 21 (1865)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Bata-Niefang-Monte Alén, *Carvalho* 5356 (MA-598275, MO); Evinayong, *Guinea* 54 (MA-386665), 57 (MA-386682), 245 (MA-213436); Mafanebú, *Guinea* 55 (MA-386664), 192 (MA-386684), 193 (MA-386683); Monte Alén, *Velayos & Pérez Viso* 9265 (MA-638785); P.N. Monte Alén, Engong, *Velayos & al.* 9492 (MA-638768); P.N. Monte Alén, Enkumekien, *Pérez Viso* 1571 (MA-732269); P.N. Monte Alén, *Pérez Viso* 749 (MA), 3231 (MA-735288). Litoral: Bata-Mongo (Alosa), *Carvalho* 5502 (MA-598764, MO); Bata-Niefang, *Carvalho* 5890 (MA-599786, MO-5600916). Wele Nzas: Eviam, Aconibe-Acurenem, *Pérez Viso* 1754 (MA); Eviam-Aconibe, *Pérez Viso* 2083 (MA-748380); Mofú, *Pérez Viso* 2098 (MA-715774), 2126 (MA).

Previously reported from Centro Sur (*Velayos et al.* 2001: 153-154), Wele Nzas (*Lejoly & Lisowski* 1998: 177; *Velayos et al.* 2001: 153-154) and from Río Muni, without any specific locality (*Holttum* 1981: 481).

Cyathea manniana Hook. in Hook. & Baker, *Syn. Fil.*: 21 (1865)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: P.N. Monte Alén, Engong, *Velayos & al.* 9480 (MA-638764). Wele Nzas: Abama, *Nsork, Obama & Lejoly* 579 (BATA).

Previously reported from Centro Sur (*Lejoly & Lisowski* 1998: 177; *Velayos et al.* 2001: 154) and Wele Nzas (1998: 177).

Cyathea obtusiloba (Hook.) Domin, *Pteridophyta*: 263 (1929)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Monte Chime, *Guinea* 53 (MA-386666).

Previously reported from Centro Sur (*Alston* 1956: 12; *Velayos et al.* 2001: 154).

DAVALLIACEAE

Davallia denticulata (Burm.f.) Mett. ex Kuhn, *Filic. Decken.*: 27 (1867)

NE Native

Tropical Africa, Tropical Asia, and Australia. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobon and Bioko.

Centro Sur: Añisok, *Pérez Viso* 1362 (MA); Bata-Niefang, *Carvalho* 5759 (MA-599108, MO-5768078, WAG). Litoral: entre Bata e Asonga, *Carvalho* 4872 (MA-597390, MO-5600918).

Previously reported from Centro Sur and Litoral (*Velayos et al.* 2001: 154, 154-155).

Davallia repens (L.f.) Kuhn, Filic. Decken.: 27 (1867)

NE Native

Tropical & Subtropical Old World. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Madagascan Region.

Litoral: Bata-Senye (Senge)-Mitom-Emangës, *Carvalho* 6462 (MA-620861).

Previously reported from Litoral (*Velayos et al.* 2001: 155).

DENNSTAEDTIACEAE

Blotiella currorii (Hook.) R.M. Tryon in Contr. Gray Herb. 191: 99 (1962)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Centro Sur: Añisok-Mongola, *Pérez Viso* 1492 (MA); Bata-Niefang-Monte Alén, *Carvalho* 5352 (MA-598280, MO, WAG); Evinayong, *Guinea* 85 (MA-227858), 87 (MA-389175); P.N. Monte Alén, Bong, *Pérez Viso* 1320 (MA); P.N. Monte Alén, Engong, *Velayos & al.* 9498 (MA-638770); P.N. Monte Alén, Esamalang, *Pérez Viso* 3264 (MA-734402); P.N. Monte Alén, lago Atok, *Pérez Viso* 1026, 1063 (MA); P.N. Monte Alén, lago Atok, *Pérez Viso* 1085 (MA-638697); P.N. Monte Alén, Santa Cruz., *Pérez Viso* 1208 (MA). Litoral: Bata-Niefang, *Carvalho* 5870 (MA-609859, MO-5768083, WAG), 5879 (MA-609863, MO-5768086, WAG).

Previously reported from Centro Sur (Guinea 1946: 184i; *Velayos et al.* 2001: 155) and from Río Muni, without any precise locality (Guinea 1946: 226; Lejoly & Lisowski 1998: 178).

Blotiella mannii (Baker) Pic.Serm. in Webbia 31: 250 (1977)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Bisum, *Pérez Viso* 3404 (MA-748378). Kie Ntem: Ebon-Oyac, Ebebiyin, *Pérez Viso* 4312 (MA-747333, MO-6074537); Nsoc Nsomo, *Cabezas et al.* 1273 (MA-831863). Wele Nzaz: Alum, entre Mikomeseng y Nkue, *Pérez Viso* 3037 (MA-747332, MO-6074596, MO-6074597).

Previously reported from Centro Sur (*Velayos et al.* 2001: 155).

Blotiella tisserantii (Alston & Tardieu ex Tardieu) Pic.Serm. in Webbia 37: 132 (1983)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Wele Nzaz: Añisok, Nsuaemyong *Lisowski* M-690 (BATA).

Previously reported from Wele Nzaz (Lejoly & Lisowski 1998: 178).

Histiopteris incisa (Thunb.) J.Sm., Hist. Fil.: 295 (1875)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Centro Sur: Evinayong, *Guinea* 88 (MA-386652), 89 (MA-386657); P.N. Monte Alén, *Pérez Viso* 3258 (MA-735285). Wele Nzas: Eviam-Aconibe, *Pérez Viso* 2069 (MA-732597).

Previously reported from Centro Sur (Guinea 1946: 225-226; Velayos *et al.* 2001: 155).

Microlepia speluncae (L.) T.Moore, Index Fil. (T.Moore): 93 (1857)

NE Native

Pantropical and Pansubtropical. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Bisun, *Pérez Viso* 3401 (MA-734397); Niefang, Bindeng, *Pérez Viso* 2378 (MA-734855); P.N. Monte Alén, Engong, *Pérez Viso* 2697 (MA-748567). Wele Nzas: Abama, *Obama & Lejoly* 587 (MA-612200); Mofú, *Pérez Viso* 2136 (MA-732576).

Previously reported from Centro Sur (Velayos *et al.* 2001: 156) and Wele Nzas (Lejoly & Lisowski 1998: 177; 1999: 119).

Pteridium aquilinum (L.) Kuhn in Asch., Bot. Ost-Afrika: 11 (1879) subsp. **aquilinum**

LC Native

Old World. Africa. Also known from Bioko.

Centro Sur: Bata-Niefang, *Pérez Viso* 2737 (MA-734876). Litoral: Bata-Bome, *Fero & Barberá* 323 (MA-844564); Bata-Praderas de Bome, *Carvalho* 5918 (MA-609905); Corisco, Endote, *Pérez Viso* 1937 (MA-748566).

Previously reported from Centro Sur (Guinea 1946: 216d; Velayos *et al.* 2001: 156), Kie Ntem (Guinea 1946: 184j), Litoral (Lejoly & Lisowski 1998: 179; Velayos *et al.* 2001: 156) and from Río Muni without any precise locality (Guinea 1946: 86).

DRYOPTERIDACEAE

Bolbitis acrostichoides (Afzel. ex Sw.) Ching in C.Ch., Index Filic., Suppl. 3: 47 (1934)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Mosumo, *Aedo & al.* 5149, 5150 (MA-638674). Litoral: Bata-Niefang,

Carvalho 5821 (MA-610049, MO-5599656, WAG). Wele Nzas: Mofú, *Pérez Viso 2127* (MA-699466).

Previously reported from Centro Sur (Velayos *et al.* 2001: 164).

Bolbitis auriculata (Lam.) Alston in J. Bot. 72, Suppl. 1: 3 (1934)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Esamalang, *Pérez Viso 3271* (MA-735155, MO-6074584). Litoral: Bata-Niefang, *Carvalho 5782* (MA-610067). Wele Nzas: Ebo-Ngoo Nsomo, *Pérez Viso 3190bis* (MA-735289).

Previously reported Centro Sur (Velayos *et al.* 2001: 164) and Wele Nzas (Guinea 1946: 226; Lejoly & Lisowski 1998: 179).

Bolbitis fluviatilis (Hook.) Ching in C.Chr., Index Filic., Suppl. 3: 48 (1934)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Mosumo, *Aedo & al. 5119* (MA-638681); P.N. Monte Alén: río Bong, *Rial 78* (MA-638518). Litoral: Bata-Niefang, *Carvalho 5784* (MA-610061), *5807* (MA-610017, MO-5599651); Bata-Senye (Senge)-Mitom-Emangës, *Carvalho 6457* (MA-620832, MO-5599652). Wele Nzas: Bimbile, *Guinea 91-855* (MA-389206).

Previously reported from Centro Sur, Litoral and Wele Nzas (Velayos *et al.* 2001: 164).

Bolbitis gaboonensis (Hook.) Alston in J. Bot. 72(Suppl. 2): 3 (1934)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: Añisoc, Temelón, *Lisowski M-635* (BATA).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 179).

Bolbitis gemmifera (Hieron.) C.Chr., Index Filic. Suppl. 3: 48 (1934)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Kie Ntem: Eloan, *Pérez Viso 4290* (MA-747337).

Previously reported from Kie Ntem (Velayos *et al.* 2008: 76).

Ctenitis lanuginosa (Willd. ex Kaulf.) Copel. in Ann. Cryptog. Phytopathol. 5: 124

(1947)

NE Native

Native to Tropical & S. Africa, W. Indian Ocean. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Centro Sur: Bindung, *Pérez Viso 3794bis* (MA-735290).

Previously reported from Centro Sur (Velayos *et al.* 2008: 50).

Dryopteris manniana (Hook.) C.Chr., Index Filic.: 27 (1905)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Centro Sur: P.N. Monte Alén, Engong, *Pérez Viso 841* (MA-638703).

Previously reported from Centro Sur (Velayos *et al.* 2001: 157).

Dryopteris squamiseta (Hook.) Kuntze, Revis. Gen. Pl. 2: 813 (1891)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Centro Sur: Miyobo, carretera Niefang-Mosumu, *Pérez Viso 2535* (MA-735295).

Previously reported from Centro Sur (Velayos *et al.* 2008: 54).

Elaphoglossum barteri (Baker) C.Chr., Index Filic.: 303 (1905)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Litoral: Bata-Senye (Senge)-Mitom-Emangës, *Carvalho 6498* (MA-620704, P).

Previously reported from Litoral (Velayos *et al.* 2001: 165).

Elaphoglossum isabelense Brause in Bot. Jahrb. Syst. 53: 432 (1915)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Esamalang, *Pérez Viso 3265* (MA-735281).

Previously reported from Centro Sur (Velayos *et al.* 2008: 79).

Lastreopsis barteriana (Hook.) Tardieu in Notul. Syst. (Paris) 14: 343 (1952)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Niefang, *Carvalho* 5780 (MA-610064).

Previously reported from Centro Sur (Velayos *et al.* 2001: 158).

Lastreopsis currorii (Mett. ex Kuhn) Tindale in Victoria Naturalist 73: 184 (1957)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Centro Sur: Evinayong, *Guinea* 62 (MA-389207), 65 (MA-186708), 308 (MA-389208), 479 (MA-389209); Monte Bata-Río Campo, *Pérez Viso* 2456 (MA-734757); Niefang, *Pérez Viso* 2246 (MA-732578). Wele Nzas: Temelon, Añisok, *Pérez Viso* 4128 (MA-735148).

Previously reported from Centro Sur (Velayos *et al.* 2001: 158).

Lastreopsis vogelii (Hook.) Tindale in Contr. New South Wales Natl. Herb. 3: 245 (1963)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Enkumenkien, *Pérez Viso* 1498 (MA-735166), 1549 (MA-732267); P.N. Monte Alén, lago Atok, *Pérez Viso* 1031a (MA-735165). Kie Ntem: Ebon Oyac, Ebebiyin, *Pérez Viso* 4313 (MA-734704). Litoral: Bata-Niefang, *Carvalho* 5774 (MA-599095); Río Campo, *Pérez Viso* 2498 (MA-734756). Wele Nzas: Akok, carretera Acurenam-Aconibe, *Pérez Viso* 2006 (MA-748704); Ebo-Ngoo Nsomo, *Pérez Viso* 3187bis (MA-735293); Eviam, *Pérez Viso* 2612 (MA-734567); Eviam, Matroguisa, *Pérez Viso* 1779 (MA-643167); Ncoho Yenguem, *Pérez Viso* 3706 (MA-735088); Nsung Fandong, *Pérez Viso* 3137 (MA-735095); Nvua Nnvam Oveng, Añisok, *Pérez Viso* 3008 (MA-734693).

Previously reported from Centro Sur (Velayos *et al.* 2001: 158).

GLEICHENIACEAE

Dicranopteris linearis (Burm.f.) Underw. in Bull. Torrey Bot. Club 34: 250 (1907)

LC Native

Tropical & Subtropical Old World. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: P.N. Monte Alén, Misergue, *Pérez Viso* 1162 (MA); P.N. Monte Alén, Mosumu, *Pérez Viso* 648 (MA-638526). Litoral: Bata-Niefang, *Carvalho* 4591 (MA-555944, MO-5774258, WAG); Bata-Senye (Senge)-Mitom-Emangës, *Carvalho* 6497 (MA-620705); Miboman, *Castroviejo* 9169 (MA-715777). Wele Nzas: Mofú, *Pérez Viso* 2102 (MA).

Previously reported from Centro Sur (Guinea 1946: 184i; Fernández Casas 1992: 37; Velayos *et al.* 2001: 160-161), Litoral (Lejoly & Lisowski 1998: 178; Velayos *et al.* 2001: 160-161) and from Río Muni, without any precise locality (Guinea 1946: 227).

HYMENOPHYLLACEAE

Abrodictyum guineense (Afzel. ex Sw.) J.P.Roux in *Strelitzia* 23: 37 (2009)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Litoral: Bata-Monson-Dibolo, *Carvalho* 4824 (MA-597746, MO).

Previously reported from Litoral (Guinea 1946: 156; Velayos *et al.* 2001: 163).

Abrodictyum rigidum (Sw.) Ebihara & Dubuisson in *Blumea* 51(2): 243 (2006)

NE Native

Tropical America and Tropical Africa and Madagascar. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Monte Alén, *Velayos & Pérez Viso* 9268 (MA-638786); P.N. Monte Alén, Engong, *Velayos & al.* 9515 (MA-638775); P.N. Monte Alén, Esamalang, *Pérez Viso* 3302 (MA-747329); P.N. Monte Alén, *Velayos & al.* 9550 (MA-638782); P.N. Monte Alén, Engong, *Stévant* 984 (MA-735455).

Previously reported from Centro Sur (Velayos *et al.* 2001: 164).

Crepidomanes africanum (Christ) Ebihara & Dubuisson in *Blumea* 51(2): 238 (2006)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sahelian Province, Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Previously reported from Centro Sur (Velayos *et al.* 2001: 162) based in *Guinea* 515 (MA 634133), a misidentification with *C. melanotrichum*. We have not found any herbarium specimen supporting this record, the distribution range of the species makes its presence in the country reliable.

Crepidomanes mannii (Hook.) J.P.Roux in *Bothalia* 30: 155 (2000)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanien Province, Zambezian Province);

Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Wele Nzas: Akok, carretera Acurenam-Aconibe, *Pérez Viso 2034* (MA).

Previously reported from Centro Sur (Velayos *et al.* 2001: 163).

Crepidomanes melanotrichum (Schltdl.) J.P.Roux, *Consp. of S. Afr. Pteridophyta* 46 (2001)

NE Native

Native to Tropical and S. Africa and Madagascar. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Evinayong, *Guinea 515* (MA-386647, 634133); Mosumo, cataratas del Laña, *Aedo & al. 5157* (MA-638677), *5158* (MA); P.N. Monte Alén, cabaña del Lago, *Velayos & al. 9521* (MA-638777). Litoral: Bata-Senye (Senge)-Mitom-Emangës, *Carvalho 6461* (MA-620862).

Previously reported from Centro Sur (Velayos *et al.* 2001: 163), Litoral (Velayos *et al.* 2001: 163).

Crepidomanes mettenii (C.Chr.) Ebihara & Dubuisson in *Blumea* 51(2): 238 (2006)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Litoral: Sendje, *Pérez Viso 3384* (MA-747328).

Previously reported from Litoral (Velayos *et al.* 2008: 73).

Didymoglossum ballardianum (Alston) J.P.Roux in *Strelitzia* 23: 41 (2009)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Eviam, *Pérez Viso 2627* (MA-734563). Litoral: Sendje, *Pérez Viso 2977* (MA-747326). Wele Nzas: Mofú, *Pérez Viso 2117* (MA-714592).

Previously reported from Centro Sur (Velayos *et al.* 2001: 162) and Litoral (Lejoly & Lisowski 1998: 178).

Didymoglossum erosum (Willd.) J.P.Roux in *Strelitzia* 22: 212 (2008)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region.

Also known from Bioko.

Centro Sur: Añisok, *Pérez Viso* 1390 (MA-638611); Enkumekie, *Pérez Viso* 4100 (MA-748361), 4101 (MA-748362), 4102 (MA-748363); Evian, Aconibe-Acurenam, *Pérez Viso* 1433 (MA); Miyobo, *Pérez Viso* 2536 (MA-748368), 2540 (MA-748369), 2562 (MA-748353); Mosumo, cataratas del Laña, *Aedo & al.* 5155 (MA-638678), 5156 (MA); Nfing Ntagan, *Pérez Viso* 2757 (MA-715784), 2763 (MA-734555); P.N. Monte Alén, Engong, *Velayos & al.* 9513 (MA-638774), *Pérez Viso* 2653 (MA-748358); P.N. Monte Alén, Esamalang, *Pérez Viso* 1567 (MA-748375), 3268 (MA-748371); P.N. Monte Alén, *Velayos & al.* 9525 (MA-638778), 9533 (MA-638779), 9534 (MA-638780); P.N. Monte Alén, Monte Chocolate, *Pérez Viso* 4051 (MA-748349), 4059 (MA-748350). Litoral: Bata-Kogo, *Pérez Viso* 1858 (MA-748366); Bata-Senye (Senge)-Mitom-Emangës, *Carvalho* 6464 (MA), 6523 (MA-620926); Corisco, Endote, *Pérez Viso* 1965 (MA-748360); Enigayong, *Pérez Viso* 3876 (MA-748370); Kogo, *Pérez Viso* 3984 (MA-748359); Sendje 2°, *Pérez Viso* 2949 (MA-748356); Sendje, *Pérez Viso* 2971 (MA-748707), 2972 (MA-748355), 2982 (MA-748354), 3375 (MA-748365), 3391 (MA-748364). Wele Nzaz: Akok, Acurenam-Aconibe, *Pérez Viso* 2042 (MA-747325); Eviam, *Pérez Viso* 2630 (MA-734561).

Previously reported from Centro Sur (*Velayos et al.* 2001: 163) and Litoral (*Velayos et al.* 2001: 163).

Didymoglossum liberiense (Copel.) Copel. in Philipp. J. Sci. 67(1): 78 (1938)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Annobón.

Centro Sur: Ebalowa, *Pérez Viso* 1711 (MA); Eviam, Matroguisa, *Pérez Viso* 1782 (MA). Litoral: Ondo, *Pérez Viso* 3803 (MA-747327); Sendje 2°, *Pérez Viso* 2931 (MA-748357).

Previously reported from Centro Sur (*Velayos et al.* 2001: 163).

Hymenophyllum hirsutum (L.) Sw. in J. Bot. (Schrader) 1800(2): 99 (1801)

NE Native

Native to Tropical America and Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Mosumo, *Aedo & al.* 5126 (MA-638680); P.N. Monte Alén, *Pérez Viso* 1339 (MA).

Previously reported Centro Sur (*Velayos et al.* 2001: 161).

Hymenophyllum kuhnii C.Chr., Index Filic.: 363 (1905)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province,

Congolian Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Añisok, *Pérez Viso 1388* (MA); P.N. Monte Alén, Engong, *Pérez Viso 2707bis* (MA-747268).

Previously reported from Centro Sur (Velayos *et al.* 2001: 162).

Hymenophyllum triangulare Baker in Hook. & Baker, Syn. Fil.: 69 (1867)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Engong, *Pérez Viso 2707* (MA-747267).

Not previously reported from Río Muni.

Polyphlebium borbonicum (Bosch) Ebihara & Dubuisson in Blumea 51(2): 240 (2006)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Centro Sur: P.N. Monte Alén, Enkumekien, *Pérez Viso 1575* (MA-748374), 1576 (MA-748373), 3289 (MA-748372). Litoral: Bata-Kogo, *Pérez Viso 1854* (MA-715781). Wele Nzas: Eviam, Matroguisa, *Pérez Viso 1789* (MA-643156).

Previously reported from Centro Sur (Velayos *et al.* 2001: 162).

Trichomanes crispiforme Alston in Exell, Cat. Vasc. Pl. S. Tome: 57 (1944)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón.

Centro Sur: P.N. Monte Alén, Engong, *Stévert 1441* (MA-735457). Litoral: Bata-Senye (Senge)-Mitom-Emangës, *Carvalho 6495* (MA-620707).

Previously reported from Litoral (Velayos *et al.* 2001: 163).

LONCHITIDACEAE

Lonchitis occidentalis Baker in Hook. & Baker, Syn. Fil.: 128 (1867)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Centro Sur: P.N. Monte Alén, Esamalang, *Pérez Viso 1182* (MA-638593).

Previously reported from Centro Sur (Velayos *et al.* 2001: 156), Wele Nzas (Guinea 1946: 232b) and from Río Muni, without any specific locality (Guinea 1946: 226).

LOMARIOPSIDACEAE

Lomariopsis guineensis (Underw.) Alston in J. Bot. 72, Suppl. 3: 5 (1934)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, *Pérez Viso* 3235 (MA-735287). Wele Nzas: Mofú, *Pérez Viso* 2122 (MA).

Previously reported from Litoral (Lejoly & Lisowski 1998: 179) and Wele Nzas (Velayos *et al.* 2001: 166).

Lomariopsis hederacea Alston in J. Bot. 72, Suppl. 2: 5 (1934)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Bata-Monte Alén, *Carvalho* 5461 (MA-610083, MO); Evinayong, *Guinea* 75 (MA-634131). Litoral: Bata-Niefang, *Carvalho* 5817 (MA-610045).

Previously reported Centro Sur (Guinea 1946: 224; Velayos *et al.* 2001: 166).

Lomariopsis mannii (Underw.) Alston in J. Bot. 72, Suppl. 2: 6 (1934)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, *Pérez Viso* 1347 (MA-638599, P).

Previously reported Centro Sur (Velayos *et al.* 2001: 166).

Lomariopsis muriculata Holttum in Bull. Misc. Inform. Kew 1939: 625 fig. 10 (1940)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Wele Nzas: Nkolentangan, *Tessmann* 300 (K).

Previously reported from Wele Nzas (Velayos *et al.* 2001: 166).

Lomariopsis rossii Holttum in Bull. Misc. Inform. Kew 1939: 625 fig. 11-12 (1940)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Bata-Monte Alén, *Carvalho* 5492 (MA-599378, MO). Litoral: Río Campo, *Pérez Viso* 2515 (MA-735158).

Previously reported from Centro Sur (Velayos *et al.* 2001: 166).

Lomariopsis warneckei (Hieron.) Alston in J. Bot. 72, Suppl. 2: 6 (1934)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, *Pérez Viso* 1605 (MA-638704). Litoral: Bata-Bome, *Carvalho* 5277 (MA-598103, MO).

Previously reported from Centro Sur and Litoral (Velayos *et al.* 2001: 166).

LYCOPODIACEAE

Huperzia ophioglossoides (Lam.) Rothm. in Feddes Repert. 54: 62 (1944)

NE Native

Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Cape Region; Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Enkumekie, Niefang-Evinayong, *Pérez Viso* 4069 (MA-691123).

Previously reported from Centro Sur (Velayos *et al.* 2008: 160).

Huperzia phlegmaria (L.) Rothm. in Feddes Repert. 54: 62 (1944)

NE Native

Native to Tropical & Subtropical Old World. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Senye, *Carvalho* 5026 (MA-599217, MO).

Previously reported from Litoral (Velayos *et al.* 2001: 167).

Lycopodiella affinis (Bory) Pic.Serm. in Webbia 23: 165 (1968)

NE Native

Native to Tropical Africa and Madagascar. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Cape Region; Madagascan Region.

Litoral: Bata-Pembe, *Carvalho* 4960 (MA-599212, MO); Bata-Praderas de Bome, *Carvalho* 5858 (MA-609970); Etembue, *Guinea* 945 (MA-385254, 386660); *Del Val s.n.* (MA-726966, 726967, 726968).

Previously reported from Litoral (Lejoly & Lisowski 1998: 179; Velayos *et al.* 2001: 167).

Lycopodiella cernua (L.) Pic.Serm. in Webbia 23: 166 (1968)

NE Native

Native to the Tropics & Subtropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Añisok-Mongola, *Pérez Viso* 1483 (MA); Bindung, *Pérez Viso* 3773 (MA-726971); Mosumo, *Aedo & al.* 5106 (MA-638688); P.N. Monte Alén, Esamalang, *Pérez Viso* 3295 (MA-726762); P.N. Monte Alén, Misergue, *Pérez Viso* 1153 (MA); P.N. Monte Alén, Mosumu, *Pérez Viso* 624 (MA-638701); P.N. Monte Alén, Mosumu, *Pérez Viso* 643 (MA-726972). Kie Ntem: Akam, *Fero & Esono* 106 (MA-808738). Litoral: Bata-río Utonde, *Carvalho* 4910 (MA-597519, MO); Mbini-Bata, *Fero & al.* 292 (MA-844595); desembocadura del río Campo, *Pérez Viso* 2166 (MA); Ondo, *Pérez Viso* 3509 (MA-726970). Wele Nzas: Akok, *Acurenam-Aconibe*, *Pérez Viso* 2066 (MA-726965).

Previously reported from Centro Sur (Guinea 1946: 184i; Velayos *et al.* 2001: 167), Litoral (Lejoly & Lisowski 1998: 179; Velayos *et al.* 2001: 167), Wele Nzas (Lejoly & Lisowski 1998: 179; 1999: 119) and from Río Muni, without any precise locality (Guinea 1946: 228).

LYGODIACEAE

Lygodium microphyllum (Cav.) R.Br., Prodr. 1: 162 (1810)

NE Native

Native to Tropical & Subtropical Old World. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region.

Litoral: Bata, Asonga-Aeroporto, *Carvalho* 4636 (MA-597324, MO); Bome, *Pérez Viso* 1743 (MA); Río Benito, *Guinea* 922 (MA-386659), 925 (MA-213940). Wele Nzas: Alum, Mikomeseng-Nkue, *Pérez Viso* 3036 (MA-747317).

Previously reported from Litoral (Lejoly & Lisowski 1998: 181; Velayos *et al.* 2001: 176), and from Río Muni, without any precise locality (Velayos *et al.* 2001: 176).

Lygodium smithianum C.Presl ex Kuhn, Filic. Afr.: 169 (1868)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Añisok-Mongola, *Pérez Viso* 1477 (MA); Bindung, *Pérez Viso* 3772 (MA-

748706); Evinayong, *Guinea 500* (MA-386653); Mosumo, *Aedo & al. 5103* (MA-638689); P.N. Monte Alén, Misergue, *Pérez Viso 1158* (MA), 3238 (MA-748712). Kie Ntem: Ebon-Oyac, Ebebiyin, *Pérez Viso 4321* (MA-747318). Litoral: Bata-Monson, *Carvalho 4786* (MA-597929, MO); Enigayong, *Pérez Viso 3857* (MA-748709); Masamabe, *Pérez Viso 3901* (MA-748710). Wele Nzaz: Nvua-Nnvam Oveng, Añisok, *Pérez Viso 2997* (MA-748708); pista forestal, entre Eviam y Aconibe, *Pérez Viso 2068* (MA-748711); Temelon, Añisok, *Pérez Viso 4127* (MA-748701).

Previously reported from Centro Sur (Guinea 1946: 184i; Velayos *et al.* 2001: 176), Kie Ntem (Guinea 1946: 184j), Litoral (Lejoly & Lisowski 1998: 181) and Río Muni, without any precise locality (Guinea 1946: 227).

MARATTIACEAE

Ptisana fraxinea (Sm.) Murdock in Taxon 57(3): 746 (2008)

NE Naturalized

Native to India. naturalized elsewhere in the Tropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Ebolowa, Bicurga-Evinayong, *Pérez Viso 1707* (MA); Evinayong, *Guinea 323* (MA-386650), 508 (MA-213952); Monte Alén, *Velayos & Pérez Viso 9264* (MA-638784, P); P.N. Monte Alén, Engong-lago Atok, *Pérez Viso 768* (MA, P); P.N. Monte Alén, Engong, *Pérez Viso 2665* (MA-748717); P.N. Monte Alén, Enkumekien, *Velayos & Pérez Viso 9323* (MA-638794). Kie Ntem: Eloan, Ebebiyin-Mongomo, *Pérez Viso 4287* (MA-747339). Litoral: Sendje-Evinayong, *Cabezas & al. 2095* (MA-884398). Wele Nzaz: Mofú, *Pérez Viso 2096* (MA-748718); Ncoho Yenguem, *Pérez Viso 3709* (MA-747338); Oveng Esandong, *Pérez Viso 3069* (MA-748705).

Previously reported from Centro Sur (Guinea 1946: 232d; Lejoly & Lisowski 1998: 179; Velayos *et al.* 2001: 168), Wele Nzaz (Lejoly & Lisowski 1998: 179) and Río Muni, without any precise locality (Guinea 1946: 227).

NEPHROLEPIDACEAE

Nephrolepis biserrata (Sw.) Schott, Gen. Fil., tab. 3 (1834)

NE Native

Pantropical. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Añisok-Mongola, *Pérez Viso 1479, 1487, 1491, 1495* (MA); Ayene, *Cabezas 105* (MA-695683); Evian, Aconibe-Acurenem, *Pérez Viso 1430* (MA-638709); Evinayong, *Guinea 478* (MA-213964), 498-72 (MA-386687); Miyobo, *Pérez Viso 2532* (MA-735157); Mosumo, camino de las cataratas, *Aedo & al. 5111* (MA-638685), 5137 (MA-638676), 5138 (MA); P.N. Monte Alén, Engong-lago Atok, *Velayos & al. 9486* (MA-638766), *Pérez Viso 764* (MA-638700), 767 (MA); P.N. Monte Alén, Enkumekien, *Pérez Viso 1180* (MA), 1499 (MA), *Velayos & Pérez Viso*

9308 (MA-638793); P.N. Monte Alén, *Lejoly* 99/101 (MA-621707); P.N. Monte Alén, Misergue-Churu, *Pérez Viso* 1655 (MA). Kie Ntem: Akam, *Fero & Esono* 162 (MA-808929); Ngomgom, *P. Barberá et al.* 92 (MA-831498); Nsoc Nsomo, *Cabezas et al.* 1240 (MA-831927). Litoral: Bata, *Pérez Viso* 1455, 1459 (MA-748702); Bata-Senye (Senge), *Carvalho* 5156 (MA-599633, MO); Benito-Etembue, *Guinea* 73 (MA-386668); Benito, *Guinea* 74 (MA-386667); Corisco, *Pérez Viso* 1902 (MA-689160); Río Campo, *Pérez Viso* 2194 (MA); Sendje, *Pérez Viso* 1614 (MA). Wele Nzas: Akok, carretera Acurenam-Aconibe, *Pérez Viso* 2013 (MA); Alum, Mikomeseng-Nkue, *Pérez Viso* 3032 (MA-734853).

Previously reported from Centro Sur (Guinea 1946: 184f; Velayos *et al.* 2001: 168) and Litoral (Guinea 1946: 168k; Lejoly & Lisowski 1998: 180; Velayos *et al.* 2001: 168).

Nephrolepis undulata (Afzel. ex Sw.) J.Sm. in Bot. Mag. 72: 35 (1846)

LC Native

Pantropical. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Litoral: cortina litoral de Río Benito, *Guinea* 1028 (MA-386669).

Previously reported from Litoral (Velayos *et al.* 2001: 169).

OLEANERACEAE

Oleandra distenta Kunze in Bot. Zeitung (Berlin) 9: 347 (1851)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Oyac Esom, *Pérez Viso* 3428 (MA-748588). Litoral: Bata-Senye-río Benito, *Carvalho* 4977 (MA-610103, MO).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 180; Velayos *et al.* 2001: 170), Litoral (Velayos *et al.* 2001: 170) and Wele Nzas (Velayos *et al.* 2001: 170).

OPHIOGLOSSACEAE

Ophioglossum reticulatum L., Sp. Pl.: 1063 (1753)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Enkumekie, Niefang-Evinayong, *Pérez Viso* 4068 (MA-748713). Litoral:

Bata-Bicomo, *Carvalho 4945* (MA-597247, MO).

Previously reported from Litoral (Velayos *et al.* 2001: 170).

POLYPODIACEAE

Drynaria laurentii (H.Christ ex De Wild. & Durand) Engl. & Drude, *Veg. Erde* 9(2): 57 fig. 54 Hieron. (1908)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Centro Sur: Añisok, *Pérez Viso 1377* (MA-638603), *1380a* (MA); Evian, Aconibe-Acurenam, *Pérez Viso 1425* (MA-638707); P.N. Monte Alén, Engong, *Pérez Viso 2688* (MA-748579); P.N. Monte Alén, lago Atok, *Pérez Viso 1073* (MA-638584). Litoral: Bata-Bome, *Carvalho 4855* (MA-597910, MO). Wele Nzas: Mofú, *Pérez Viso 2113* (MA).

Previously reported from Centro Sur (Guinea 1946: 143, 184i; Lejoly & Lisowski 1998: 180; Velayos *et al.* 2001: 170), Litoral (Velayos *et al.* 2001: 170), Wele Nzas (Guinea 1946: 116) and Río Muni, without any precise locality (Guinea 1946: 226).

Lepisorus excavatus (Bory ex Willd.) Ching in Bull. Fan Mem. Inst. Biol. 4: 68 (1933)

NE Native

Tropical Africa and Madagascar. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Enkumekie, carretera Niefang a Evinayong, *Pérez Viso 4070* (MA-748576).

Previously reported from Centro Sur (Velayos *et al.* 2001: 171).

Loxogramme abyssinica (Baker) M.G.Price in Amer. Fern J. 74(2): 61 (1984)

NE Native

Tropical Africa and Madagascar. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Annobón and Bioko.

Wele Nzas: Akok, *Pérez Viso 2029* (MA-747231).

Previously reported from Centro Sur (Guinea 1946: 184i, 226).

Loxogramme latifolia Bonap., Notes. Ptérid. 14: 334 (1923)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian

Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Añisok, *Pérez Viso* 1382 (MA-638608).

Previously reported from Centro Sur (Velayos *et al.* 2001: 171).

Microsorium punctatum (L.) Copel. in Univ. Calif. Publ. Bot. 16: 111 (1919)

NE Native

Native to Tropical & Subtropical Old World. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Bisun, Niefang-Evinayong, *Pérez Viso* 3424 (MA-748589); Evinayong, *Guinea* 93-497 (MA-389204); Mosumo, *Aedo & al.* 5112 (MA-638684); Niefang, *Pérez Viso* 2280 (MA-748580), *Pérez Viso* 2351 (MA-701694); P.N. Monte Alén, Engong, *Pérez Viso* 857 (MA-638534); P.N. Monte Alén, Misergue-río Laña, *Pérez Viso* 3256 (MA-735156). Kie Ntem: Akam, *Fero & Esono* 180 (MA-808941). Litoral: Corisco, *Pérez Viso* 1916 (MA-748575); desembocadura del río Campo, *Pérez Viso* 2152 (MA). Wele Nzaz: Oveng Esandong, *Pérez Viso* 3104 (MA-747323).

Previously reported from Centro Sur (Velayos *et al.* 2001: 171), Litoral (Lejoly & Lisowski 1998: 180; Velayos *et al.* 2001: 171), Wele Nzaz (Lejoly & Lisowski 1998: 180; Lejoly & Lisowski 1999: 119) and Río Muni, without any precise locality (Guinea 1946: 226).

Phymatosorus scolopendria (Burm.f.) Pic.Serm. in Webbia 28: 460 (1963)

NE Native

Native to Tropical & Subtropical Old World. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Bioko.

Centro Sur: Añisok, *Pérez Viso* 1376 (MA-748590); Niefang, *Pérez Viso* 2279 (MA-748581); P.N. Monte Alén, Monte Alén, carretera Monte Alén-Moka, *Velayos, Aedo & Pérez Viso* 9477 (MA-638765); P.N. Monte Alén, Mosumu, *Pérez Viso* 626 (MA-638519); 627 (MA-638520); P.N. Monte Alén, *Pérez Viso* 3257 (MA-748594). Kie Ntem: Akam, *Fero & Esono* 173 (MA-808918); Nfuiñ, *Cabezas et al.* 1312 (MA-831765). Litoral: Bata, *Guinea* 687 (MA-748593); Bata-Bome, *Carvalho* 4854 (MA-597911, MO); Benito, *Guinea* 1022 (MA-389228); Corisco, *Velayos, Cabezas & Tellería* 9970 (MA-705034); Corisco, *Pérez Viso* 1933 (MA-748574); Desembocadura del río Campo, *Pérez Viso* 2149 (MA); Enigayong, *Pérez Viso* 3864 (MA-748586). Wele Nzaz: cerro cúpula de Cucumancoc [Kukumankok], *Guinea* 18 (MA-186423). Río Muni: Río Benito, *Guinea* 562bis (MA-748584).

Previously reported from Centro Sur (Velayos *et al.* 2001: 171-172), Litoral (Lejoly & Lisowski 1998: 180; Velayos *et al.* 2001: 171-172) and Wele Nzaz (Lejoly & Lisowski

1998: 180; Velayos *et al.* 2001: 171-172).

Platycerium stemaria (P.Beauv.) Desv. in Mem. Soc. Linn. Paris 6: 213 (1827)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Añisok, *Pérez Viso* 1379 (MA-638605); 1380b (MA-638514); Niefang, *Pérez Viso* 2352 (MA-748582). Litoral: desembocadura del río Campo, *Pérez Viso* 2154 (MA-748573); río Benito, *Guinea* 863 (MA-214229); 861 (MA-389227); 2053 (MA-301368).

Previously reported from Centro Sur (Guinea 1946: 143; Velayos *et al.* 2001: 172), Litoral (Guinea 1946: 232g; Velayos *et al.* 2001: 172), Wele Nzaz (Lejoly & Lisowski 1998: 180) and Río Muni, without any precise locality (Guinea 1946: 226; Velayos *et al.* 2001: 172).

Polypodium lycopodioides L., Sp. Pl.: 1082 (1753)

NE Naturalized

Native to Tropical America, naturalized in Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Añisok-Mongola, *Pérez Viso* 1475 (MA-748595); 1496 (MA-638508); Evian [Ebiane], entre Aconibe y Acurenam, *Pérez Viso* 1420 (MA-638705); Mosumo, *Aedo & al.* 5114 (MA-638682); P.N. Monte Alén, Engong, *Pérez Viso* 849 (MA); P.N. Monte Alén, Misergue, *Pérez Viso* 1167 (MA-731347). Litoral: Bata-Bolondo, *Carvalho* 4755 (MA-597317, MO); Bata-Senye (Senge)-Mitom-Emangës, *Carvalho* 6477 (MA-620757); Corisco, *Pérez Viso* 1984 (MA-748587); desembocadura del río Campo, *Pérez Viso* 2148 (MA); Río Campo, cerca de Bongoro, *Pérez Viso* 2215 (MA-748592). Wele Nzaz; Akok, carretera Acurenam-Aconibe, *Pérez Viso* 2003 (MA-747324).

Previously reported from Centro Sur (Velayos *et al.* 2001: 172) and Litoral (Guinea 1946: 157, 160; Lejoly & Lisowski 1998: 180; Velayos *et al.* 2001: 172).

Xiphopteris serrulata (Sw.) Kaulf., Enum. Filic.: 85, 300 (1824)

NE Native

Native to Tropical & Subtropical America, Tropical Africa, W. Indian Ocean. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Annobón and Bioko.

Litoral: Bata-Niefang, *Carvalho* 5880 (MA-593435).

Previously reported from Centro Sur (Velayos *et al.* 2001: 161).

Zygophlebia devoluta (Baker) Parris in Kew Bull. 57(2): 432: (2002)

NE Native

Native to Tropical America, Tropical & S. Africa, W. Indian Ocean. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 178).

Zygophlebia villosissima (Hook.) L.E.Bishop in Amer. Fern J. 79(3): 117 (1989)

NE Native

Native to Tropical Africa and Madagascar. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Centro Sur: Engong, Parque Nacional de Monte Alén, *Stévant* 1450 (MA-735458).

PSILOTACEAE

Psilotum nudum (L.) P.Beauv., Prodr. Aethéogam.: 112 (1805)

NE Native

Native to the Tropics and Subtropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Annobón and Bioko.

Litoral: Bata-Dibolo-Tica, *Carvalho* 4973 (MA-610105, MO, WAG).

Previously reported from Litoral (Velayos *et al.* 2001: 172).

PTERIDACEAE

Acrostichum aureum L., Sp. Pl.: 1069 (1753)

LC Native

Native to the Tropics and Subtropics. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Bioko.

Litoral: Bata, desembocadura del río Ecucu, *Carvalho* 5163 (MA-599480, MO, WAG); río Benito, *Guinea* 916 (MA-389222), 918 (MA-389223), 925 (MA-389225), 927 (MA-186689), 977 (MA-389224), 1045 (MA-186690); Río Campo, desembocadura del río Campo, *Pérez Viso* 2173 (MA-643151).

Previously reported from Litoral (Guinea 1946: 167, 168j; 256g); Lejoly & Lisowski 1998: 175; Velayos *et al.* 2001: 173).

Adiantum vogelii Mett. ex Keyserl. in Mem. Acad. St. Petersb. 22(2): 8, 31 (1875)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian

Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Litoral: Bata-Bicomo, *Carvalho 4818* (MA-597740, MO, P, WAG).

Previously reported from Litoral (Velayos *et al.* 2001: 173) and Río Muni, without any precise locality (Moran & Smith 2001: 309).

Afropteris repens (C.Chr.) Alston in Bol. Soc. Brot. ser. 2, 30: 5 (1956)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Abang, Niefang, *Pérez Viso 4242* (MA-747286); carretera de Monte Bata hacia río Campo, *Pérez Viso 2430* (MA-734755); Nfing Ntagan, *Pérez Viso 2753* (MA-734553); P.N. Monte Alén, Engong, *Pérez Viso 2667bis* (MA-703133); P.N. Monte Alén, Mosumu, *Pérez Viso 1280* (MA), *1301* (MA-715776), *1281* (MA-697895). Litoral: Bata-Kogo, km 67, *Pérez Viso 1864* (MA-735152); Bata-río Campo, *Carvalho 4726* (MA-597971, MO, P, WAG); Binguro, *Pérez Viso 2873* (MA-748571); carretera de Mbini, *Pérez Viso 3342* (MA-747287); río Benito, *Guinea 84* (MA-389221), *1033* (MA-186467), *1231* (MA-389197); Río Campo, *Pérez Viso 2184* (MA-643152), *2195* (MA-643153).

Previously reported from Litoral (Alston 1956: 5; Lejoly & Lisowski 1998: 175; Velayos *et al.* 2001: 173).

Antrophyum mannianum Hook., Sec. Cent. Ferns, tab. 73 (1861)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province). Also known from Bioko.

Litoral: Sendje 2°, *Pérez Viso 2927* (MA-747232).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 182) and Litoral (Guinea 1946: 157).

Pellaea doniana J.Sm. ex Hook., Sp. f. 2: 137, tab. 125a (1858)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Bicurga, *Lejoly 99/475* (MA-621683); P.N. Monte Alén, Monte Chocolate, *Pérez Viso 4023* (MA-735082). Wele Nzaz: Akok, carretera Acurenam-Aconibe, *Pérez Viso 2025bis* (MA-732314); *2046* (MA-748570); inselberg Piedra Nzaz, *Lejoly 99/190* (MA-621712).

Previously reported from Centro Sur (Velayos *et al.* 2001: 174) and Wele Nzas (Lejoly & Lisowski 1998: 175; Velayos *et al.* 2001: 174 Guinea 1946: 180, 184k; Lejoly & Lisowski 1999: 118).

Pellaea holstii (Hieron.) Hieron. ex Diels in Engl. & Prantl (eds.), Nat. Pflanzenfam. 1(4): 267 (1899)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region.

Kie Ntem: Nfuiñ, *Cabezas et al.* 1314 (MA-831763). Wele Nzas: Asok, *Guinea* 170 (MA-389200), 346 (MA-186494); Piedra Nzas, *Lejoly* 99/227 (MA-621777).

Previously reported from Wele Nzas (Lejoly & Lisowski 1999: 118; Lejoly & Lisowski 1998: 175; Velayos *et al.* 2001: 174).

Pityrogramma calomelanos (L.) Link, Handbuch 3: 30 (1833)

NE Naturalized

Native from Mexico to Tropical America, naturalized elsewhere in the Tropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Añisok-Mongola, *Pérez Viso* 1484 (MA); carretera forestal Bata-Niefang, Nhogo Ebaiñ, *Pérez Viso* 2679bis (MA-747284); Mosumo, *Aedo & al.* 5097 (MA-638690); P.N. Monte Alén, *Lejoly* 99/017 (MA-621782); P.N. Monte Alén, Mosumu, *Pérez Viso* 644 (MA). Litoral: área de Machinda, poblado de Adam-Tum, *López Serrano* 130318, 130319 (MA); área de Mbini, poblado de Ncuesis, *López Serrano* 090504, 090505 (MA); carretera de Mbini, *Pérez Viso* 3341 (MA-747285); carretera Mbini-Bata, a 22 km de Mbini, *Fero & al.* 295 (MA-844591); Corisco, *Pérez Viso* 1907 (MA-747283); desembocadura del río Campo, *Pérez Viso* 2167 (MA); Miboman, *Castroviejo* 9170 (MA-731346). Wele Nzas: entre Eviam y Aconibe, *Pérez Viso* 2071 (MA-747026).

Previously reported from Centro Sur (Velayos *et al.* 2001: 174) and Litoral (Lejoly & Lisowski 1998: 178).

Pteris atrovirens Willd., Sp. Pl. 5: 385 (1810)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Litoral: Bata-Kogo, *Pérez Viso* 1849 (MA-715783, P); Bata-Niefang, *Carvalho* 5765 (MA-599065); Río Campo, *Pérez Viso* 2511 (MA-734400); Utonde, Adjap, *Guinea* 1236 (MA-386658). Wele Nzas: Alum, entre Mikomeseng y Nkue, *Pérez Viso* 3053

(MA-734692); Nvua-Nnvam Oveng, Añisok, *Pérez Viso* 3000 (MA-734390).

Previously reported from Centro Sur (Velayos *et al.* 2001: 174), Litoral (Guinea 1946: 156) and from Río Muni, without a precise locality (Guinea 1946: 225).

Pteris burtonii Baker in Ann. Bot. (London) 5: 218 (1891)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Añisok-Mongola, *Pérez Viso* 1489 (MA-638505); Bata-Niefang-Monte Alén, *Carvalho* 5365 (MA-599644, MO, WAG); carretera forestal Bata-Niefang, km. 22, *Pérez Viso* 2685bis (MA-748568); Evinayong, *Guinea* 59 (MA-386656); km 40 carretera forestal Bata-Niefang, *Pérez Viso* 2724 (MA-734877, P); P.N. Monte Alén, Bisun, *Pérez Viso* 1220 (MA-638696); P.N. Monte Alén, lago Atok, *Pérez Viso* 1079 (MA); P.N. Monte Alén, *Velayos & al.* 9517 (MA-638776); P.N. Monte Alén, Mosumu, *Pérez Viso* 1285 (MA-638691). Litoral: Sendje 2°, km. 47 de la carretera de Kogo, *Pérez Viso* 2928 (MA-734398, P). Wele Nzaz: entre Eviam y Aconibe, *Pérez Viso* 2085 (MA-732598).

Previously reported from Centro Sur (Velayos *et al.* 2001: 174).

Pteris hamulosa (H.Christ) H.Christ in Ann. Mus. Congo Belge, Bot., ser. 5, 3: 30 (1909)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Centro Sur; Abang, Niefang, *Pérez Viso* 4239 (MA-734392). Kie Ntem: Eloan, carretera Ebebiyi-Mongomo, *Pérez Viso* 4300 (MA-734875). Wele Nzaz: Akok, carretera Acurenam-Aconibe, *Pérez Viso* 2007 (MA-747320).

Pteris linearis Poir. in Lam., Encycl. 5: 723 (1804)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Bisun, carretera de Niefang a Evinayong, *Pérez Viso* 3426 (MA-734396). Litoral: Utonde, Adjap, *Guinea* 90 (MA-386648).

Previously reported from Centro Sur (Velayos *et al.* 2001: 175) and Litoral (Velayos *et al.* 2001: 175).

Pteris manniana Mett. ex Kuhn, Filic. Afr.: 84 (1868)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-

Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Miyobo, *Pérez Viso 2569bis* (MA-735294).

Known from Annobón and Bioko, this species is newly reported from the continental region of Equatorial Guinea.

Pteris mildbraedii Hieron. in Bot. Jahrb. Syst. 53: 415 (1915)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Niefang, *Pérez Viso 2303* (MA-747321). Litoral: Bata-Kogo, km 67, *Pérez Viso 1865* (MA-732596); Benito, *Guinea 60* (MA-386651). Wele Nzas: Ncoho Yenguem, *Pérez Viso 3707* (MA-734874).

Previously reported from Río Muni, without any precise locality (Alston 1959: 42).

Pteris prolifera Hieron. in Bot. Jahrb. Syst. 53: 397 (1915)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Bata-Monte Alén, *Carvalho 5330* (MA-598179, MO, WAG). Litoral: Bata-Niefang, *Carvalho 5798* (MA-609961).

Previously reported from Centro Sur (Velayos *et al.* 2001: 175).

Pteris pteridioides (Hook.) F. Ballard in Bull. Misc. Inform. Kew 1937: 348 (1937)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, *Pérez Viso 3252* (MA-735286).

Known from Bioko, this species is newly reported from the continental region of Equatorial Guinea.

Pteris similis Kuhn & Decken in Asch. Bot. Ost-Afrika: 21 (1879)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Bata-Niefang-Monte Alén, *Carvalho 5915* (MA-609869, WAG).

Previously reported from Centro Sur (Velayos *et al.* 2001: 175) and Wele Nzas (Lejoly & Lisowski 1998: 175).

Pteris togoensis Hieron. in Bot. Jahrb. Syst. 53: 402 (1915)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Kie Ntem: Eloan, carretera Ebebiyin-Mongomo, *Pérez Viso* 4276 (MA-734705).

Previously reported from Litoral (Guinea 1946: 225)

Pteris tripartita Sw. in J. Bot. (Schrader) 1800(2): 67 (1801)

NE Native

Native to Tropical & Subtropical Old World. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Monte Bata-Río Campo, *Pérez Viso* 2458bis (MA-735296).

Previously reported from Litoral (Guinea 1946: 154).

Vittaria guineensis Desv. in Mag. Neuesten Entdeck. Gesammten Naturk. Ges. Naturf. Freunde Berlin 5: 325 (1811)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: P.N. Monte Alén, Engong, *Pérez Viso* 2708 (MA-747272); P.N. Monte Alén, Enkumekien, *Pérez Viso* 1579 (MA-732587); Enkumekie, *Pérez Viso* 4093 (MA-735085); carretera de Monte Bata hacia Río Campo, *Pérez Viso* 2452 (MA-714562). Litoral: Sendje 2°, *Pérez Viso* 2926 (MA-734860); Corisco, *Pérez Viso* 1977 (MA-687715). Wele Nzas: Akok, carretera Acurenam-Aconibe, *Pérez Viso* 2033 (MA-747271); Eviam, *Pérez Viso* 2642 (MA-734559); Añisok-Mongola, *Pérez Viso* 3723 (MA-735087).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 182; Velayos *et al.* 2001: 181) and Litoral (Guinea 1946: 157).

Vittaria schaeferi Hieron. in Bot. Jahrb. Syst. 53: 430 (1915)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Evian [Ebiane], entre Aconibe y Acurenam, *Pérez Viso* 1436 (MA-638483). Wele Nzas: Añisok-Mongola, *Pérez Viso* 1474 (MA-638493).

Previously reported from Centro Sur (Velayos *et al.* 2001: 181).

SELAGINELLACEAE

Selaginella cathedrifolia Spring in Mem. Acad. Roy. Belg. 24: 112 (1849)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Miyobo, *Pérez Viso* 2539 (MA-726961); P.N. Monte Alén, Engong, *Pérez Viso* 2696 (MA-726766), 2711 (MA-726767); Mafanebú, *Guinea* 96 (MA-389218), 97 (MA-214388), 188 (MA-186773). Litoral: Bata-Kogo, km 67, *Pérez Viso* 1857 (MA-726765). Wele Nzas: Inselberg Dumu, *Lejoly* 99/338 (MA-621693).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 181; Velayos *et al.* 2001: 176; Wele Nzas (Velayos *et al.* 2001: 176) and from Río Muni, without any precise locality (Guinea 1946: 228).

Selaginella goudotiana Spring in Bull. Acad. Roy. Sci. Bruxelles 10(1): 140 (1843)

LC Native

Centro Sur: km 40 carretera forestal Bata-Niefang, *Pérez Viso* 2728 (MA-725007).

Plants widely growing through Tropical Africa are usually ascribed to var. *abyssinica* (Spring) Bizzarri in Webbia 29: 585.

Selaginella grallipes Alston in Mem. Soc. Linn. Normandie 1: 80 (1938)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Esamalang, *Pérez Viso* 3282 (MA-726772); P.N. Monte Alén, alrededores del lago Atok, *Pérez Viso* 25 (MA-690394), 26 (MA-690396); P.N. Monte Alén, Engong, *Pérez Viso* 682 (MA-638527); Bata-Monte Alén, margens de Río Bom, *Carvalho* 5313 (MA-598223, MO, WAG).

Previously reported from Centro Sur (Velayos *et al.* 2001: 176).

Selaginella kalbreyeri Baker in J. Bot. 22: 276 (1884)

NE Native

Tropical Africa. Sudano-Zambezian Region (Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 181) and Wele Nzas (Lejoly & Lisowski 1998: 181).

Selaginella kivuensis Bizzarri in Bull. Jard. Bot. Belg. 53: 174 (1983)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Niefang, *Carvalho* 5823 (MA-610051, MO-4817314, WAG).

Previously reported from Centro Sur (Velayos *et al.* 2001: 177).

Selaginella kraussiana (Kunze) A. Braun, Append. Index Seminum Horto Bot. Berol. 1859: 22 (1860)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Bioko.

Centro Sur: P.N. Monte Alén, Esamalang, *Pérez Viso* 3277 (MA-726763). Wele Nzaz: Mbok-Biwogo, entre Piedra Nzaz y Acoaseng, *Lejoly* 99/274 (MA-621771).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 181) and Litoral (Lejoly & Lisowski 1998: 181).

Selaginella molliceps Spring in Mem. Acad. Roy. Belg. 24: 257 (1849)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Centro Sur: área de Niefang, *López Serrano* 130629, 130630, 130631 (MA); P.N. Monte Alén, Engong, *Pérez Viso* 769 (MA-726956); Mosumo, *Aedo & al.* 5109 (MA-638687). Litoral: área de Mbini, *López Serrano* 170403, 170404, 170405 (MA); Bata-Kogo, km 67, *Pérez Viso* 1866 (MA-726786). Wele Nzaz: pista forestal, entre Eviam y Aconibe, *Pérez Viso* 2070 (MA-726764); Eviam, Aconibe-Acurenem, *Pérez Viso* 1813 (MA-643181); Mbok-Biwogo, entre Piedra Nzaz et Acoaseng, *Lejoly* 99/274 (MA-621771).

Previously reported from Centro Sur (Velayos *et al.* 2001: 177), Litoral (Guinea 1946: 159), Wele Nzaz (Velayos *et al.* 2001: 177) and Río Muni, without any precise locality (Guinea 1946: 229).

Selaginella myosurus (Sw.) Alston in J. Bot. 70: 64 (1932)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Centro Sur: km 40 carretera forestal Bata-Niefang, *Pérez Viso* 2718 (MA-726776); 2739 (MA-726775); P.N. Monte Alén, río Vog-yii, *Pérez Viso* 3206 (MA-726774); Evinayong, *Guinea* 98 (MA-389229). Litoral: Binguro, *Pérez Viso* 2883 (MA-726773); Bata-Asonga, *Carvalho* 4651 (MA-597276, MO, WAG); costa, *Guinea* 975 (MA-186767); Utonde, *Guinea* 728 (MA-186766). Wele Nzaz: Nsung Fandong, *Pérez Viso* 3154 (MA-726777); Nsum Esangüi, *Pérez Viso* 3646 (MA-725784).

Previously reported from Centro Sur (Velayos *et al.* 2001: 178), Litoral (Lejoly & Lisowski 1998: 181) and Río Muni, without any precise locality (Guinea 1946: 229).

Selaginella squarrosa Baker in J. Bot. 23: 180 (1885)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Sierra de Cristal, *Mann* 1638 (K).

Previously reported in Velayos *et al.* (2001: 179), who indicate a possible mistake in the label information of the supporting specimen.

Selaginella versicolor Spring in Bull. Acad. Roy. Sci. Bruxelles 10: 143 (1843)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, lago Atok, *Pérez Viso* 1083 (MA-638586), 1084 (MA-638586); P.N. Monte Alén, Engong, *Pérez Viso* 2701 (MA-726962); P.N. Monte Alén, Monte Chocolate, *Pérez Viso* 4058 (MA-726771); Enkumekie, *Pérez Viso* 3572 (MA-725786); Moca-Cascadas do río Iladyi, *Carvalho* 3882 (MA-725785, WAG); P.N. Monte Alén, río Bong, *Rial & Lasso SP76* (MA-710950); Bata-Monte Alén, margens de Río Oton Asok, *Carvalho* 5325 (MA-598167, MO). Litoral: Bata-Senye (Senge)-Mitom-Emangos, *Carvalho* 6456 (MA-620831, WAG); Bata-Niefang, *Carvalho* 5805 (MA-610015, WAG).

Previously reported from Centro Sur (Velayos *et al.* 2001: 179) and Litoral (Lejoly & Lisowski 1998: 181; Velayos *et al.* 2001: 179).

Selaginella vogelii Spring in Mem. Acad. Roy. Belg. 24: 170 (1849)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Annobón and Bioko.

Centro Sur: Nfing Ntagan, *Pérez Viso* 2740 (MA-726782); Mosumo, *Aedo & al.* 5153 (MA-638788); P.N. Monte Alén, Enkumekien, *Velayos & Pérez Viso* 9341 (MA-638795); P.N. Monte Alén, Engong, *Velayos & al.* 9994 (MA-705024); Bisun, carretera de Niefang a Evinayong, *Pérez Viso* 3420 (MA-726778); Evinayong, *Guinea* 99 (MA-389230); carretera forestal Bata-Niefang, Nhogo Ebaiñ, *Pérez Viso* 2691bis (MA-726780); Abobem, Niefang, *Pérez Viso* 4196 (MA-726784); P.N. Monte Alén, Esamalang, *Pérez Viso* 3281 (MA-726958); Mosumo, *Aedo & al.* 5154 (MA). Kie Ntem: Engokua, Ebebiyin, *Pérez Viso* 4336 (MA-726783); alrededores del poblado de Obot Nku-Eseng, *P. Barberá & al.* 149 (MA-831428); Eloan, carretera Ebebiyi-Mongomo, *Pérez Viso* 4286 (MA-726957). Litoral: Corisco, Endote, *Pérez Viso* 1964 (MA-726785); carretera de Mbini, *Pérez Viso* 3346 (MA-726959); Bata-Niefang,

Carvalho 6024 (MA-609772, WAG). Wele Nzas: Alum, entre Mikomeseng y Nkue, *Pérez Viso 3056* (MA-726779); Eviam, carretera forestal de Bata a Niefang, *Pérez Viso 2645* (MA-734558); monument natural de Piedra Nzas, *Lejoly 99/253* (MA-621787); Ncoho Yenguem, *Pérez Viso 3704* (MA-726781).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 181; Velayos *et al.* 2001: 179), Litoral (Lejoly & Lisowski 1998: 181; Guinea 1946: 159) and Wele Nzas (Lejoly & Lisowski 1998: 181; Velayos *et al.* 2001: 179).

TECTARIACEAE

Arthropteris cameroonensis Alston in J. Bot. 77: 287 (1939)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Enkumekien, *Pérez Viso 1497* (MA-734393). Wele Nzas: monument natural de Piedra Nzas, *Lejoly 99/245* (MA-621776); inselberg Piedra Nzas, *Lejoly 99/163* (MA-621701).

Previously reported from Wele Nzas (Velayos *et al.* 2001: 169).

Arthropteris monocarpa (Cordem.) C.Chr., Cat., Pl. Madag., Pterid.: 32 (1931)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Bioko.

Centro Sur: P.N. Monte Alén, senda que va desde el lago Atok hasta Moka, *Pérez Viso 1346* (MA-658598); P.N. Monte Alén, lago Atok, *Pérez Viso 1014* (MA-638539); P.N. Monte Alén, *Lejoly 99/040* (MA-621795). Wele Nzas: Eviam, *Pérez Viso 2629* (MA-734562).

Previously reported from Centro Sur (Velayos *et al.* 2001: 169).

Arthropteris orientalis (J.F.Gmel.) Posth. in Recueil Trav. Bot. Neerl. 21: 218 (1924)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 177) and Wele Nzas (Lejoly & Lisowski 1999a: 118)

Arthropteris palisotii (Desv.) Alston in Bol. Soc. Brot. ser. 2, 30: 6 (1956)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province);

Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Centro Sur: Bata-Niefang-Monte Alen, *Carvalho 5560* (MA-598773, MO-5768082, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 177; Velayos *et al.* 2001: 169).

Tectaria angelicifolia (Schumach.) Copel. in Phil. Journ. Sci., C. 2: 410 (1907)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Centro Sur: carretera forestal Bata-Niefang, Nhogo Ebaiñ, *Pérez Viso 2686bis* (MA-748716); *2693bis* (MA-734698); Enkumekie, carretera de Monte Alén a Evinayong, *Pérez Viso 3573* (MA-734872); carretera de Monte Bata hacia Río Campo, *Pérez Viso 2442* (MA-734753); *2443* (MA-734752). Kie Ntem: Akam, camino a Oyò, *Fero & Esono 174* (MA-808916). Wele Nzas: Mbut, *Pérez Viso 3652* (MA-734873).

Known from Bioko (Velayos *et al.* 2001: 158), this species is newly reported from the continental region of Equatorial Guinea.

Tectaria barteri (J.Sm.) C.Chr., Index Filic., Suppl. 3: 177 (1934)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Engong, *Pérez Viso 2681* (MA-735092).

Known from Bioko (Velayos *et al.* 2001: 158), this species is newly reported from the continental region of Equatorial Guinea.

Tectaria camerooniana (Hook.) Alston in J. Bot. 77: 288 (1939)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Wele Nzas: Akok, carretera Acurenam-Aconibe, *Pérez Viso 2058* (MA-732264).

Known from Bioko (Velayos *et al.* 2001: 159), this species is newly reported from the continental region of Equatorial Guinea.

Tectaria fernandensis (Baker) C.Chr., Index Filic., Suppl. 3: 179 (1934)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: P.N. Monte Alén, Mosumu, *Pérez Viso 1253* (MA-638698), *1265* (MA),

1281 (MA-638692); P.N. Monte Alén, Engong, *Velayos & al.* 9497 (MA-638769); Evinayong, cascada del Laña, *Guinea* 94 (MA-386661). Litoral: Minang, *Pérez Viso* 3978 (MA-748377); Bata-Niefang, *Carvalho* 5832 (MA-609818), 5842 (MA-609122, WAG); Bata-Mbubuin, *Carvalho* 5120 (MA-598928, MO, WAG).

Previously reported from Centro Sur (*Velayos et al.* 2001: 159), Litoral (*Velayos et al.* 2001: 159) and Wele Nzaz (*Lejoly & Lisowski* 1998: 176).

Tectaria varians (T.Moore) C.Chr., Index Filic., Suppl. 3: 186 (1934)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Madagascan Region.

Centro Sur: P.N. Monte Alén, Engong, *Pérez Viso* 850 (MA-734758), 854 (MA-638533); Evinayong, *Guinea* 67 (MA-386654), 82 (MA-634134), 273 (MA-186744, 213020), 322 (MA-386655), 473 (MA-386649); P.N. Monte Alén, Moka, *Pérez Viso* 871 (MA-638535, 689158); Monte Alén, *Velayos & Pérez Viso* 9272 (MA-638789), 9281 (MA-638796), 9285 (MA); Bata-Monte Alén, *Carvalho* 5112 (MA-610099, MO-4500970, WAG). Litoral: Bata-Senye (Senge), *Carvalho* 6239 (MA-620302). Wele Nzaz: Aconibe, *Pérez Viso* 2132 (MA-643177). Río Muni: alrededores de Sinarpog, *Guinea* 275 (MA-213031).

Previously reported from Centro Sur (*Velayos et al.* 2001: 160), Litoral (*Velayos et al.* 2001: 160), Wele Nzaz (*Velayos et al.* 2001: 160) and from Río Muni, without any precise locality (*Velayos et al.* 2001: 160; *Holttum* 1986: 251).

Triplophyllum dimidiatum (Mett. ex Kuhn) *Holttum* in *Kew Bull.* 41: 251 (1986)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén; Monte Chocolate, *Pérez Viso* 4026 (MA-735084). Litoral: Bata-Kogo, km. 67, *Pérez Viso* 1869 (MA-735151); Bata-Niefang, margenes del río Comayá, *Carvalho* 5646 (MA-598570, MO, WAG); Bata-Niefang, *Carvalho* 4740 (MA-597898, MO-5599644, WAG).

Previously reported from Litoral (*Velayos et al.* 2001: 159) and from Río Muni, without any precise locality (*Holttum* 1986: 253).

Triplophyllum fraternum (Mett. ex Kuhn) *Holttum* in *Kew Bull.* 41: 253 (1986)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Centro Sur: cascada del Laña Evinayong, *Guinea* 66 (MA-386680); 69 (MA-386672); P.N. Monte Alén, lago Atok, *Pérez Viso* 1031 (MA-735165); carretera forestal Bata Niefang, Nhogo Ebaiñ, *Pérez Viso* 2705bis (MA-735097); Miyobo, carretera Niefang Mosumu, *Pérez Viso* 2557 (MA-735094); cascada del Laña Evinayong, *Guinea*; P.N. Monte Alén, Enkumekien, *Pérez Viso* 1519 (MA-734762); Mosumu, *Pérez Viso* 3478

(MA-734708); Bindung, *Pérez Viso* 3770 (MA-735089); P.N. Monte Alén, Mosumu, *Pérez Viso* 1283 (MA-638694); 1287 (MA-638695). Litoral: Bata-Niefang, *Carvalho* 5661 (MA-599364); Bata-Senye (Senge), *Carvalho* 6304 (MA-620658, WAG); Bata-Niefang, *Carvalho* 5899 (MA-599795, WAG); Bata-Mbubuin, *Carvalho* 5121 (MA-598929, MO, WAG); Wele Nzaz: Oveng Esandong, km. 61 carretera Nkue-Mongomo, *Pérez Viso* 3071 (MA-734690); Akok, carretera Acurenam-Aconibe, *Pérez Viso* 2004 (MA-747280); 2019 (MA-731287); Alum, entre Mikomeseng y Nkue, *Pérez Viso* 3026 (MA-734695); Nsum Esangüi, *Pérez Viso* 3622 (MA-735091).

Previously reported from Centro Sur (Velayos *et al.* 2001: 159; Guinea 1946: 223) and Litoral (Velayos *et al.* 2001: 159)

Triplophyllum pilosissimum (T.Moore) Holttum in Kew Bull. 41: 246 (1986)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Mosumu, *Pérez Viso* 1263 (MA-638515); Nfing Ntagan, *Pérez Viso* 2752 (MA-734552); P.N. Monte Alén, Engong, *Velayos & al.* 9482 (MA-638763). Wele Nzaz: Alum, entre Mikomeseng y Nkue, *Pérez Viso* 3062 (MA-734691).

Previously reported from Centro Sur (Velayos *et al.* 2001: 159) and Litoral (Velayos *et al.* 2001: 159).

Triplophyllum protensum (Sw.) Holttum in Kew Bull. 41: 247 (1986)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Monte Chocolate, *Pérez Viso* 4024 (MA-735083); Bata-Niefang-Monte Alén, *Carvalho* 5366 (MA-599645, MO, WAG); Mosumu, *Aedo et al.* 5131 (MA-638679); P.N. Monte Alén, Mosumu, *Pérez Viso* 1263 (MA-638515); P.N. Monte Alén, Esamalang, *Pérez Viso* 3272bis (MA-735154); km 40 carretera forestal Bata-Niefang, *Pérez Viso* 2723bis (MA-728624); Niefang, Bindeng, *Pérez Viso* 2380 (MA-734856); Bisum, carretera de Niefang a Evinayong, *Pérez Viso* 3403 (MA-734709); Añisok-Mongola, *Pérez Viso* 1478 (MA-638496); 1480 (MA-638498); 1485a (MA-638501); 1493 (MA-638510); P.N. Monte Alén, Enkumekien, *Pérez Viso* 1508 (MA-734760). Litoral: Masamabe, *Pérez Viso* 3902 (MA-687062); 3904bis (MA-715775); Sendje 2°, *Pérez Viso* 2935 (MA-734858); Binguro, *Pérez Viso* 2870 (MA-690408). Wele Nzaz: Nnvam Oveng, Añisok, *Pérez Viso* 3010 (MA-747279); Nsung Fandong, *Pérez Viso* 3135 (MA-747276); 3152 (MA-735093); zona de los Bimbiles, *Guinea* 137 (MA-186706); Eviam, *Pérez Viso* 2624 (MA-734565); Eviam, Matroguisa, entre Acurenam y Aconibe, *Pérez Viso* 1752 (MA-643173); El Bimbile, *Guinea* 58 (MA-386679); Mbut, *Pérez Viso* 3670 (MA-747275).

Previously reported from Centro Sur (Velayos *et al.* 2001: 159), Litoral (Lejoly & Lisowski 1998: 176), Wele Nzaz (Velayos *et al.* 2001: 159) and Río Muni, without any precise locality (Alston 1959: 71).

Triplophyllum securidiforme (Hook.) Holttum in Kew Bull. 41: 242 (1986)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Esamalang, *Pérez Viso* 3273 (MA-735153); Bata-Monte Alén: Margens de Río Oton Asok, *Carvalho* 5329 (MA-598163, MO, WAG); P.N. Monte Alén, Engong, camino hacia el lago Atok., *Pérez Viso* 795 (MA-638699); P.N. Monte Alén, Río Bong, *Rial* 82 (MA-638517); camino de la Cascada del Río Laña, *Guinea* 294 (MA-386673); P.N. Monte Alén, cabaña de el Lago, *Velayos et al.* 9529 (MA-638787); carretera forestal Bata-Niefang, Nhogo Ebaiñ, *Pérez Viso* 2689bis (MA-747282); Enkumekie, carretera Niefang a Evinayong, *Pérez Viso* 4099 (MA-734700); P.N. Monte Alén, Enkumekien, *Pérez Viso* 1528 (MA-734764); 1530 (MA-734765); P.N. Monte Alén, Engong, *Pérez Viso* 2699 (MA-747277); 2715 (MA-747274). Litoral: Sendje 1°, *Pérez Viso* 2918 (MA-734861); Bata-Senye (Senge)-Mitom-Emangès, *Carvalho* 6415 (MA-620773, WAG); 6483 (MA-620714, WAG); Bata-Niefang, *Carvalho* 5620 (MA-598812, MO, WAG); Sendje, *Pérez Viso* 3383 (MA-747281). Wele Nzaz: Mofú, cerca de Oven, *Pérez Viso* 2119 (MA-732577).

Previously reported from Centro Sur (*Velayos et al.* 2001: 160; *Guinea* 1946: 223) and Litoral (*Velayos et al.* 2001: 160).

Triplophyllum troupinii (Pic.Serm.) Holttum in Kew Bull. 41: 243 (1986)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: carretera forestal Bata-Niefang, Nhogo Ebaiñ, *Pérez Viso* 2706bis (MA-735096); Nfing Ntagan, *Pérez Viso* 2754 (MA-734554); km 40 carretera forestal Bata-Niefang, *Pérez Viso* 2723 (MA-727383). Litoral: Sendje 1°, *Pérez Viso* 2907 (MA-734862). Wele Nzaz: Oveng Esandong, *Pérez Viso* 3091 (MA-734689).

Previously reported from Centro Sur (*Velayos et al.* 2001: 160) and from Río Muni, without any precise locality (Holttum 1986: 244).

Triplophyllum vogelii (Hook.) Holttum in Kew Bull. 41: 249 (1986)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Añisok, *Pérez Viso* 1485b (MA); Añisok-Mongola, *Pérez Viso* 1488 (MA); P.N. Monte Alén, Enkumekien, *Pérez Viso* 1522 (MA-734763); Evinayong, *Guinea* 61 (MA-634132). Kie Ntem: Ngomgom, *Barberá et al.* 49 (MA-831650).

Previously reported from Centro Sur (*Velayos et al.* 2001: 160) and from Río Muni, without any precise locality (Lejoly & Lisowski 1998: 176).

THELYPTERIDACEAE

Amauropelta bergiana (Schltdl.) Holttum in J. S. Afr. Bot. 40: 133 (1974)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Bioko.

Centro Sur: P.N. Monte Alén, *Pérez Viso* 3260 (MA-735284).

Known from Bioko (Velayos *et al.* 2001: 179) this species is newly reported from the continental region of Equatorial Guinea.

Christella dentata (Forssk.) Brownsey & Jermy in Brit. Fern Gaz. 10: 338 (1973)

NE Native

Native to Tropical & Subtropical Old World. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Karroo Namib Region; Cape Region; Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Acurenam, *Aedo et al.* 5410 (MA-643163). Litoral: área de Machinda, poblado de Ncon-Nbia, *López Serrano* 290312, 290313, 290314 (MA); Río Campo, *Pérez Viso* 2206 (MA-643133); Utonde, Adjap, *Guinea* 68 (MA-386676). Wele Nzaz: Eviam. Matroguisa, entre Acurenam y Aconibe, *Pérez Viso* 1825 (MA-643139).

Previously reported from Centro Sur (Velayos *et al.* 2001: 179) and Litoral (Lejoly & Lisowski 1998: 182; Velayos *et al.* 2001: 179).

Cyclosorus striatus (Schumach.) Ching in Bull. Fan. Mem. Inst. Biol. Bot. 10: 249 (1941)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: carretera forestal Bata-Niefang, Nhogo Ebaiñ, *Pérez Viso* 2668bis (MA-808871); P.N. Monte Alén, Moka, *Pérez Viso* 4112 (MA-735292); P.N. Monte Alén, Enkumekien, *Pérez Viso* 1511 (MA-734761). Litoral: Bata-Pembe, *Carvalho* 4840 (MA-597727, MO, WAG).

Previously reported from Litoral (Velayos *et al.* 2001: 180).

Pneumatopteris afra (H.Christ) Holttum in Blumea 21: 306 (1973)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Bindung, *Pérez Viso* 3769 (MA-735090); carretera de Monte Bata hacia

Río Campo, *Pérez Viso* 2437 (MA-735297); 2440 (MA-734754); carretera forestal Bata-Niefang, Nhogo Ebaiñ, *Pérez Viso* 2668tris (MA-819889); Enkumekie, carretera de Monte Alén a Evinayong, *Pérez Viso* 3571 (MA-747290); Evinayong, cascada del río Laña, *Guinea* 70 (MA-386674); Mosumo, *Aedo et al.* 5110 (MA-638686); Niefang, *Pérez Viso* 2250 (MA-734851); 2302 (MA-747288); P.N. Monte Alén, Engong, camino de el Lago, *Velayos et al.* 9487 (MA-638767); P.N. Monte Alén, Engong, camino hacia el lago Atok, *Pérez Viso* 788 (MA-638531); P.N. Monte Alén, Enkumekien, *Pérez Viso* 1500 (MA-734759); 1531 (MA-734766); P.N. Monte Alén, Monte Chocolate, *Pérez Viso* 4028 (MA-734859); P.N. Monte Alén, río Vog-yii, *Pérez Viso* 3208 (MA-735160); pr. Acurenam, Mbeayop, *Aedo et al.* 5397 (MA-643212). Kie Ntem: Engokua, Ebebiyin, *Pérez Viso* 4346 (MA-734702). Litoral; Sendje, *Pérez Viso* 2960 (MA-734857); Corisco, Endote, *Pérez Viso* 1971 (MA-734701); Yengüe, Río Campo, *Pérez Viso* 2803 (MA-747289); carretera Ayap, *Guinea* 16 (MA-186661). Wele Nzas: Bimbile, *Guinea* 32 (MA-186660); Alum, entre Mikomeseng y Nkue, *Pérez Viso* 3058 (MA-747291); inselberg Piedra Nzas, *Lejoly* 99/163 (MA-621701); Mbut, *Pérez Viso* 3653 (MA-747293).

Previously reported from Centro Sur (*Velayos et al.* 2001: 180), Wele Nzas (*Velayos et al.* 2001: 180) and Río Muni, without a precise locality (*Lejoly & Lisowski* 1998: 182).

Pneumatopteris venulosa (Hook. ex Kuntze) Holttum in *Blumea* 21: 315 (1973)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: carretera Oyap, *Guinea* 77 (MA-386675).

Previously reported from Centro Sur (*Guinea* 1946: 223) and Wele Nzas (*Guinea* 1946: 223).

GYMNOSPERMAE

EPHEDRACEAE

Gnetum africanum Welw. in Trans. Linn. Soc. London 27: 73 (1896)

NT Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province);
Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata, *Wilde 11993* (WAG); Bata-Pembe, *Carvalho 5036* (MA, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 175).

Gnetum interruptum Biye in Pl. Syst. Evol. 300(2): 270 (2013)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province,
Congolian Province).

Litoral: Bata-Bome, *Carvalho 5100* (MA, MO, WAG); Bata-Mbini, *Carvalho 5226*
(MA-599499, MO, WAG).

Previously reported from Litoral (Biye *et al.* 2013: 270)

MAGNOLIIDS

ANNONACEAE

Annickia affinis (Exell) Versteegh & Sosef in Syst. Geogr. Pl. 77: 91 (2007)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Niefang, *Pérez Viso* 2336 (MA-797554).

Previously reported from Centro Sur (Fero 2012: 69)

Annickia chlorantha (Oliv.) Setten & Maas in Taxon 39(4): 676 (1990)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Wele Nzas (Guinea 1946: 280) and from Río Muni, without any precise locality (Mas-Guindal 1944: 53; Wilks & Issembé 2000: 108.) We have not found any herbarium specimen supporting this record, nonetheless the distribution range and ecological requirements and ethnobotanical uses as antimalarial of the species makes its presence in the country reliable.

Annona muricata L., Sp. Pl.: 536-537 (1753)

LC Naturalized

Original from Tropical America, broadly cultivated and naturalized in Africa and Asia. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobon and Bioko.

Litoral: Ndote, *Eneme* 531 (BATA-2686).

Previously reported from Litoral (Lejoly & Lisowski 1998: 9; Fero 2012: 71) and from Río Muni, without any precise locality (Del Val 1942: 72; Guinea 1946: 282).

Anonidium letestui Pellegr. in Bull. Soc. Bot. France 94: 258 (1948)

EN Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Centro Sur: Akurenam, *Del Val s.n.* (MA-696897); Litoral: Bata-Niefang, *Carvalho* 5731 (MA-599358).

Previously reported from Centro Sur and Litoral (Fero 2012: 72).

Anonidium mannii (Oliv.) Engl. & Diels in Notizbl. Königl. Bot. Gart. Berlin 3(23): 56 (1900)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Wele Nzas: région de Añisok, au-dessus du village Nsuameyong, montée sur inselberg

Akuom, *Lisowski M-343* (BATA).

Previously reported from Centro Sur (Guinea 1946: 141), Wele Nzas (Lejoly & Lisowski 1998: 9) and from Río Muni, without any precise locality (Wilks & Issembé 2000: 104; Guinea 1946: 281; Fero 2012: 75).

Artabotrys aurantiacus Engl. in Notizbl. Königl. Bot. Gart. Berlin 2(17): 300 (1899)
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, transect de Monte Alén, *Lejoly 94/157* (BATA)

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 9).

Artabotrys jacques-felicis Pellegr. in Bull. Soc. Bot. France 97: 15 (1965)
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: inselberg Dumu, *Lejoly 99/324* (MA-621691).

Fero (2012: 77) provided the first record of this species from Equatorial Guinea.

Artabotrys letestui Pellegr. in Bull. Soc. Bot. France 94: 255 (1948)
NE Native
Tropical Africa. Guineo-Congolian Region (Congolian Province).

Wele Nzas: inselberg Piedra Nzas, *Lejoly 99/206* (BATA); Piedra Nzas, *Esono 14* (BATA-105).

Fero (2012: 77-78) provided the first record of this species from Equatorial Guinea.

Artabotrys thomsonii Oliv., Fl. Trop. Afr. 1: 28 (1868)
NE Native
Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni, without any precise locality (Le Thomas 1969: 137). We have not found any herbarium specimen supporting this record, nonetheless the distribution range and ecological requirements of the species makes its presence in the country reliable.

Boutiquea platypetala (Engl. & Diels) Le Thomas in Adansonia, sér. 2, 5: 532 (1965)
VU Native
Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Senye -Mitom-Emangós, *Carvalho 6403* (MA-620767).

Previously reported from Litoral (Fero 2012: 79).

Cananga odorata (Lam.) Hook.f. & Thomson, Fl. Ind. 1: 130 (1855)

LC Naturalized

Originally from Malesia and Australia, cultivated and naturalized in tropical America and Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Litoral: Bata, *Lisowski s.n.* (BATA)

Previously reported from Litoral (Lejoly & Lisowski 1998: 9) and from Río Muni, without any precise locality (Del Val 1942: 72; Guinea 1946: 283; Fero 2012: 85).

Cleistopholis glauca Pierre ex Engl. & Diels in Monogr. Afrik. Pflanzen-Fam. 6: 35 (1901)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bikukbinii, *Wilks 3552* (BATA, WAG-137752); Bata-Alepe, *Carvalho 5745* (MA-599057).

Previously reported and from Litoral (Fero 2012: 86) Río Muni, without any precise locality (Guinea 1946: 281; Wilks & Issembé 2000: 102).

Cleistopholis patens (Benth.) Engl. & Diels in Monogr. Afrik. Pflanzen-Fam. 6: 35 (1901)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Sendje, *Carvalho 6297* (MA-642119).

Previously reported from Litoral (Lejoly & Lisowski 1998: 9; Fero 2012: 87) and from Río Muni, without any precise locality (Guinea 1946: 283; Wilks & Issembé 2000: 102).

Cleistopholis staudtii (Engl. & Diels) Engl. & Diels in Monogr. Afrik. Pflanzen-Fam. 6: 35 (1901)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously and from Río Muni, without any precise locality (Guinea 1946: 281; Fero 2012: 87). We have not found any herbarium specimen supporting this report. The distribution range of the species makes its presence in Río Muni reliable.

Duguetia barteri (Benth.) Chatrou, Changing Gen. Syst. Stud. Neotrop. W. Afr. Annonaceae: 66 (1998)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Niefang, *Senterre & Ngomo s.n.* (BRLU). Kie Ntem: Aconangui, road to Eboloua, *Tessmann 922* (K?, B?)

Previously reported from Kie Ntem (Chatrou & Repetur 1998: 67; Fero 2012: 88). We have not found any herbarium specimen supporting the Kie Ntem citation, they could have been destroyed during World War II. Nonetheless the presence of this species in this province is quite reliable.

Duguetia confinis (Engl. & Diels) Chatrou, Changing Gen. Syst. Stud. Neotrop. W. Afr. Annonaceae: 67 (1998)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Ndote Nord, Jandje, *Lisowski M-349* (BATA).

Previously reported from Centro Sur (Guinea 1946: 141), Litoral (Lejoly & Lisowski 1998: 10) and Río Muni, without any precise locality (Guinea 1946: 281; Mas-Guindal 1944: 60; Fero 2012: 88).

Duguetia staudtii (Engl. & Diels) Chatrou, Changing Gen. Syst. Stud. Neotrop. W. Afr. Annonaceae: 70 (1998)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Monte Alén, transect de Ncumekie, *Lejoly 95/176T2* (BATA). Litoral: Bata-Niefang, *Carvalho 5737* (MA-599362, WAG-143138); Bata-Monson, *Carvalho 4783* (MA-597926, MO). Río Muni: SINOSA, *Azizet Issembé 53* (BATA).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 10) and Litoral (Fero 2012: 89).

Greenwayodendron glabrum Lissambou, O.J.Hardy & Couvreur in PhytoKeys 114: 66 (2018)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: SW from Monte Alén National Park, on the Mosumo Ecofac transect at 500 m from the beginning of the ride, *Senterre 171* (BRLU, LBV, MO); SW from Monte Alén National Park, 200 m S of Transecto Ecofac de Mosumo at 1620 m from the start of the trail, *Senterre 697* (BRLU, LBV, MO).

Previously reported from Centro Sur (Lissambou *et al.* 2018: 70).

Greenwayodendron suaveolens (Engl. & Diels) Verdc. in Adansonia, sér. 2, 9(1): 90 (1969)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Monte Alén, *Ngomo* 342 (BATA). Litoral: Bata-Monson-Dibolo, *Carvalho* 4929 (MO, WAG-142023), *Carvalho* 4829 (MA-597749, MO, WAG-1433882); Bata-Senge, *Carvalho* 6069 (MA-785393), 6420 (MA-620511), 6474 (MA-620820).

Previously reported from Centro Sur (Fero 2012: 96; Lissambou *et al.* 2018: 83), Litoral (Fero 2012: 96) and from Río Muni, without any precise locality (Mas-Guindal 1944: 61; Guinea 1946: 281; Wilks & Issembé 2000: 116).

Hexalobus crispiflorus A.Rich. in Sagra, Hist. Fis. Cuba, Bot. 10: 43 (1845)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni, without any precise locality (Wilks & Issembé 2000: 118; Fero 2012: 97). We have not found any herbarium specimen supporting this report, nonetheless the distribution range and ecological requirements of the species makes its presence in the studied area reliable.

Hexalobus salicifolius Engl. in Monogr. Afrik. Pflanzen-Fam. 6: 57 (1901)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Río Muni, without any precise locality (Guinea 1946: 281; Fero 2012: 97). We have not found any herbarium specimen supporting this report, nonetheless the distribution range and ecological requirements of the species makes its presence in Río Muni reliable.

Isolona hexaloba Pierre ex Engl. & Diels in Monogr. Afrik. Pflanzen-Fam. 6: 82 (1901)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Río Muni, without any precise locality (Wilks & Issembé 2000: 106; Fero 2012: 103). We have not found any herbarium specimen supporting this report, nonetheless the distribution range and ecological requirements of the species makes its presence in Río Muni reliable.

Isolona thonneri (De Wild. & T.Durand) Engl. & Diels in Monogr. Afrik. Pflanzen-Fam. 6: 83 (1901)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: inselberg Dumu, *Obama & Lejoly 524* (BATA, WAG).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 10; Fero 2012: 103, sub *I. letestui*).

Isolona zenkeri Engl. in Notizbl. Königl. Bot. Gart. Berlin 2 (17): 301 (1899)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: région d'Anisok, Nzuamayong, *Lisowski M-715* (BATA-95).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 10; Fero 2012: 103).

Meiocarpidium oliverianum (Baill.) D.M.Johnson & N.A.Murray in PhytoKeys 97: 221 (2018)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral; Bata-Mbini, *Carvalho 6051* (MA-618940, WAG-143197); 6225 (MA-620361); Engong-Jandje, *Lejoly & Van Asbroeck 14* (BATA); Jandje-Engong, *Lejoly & Elad 98/177* (BATA). Wele Nzas: Mbut, *Pérez Viso 3682* (MA-785391).

Previously reported from Litoral (Le Thomas 1969: 266; Oliver 1868: 36; Fero 2012: 104) and Río Muni, without any precise locality (Guinea 1946: 281).

Monanthotaxis cauliflora (Chipp) Verdc. in Kew Bull. 25(1): 30 (1971)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye (Senge), *Carvalho 6208* (MA-619238); Mount John, River Konqui, *Mann 1782* (A, K).

Previously reported from Litoral (Le Thomas 1969: 218).

Monanthotaxis diclina (Sprague) Verdc. in Kew Bull. 25(1): 31 (1971)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Mbini, *Carvalho 6365* (MA-620606).

Previously reported from Litoral only by Fero (2012: 110)

Monanthotaxis dielsiana (Engl.) P.H.Hoekstra in Taxon 66(1): 14 (2017)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: SO P. N. Monte Alén, *Senterre 764* (BRLU).

Not previously reported from Equatorial Guinea.

Monanthotaxis enghiana (Diels) P.H.Hoekstra in Taxon 66(1): 14 (2017)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P. N. Monte Alén, *Lejoly 94/122T1* (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 9, sub *Friesiodielsia enghiana*).

Monanthotaxis filamentosa (Diels) Verdc. in Kew Bull. 25(1): 31 (1971)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: transecto Monte Chocolate, *Desmet 14* (BRLU, WAG); P.N. Monte Alén, *Senterre 3408* (BRLU).

Not previously reported from Equatorial Guinea.

Monanthotaxis letestui Pellegr. in Notul. Syst. (Paris) 14: 75 (1950)

NE Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Wele Nzas: région d'Anisok, inselberg Akuom., *Lisowski M-717* (BATA).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 10).

Monanthotaxis montana (Engl. & Diels) P.H.Hoekstra in Taxon 66(1): 15 (2017)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P. N. Monte Alén, *Senterre 2016, 3407* (BRLU).

Not previously reported from Equatorial Guinea.

Monanthotaxis scamnopenetala (Exell) P.H.Hoekstra in Taxon 66(1): 15 (2017)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye (Senge), *Carvalho* 6229 (MA-620358).

Not previously reported from Equatorial Guinea.

Monodora angolensis Welw. in Ann. Cons. Ultramarino, Parte nao Off. (Apont.). Ser. 1.: 587 (1859)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: inselberg de Bikurga, *Stévant* 1517 (BRLU). Wele Nzas: inselberg de Piedra Nzas, *Nguema Miyono* 506 (BRLU); region d'Anisok, *Lisowski M-715* (BRLU).

Previously reported from Centro Sur (Couvreur 2008: 203; 2009: 91), Wele Nzas (Couvreur 2008: 203) and from Río Muni, without any precise locality (Fero 2012: 114).

Monodora crispata Engl. in Notizbl. Königl. Bot. Gart. Berlin 2: 301 (1899)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senge-Río Benito, *Carvalho* 4980 (MA-598912, MO, WAG-142240); Bata-Senye (Senge), *Carvalho* 6181 (MA-619172).

Previously reported from Litoral (Couvreur 2008: 209; 2009: 98; Fero 2012: 114).

Monodora myristica (Gaertn.) Dunal in Mon. Anon. 80 (1817)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, *Obama & Lejoly* 685 (BATA-112); N du P.N. Monte Alén, *Senterre* 17501 (BRLU); P.N. Monte Alén, *Lejoly* 99/33T1 (BRLU). Litoral: estuaire du Río Muni, Mitemele, *Nguema* 121 (BATA).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 10; Couvreur 2008: 236; Fero 2012: 117), Litoral (Guinea 1946: 154; Fero 2012: 117), Wele Nzas (Guinea 1946: 143) and Río Muni, without any precise locality (Del Val 1942: 49; Fero 2012: 117).

Monodora tenuifolia Benth. in J. Proc. Linn Soc., Bot. 5: 72 (1861)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Wele Nzas: inselberg Akuom, Nsuamayong, *Obama & Lejoly* 644 (BATA-113); Nkolentangan, *Tessmann* 314 (K).

Previously reported from Wele Nzaz (Lejoly & Lisowski 1998: 10; 1999: 119; Couvreur 2008: 244; Fero 2012: 117) and Río Muni, without any precise locality (Mas-Guindal 1944: 58; Guinea 1946: 282; Fero 2012: 117).

Monodora undulata (P.Beauv.) Couvreur, Revel. Secrets African Annonac.: Isolona & Monodora: 246 (2008)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Pembe, *Carvalho 4864* (MA-597377, MO, WAG-142068).

Previously reported from Litoral (Guinea 1946: 154; Fero 2012: 118).

Monodora zenkeri Engl. in Notizbl. Königl. Bot. Gart. Berlin 2(17): 301 (1899)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Guinea 1946: 141) and Río Muni, without any precise locality (Guinea 1946: 283; Fero 2012: 118). We have not found any herbarium specimen supporting these reports, nonetheless the distribution range and ecological requirements of the species makes its presence in the studied region reliable.

Neostenanthera gabonensis (Engl. & Diels) Exell in J. Bot. 73 (Suppl.): 6 (1935)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: 7 km E.N.E. d'Okuamkos [Ocuamcos], *Wilks 1745* (WAG-198221).

Previously reported from Centro Sur (Fero *et al.* 2014: 21).

Neostenanthera myristicifolia (Oliv.) Exell in J. Bot. 73 (Suppl.): 6 (1935)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Kie Ntem: Eloan: carretera Ebibeyín-Mongomo, *Pérez Viso 4253* (MA-785387).

Previously reported from Kie Ntem (Fero *et al.* 2014: 26).

Neostenanthera robsonii Le Thomas in Aubréville & al. (eds.), Fl. Gabon 16: 196 (1969)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, *Senterre & al. 2389* (BRLU). Wele Nzaz: Eviam-

Aconibe, *Pérez Viso* 2089 (MA-714625).

Previously reported from Centro Sur (Fero *et al.* 2014: 29) and Wele Nzas (Fero *et al.* 2014: 29).

Piptostigma glabrescens Oliv. in J. Linn. Soc., Bot. 8: 159 (1865)

NT Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Kongué River, *G. Mann* 1792 (P).c

Previously reported from Litoral (Ghogue *et al.* 2017: 191)

Piptostigma macranthum Mildbr. & Diels in Bot. Jahrb. Syst. 53: 442 (1915)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Ayamiken, *Azizet Issembé* 64 (BATA-2292); Bata-Senye (Senge), *Carvalho* 6104 (MA-618998); Bata-Niefang, *Carvalho* 5843 (MA-609128).

Previously reported from Litoral (Fero 2012: 122).

Piptostigma multinervium Engl. & Diels in Monogr. Afrik. Pflanzen-Fam. 6: 55 (1901)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senge, *Carvalho* 6196 (MA-619240, MO-5287344). Wele Nzas: Aconibe, *Obama* 302 (BATA).

Previously reported from Litoral and Wele Nzas (Fero 2012: 122).

Polyceratocarpus parviflorus (Baker.f.) Ghesq. in Rev. Zool. Bot. Africaines 32: 140 (1939)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Niefang, *Carvalho* 5830 (MA-609827).

Previously reported from Litoral (Fero 2012: 127)

Uvaria annickiae Jongkind in Blumea 47(2): 341 (2002)

NE Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Centro Sur: P.N. Monte Alén, Esamalang, *Pérez Viso* 530 (MA-714626).

Previously reported from Centro Sur (Fero 2012: 130).

Uvaria bipindensis Engl. in Notizbl. Königl. Bot. Gart. Berlin 2: 292 (1899)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bome, *Carvalho* 6047 (MA-785388).

Previously reported from Centro Sur (Fero 2012: 130; Lachenaud *et al.* 2018: 399).

Uvaria clavata Pierre ex Engl. & Diels in Monogr. Afrik. Pflanzen-Fam. 6: 21 (1901)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bome, *Carvalho* 4700 (MA-597328, MO).

Previously reported from Litoral (Lejoly & Lisowski 1998: 10; Fero 2012: 130).

Uvaria klaineana Engl. & Diels in Notizbl. Königl. Bot. Gart. Berlin 2(17): 294 (1899)

NE Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Centro Sur: Bata-Monte Alén, *Carvalho* 5113 (MA-610106, MO, WAG-142378).

Litoral: Bata-Senye (Senge)-Mitom-Emangós, *Carvalho* 6494 (MA-620708).

Previously reported from Centro Sur and Litoral (Fero 2012: 133).

Uvaria scabrida Oliv. in Oliv. (ed.), Fl. Trop. Afr. 1: 21 (1868)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, *Ngomo* 268 (BATA). Litoral: Bata-zona de Bomudi, *Carvalho* 5458 (MA-610085, MO, WAG); Bata-Dibolo, *Carvalho* 4899 (MA-597896, MO). Wele Nzas: inselberg Dumu, *Lejoly* 99/362 (MA-621796).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 11; Fero 2012: 133), Litoral and Wele Nzas (Fero 2012: 133).

Uvaria versicolor Pierre ex Engl. & Diels in Monogr. Afrik. Pflanzen-Fam. 6: 16 (1901)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Corisco, *Velayos et al.* 9976 (MA-705029); Bata-Praderas de Bome, *Carvalho*

5919 (MA-609906).

Previously reported from Litoral (Fero 2012: 134).

Uvariastrum pierreanum Engl. in Monogr. Afrik. Pflanzen-Fam. 6: 32 (1901)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P. N. Monte Alén, transecto de Monte Chocolate, *Lejoly 95T/L3193* (BRLU). Litoral: Bata-Senye (Senge), *Carvalho 6106* (MA-619397).

Previously reported from Litoral (Fero 2012: 137) and from Río Muni, without any precise locality (Guinea 1946: 281)

Uvariadendron connivens (Benth.) R.E.Fr. in Acta Horti Berg. 10: 55 (1930)

NT Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea (1946: 156; Fero 2012: 138). We have not found any herbarium specimen supporting these reports, nonetheless the distribution range and ecological requirements of the species makes its presence in the studied territory reliable.

Uvariopsis congolana (De Wild.) R.E.Fr. in Ark. Bot., Ser. 2, 3: 42 (1955)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Monte Alén, *Lejoly 93/387* (BATA, BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 11).

Uvariopsis korupensis Gereau & Kenfack in Adansonia, sér. 3, 22(1): 41 (2000)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Monts de Cristal, Okuamkos, *Wilks 1784* (MO, WAG-198252), *1818* (P-198275, WAG-198275).

Previously reported from Litoral (Fero 2012: 147).

Uvariopsis vanderystii Robyns & Ghesq. in Ann. Soc. Sci. Bruxelles, sér. B, 53: 64, 321 (1933)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P. N. Monte Alén, río Laña, Misergue, *Senterre & Obiang* 3272 (BATA, BRLU).

Previously reported from Centro Sur (Fero 2012: 147).

Uvariopsis zenkeri Engl. in Notizbl. Königl. Bot. Gart. Berlin 2: 298 (1899)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Senye (Senge), *Carvalho* 6126 (MA-619233).

Previously reported from Litoral (Fero 2012: 147).

Xylopia acutiflora (Dunal) A.Rich. in Sagra, Hist. Phys. Cuba, Pl. Vasc.: 55 (1841)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Congolian Province).

Litoral: Bata-Bome, río Boara, *Carvalho* 4853 (MA-597912, MO, WAG-142051); Bata, fleuve Ekuka, *Lisowski M-1589* (BATA); Bata, praderas de Bome, *Carvalho* 6245 (MA-620267).

Previously reported from Litoral (Fero 2012: 150).

Xylopia aethiopica (Dunal) A.Rich. in Sagra, Hist. Phys. Cuba, Pl. Vasc.: 53 (1841)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Centro Sur: área de Evinayong, poblado de Tequete, *López Serrano* 210525, 210526 (MA); P.N. Monte Alén, *Pérez Viso* 92 (MA-711788). Litoral: Corisco, *Pérez Viso* 1906 (MA-785390); Bata-Punta Mbonda, *Carvalho* 4746 (MA-597963, MO, WAG-141913); Mboete, *Eneme* 418 (BATA, WAG-191666); chantier vers Monte Mitra, *Obama* 309 (BATA); Bikukbinii [Bicubini], *Wilks* 3557 (BATA, WAG); Bata-Bolondo, *Carvalho* 4751 (MA-597314, MO, WAG-141918); Bata-Bome, *Carvalho* 5396 (MA-598453, MO, WAG-142783). Río Muni: camp de SOFOGE, *Azizet Issembé* 68, 69 (BATA).

Previously reported from Centro Sur (Del Val 1942: 72; Fero 2012: 150), Litoral (Fero 2012: 150; Johnson & Murray 2018: 83; Lejoly & Lisowski 1998: 11) and Río Muni, without any precise locality (Mas-Guindal 1944: 66; Guinea 1946: 282; Wilks & Issembé 2000: 120; Fero 2012: 150; Johnson & Murray 2018: 83).

Xylopia hypolampra Mildbr. in Notizbl. Königl. Bot. Gart. Berlin 27: 18 (1913)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P. N. Monte Alén, río Uolo, *Senterre & al.* 2223-1 (BRLU).

Previously reported from Centro Sur (Fero 2012: 153) and from Río Muni, without any precise locality (Wilks & Issembé 2000: 110).

Xylopia longipetala De Wild. & T.Durand in Ann. Mus. Congo Belge. Bot., Ser. 2 1(1): 4 (1899)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Previously reported from Río Muni, without any precise locality (Mas-Guindal 1944: 66; Guinea 1946: 282). We have not found any herbarium specimen supporting these records, nonetheless the distribution range and ecological requirements of the species makes its presence in the studied region reliable.

Xylopia pynaertii De Wild. in Ann. Mus. Congo Belge. Bot., Ser. 5, 3: 79 (1909)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: chantier forestier à l'Est de Cogo, *McPherson 14003* (LBV).

Not previously reported from Equatorial Guinea.

Xylopia quintasii Engl. & Diels in Monogr. Afrik. Pflanzen-Fam. 6: 62 (1901)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Niefang, *Carvalho 5719* (MA-599258); Okuamkos, *Wilks 1744* (LBV, WAG-198220).

Previously reported from Río Muni, without any precise locality (Mas-Guindal 1944: 66; Guinea 1946: 282; Johnson & Murray 2018: 73)

Xylopia rubescens Oliv. in Oliv. (ed.), Fl. Trop. Afr. 1: 30 (1868)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Litoral: Bata-Senye (Senge), *Carvalho 6187* (MA-619167); Bata-Mbini-Boete-río Ayé, *Carvalho 5971* (MA-609104). Río Muni: [without locality], *Obama 294* (BATA).

Previously reported from Litoral (Fero 2012: 154), from Wele Nzas (Johnson & Murray

2018: 53) and Río Muni, without any precise locality (Del Val 1942: 72; Guinea 1946: 282; Wilks & Issembé 2000: 114).

Xylopia staudtii Engl. & Diels in Notizbl. Königl. Bot. Gart. Berlin 2: 298 (1899)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Monte Alén, *Obama* 954 (BATA, WAG-223025). Litoral: Mikan (Machinda), *Azizet Issembé* 19 (WAG-137707); chantier forestier à l'Est de Cogo, *McPherson* 14003 (LBV, MO-4011213).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 11; Fero 2012: 154), Litoral (Fero 2012: 155; Johnson & Murray 2018: 60) and Río Muni, without any precise locality (Wilks & Issembé 2000: 114).

Xylopia talbotii Exell in J. Bot. 69: 98-99 (1931)

DD Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bebai, *Tessmann* 747 (K).

Previously reported from Litoral (Johnson & Murray 2018: 205).

Xylopia villosa Chipp in Bull. Misc. Inform. Kew 1923: 183 (1923)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Niefang, *Carvalho* 5907 (MA-609836).

Previously reported from Litoral (Fero 2012: 155).

ARISTOLOCHIACEAE

Aristolochia ringens Vahl, Symb. Bot. (Vahl) 3: 99 (1794)

NE Naturalized

Native to Tropical America, naturalized in Africa, Malaysia, and Australia. Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Wele Nzaz: Añisok, *Pérez Viso* 4175 (MA-687064).

Previously reported from Wele Nzaz (Fero 2012: 168).

Pararistolochia goldieana (Hook.f.) Hutch. & Dalziel, Fl. West. Trop. Afr. 1, 1: 77 (1927)

VU Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-

Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Wele Nzas (Guinea 1946: 149; Fero 2012: 169-170). We have not found any herbarium specimen supporting these records, nonetheless, the distribution range and ecological requirements of the species makes its presence in the studied region reliable.

Pararistolochia macrocarpa (Duch.) Poncy in *Adansonia*, sér. 2, 17(34): 488 (1978)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye (Senge), *Carvalho* 6259 (MA-620318).

Previously reported from Litoral (Hutchinson & Dalziel 1928: 24; Engler 1912: 413; Poncy 1978: 490; Fero 2012: 170) and Río Muni, without any precise locality (Hutchinson & Dalziel 1928: 77; Guinea 1946: 158, 276; Hepper 1954: 79).

Pararistolochia promissa (Mast.) Keay in *Kew Bull.* 1952: 160 (1952)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Monte Alén, *Ngomo* 89 (BATA).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 16; Fero 2012: 170) and Litoral (Guinea 1946: 157).

Pararistolochia triactina (Hook.f.) Hutch. & Dalziel, *Fl. W. Trop. Afr.* 1, 1: 77 (1927)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Corisco Bay, Ilobi Island, *Mann* 1831 (K-350303); Etembue, *Eneme & Lejoly* 70 (BATA); Ndote Norte, Jandje, *Lisowski* M-110 (BATA); Bata-zona de Bomudi, *Carvalho* 5360 (MA-599673, MO); Bata-Asonga, *Carvalho* 5204 (MA-598160, MO).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 16), Litoral (Guinea 1946: 158; Poncy 1978: 480; Lejoly & Lisowski 1998: 16; Fero 2012: 171), Wele Nzas (Guinea 1946: 149) and Río Muni, without any precise locality (Guinea 1946: 276).

Pararistolochia zenkeri (Engl.) Hutch. & Dalziel in *Bull. Misc. Inform. Kew* 1928: 24 (1928)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Eviam, carretera forestal de Bata a Niefang, *Pérez Viso* 2638 (MA-833221)

Previously reported from Centro Sur (Fero 2012: 171)

HERNANEIACEAE

Hernandia beninensis Welw. ex Henriq. in Bol. Soc. Brot. 10: 155 (1892)

NT Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni, without any precise locality (Guinea 1946: 284; Fero 2012: 201-202). We have not found any herbarium specimen supporting this record, nonetheless, the distribution range and ecological requirements of the species makes its presence in the studied region reliable.

Illigera pentaphylla Welw. in Trans. Linn. Soc. London 27(1): 26 (1869)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Monte Alén, *Lisowski 1357* (BATA). Kie Ntem: Bata-Micomeseng, *Carvalho 6387* (MA-634140). Wele Nzaz: inselberg Asoc, *Obama & Lejoly 466* (BATA); Ovong, *Lejoly & Elad 98/004* (BATA).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 65), Kie Ntem (Fero 2012: 202), Wele Nzaz (Lejoly & Lisowski 1998: 65; 1999: 120; Fero 2012: 202) and Río Muni, without any precise locality (Keay 1952: 158; Hepper 1954: 59; Fero 2012: 202).

LAURACEAE

Beilschmiedia dinklagei (Engl.) Robyns & R.Wilczek in Bull. Jard. Bot. État 19: 494 (1949)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Distrito de Mbini, *Nguema Miyono et al. D2* (WAG- 1694944, 1694945, 1694946).

Not previously reported from Equatorial Guinea.

Beilschmiedia preussii Engl. in Bot. Jahrb. Syst. 26: 387 (1899)

CR Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Guinea 1946: 158). We have not found any herbarium specimen supporting this record, nonetheless the distribution range and ecological range of the species makes its presence in the continental region of Equatorial Guinea reliable.

Cassytha filiformis L., Sp. Pl.: 35 (1753)

NE Native

Native to the Tropics and Subtropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Bioko.

Litoral: Ndote Norte, Jandye, *Lisowski M-94* (BRLU); Bata, quartier N., *Lisowski M-190* (BRLU); Espigon, pradera de Baga, *Eneme 134* (BRLU); Bata, *Nguema Miyono 1145* (BRLU); playa de Utonde, *Barberá et al. 230* (MA-843808); río Campo, desembocadura del río Campo, *Pérez Viso 2146* (MA-833218), *2478* (MA-833219); Bata, *Pérez Viso 1456* (MA-833217); Ecucu, *Del Val s.n.* (MA-715312); Utonde, *Guinea 327-814* (MA-715299), *814* (MA-715298).

Previously reported from Litoral (Lejoly & Lisowski 1998: 70; Lejoly & Lisowski 1999a: 101; Guinea 1946: 170) and Río Muni, without any precise locality (Guinea 1946: 284).

Cinnamomum verum J.Presl in Přir. Rostlin 2(2): 36 (1825)

NE Naturalized

Native to Sri Lanka, cultivated and naturalized elsewhere in the Tropics. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni, without any precise locality (Guinea 1946: 283). We have not found any herbarium specimen of this species collected in Equatorial Guinea; the distribution range of the species makes its presence in the country reliable.

Hypodaphnis zenkeri (Engl.) Stapf. in Oliv. (ed.), Fl. Trop. Afr. 6(1): 185 (1909)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Niefang, *Carvalho 5776* (MA-599093).

Previously reported from Wele Nzas (Guinea 1946: 143).

Persea americana Mill., Gard. Dict. (ed. 8): s.n. (1768)

LC Naturalized

Native to C. America, cultivated worldwide and frequently naturalized in the Tropics and Subtropics. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Litoral: área de Machinda, poblado de Asesok, *López Serrano 280301, 280302* (MA). Río Muni: *Eneme 399* (WAG-1693263).

Previously reported from Río Muni, without any precise locality (Guinea 1946: 283).

MONIMIACEAE

Xymalos monospora (Harv.) Baill. in Bull. Mens. Soc. Linn. Paris I: 650 (1887)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Previously reported from Río Muni, without any precise locality (Guinea 1946: 283). We have not found any herbarium specimen supporting this record, nonetheless, the distribution range and ecological requirements of the species makes its presence in the studied region reliable.

MYRISTICACEAE

Coelocaryon preussii Warb. in Ber. Deutsch. Bot. Ges. 13: 85 (1895)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Monte Alen, *Lejoly 95T/L4.167* (BATA, BRLU). Litoral: Bikukbinii, *Wilks3551* (WAG-137726); Bata-Niefang entre río Sama e río Comayá, *Carvalho 5652* (MA-598552, MO, WAG-143113).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 90), Litoral (Lejoly & Lisowski 1998: 90; Fero 2012: 158; Guinea 1946: 154) and Río Muni, without any precise locality (Guinea 1946: 283).

Pycnanthus angolensis (Welw.) Warb. in Notizbl. Königl. Bot. Gart. Berlin 1: 100 (1895) subsp. **angolensis**

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, cataratas del río Laña, Mosumu, *Pérez Viso 1601* (MA-687161). Kie Ntem: Nfuiñ, *Cabezas & al. 1371* (MA-831799); Akam, camino a Oyò, *Fero & Esono 179* (MA-808942). Litoral: área de Mbini, poblado de Bilen, Bitica y Mboete, *López Serrano 190431, 190431bis, 190432* (MA); Miboman carretera Bata-Movo, *Castelo et al. s.n.* (MA-319789).

Previously reported from Centro Sur (Guinea 1946: 142; Fero 2012: 162), Kie Ntem (Fero 2012: 162), Litoral (Lejoly & Lisowski 1998: 90; Guinea 1946: 154; Fero 2012: 162), Wele Nzas (Lejoly & Lisowski 1998: 90; Guinea 1946: 143) and Río Muni, without any precise locality (Del Val 1942: 38; Mas-Guindal 1944: 62; Guinea 1946: 283; Hepper 1954: 61; Hutchinson & Dalziel 1928: 64; Guinea 1946: 283).

Scyphocephalum mannii (Benth.) Warb. in Notizbl. Königl. Bot. Gart. Berlin 1: 98 (1895)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Niefang, *Castelo et al. s.n.* (MA-319737). Litoral: Bata-Senye, *Carvalho 5003* (MA-598932, MO, WAG-142267, WAG-142268).

Previously reported from Centro Sur (Fero 2012: 163), Litoral (Guinea 1946: 154; Fero 2012: 163), Wele Nzas (Guinea 1946: 143) and Río Muni, without any precise locality (Guinea 1946: 283; Fero 2012: 163).

Staudtia kamerunensis Warb. in Nov. Actorum Acad. Caes. Leop.-Carol. German. Nat. Cur. 68: 241 (1897)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 154), Wele Nzas (Guinea 1946: 143) and Río Muni, without any precise locality (Guinea 1946: 283). We have not found any herbarium specimen supporting these records, nonetheless, the distribution range and ecological requirements of the species makes its presence in the studied region reliable.

PIPERACEAE

Peperomia bangroana C.DC. in J. Bot. 4: 134 (1866)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Wele Nzas: Añisok-Mongola, *Pérez Viso 3721* (MA-655095).

Previously reported from Wele Nzas (Fero 2012: 179).

Peperomia fernandopoiana C.DC. in J. Bot. 4: 134 (1866)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Bikurga, *Lisowski M-1508* (BATA, BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 99) and Wele Nzas (Guinea 1946: 151) and from Río Muni, without any precise locality (Fero *et al.* 2003: 46; Fero 2012: 180).

Peperomia laeteviridis Engl. in Bot. Jahrb. Syst. 26: 361 (1899)

VU Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Monte Alen, *Velayos & Pérez Viso 9294* (MA-708878).

Previously reported from Centro Sur (Fero 2012: 181).

Peperomia molleri C.DC. in Bol. Soc. Brot. 10: 154 (1892) subsp. **molleri**

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Centro Sur: Bata-Niefang-Monte Alen, río Otom-Asok, *Carvalho* 5354 (MA-598278, MO, WAG-142725).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 100; Fero *et al.* 2003: 47; Fero 2012: 181) and Wele Nzaz (Lejoly & Lisowski 1998: 100).

Peperomia pellucida (L.) Kunth, Nov. Gen. Sp. 1: 64 (1816)

NE Native

Tropical and Subtropical America and Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Litoral: Ndote Sud, *Lisowski* M-564 (BATA, BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 100) and Río Muni, without any precise locality Guinea (1946: 271).

Piper capense L.f., Suppl. Pl.: 90 (1782)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Centro Sur: Bata-Monte Alen, río Oton Asok, *Carvalho* 5331 (MA-598178, MO, WAG).

Previously reported from Centro Sur (Fero *et al.* 2003: 48; Fero 2012: 187) and Río Muni, without any precise locality (Verdcourt 1996: 5).

Piper guineense Schumach. & Thonn., Beskr. Guin. Pl.: 19 (1827)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, *Pérez Viso* 95 (MA-655093, MO-5599664, WAG).

Litoral: área de Machinda, poblado de Ncon-Nbia (Paka), *López Serrano* 020415, 020416, 020417 (MA); Bata-Niefang, *Carvalho* 5548 (MA-598581, MO, WAG), 5590 (MA-598813, MO, WAG). Wele Nzaz: Bimbile, *Guinea* 152-1106 (MA-715300). Río Muni: *Esono & Ndong* 557 (MA-804262).

Previously reported from Centro Sur (Fero *et al.* 2003: 48; Fero 2012: 188; Guinea 1946: 142, 184i, 271), Litoral (Lejoly & Lisowski 1998: 100; Fero 2012: 188; Guinea 1946: 155), Wele Nzaz (Lejoly & Lisowski 1998: 100; Guinea 1946: 149, 151) and Río Muni, without any precise locality (Del Val 1942: 48; Guinea 1946: 271).

Piper umbellatum L., Sp. Pl.: 30 (1753)

NE Native

Native to Tropical America, naturalized in Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somali-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known in Annobón and Bioko.

Centro Sur: P.N. Monte Alén, *de Wilde* 12007 (BATA, WAG); Bisun, carretera de Niefang a Evinayong, *Pérez Viso* 3427 (MA-655087); Bindung, *Pérez Viso* 3781 (MA-655086, WAG); P.N. Monte Alén, *Pérez Viso* 54 (MA-655092, MO-5599663, WAG); P.N. Monte Alén, Ocuam, *Pérez Viso* 618 (MA-655090, WAG); P.N. Monte Alén, Misergue-Churu, *Pérez Viso* 1641 (MA-655089, WAG); carretera forestal Bata-Niefang, Nhogo Ebaiñ, *Pérez Viso* 2671bis (MA-655088). Kie Ntem: Ngomgom, *Barberá & al.* 130 (MA-831663). Litoral: área de Mbini, poblado de Mangala y Ncu-Esis, *López Serrano* 130426, 130427, 130428 (MA); área de Machinda, poblado de Asesok, *López Serrano* 280310, 280311, 280312 (MA); Bata-Kogo, *Pérez Viso* 1846 (MA-655091). Río Muni: *Eneme* 226 (WAG-271523), 371 (BATA, WAG-191746).

Previously reported from Centro Sur (Guinea 1946: 142, 184i, 271; Fero *et al.* 2003: 48, 49; Fero 2012: 189; Lejoly & Lisowski 1998: 100), Litoral (Fero *et al.* 2003: 49; Fero 2012: 189; Lejoly & Lisowski 1998: 100; Guinea 1946: 157), Wele Nzaz (Guinea 1946: 151) and Río Muni, without any precise locality (Mas-Guindal 1944: 61).

MONOCOTS

ALISMATACEAE

Limnophyton fluitans Graeb. in Bot. Jarhb. Syst. 41: 274 (1908)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Mosumo, *Obama & Lejoly* 678 (BATA); Monte Alén, *D. Mbomio Ngomo* 189 (BATA); Mosumo, *Aedo & al.* 5116 (MA-706483).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 140; Velayos *et al.* 2015: 79).

AMARYLLIDACEAE

Allium artemisietorum Eig & Feinbrun in Palestine J. Bot., Jerusalem Sér. 3: 18 (1943)

NE Introduced

Originally from the East Mediterranean Region, broadly cultivated.

Previously reported from Río Muni, without any precise locality (Guinea 1946: 255).

Allium cepa L., Sp. Pl.: 300 (1753)

NE Introduced

Original from Asia, naturalized worldwide.

Previously reported from Río Muni, without any precise locality (Guinea 1946: 256).

Crinum jagus (J.Thomps.) Dandy in J. Bot. 77: 664 (1939)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Bikurga, *Lisowski M-1574* (BATA, BRLU). Wele Nzaz: Acasakira, *Obama & Lejoly 574* (BATA, BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 140), Litoral (Guinea 1946: 157) and Wele Nzaz (Lejoly & Lisowski 1998: 140), and from Río Muni, without any precise locality (Velayos *et al.* 2018: 126).

Crinum natans Baker in Oliv. (ed.), Fl. Trop. Afr. 7: 393 (1898)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Mosumu, *Pérez Viso 1303* (MA-706485); Mosumo, *Aedo & al. 5117* (MA-689166), *Aedo & al. 5125* (MA-689167). Litoral: Pista Sendje-Bisun, *Cabezas & al. 2111* (MA-884359, MA-884360); Ayamiken, Río Campo, *Pérez Viso 2823* (MA-690392).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 140; Velayos *et al.* 2018: 127), Litoral (Lejoly & Lisowski 1998: 140; Velayos *et al.* 2018: 127; Guinea 1946: 24d, 168k, 288a), Wele Nzaz (Guinea 1946: 151) and Río Muni, without any precise locality (Guinea 1946: 66, 257).

Crinum purpurascens Herb., Amaryllidaceae: 250 (1837)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province,

Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, cerca de Mosumu, *Pérez Viso* 218 (MA-706490); Moka, *Pérez Viso* 329 (MA-709337).

Previously reported from Centro Sur (Velayos *et al.* 2018: 127).

Crinum zeylanicum (L.) L., Syst. Nat., ed. 12 2: 236 (1767)

NE Introduced

Native to Seychelles, SW India and Sri Lanka. Introduced in Tropical Africa. Also known from Bioko.

Centro Sur: Bikurga, *Lisowski M-1403* (BATA, BRLU)

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 140).

Scadoxus cinnabarinus (Decne.) Friis & Nordal in Nord. J. Bot. 23: 64 (1976)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Abang, Niefang, *Pérez Viso* 4232 (MA-702117). Litoral: Corisco, *Velayos & al.* 9956 (MA-706718); Río Campo, carretera de San Joaquín de Adjiaikom hacia Ayamiken, *Pérez Viso* 2508 (MA-702118); Ayamiken, Río Campo, *Pérez Viso* 2847 (MA-690393); Eyan Bot, *Pérez Viso* 3558 (MA-687053).

Previously reported Centro Sur (Velayos *et al.* 2018: 129), Litoral (Velayos *et al.* 2018: 129) and from Río Muni, without any precise locality (Guinea 1946: 257).

Scadoxus multiflorus (Martyn) Raf., Fl. Tellur. 4: 19 (1838)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Centro Sur: Monte Alén, *Lejoly* 95/124 (BATA, BRLU). Litoral: Ayamiken, *Lejoly* 97/30 (BATA, BRLU), *Obama* 16 (BATA, BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 141) and Litoral (Lejoly & Lisowski 1998: 141).

ARACEAE

Anchomanes difformis (Blume) Engl. in DC., Monogr. Phan. 2: 304 (1879)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Kie Ntem: Nfuiñ, *Cabezas & al.* 1340 (MA-831825). Litoral: Mbini, *Velayos & al.* 13446 (MA-884409); Bolondo, *Guinea* 715 (MA-701681) 716 (MA-701650); Corisco, *Pérez Viso* 1888 (MA-701672).

Previously reported from Litoral (Guinea 1946: 157, 176b, 178, 248; *Velayos et al.* 2015: 87).

Anubias barteri Schott, Prodr. Syst. Aroid.: 159 (1860)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Enkumekien [Ncumekie], *Pérez Viso* 1556 (MA-701634); P.N. Monte Alén, Engong, *Pérez Viso* 2651 (MA-701633); P.N. Monte Alén, *Velayos & al.* 9539 (MA-701689). Litoral: Ayamiken, *Lisowski M-907* (BATA, BRLU); Mayang, *Lisowski M-815* (BATA, BRLU).

Previously reported from Centro Sur (*Velayos et al.* 2015: 88), Litoral (Lejoly & *Lisowski* 1998: 141; Guinea 1946: 159) and Wele Nzas (Guinea 1946: 151).

Anubias hastifolia Engl. in Mitt. zu Forschungsr. von Danckelm. 2: 149 (1893)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Mayang, *Lisowski M-856* (BATA, BRLU).

Previously reported from Litoral (Lejoly & *Lisowski* 1998: 141).

Anubias heterophylla Engl. in DC., Monogr. Phan. 2: 435 (1879)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Wele Nzas: Oveng Esandong, *Pérez Viso* 3106 (MA-701687).

Previously reported from Litoral (Guinea 1946: 157), Wele Nzas (*Velayos et al.* 2015: 88) and Río Muni, without any precise locality (Guinea 1946: 249).

Caladium bicolor (Aiton) Vent. in Mag. Encycl. 4(16): 464 (1800)

NE Naturalized

Native to the Neotropic, cultivated and naturalized in the Paleotropic. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Yengüe, Río Campo, *Pérez Viso* 2795 (MA-701668).

Previously reported from Litoral (Lejoly & *Lisowski* 1998: 142; *Velayos et al.* 2015:

89) and Río Muni, without any precise locality (Guinea 1946: 249-250).

Cercestis camerunensis (Ntépé-Nyamè) Bogner in Aroideana 8(3): 73 (1986)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Ayamiken, *Lisowski M-918* (BATA, BRLU), *M-919* (BATA, BRLU)

Previously reported from Litoral (Lejoly & Lisowski 1998: 143).

Cercestis congensis Engl. in Bot. Jahrb. Syst. 15: 448 (1893)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Monte Alén, *Lisowski M-1353* (BATA, BRLU). Litoral: Ayamiken, *Lisowski M-905* (BATA, BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 142) and Litoral (Lejoly & Lisowski 1998: 142).

Cercestis dinklagei Engl. in Bot. Jahrb. Syst. 26: 422 (1899)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Enkumekien [Ncumekie], *Pérez Viso 1563* (MA-687726); P.N. Monte Alén, Engong, *Pérez Viso 800* (MA-689861). Litoral: Sendje, *Pérez Viso 2985* (MA-701719); Bata-Sendje, *Carvalho 6170* (MA-619283); Wele Nzas: Eviam, Aconibe-Acurenem, *Pérez Viso 1804* (MA-701720).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 142; Velayos *et al.* 2015: 90), Litoral (Lejoly & Lisowski 1998: 142; Velayos *et al.* 2015: 90) and Wele Nzas (Guinea 1946: 149; Velayos *et al.* 2015: 90).

Cercestis ivorensis A.Chev. in J. Bot. (Morot) 22: 135 (1909)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Monte Chocolate, al lado de Aconangüi, *Pérez Viso 922* (MA-701636); Niefang, explotación forestal de MATROGUISA, *Pérez Viso 2251* (MA-701686).

Previously reported from Centro Sur (Velayos *et al.* 2015: 90).

Cercestis mirabilis (N.E.Br.) Bogner in Aroideana 8: 73 (1986)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Evinayong, *Guinea* 260 (MA-701699). Litoral: Mbini, Senye I, *Velayos & al.* 13429 (MA-884408).

Previously reported from Centro Sur (Guinea 1946: 64d, 143, 184i, 249; *Velayos et al.* 2015: 90), Kie Ntem (Guinea 1946: 249), Litoral (Lejoly & Lisowski 1998: 143; Guinea 1946: 249) and Wele Nzas (Guinea 1946: 149, 249).

Colocasiasculenta (L.) Schott in Schott & Endl., Melet. Bot.: 18 (1832)

LC Introduced

Native to India and South China, broadly cultivated and naturalized in the tropics, including Africa. Also known from Bioko.

Previously reported from Río Muni, without any precise locality (Guinea 1946: 249). Although we have not found any herbarium specimen supporting this record, the species is widely cultivated all over the country and its ecological requirements make it very likely that it has naturalized near the villages.

Culcasia angolensis Welw. ex Schott in J. Bot. 3: 35 (1865)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Monte Alén, *Lejoly* 93/340 (BATA, BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 142).

Culcasia annetii Ntépé-Nyamè in Bull. Mus. Natl. Hist. Nat., B, Adansonia 1984: 314 (1984)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, *Pérez Viso* 742 (MA-701655).

Previously reported from Centro Sur (*Velayos et al.* 2015: 92).

Culcasia dinklagei Engl. in Bot. Jahrb. Syst. 26: 418 (1899)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, *Velayos & al.* 10022 (MA-703857); Bata-Niefang, Nhogo Ebaiñ, *Pérez Viso* 2712bis (MA-701670); P.N. Monte Alén, *Pérez Viso* 75 (MA-701717); P.N. Monte Alén, Monte Chocolate, *Pérez Viso* 4055 (MA-701641). Río Muni: *Carvalho* 5009 (MA-701652).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 142; Velayos *et al.* 2015: 93) and Litoral (Lejoly & Lisowski 1998: 142; Velayos *et al.* 2015: 93).

Culcasia loukandensis Pellegr. in Bull. Soc. Bot. France 81: 142 (1934)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, lago Atok, *Pérez Viso 1052* (MA-701718).

Previously reported from Centro Sur (Velayos *et al.* 2015: 93).

Culcasia mannii (Hook.f.) Engl. in Engl. & Prantl (eds.), Nat. Pflanzenfam. 2(3): 116 (1887)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Kie Ntem: Akam, *Fero & Esono 78* (MA-808290).

Not previously reported from Río Muni.

Culcasia parviflora N.E.Br. in Oliv. (ed.), Fl. Trop. Afr. 8: 176 (1901)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Monte Chocolate, *Pérez Viso 4039* (MA-701669).

Litoral: Masamabe, *Pérez Viso 3928* (MA-701671); Bata, *Carvalho 5022* (MA-599225, MO, WAG). Wele Nzaz: Nsum Esangüi, *Pérez Viso 3621* (MA-701690).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 142; Velayos *et al.* 2015: 94), Litoral (Lejoly & Lisowski 1998: 142; Guinea 1946: 160; Velayos *et al.* 2015: 94) and Wele Nzaz (Guinea 1946: 149; Velayos *et al.* 2015: 94).

Culcasia scandens P.Beauv., Fl. Oware 1: 4, tab. 3 (1805)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Guinea 1946: 184i, 247; Velayos *et al.* 2015: 94) and Wele Nzaz (Guinea 1946: 149, 247; Velayos *et al.* 2015: 94). We have not found any herbarium specimen supporting these records. The distribution range and the ecological requirements of the species makes its presence in the country reliable.

Culcasia seretii De Wild., Pl. Bequaert. 1(2): 172 (1922)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-

Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Monte Chocolate, *Pérez Viso* 4056 (MA-701698); P.N. Monte Alén, Enkumekien [Ncumekie], *Pérez Viso* 1574 (MA-701697).

Previously reported from Centro Sur (Velayos *et al.* 2015: 95).

Culcasia simiarum Ntépé-Nyamè in Bull. Mus. Natl. Hist. Nat., B, Adansonia 1984: 320 (1984)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Ayamiken, *Lejoly* 97/59 (BATA, BRLU), *Obama* 52 (BATA, BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 142).

Culcasia striolata Engl. in Bot. Jahrb. Syst. 26: 417 (1899)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Ebolowa, entre Bicurga y Evinayong, *Pérez Viso* 1715 (MA-701674).

Litoral: Sendje 2°, *Pérez Viso* 2934 (MA-701673). Wele Nzaz: Oveng Esandong, *Pérez Viso* 3086 (MA-701692); Temelon, Añisok, *Pérez Viso* 4143 (MA-701691).

Previously reported from Centro Sur (Velayos *et al.* 2015: 95), Litoral (Guinea 1946: 159; Velayos *et al.* 2015: 95) and Wele Nzaz (Lejoly & Lisowski 1998: 143; Velayos *et al.* 2015: 95).

Culcasia tenuifolia Engl. in Bot. Jahrb. Syst. 15: 447 (1892)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Niefang, Bindeng, *Pérez Viso* 2373 (MA-701734); Abang, Niefang, *Pérez Viso* 4223 (MA-701731); P.N. Monte Alén, Ayangtang, *Pérez Viso* 973 (MA-701730); Abang, Niefang, *Pérez Viso* 4230 (MA-701729). Kie Ntem: Ebon-Oyac, Ebebiyin, *Pérez Viso* 4303 (MA-701733). Litoral: Sendje, *Pérez Viso* 2978 (MA-701732).

Previously reported from Centro Sur, Kie Ntem and Litoral (Velayos *et al.* 2015: 95).

Dieffenbachia seguine (Jacq.) Schott in Schott & Endl., Melet. Bot.: 20 (1832)

NE Introduced

Native to Tropical America, cultivated and naturalized worldwide.

Litoral: Mbini, Senye I, *Velayos & al.* 13401 (MA-884389).

Previously reported from Litoral (Lejoly & Lisowski 1998: 143; Velayos *et al.* 2015: 96).

Lasimorpha senegalensis Schott in Bonplandia 5: 127 (1857)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, *Pérez Viso* 54 (MA-701656). Litoral: Ondo, *Pérez Viso* 3828 (MA-701675); Bolondo, *Guinea* 675 (MA-701651); Río Benito, *Guinea* 919 (MA-701684).

Previously reported from Centro Sur (Guinea 1946: 141-143; Velayos *et al.* 2015: 96), Litoral (Lejoly & Lisowski 1998: 143; Guinea 1946: 157, 168k, 247; Velayos *et al.* 2015: 96) and Wele Nzas (Guinea 1946: 151, 247).

Nephtytis afzelii Schott in Oesterr. Bot. Wochenbl. 7: 406 (1857)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Sendje 2°, *Pérez Viso* 2942 (MA-689873).

Previously reported from Litoral (Velayos *et al.* 2015: 97).

Nephtytis poissonii (Engl.) N.E.Br. in Oliv. (ed.), Fl. Trop. Afr. 8: 171 (1901)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Achimelan, *Pérez Viso* 3333 (MA-687723); Mosumo, *Aedo & al.* 5157 (MA-689170), 5161 (MA-689171). Litoral: Ondo, *Pérez Viso* 3809 (MA-701638); Bolondo, *Guinea* 676 (MA-701710), 678 (MA-701708), 680 (MA-701711), 681-682 (MA-701707); Eyan Bot, *Pérez Viso* 3545 (MA-701642); Ondo, *Pérez Viso* 3814 (MA-701639); Bolondo, *Guinea* 679 (MA-701688). Wele Nzas: Eviam, *Pérez Viso* 2632 (MA-701640), *Pérez Viso* 2648 (MA-701657).

Previously reported from Centro Sur (Velayos *et al.* 2015: 97), Litoral (Lejoly & Lisowski 1998: 143; Velayos *et al.* 2015: 97) and Wele Nzas (Velayos *et al.* 2015: 97).

Pistia stratiotes L., Sp. Pl.: 963 (1753)

LC Native

Native to the Tropics and Subtropics. Lakes and ponds of all Africa. Also known from Bioko.

Centro Sur: Acurenam, *Del Val s.n.* (MA-701677); P.N. Monte Alén, Ayene, *Pérez Viso* 660 (MA-701667). Wele Nzas: Mbiet, Añisok, *Pérez Viso* 3610 (MA-701735).

Previously reported from Centro Sur (Velayos *et al.* 2015: 100), Litoral (Guinea 1946: 168k), Wele Nzas (Velayos *et al.* 2015: 100) and Río Muni, without any precise locality (Guinea 1946: 250-251).

Rhaphidophora africana N.E.Br. in Bull. Misc. Inform. Kew 1897: 286 (1897)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Mosumo, *Obama & Lejoly* 696 (BATA, BRLU). Litoral: Mbini, *Lisowski M-593* (BATA, BRLU); Sendje, *M-1248* (BATA, BRLU). Wele Nzas: Akok, carretera Acurenam-Aconibe, *Pérez Viso 2031* (MA-701721).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 143), Litoral (Lejoly & Lisowski 1998: 143) and Wele Nzas (Velayos *et al.* 2015: 98).

Stylochaeton zenkeri Engl. in Bot. Jahrb. Syst. 26: 424 (1899)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Monte Alén, *Lisowski M-1548* (BATA, BRLU). Litoral: Ayamiken, *Lejoly 97/48* (BATA, BRLU), *Lisowski M-901* (BATA, BRLU). Wele Nzas: Añisoc, *Lisowski M-728* (BATA, BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 144), Litoral (Lejoly & Lisowski 1998: 144) and Wele Nzas (Lejoly & Lisowski 1998: 144).

Xanthosoma sagittifolium (L.) Schott in Schott & Endl., Melet. Bot.: 19 (1832)

NE Naturalized

Native to Tropical America, cultivated and naturalized in the Paleotropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobon and Bioko.

Previously reported from Kie Ntem (Guinea 1946: 216f; Velayos *et al.* 2015: 99) and Río Muni, without any precise locality (Guinea 1946: 249; Velayos *et al.* 2015: 99). Although we have not found any herbarium specimen supporting these records, the species is widely cultivated all over the country and its ecological requirements make it very likely that it has naturalized near the villages.

ARECACEAE [PALMAE IN FL. GUINEA]

Areca catechu L., Sp. Pl.: 1189 (1753)

NE Introduced

Native to the Philippines, cultivated elsewhere in the Tropics. Cultivated in Africa.

Previously reported from Río Muni, without any precise locality (Guinea 1946: 245; Velayos *et al.* 2015: 62). We have not been able to locate any herbarium specimen supporting Guinea's citations. The species is widely cultivated all over the country and its ecological requirements make it very likely that it has naturalized near the villages.

Borassus aethiopum Mart., Hist. Nat. Palm. 3(7): 220 (1838)

LC Cultivated

Tropical Africa. Sudano-Zambezian Region (Sudanese Province, Zambezian Province,

Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Previously reported from Río Muni, without any precise locality (Guinea 1946: 242; Velayos *et al.* 2015: 63). We have not found any herbarium specimen supporting these records, nonetheless, the distribution range and ecological requirements of the species makes its presence in Equatorial Guinea feasible.

Calamus deerratus G.Mann & H.Wendl. in Trans. Linn. Soc. London 24: 429, tab. 41 (1864)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzaz (Guinea 1946: 244; Velayos *et al.* 2015: 63). We have not found any herbarium specimen supporting these records, nonetheless, the distribution range and ecological requirements of the species makes its presence in Equatorial Guinea feasible.

Cocos nucifera L., Sp. Pl.: 1188 (1753)

NE Introduced

Native from Central Malesia to SW. Pacific, naturalized elsewhere in the Tropics. African Tropical coasts. Also known from Annobón and Bioko.

Litoral: Ndote Nord, environs du village Jandje, *Lisowski M-75* (BATA); playa de Utonde, *Barberá & al.* 236 (MA-843802).

Previously reported from Litoral (Lejoly & Lisowski 1998: 144; Guinea 1946: 256g; Velayos *et al.* 2015: 63-64).

Elaeis guineensis Jacq., Select. Stirp. Amer. Hist.: 280–282 pl. 172 (1763)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region. Also known from Annobón and Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 144) and Río Muni, without any precise locality (Guinea 1946: 32c, 246; Velayos *et al.* 2015: 64).

Eremospatha cuspidata (G.Mann & H.Wendl.) H.Wendl. in Kerch., Palmiers: 244 (1878)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Etembue, *Sunderland 1792* (WAG-80283); Bome-Bata, *Fero & Barberá 334*

(MA-844552); Mbini District, Etembue, *Sunderland* 1909, 1922 (BATA); Espigon, pradera de Baga (resèrve de Ndote), *Eneme & Lejoly* 113 (BATA); aeródromo, *Guinea* 637 (MA-709147), 638 (MA-709146), 639 (MA-709145), 641 (MA-709144), 644 (MA-709148), 645 (MA-301369), 646 (MA-709143); Etembue, *Guinea* 889 (MA-301341, 709141); Bata-Bome, *Carvalho* 5392 (MA-599439, MO, WAG)

Previously reported from Litoral (Velayos *et al.* 2015: 65).

Eremospatha hookeri (G.Mann & H.Wendl.) H.Wendl. in Kerch., Palmiers: 244 (1878)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata District, Village of Njakem, *Sunderland* 1906 (WAG-306037); Cogo District, village of Basile, 2 km WSW of village, *Sunderland* 1917 (BATA).

Previously reported from Litoral (Velayos *et al.* 2015: 65).

Eremospatha laurentii De Wild. in Bull. Jard. Bot. État Bruxelles 5: 147 (1916)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Cogo District, Basile to Malamba, on road to Montre Mitra, 6 km from road junction, *Sunderland* 1920 (BATA).

Previously reported from Litoral (Velayos *et al.* 2015: 65).

Eremospatha macrocarpa (G.Mann & H.Wendl.) H.Wendl. in Kerch., Palmiers: 244 (1878)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata District, *Sunderland* 1901 (BATA-725); Cogo District, *Sunderland* 1918 (WAG-306046); Etembue, *Lejoly & M. Elad* 96/196 (BATA); Bata, near village of Ayamiken, *Sunderland* 1800 (BATA); Río Campo, Ayamiken, 3 km au N du village, *Lejoly* 97/42 (BATA); District Mbini, village Sendje, río Uele, *Lisowski M-1263* (BATA); Bata, near of village Ayamiken, *Sunderland* 1797 (BATA, NY).

Previously reported from Litoral (Lejoly & Lisowski 1998: 144; Guinea 1946: 245; Velayos *et al.* 2015: 66) and Río Muni, without any precise locality (Guinea 1946: 245).

Eremospatha tessmanniana Becc. in Webbia 3: 278 (1910)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Etembue, *Guinea* 890 (MA-301342).

Previously reported from Litoral (Guinea 1946: 245; Velayos *et al.* 2015: 66).

Eremospatha wendlandiana Dammer ex Becc. in Webbia 3: 290 (1910)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata, near village of Ayamiken, *Sunderland 1798* (BATA, WAG); Etembue, *Guinea 890* (MA-709142).

Previously reported from Litoral (Velayos *et al.* 2015: 66).

Laccosperma acutiflorum (Becc.) J.Dransf. in Kew Bull. 37: 456 (1982)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata District, *Sunderland 1907* (WAG-303034); Bata-Pembe, *Carvalho 5391* (MA-599438, MO, WAG).

Previously reported from Centro Sur (Guinea 1946: 243-244), Litoral (Guinea 1946: 157, 167, 168j; Velayos *et al.* 2015: 67) and Wele Nzaz (Guinea 1946: 243-244).

Laccosperma laeve (G.Mann & H.Wendl.) Kuntze, Revis. Gen. Pl. 2: 729 (1891)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Bisun, *Pérez Viso 1238* (MA-687069). Kie Ntem: Mfeck-Ayong, *T.C.H. Sunderland, 1911* (K). Litoral: Bata-Pembe, *Carvalho 5141* (MA-599675, MO, WAG).

Previously reported from Centro Sur and Litoral (Velayos *et al.* 2015: 68).

Laccosperma opacum (G.Mann & H.Wendl.) Drude in Bot. Zeitung (Berlin) 35: 635 (1877)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Kie Ntem: Mfeck-Ayong, *Sunderland 1910* (K, BATA, WAG).

Previously reported from Río Muni, without any precise locality (Guinea 1946: 244).

Laccosperma robustum (Burret) J.Dransf. in Kew Bull. 37: 457 (1982)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzaz: Nsork, *Sunderland 1915* (WAG-306048).

Previously reported from Wele Nzaz (Velayos *et al.* 2015: 68).

Laccosperma secundiflorum (P.Beauv.) Kuntze, Revis. Gen. Pl. 2: 729 (1891)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Ayamiken, *Sunderland 1799* (WAG); Bata District. Bata-Mbini road, *T.C.H. Sunderland, 1791* (BH).

Previously reported from Litoral (Lejoly & Lisowski 1998: 144) and Río Muni, without any precise locality (Guinea 1946: 244; Velayos *et al.* 2015: 69).

Oncocalamus macrospathus Burret in Notizbl. Bot. Gart. Berlin-Dahlem 15: 749 (1942)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Evinayong, Akonibe to Evinayong road, *Sunderland 1913* (BATA-738), *1914* (WAG). Wele Nzaz: Eviam, Aconibe-Acurenam, *Pérez Viso 1792* (MA-689172).

Previously reported from Centro Sur and Litoral (Velayos *et al.* 2015: 70).

Oncocalamus mannii (H.Wendl.) H.Wendl. in Kerch., Palmiers: 252 (1878)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Etembue, *Sunderland 1793* (WAG); Mbini District, Etembue, *Sunderland 1923* (WAG-306044); Etembue, *Sunderland 1908* (WAG-306031); Ayameken, *Sunderland 1796* (WAG-80285); Bata-Pembe-Mbini, *Carvalho 5274* (MA-598107, MO, WAG).

Previously reported from Litoral (Velayos *et al.* 2015: 70), and from Río Muni, without any precise locality (Guinea 1946: 244-245).

Phoenix reclinata Jacq., Fragm. Bot. 1: 27, pl. 24 (1801)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Bioko.

Litoral: Bata-río Utonde, *Carvalho 4772* (BATA, MA-597675, MO, WAG); Bata, *Lejoly 99/003* (BATA); Bata, *Lisowski M-1211* (BATA); Ndote Nord, *Lisowski M-1285* (BATA); Punta Mbonda, *Guinea 774* (MA-709139).

Previously reported from Litoral (Lejoly & Lisowski 1998: 144; Guinea 1946: 165, 167, 168j, 170, 171, 242; Velayos *et al.* 2015: 70).

Podococcus barteri G.Mann & H.Wendl. in Trans. Linn. Soc. London 24: 426 (1864)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur; Añisok, parc de Temelon, *Lisowski* 633 (BATA); Añisok, *Pérez Viso* 1374 (MA-709149); Bata-Niefang, *Carvalho* 4741 (BATA, MA-597965, MO); Bata-Senge, antigua explotación de EXFOSA, *Carvalho* 6124 (BATA, MA-619396, WAG); Evinayong, *Guinea* 1120 (MA-709138); Evinayong, *Guinea* 303 (MA-715811); Inselberg de Bicurga, *Parmentier* 1636 (BRLU); Monte Alén, *Ngomo* 13 (BATA); Monte Alén, transecto Nkumekie., *Ngomo* 849 (BRLU); Monte Chocolate, *Cabezas & al.* 198 (MA-695544); Nfing Ntagan, *Pérez Viso* 2759bis (MA-712320); Niefang: explotación forestal de Matroguisa, *Pérez Viso* 2266 (MA-708907); P.N. Monte Alén, Asok, *Pérez Viso* 898 (MA-689879); P.N. Monte Alén, *Pérez Viso* 40 (MA-709150). Litoral: Ayamiken, *Sunderland* 1795 (BATA; Bata, *Sunderland, T.C.H.* 1905 (WAG); Elende, *Lisowski* M-990 (BATA); Etembue, *Eneme* 317 (BATA, WAG); Río Campo, Ayamiken, *Obama* 56 (BATA); Río Campo, Ayamiken, *Lejoly* 97/44 (BATA); Río Campo, *Pérez Viso* 2235 (MA-715809). Wele Nzaz: pista forestal, entre Eviam y Aconibe, *Pérez Viso* 2090 (MA-715810); Añisok-Mongola, *Pérez Viso* 3717 (MA-708906); P.N. de Nsork, Obamicu, *Nguema & al. s.n.* (BATA); Añisoc, env. de Temelon, près du village Ayene, *Lisowski* M-612 (BR); Oveng Esandong, *Pérez Viso* 3080 (MA-715812).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 145; Guinea 1946: 142; Velayos *et al.* 2015: 71), Litoral (Lejoly & Lisowski 1998: 145; Guinea 1946: 167, 168j; Velayos *et al.* 2015: 71), Wele Nzaz (Lejoly & Lisowski 1998: 145; Velayos *et al.* 2015: 71) and Río Muni, without any precise locality (Guinea 1946: 245-246).

Raphia hookeri G.Mann & H.Wendl. in Trans. Linn. Soc. London 24: 438 (1864)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Niefang, Bindeng, pista hacia el río Uoro, *Pérez Viso* 2411 (MA-708902). Litoral: Corisco Island, Corisco Bay, Corisco Island, *Mann* 1911 (K); Bata: Miboman, *Castelo, Cabeza & Juste s.n.* (MA-319727).

Previously reported from Centro Sur (Velayos *et al.* 2015: 73), Litoral (Guinea 1946: 168k, 176b, 242) and Río Muni, without any precise locality (Hepper 1968a: 162).

Raphia longiflora G.Mann & H.Wendl. in Trans. Linn. Soc. London 24: 438 (1864)

DD Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Isla de Corisco, *Mann* 1910 (K).

Previously reported from Litoral (Velayos *et al.* 2015: 73).

Raphia regalis Becc. in Webbia 3: 125 (1910)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Carretera de Niefang a Evinayong, *Cabezas 88* (MA-695672).

Previously reported from Centro Sur (Guinea 1946: 142, 243; Velayos *et al.* 2015: 73) and Wele Nzaz (Lejoly & Lisowski 1998: 145; Guinea 1946: 243).

Raphia vinifera P.Beauv., Fl. Oware 1: 77 (1806)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 168k, 176b) and Río Muni, without any precise locality (Guinea 1946: 243).

Roystonea regia (Kunth) O.F.Cook in Science 12(300): 479 (1900)

LC Cultivated

Native to C. America, elsewhere cultivated in the Tropics. Cultivated in Africa. Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 320d) and Río Muni, without any precise locality (Guinea 1946: 247). This species has been widely cultivated throughout the tropical regions of Africa. The distribution range and ecological range of the species makes its presence as naturalized in the country likely.

Sclerosperma mannii G.Mann & H.Wendl. in Trans. Linn. Soc. London 24: 427 (1864)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Evinayong, *Guinea 304* (MA-301363, MA-708908). Litoral: Ndote Forest Reserve, *Sunderland 1868* (WAG-72954); Bata-Mbini road, 17 km from Bata, *Sunderland 1794* (WAG-72957). Río Muni: Ntüm Gebiet, *Wölfert s.n.* (HBG).

Previously reported from Centro Sur (Guinea 1946: 142, 246; Velayos *et al.* 2015: 74), Litoral (Lejoly & Lisowski 1998: 145; Guinea 1946: 167, 168j, 246; Velayos *et al.* 2015: 74), Wele Nzaz (Guinea 1946: 183, 246) and Río Muni, without any precise locality (Guinea 1946: 246).

ASPARAGACEAE

Agave americana L., Sp. Pl.: 323 (1753)

LC Cultivated

Native to S. U.S.A. and Mexico. Cultivated in Río Muni.

Previously reported from Río Muni, without any precise locality (Del Val 1942: 71).

Agave sisalana Perrine ex Engelm. in Trans. Acad. Sci. St. Louis 3: 305, 316, pl. 2-4 (1875)

NE Introduced

Originally from Mexico. Introduced in Equatorial Guinea. Also known from Bioko.

Previously reported from Centro Sur (Guinea 1946: 168c, 200h) and Río Muni, without any precise locality (Del Val 1942: 71).

Agave is an American genus of which several species are cultivated for their ornamental interest or to obtain textile fibers. We have not found any herbarium specimen supporting these records. In some cases, it is possible that plants escaped from cultivation survive for some years, although it is not known that they become naturalized (Velayos *et al.* 2018: 125).

Asparagus africanus Lam., Encycl. 1: 295 (1783)

NE Native

Native to Africa, Arabian Peninsula and India. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland); Karroo Namib Region; Cape Region.

Previously reported from Wele Nzas (Guinea 1946: 257).

Asparagus drepanophyllus Welw. & Baker in Trans. Linn. Soc. London, Bot. 1: 254 (1877)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Guinea 1946: 257) and Wele Nzas (Lejoly & Lisowski 1998: 145; 1999a: 120). The presence of any of the *Asparagus* species mentioned in the country is quite reliable, since their distribution range and ecological features. The specimens MA-707461 and MA-860909 kept at the Madrid herbarium are poorly preserved and they cannot support any of these reports.

Chlorophytum alismifolium Baker in J. Linn. Soc. 15: 324 (1876)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Miyobo, carretera Niefang-Mosumu, *Pérez Viso* 2545 (MA-709346); P.N. Monte Alén, cerca de Mosumu, *Pérez Viso* 215 (MA-709339); 1294 (MA-687057). Litoral: Bata-Sendje (Senye), *Carvalho* 5288 (MA-598004, MO, WAG).

Previously reported from Centro Sur (Velayos *et al.* 2018: 139) and Litoral (Lejoly & Lisowski 1998: 141; Velayos *et al.* 2018: 139).

Chlorophytum filipendulum Baker in Trans. Linn. Soc. London 1: 260 (1878)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Litoral: Bata-Niefang, *Carvalho* 5725 (MA-599016). Wele Nzas: Mbut, *Pérez Viso* 3661 (MA-687052).

Previously reported from Litoral and Wele Nzas (Velayos *et al.* 2018: 140).

Chlorophytum laxum R.Br., Prodr. Fl. Nov. Holland. 277 (1810)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Monte Alén, *Obama & Lejoly* 697 (BATA). Litoral: Mbini, *Lisowski* M-587 (BATA). Wele Nzas: Nsork, *Obama & Lejoly* 536 (BATA).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 141), Litoral (Lejoly & Lisowski 1998: 141) and Wele Nzas (Lejoly & Lisowski 1998: 141).

Chlorophytum orchidastrum Lindl. in Bot. Reg. 10, tab. 813 (1824)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Enkumekien, *Velayos & Pérez Viso* 9329 (MA-706491); Mosumu, *Pérez Viso* 3486 (MA-687694). Kie Ntem: Akam, *Fero & Esono* 137 (MA-808764).

Previously reported from Centro Sur (Velayos *et al.* 2018: 140), Litoral (Guinea 1946: 157) and from Wele Nzas (Velayos *et al.* 2018: 140).

Chlorophytum sparsiflorum Baker in J. Linn. Soc. 15: 325 (1876)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Abobem, Niefang, *Pérez Viso* 4206 (MA-702120); Bata-Niefang, Nhogo Ebaiñ, *Pérez Viso* 2699bis (MA-702119); Enkumekie, carretera Niefang a Evinayong, *Pérez Viso* 4066bis (MA-703132); P.N. Monte Alén, Esamalang, camino hacia Mondung, *Pérez Viso* 1124 (MA-687073); Monte Bata hacia Río Campo, *Pérez Viso* 2461 (MA-689864); P.N. Monte Alén, Moka, *Pérez Viso* 804 (MA-689860). Kie Ntem: Ngomgom, *Barberá & al.* 95 (MA-831495). Litoral: Binguro, *Pérez Viso* 2884 (MA-

707473); entre o río Sama e o río Comayá, *Carvalho 5614* (MA-706713, MO, WAG); Enigayong, km. 5 de la carretera de Kogo, *Pérez Viso 3865* (MA-687166); Ondo, km. 8 de la carretera del puerto, *Pérez Viso 3804* (MA-687056); Sendje, *Pérez Viso 2962* (MA-689874). Wele Nzas: Eviam, carretera forestal de Bata a Niefang, *Pérez Viso 2595* (MA-709347); Oveng Esandong, km. 61 carretera Nkue-Mongomo, *Pérez Viso 3115* (MA-702666).

Previously reported from Centro Sur, Litoral, Kie Ntem, and Wele Nzas (Velayos *et al.* 2018: 141).

Dracaena arborea (Willd.) Link in Enum. Hort. Berol. Alt. 1: 341 (1821)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Previously reported from Centro Sur (Guinea 1946: 142), Wele Nzas (Guinea 1946: 143) and Río Muni, without any precise locality (Guinea 1946: 256). We have not found any herbarium specimen supporting the Río Muni records, nonetheless the distribution range and ecological features of the species makes its presence in Equatorial Guinea reliable.

Dracaena aubryana Brongn. ex E.Morren in Belgique Hort. 10: 348 (1860)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Monte Alén, *Lejoly 93/395* (BATA). Litoral: Eyan Bot, *Pérez Viso 3548* (MA-691417), 3549 (MA-691416); Corisco, *Pérez Viso 1880* (MA-688927); Bata-Praderas de Bome, *Carvalho 5979* (MA-599796).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 139), Litoral (Lejoly & Lisowski 1998: 139; Guinea 1946: 157; Velayos *et al.* 2018: 133) and Río Muni, without any precise locality (Bos 1984: 37).

Dracaena bicolor Hook. in Bot. Mag. 87: t. 5248 (1861)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, *Pérez Viso 126* (MA-712457).

Previously reported from Centro Sur (Velayos *et al.* 2018: 133).

Dracaena bushii Damen in Blumea 63: 35 (2018)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye (Senge), *Carvalho* 6324 (MA-620563).

Previously reported from Litoral (Damen *et al.* 2018: 36) and Wele Nzas (Damen *et al.* 2018: 36).

Dracaena camerooniana Baker in J. Bot. 12: 166 (1874)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Sendje, *Lisowski* M-1279 (BATA).

Previously reported from Centro Sur (Guinea 1946: 142) and Litoral (Lejoly & Lisowski 1998: 139; Guinea 1946: 156), and from Río Muni, without any precise locality (Velayos *et al.* 2018: 134).

Dracaena cerasifera Hua in Bull. Soc. Hist. Nat. D'Autun 10: 663 (1897)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bicomo, a montante da Central Hidroeléctrica, às margens do rio Ecucu, *Carvalho* 5221 (MA-599638, MO, WAG); Bata-Dibolo, estrada km. 67-68, *Carvalho* 4898 (MA-597895, MO, WAG).

Previously reported from Litoral (Velayos *et al.* 2018: 134).

Dracaena fragrans (L.) Ker Gawl. in Bot. Mag. 27, pl. 1081 (1808)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Previously reported from Centro Sur (Guinea 1946: 142), Wele Nzas (Guinea 1946: 143) and Río Muni, without any precise locality (Guinea 1946: 256; Velayos *et al.* 2018: 135). We have not found any herbarium specimen supporting these reports, nonetheless the distribution range and the ecological features of the species makes its presence in the country reliable.

Dracaena glomerata Baker in J. Bot. 12: 166 (1874)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Corisco Bay, Iloby Island [Elobey Islands], *Mann* 1630 (K000255925; K000255926).

Previously reported from Litoral (Damen *et al.* 2018: 37).

Dracaena laxissima Engl. in Bot. Jahrb. Syst. 15: 478 (1893)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region.

Centro Sur: Bata-Niefang, estrada km 35, entre os rios Sama e Comayá, *Carvalho* 5767 (MA-795328). Litoral: Ayamiken, *Obama* 138 (BATA). Wele Nzas: Oveng Esandong, km. 61 carretera Nkue-Mongomo, *Pérez Viso* 3121 (MA-706484).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 140; Velayos *et al.* 2018: 135), Litoral (Lejoly & Lisowski 1998: 140), Wele Nzas (Velayos *et al.* 2018: 135) and Río Muni, without any precise locality (Hepper 1968a: 157).

Dracaena litoralis Mwachala & Eb.Fisch. in Novon 22: 444 (2013)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata, *de Wilde* 11990 (MA-871519, WAG); Corisco, *Pérez Viso* 1988 (MA-715292); Bata, alrededores de Akonikieng, *Carvalho* 5011 (MA-712722, MO); Bata-Bome, *Carvalho* 4970 (MA-610091, MO, WAG).

Previously reported from Litoral (Velayos *et al.* 2018: 135) and from Río Muni, without any precise locality by Damen *et al.* (2018: 35), these authors considered *Dracaena braunii* Engl. the accepted name for these specimens. We follow Mwachala & Fisher (2013: 444) criteria.

Dracaena mannii Baker in J. Bot. 12: 164 (1874)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Wele Nzas: Mabungo, *Tessmann* 358 (B).

Previously reported from Wele Nzas (Damen *et al.* 2018: 40) and Río Muni, without any precise locality (Guinea 1946: 256).

Dracaena ovata Ker Gawl. in Bot. Mag. 29, tab. 1180 (1809)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Mosumu, *Pérez Viso* 1298 (MA-687072).

Previously reported from Centro Sur (Velayos *et al.* 2018: 135).

Dracaena phrynoides Hook. in Bot. Mag. 1862, tab. 5352 (1862)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: costa Benito, Etembue, *Guinea* 989 (MA-715346); Mbini, camino entre Bisum y Monte Mitra, entrada al Parque Nacional Monte Alén, *Velayos & al.* 13449 (MA-884403); Costa Etembue, *Guinea* 990 (MA-715345), 991 (MA-715344); Etembue, *Guinea* 623 (MA-687704), 624 (MA-715343). Wele Nzas: Añisoc, *Lisowski M-614* (BATA).

Previously reported from Litoral (Lejoly & Lisowski 1998: 140; Velayos *et al.* 2018: 136) and Wele Nzas (Lejoly & Lisowski 1998: 140).

Dracaena viridiflora Engl. & K.Krause in Bot. Jarhb. Syst. 45: 13 (1910)

VU Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Esamalang, *Pérez Viso* 585 (MA-687731).

Previously reported from Centro Sur (Velayos *et al.* 2018: 136), Wele Nzas (Hepper 1968b: 491) and Río Muni, without any precise locality (Guinea 1946: 256).

Sansevieria hyacinthoides (L.) Druce in Rep. Bot. Exch. Club Soc. Brit. Isles 3: 423 (1914)

NE Introduced

Native from Kenya to S. Africa, cultivated or naturalized in the rest of Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Annobón and Bioko.

Litoral: Bata-Bome, *Carvalho* 6002 (MA-609839).

Previously reported from Litoral (Velayos *et al.* 2018: 137), and from Río Muni, without any precise locality (Guinea 1946: 256).

BROMELIACEAE

Ananas comosus (L.) Merr., *Interpr. Herb. Amboin.*: 133 (1917)

NE Introduced

Native to the Neotropic, broadly cultivated and naturalized anywhere in the Tropics. Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Litoral: Ayamiken, réserve de Río Campo, *Obama* 108 (BRLU). Wele Nzas: région de Añisok, au-dessus du village Nzuamayong, inselberg Akuom, *Lisowski* 655 (BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 145; Velayos *et al.* 2014: 3), Wele Nzaz (Lejoly & Lisowski 1998: 145; Lejoly & Lisowski 1999a: 118; Velayos *et al.* 2014: 3) and Río Muni, without any precise locality (Guinea 1946: 252).

BURMANNIACEAE

Burmannia madagascariensis Baker in J. Linn. Soc., Bot. 20: 268 (1883)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region.

Litoral: Etembue, *Guinea* 392-905 (MA-708935). Wele Nzaz: Asok, *Del Val* s.n. (MA-726950, MA-726954); Inselberg Asoc, *Obama & Lejoly* 492 (MA-612107).

Previously reported from Litoral (Lejoly & Lisowski 1998: 145; Guinea 1946: 23, 175, 176b, 264; Velayos *et al.* 2018: 8) and Wele Nzaz (Lejoly & Lisowski 1998: 145; Lejoly & Lisowski 1999a: 118; Velayos *et al.* 2018: 8).

Gymnosiphon longistylus (Benth.) Hutch. in Hutch. & Dalz., Fl. W. Trop. Afr. 2: 399 (1936)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye (Senge): antigua explotación forestal de Exfosa, *Carvalho* 6115 (MA-618993).

Previously reported from Centro Sur (Guinea 1945: 176, 264, 466-468; Guinea 1946: 153) and Litoral (Velayos *et al.* 2018: 9).

CANNACEAE

Canna indica L., Sp. Pl.: 1 (1753)

NE Naturalized

Native to the Neotropic, naturalized in the Paleotropic. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province). Also known from Annobón and Bioko.

Centro Sur: Monte Alén, *Ngomo* 261 (BRLU). Kie Ntem: Obot Nku-Eseng, a 7 km de Nsok Nsomo, *Barberá & al.* 185 (MA-831453). Litoral: Área de Machinda. Poblado de Adam-Tum, *López Serrano* 110501, 110502, 110503, 110504, 110505 (MA); Ndote, *Eneme* 234 (BRLU); Ayamiken, réserve de Río Campo, *Obama* 122 (BRLU).

Previously reported from Centro Sur, Litoral and Kie Ntem (Velayos *et al.* 2014: 30).

COLCHICACEAE

Gloriosa superba L., Sp. Pl.: 305 (1753)

LC Native

Paleotropics. Tropical Africa. Sudano-Zambezian Region (Sudanien Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Madagascan Region. Also known from Bioko.

Centro Sur: P.N. Monte Alén, Bong, monte Alén., *Pérez Viso* 264 (MA-706489); P.N. Monte Alén, Moka, *Pérez Viso* 297 (MA-706488); 4119 (MA-702655). Litoral: Ayap, *Guinea* 20 (MA-715341), 29 (MA-715349), 28 (MA-715348); costa Benito, *Guinea* 963 (MA-715347); Bata-Senye, *Carvalho* 5002 (MA-598931, MO, WAG). Wele Nzas: Cucumanoc, *Guinea* 407 (MA-715342).

Previously reported from Centro Sur (Velayos *et al.* 2018: 4), Kie Ntem (Guinea 1946: 184j; Velayos *et al.* 2018: 4), Litoral (Lejoly & Lisowski 1998: 146; Guinea 1946: 155; Velayos *et al.* 2018: 4), Wele Nzas (Guinea 1946: 150; Velayos *et al.* 2018: 4) and Río Muni, without any precise locality (Guinea 1946: 70-71, 255).

COMMELINACEAE

Amischotolype scandens Burg & E.Bidault in Fl. Gabon 55: 4 (2020)

DD Native

Tropical Africa. Guineo-Congolian Region (Congolian Province)

Previously recorded from Río Muni (Van der Burg & Bidault 2020: 4)

Amischotolype tenuis (C.B.Clarke) R.S.Rao in Maharashtra Vidnyan Mandir Patrika 6(2): 53 (1971)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, sur le transect ECOFAC de Mosumo, à 500 m du début du layon, *Senterre & Ngomo* 218, 345, 514, 587 (BRLU); P.N. Monte Alén, près du village de Monte Alén (ECOFAC), *Senterre & al.* 2915 (BRLU); P.N. Monte Alén, Mosumu, *Pérez Viso* 1604 (MA-687148); carretera de Monte Bata hacia Río Campo, *Pérez Viso* 2459 (MA-689863); SE du P.N. Monte Alén, au S du río Laña, près de la Cabaña ECOFAC de Misergue, *Senterre & Obiang* 3401 (BRLU); Bicurga, *Lisowski* 1493 (BRLU); P.N. Monte Alén, 1,5 km au NO de Moca, *Senterre & al.* 2809 (BRLU). Litoral: Ayamiken, *Lisowski* 428 (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 147; Cabezas *et al.* 2009: 107; Velayos *et al.* 2014: 48), Litoral (Lejoly & Lisowski 1998: 147; Guinea 1946: 159; Cabezas *et al.* 2009: 107; Velayos *et al.* 2014: 48) and Río Muni, without any precise locality (Brenan 1953a: 456)

Aneilema aequinoctiale (P.Beauv.) G.Don in Loudon (ed.), Hort. Brit.: 15 (1830)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian

Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Engong, *Pérez Viso* 332 (MA-703873); Bata-Monte Alen-Engon, *Carvalho* 5525 (MA-599457); Wele Nzas: Nkolentangan, *Tessmann* 51 (K); Añisok, *Pérez Viso* 4178 (MA-703872)

Previously reported from Centro Sur (Cabezas *et al.* 2009: 109; Velayos *et al.* 2014: 49), Wele Nzas (Cabezas *et al.* 2009: 109; Velayos *et al.* 2014: 49) and Río Muni, without any precise locality (Guinea 1946: 254).

Aneilema beniniense (P.Beauv.) Kunth, Enum. Pl. 4: 73 (1843)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, *Ngomo* 68 (BRLU); Miyobo, Nsung, entre Monte Alén y Evinayong, *Pérez Viso* 1670 (MA-703867); Evinayong, *Guinea* 92 (MA-714258); Bicurga, *Lisowski* 1390, 1520, 1521 (BRLU); P.N. Monte Alén, Esamalang, camino hacia Mondung, *Pérez Viso* 1137 (MA-687143); P.N. Monte Alén, Engong, *Lejoly* 99/438 (BRLU); *Parmentier & Esono* 2751 (BRLU); *Pérez Viso* 2519 (MA-703864); P.N. Monte Alén, transect de Monte Alén, *Lejoly* 93/332 (BRLU); *Van Reeth* 91, 118 (BRLU); SO du P.N. Monte Alén, 2 km NE du site de traversée du rivièrè Uolo, *Senterre & al.* 1761 (BRLU). Kie Ntem: Akam, *Fero & Esono* 98 (ERTO). Litoral: reserva de Río Campo, Ayamiken, *Lejoly* 97/063 (BRLU); Binguro, *Pérez Viso* 2863 (MA-703863); Niuma, réserve de Río Campo, *Lisowski* 1024 (BRLU); Ndote, *Eneme* 277 (BRLU); Mandjani, estuaire de Río Muni, *Nguema* 103 (BRLU); Río Campo, carretera de San Joaquín de Adjiaikom hacia Ayamiken, *Pérez Viso* 2501 (MA-703870); Mbini, camino entre Bisum y Monte Mitra, entrada al Parque Nacional Monte Alén, *Velayos & al.* 13452 (MA-884381); Corisco, *Velayos & al.* 9936 (MA-703869). Wele Nzas: Temelon, Añisok, *Pérez Viso* 4125 (MA-703866).

Previously reported from Centro Sur (Cabezas *et al.* 2009: 109; Lejoly & Lisowski 1998: 146; Velayos *et al.* 2014: 49), Litoral (Lejoly & Lisowski 1998: 146; Guinea 1946: 157, Cabezas *et al.* 2009: 109; Velayos *et al.* 2014: 49), Kie Ntem (Velayos *et al.* 2014: 49), Wele Nzas (Cabezas *et al.* 2009: 109; Velayos *et al.* 2014: 49) and Río Muni, without any precise locality (Guinea 1946: 254).

Aneilema paludosum A.Chev. in Mém. Soc. Bot. France 58, Mém. 8: 215 (1912)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Congolian Province).

Litoral: Ayamiken, *Lisowski* 436, 934 (BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 146; Cabezas *et al.* 2009: 109; Velayos *et al.* 2014: 50).

Aneilema umbrosum (Vahl) Kunth, Enum. Pl. 4: 71 (1843) subsp. **umbrosum**

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, carretera de Moka a Bicurga, *Pérez Viso 138* (MA-703871). Kie Ntem: Ngomgom, *Barberá & al. 51* (MA-831648), *94* (MA-831496); Akam, camino a Oyò, *Fero & Esono 144* (MA-808757). Wele Nzaz: inselberg Dumu, près du village Dumu, *Parmentier & Esono 3830* (BRLU).

Previously reported from Centro Sur (Cabezas *et al.* 2009: 110; Velayos *et al.* 2014: 51) and Wele Nzaz (Cabezas *et al.* 2009: 110; Velayos *et al.* 2014: 51).

Aneilema umbrosum subsp. **ovato-oblongum** (P.Beauv.) J.K.Morton in J. Linn. Soc. 59: 461, fig 11 (1966)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Punta Mbonda, *Carvalho 4744* (MA-597961, MO, WAG). Wele Nzaz: Mbiet, Añisok, *Pérez Viso 3611* (MA-703862).

Previously reported from Litoral (Cabezas *et al.* 2009: 110; Velayos *et al.* 2014: 51), Wele Nzaz (Cabezas *et al.* 2009: 110; Velayos *et al.* 2014: 51) and Río Muni, without any precise locality (Guinea 1946: 254).

Buforrestia mannii C.B.Clarke in DC. (ed.), Monogr. Phan. 3: 233, tab. 6 (1881)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 157). We have not found any herbarium specimen supporting this record, nonetheless, the distribution range and ecological requirements of the species makes its presence in the studied region reliable.

Commelina africana L., Sp. Pl.: 41 (1753)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Cape Region; Madagascan Region. Also known from Bioko.

Previously reported from Río Muni, without any precise locality (Guinea 1946: 253). We have not found any herbarium specimen supporting the report from Río Muni, the distribution range and ecological features of the species makes its presence in the studied territory reliable.

***Commelina benghalensis* L., Sp. Pl.: 41 (1753)**

LC Native

Native to Tropical and Subtropical Old World, naturalized in America. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Annobón and Bioko.

Litoral: Ndote Nord, près du village Jandje, *Lisowski* 297, 1297 (BRLU); Ayamiken, *Lisowski* 922 (BRLU).

Previously reported from Kie Ntem (Guinea 1946: 184j; Lejoly & Lisowski 1998: 147) and Río Muni, without any precise locality (Guinea 1946: 253).

***Commelina capitata* Benth. in Hook. (ed.), Niger Fl.: 541 (1849)**

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, senda que va desde Moka hacia Bong, monte Alén, *Pérez Viso* 752 (MA-687719); P.N. Monte Alén, Engong, *Pérez Viso* 342 (MA-712326); P.N. Monte Alén, Ngomo 646 (BRLU) P.N. Monte Alén, Monte Chocolate, *Pérez Viso* 4061 (MA-712325); Abobem, Niefang, *Pérez Viso* 4203 (MA-712324); P.N. Monte Alén, 2 km au NO du transect de Monte Chocolate, vers 5 km de l'origine, *Senterre & Obiang* 3784 (BRLU); P.N. Monte Alén, Enkumekiem, *Velayos & Pérez Viso* 9311 (MA-712328); transect de Monte Chocolate, *Desmet & al.* 28 (BRLU); P.N. Monte Alén, transect de Monte Alén, *Van Reeth* 78 (BRLU); près de Bicurga, *Lisowski* 1369 (BRLU); P.N. Monte Alén, Ngomo 546 (BRLU); P.N. Monte Alén, 3 km à l'O de la station ECOFAC, *Lejoly* 99/408 (BRLU); P.N. Monte Alén, Esamalan-lago Atoc, *Senterre & al.* 2148 (BRLU); P.N. Monte Alén, transect de Monte Alén, *Senterre & al.* 2157 (BRLU); P.N. Monte Alén, Esamalang, *Pérez Viso* 1175 (MA-687144). Kie Ntem: Eloan, carretera Ebebiyin-Mongomo, *Pérez Viso* 4263 (MA-712321); Nsoc Nsomo, camino que va desde Nsoc Nsomo a Bata, a unos 3 km de Nsoc Nsomo, Mocomo, *Cabezas & al.* 1241 (MA-831926); Obot Nku-Eseng, a 7 km de Nsok Nsomo, *Barberá & al.* 153 (MA-831431); Ngomgom, poblado de la pista que va de Nsok Nsomo a Bata, *Barberá & al.* 69 (MA-831630). Litoral: Área de Mbini. Poblado de Mbomo y Bikubini, *López Serrano* 160413, 160414 (MA); Bata-Niefang, estrada km 35, estrada madeireira que conduce a la zona de Comaya, *Carvalho* 5680 (BRLU, MA-598990, WAG). Wele Nzas: inselberg de Mfui, *Obama & Lejoly* 397 (BRLU); Nkolentangan, *Tessmann* 233a (K).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 147; Cabezas *et al.* 2009: 111; Velayos *et al.* 2014: 55), Kie Ntem (Cabezas *et al.* 2009: 111; Velayos *et al.* 2014: 55), Litoral (Cabezas *et al.* 2009: 111; Velayos *et al.* 2014: 55), Wele Nzas (Lejoly & Lisowski 1998: 147; Lejoly & Lisowski 1999a: 120; Cabezas *et al.* 2009: 111; Velayos *et al.* 2014: 55) and Río Muni, without any precise locality (Guinea 1946: 253).

Commelina congesta C.B.Clarke in DC. (ed.), Monogr. Phan. 3: 160 (1881)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 157). We have not found any herbarium specimen supporting this record, nonetheless the distribution range and ecological features of the species makes its presence in the studied territory reliable.

Commelina diffusa Burm.f., Fl. Ind.: 18, tab. 7 fig. 2 (1768) subsp. **diffusa**

LC Native

Native to Tropical and Subtropical Old World, naturalized in America. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Cape Region. Also known from Annobón and Bioko.

Centro Sur: P.N. Monte Alén, carretera de Moka a Bicurga, *Pérez Viso* 137 (MA-712458); Miyobo, carretera Niefang-Mosumu, *Pérez Viso* 2534 (MA-712454); Niefang, explotación forestal de MATROGUISA, *Pérez Viso* 2295 (MA-712466). Kie Ntem: Eloan, carretera Ebebiyin-Mongomo, *Pérez Viso* 4279 (MA-712471). Litoral; río Campo, orilla de río, *Barberá & al.* 298 (MA-844228); Bata, *J.N. Davies* 333 (K); Ondo, *Pérez Viso* 3530 (MA-712465); Corisco, *Velayos & al.* 9951 (MA-712464); Bata, cerca del puerto, *Pérez Viso* 1441 (MA-687146); Yengüe, Río Campo, *Pérez Viso* 2808 (MA-690379); Bata-Bome, *Carvalho* 5521 (MA-599454, MO, WAG).

Previously reported from Centro Sur (Cabezas *et al.* 2009: 112; Velayos *et al.* 2014: 56) and Kie Ntem (Cabezas *et al.* 2009: 112; Velayos *et al.* 2014: 56).

Commelina diffusa subsp. **montana** J.K.Morton in J. Linn. Soc. 60: 181 (1967)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, ECOFAC, *Parmentier & Esono* 3022, 3441 (BRLU); P.N. Monte Alén, NO de Engong, *Parmentier & Esono* 2935, 2975, 2713 (BRLU); P.N. Monte Alén, NO de Engong, inselberg, *Lejoly* 99/457 (BRLU).

Previously reported from Centro Sur (Cabezas *et al.* 2009: 112; Velayos *et al.* 2014: 56). The record from Litoral (Cabezas *et al.* 2009: 112) has been reassigned as subspecies *diffusa*.

Commelina longicapsa C.B.Clarke in DC. (ed.), Monogr. Phan. 3: 176 (1881)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: SO P.N. Monte Alén, 2 km au NE du site de traversée du rivièrè Wele, *Senterre & al.* 1751, 2042 (BRLU); SE P.N. Monte Alén, près du transect ECOFAC de

Enkumekien, *Senterre & Obiang* 3635 (BRLU); SO P.N. Monte Alén, transect ECOFAC de Mosumo, *Senterre & Ngomo* 227 (BRLU), 426 (BRLU); *Senterre & al.* 1988, 2040 (BRLU); transect de Monte Chocolate, *Desmet & al.* 29 (BRLU); N P.N. Monte Alén, 2 km au NO du transect ECOFAC de Monte Chocolate, *Senterre & Ngomo* 3573 (BRLU); P.N. Monte Alén, transect de Monte Alén, *Lejoly* 94/173 (BRLU); Mosumo, desde la cabaña de las cataratas hasta las cataratas del Laña, *Aedo & al.* 5139 (MA-691426). Kie Ntem: Ngomgom, poblado de la pista que va de Nsoc Nsomo a Bata, *Barberá & al.* 73 (MA-831626). Litoral: aire protégée de Ndote-route forestière Engong-Jandje, *Lejoly & Van Asbroeck* 32 (BRLU). Wele Nzaz: Eviam, Aconibe-Acurenem, *Pérez Viso* 1814 (MA-712463). Río Muni: [without precise locality] *Tessmann* 748 (K).

Previously reported from Centro Sur (Cabezas *et al.* 2009: 112; Velayos *et al.* 2014: 57), Litoral (Lejoly & Lisowski 1998: 147; Cabezas *et al.* 2009: 112; Velayos *et al.* 2014: 57), Wele Nzaz (Cabezas *et al.* 2009: 112; Velayos *et al.* 2014: 57) and Río Muni, without any precise locality (Brenan 1968: 47-48).

Cyanotis arachnoidea C.B. Clarke in DC. (ed.), Monogr. Phan. 3: 250 (1881)

NE Native

Native to Tropical Africa, India and S China. Sudano-Zambezian Region (Sudanese Province, Somali-Ethiopian Province) Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Wele Nzaz: région d'Añisok, village Nzumayong, inselberg Akuom, *Lisowski* 658 (BRLU).

Previously reported from Wele Nzaz (Cabezas *et al.* 2009: 112; Velayos *et al.* 2014: 57).

Cyanotis lanata Benth. in Hook. (ed.), Niger Fl.: 542 (1849)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanese Province, Zambezian Province, Somali-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Wele Nzaz: Añisok, inselberg Akuom, *Lisowski* M-658 (BATA).

Previously reported from Wele Nzaz (Lejoly & Lisowski 1998: 147; 1999: 118)

Cyanotis longifolia var. **gracilis** (Schnell) Schnell in Bull. Inst. Fondam. Afrique Noire, Sér. A, Sci. Nat. 19: 733 (1957)

DD Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Congolian Province).

Previously recorded from Río Muni (Van der Burg & Bidault 2020: 26)

Floscopa africana subsp. **majuscula** (C.B. Clarke) Brenan in Kew Bull. 22: 387 (1968)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanese Province); Guineo-Congolian

Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bebai, Campogebiet [región de Campo], *Tessmann 681* (K)

Previously reported from Litoral (Cabezas *et al.* 2009: 113; Velayos *et al.* 2014: 59) and Río Muni, without any precise locality (Brenan 1968: 28)

Floscopa africana subsp. **petrophila** J.K.Morton in J. Linn. Soc. 60: 200 (1967)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Miyobo, carretera Niefang-Mosumu, *Pérez Viso 2546* (MA-703875).

Litoral: Bata-Niefang, *Carvalho 5763* (MA-599067). Wele Nzas: Région continentale, Acasakira, *Obama & Lejoly 571* (BRLU, MA-612202).

Previously reported from Centro Sur, Litoral and Wele Nzas (Cabezas *et al.* 2009: 113; Velayos *et al.* 2014: 59).

Floscopa aquatica Hua in Bull. Mus. Hist. Nat. Paris 1: 122 (1895)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bome, *Carvalho 5562* (MA-598772, MO, WAG)

Previously reported from Litoral (Cabezas *et al.* 2009: 113; Velayos *et al.* 2014: 60).

Floscopa confusa Brenan in Kew Bull. 15: 225 (1961)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: P.N. de Nsork, Obamico, *Nguema & Esono 264* (BRLU)

Previously reported from Wele Nzas (Cabezas *et al.* 2009: 113; Velayos *et al.* 2014: 60).

Floscopa glomerata (Willd. ex J.A.Schult & J.H.Schult.) Hassk., Commelin. Ind.: 166 (1870)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province). Madagascan Region.

Centro Sur: P.N. Monte Alén, transect de Monte Alén, *Van Reeth 19* (BRLU). Litoral: reserva de Río Campo, Ayamiken, *Lejoly 97/103* (BRLU). Wele Nzas: Nsork, *Obama*

& *Lejoly* 571 (BATA).

Previously reported from Centro Sur (Cabezas *et al.* 2009: 113; Velayos *et al.* 2014: 60), Litoral (Lejoly & Lisowski 1998: 147; Cabezas *et al.* 2009: 113; Velayos *et al.* 2014: 60) and Wele Nzas (Lejoly & Lisowski 1998: 147).

Floscopa mannii C.B. Clarke in DC. (ed.), Monogr. Phan. 3: 268 (1881)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Corisco Bay [Ilobi Island, Islas Elobeyes], *Mann* 1867 (K-307668, MA-713241). Wele Nzas: inselberg Akoak Banga, près de Ngong Mocomo (Nsork), *Lejoly & Elad* 98/076 (BRLU)

Previously reported from Litoral (Cabezas *et al.* 2009: 113; Velayos *et al.* 2014: 61), Wele Nzas (Cabezas *et al.* 2009: 113; Velayos *et al.* 2014: 61) and from Río Muni, without any precise locality (Brenan 1968a: 28; Guinea 1946: 253).

Murdannia simplex (Vahl) Brenan in Kew Bull. 1952: 186 (1952)

LC Native

Native to the Paleotropic. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region.

Centro Sur: Nfing Ntagan, *Pérez Viso* 2766 (MA-708898). Litoral: Ndote Nord, *Lisowski* 269 (BRLU); Corisco, *Obama* 716 (BRLU); Bebai, Campogebiet [región de Campo], *Tessmann* 292 (K); Macomo, 17 km from Bata on río Benito road, to río Benito, *Sandford* 6062 (K). Wele Nzas: inselberg de Mfui, 50 km à l'E de Añisok, *Obama & Lejoly* 363 (BRLU).

Previously reported from Centro Sur (Velayos *et al.* 2014: 61), Litoral (Lejoly & Lisowski 1998: 148; Cabezas *et al.* 2009: 113; Velayos *et al.* 2014: 61).

Palisota akouangoui E. Bidault & Burg in Candollea 74: 176 (2019)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: SE du Parc National de Monte Alén, au N du Rio Laña, près de la Cabaña Ecofac de Misergue, *Senterre et al.* 2102 (BRLU); SW du PN de Monte Alén, 2 km au NE du site de traversée du Rio Uolo pour aller au cataractas, *Senterre & Nguema* 3091 (BRLU).

Previously reported from Centro Sur (Bidault & van der Burg 2019: 178).

Palisota ambigua (P. Beauv.) C.B. Clarke in DC. (ed.), Monogr. Phan. 3: 131 (1881)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, transect de Monte Alén- transect de Mosumo, *Van Reeth* 275 (BRLU20938); P.N. Monte Alén, Engong, camino hacia Lovayat, *Pérez Viso* 837 (MA-689880); Bicaba, carretera de Niefang a Monte Alén, *Pérez Viso* 3460 (MA-687692); Niefang, explotación forestal de MATROGUISA, *Pérez Viso* 2255 (MA-690407); Mosumo, desde la cabaña de las cataratas hasta las cataratas del Laña, *Aedo & al.* 5132 (MA-691425); Ngong, *Cabezas* 141 (MA-695696); P.N. Monte Alén, río Vog-yii, *Pérez Viso* 3219 (MA-724251); P.N. Monte Alén, Santa Cruz, *Pérez Viso* 1195 (MA-793420); P.N. Monte Alén, transect de Monte Alén, *Van Reeth* 83 (BRLU20939); Área de Niefang. Poblado camino de Nkumekien, *López Serrano* 040503, 040504, 040505 (MA); P.N. Monte Alén, Bicurga, *Senterre & Ngomo* 481 (BRLU); inselberg de Bicurga, *Ngomo* 328 (BRLU); Engong, *Parmentier & Esono* 2685 (BRLU); P.N. Monte Alén, Mosumo, *Desmet & al.* 277 (BRLU); Área de Niefang. Poblado de Alan. Carretera de Micomesen, *López Serrano* 130635, 130636 (MA); P.N. Monte Alén, Encumenkien, *Senterre & Ngomo* 39 (BRLU); inselberg de Bicurga, *Parmentier & Esono* 3160 (BRLU); P.N. Monte Alén, Mosumo, *Senterre & Ngomo* 389, 518 (BRLU). Kie Ntem: Eloan, carretera Ebebiyi-Mongomo, *Pérez Viso* 4250 (MA-866880), 4259 (MA-793418); Nsoc Nsomo, camino que va desde Nsoc Nsomo a Bata, a unos 3 km de Nsoc Nsomo, Mocomo, *Cabezas & al.* 1269 (MA-831859), 1243 (MA-831924); Añam, *Fero & Esono* 52 (MA-808148). Litoral: Yengüe, Río Campo, *Pérez Viso* 2788 (MA-724249); Bata-Pembe-Entuba, estrada km 20-21, *Carvalho* 5234 (MA-599490, MO, WAG); Área de Machinda. Poblado de Ncon-Nbia (Paka), *López Serrano* 020401, 020402, 020403 (MA); Ndote Nord, village Jandje, *Lisowski M-115* (BRLU20941); village Jandje, Ndote Nord, *Eneme* 481 (BRLU20946); río Benito (Wele), camino de Kogasim, *Del Val s.n.* (MA-724243, MA-724247); Ndote Sud, près du village Etembue, *Lisowski M-561* (BRLU20942); Río Campo, carretera de San Joaquín de Adjiaikom hacia Ayamiken, *Pérez Viso* 2509 (MA-793421); Ayamiken, *Lisowski M-921* (BRLU20943); Etembue, réserve de Ndote, *Eneme & Lejoly* 39 (BRLU20945); Reserva de río Campo, Ayamiken, *Obama* 7 (BRLU20944); Mbini, camino entre Bisum y Monte Mitra, entrada al Parque Nacional Monte Alén, *Velayos & al.* 13461 (MA-884372); Bata-Río Campo, estrada kms. 42-43, regiao de Esadugma, *Carvalho* 4729 (MA-597973, MO, WAG). Wele Nzaz: inselberg de Mfui, 50 km à l'E de Añisok, *Obama & Lejoly* 398 (BRLU); Abama, *Guinea* 389bis (MA-793422); Alum, entre Mikomeseng y Nkue, *Pérez Viso* 3028 (MA-688930); Ncoho Yenguem, km. 38 de la carretera de Enkue, *Pérez Viso* 3697 (MA-724246)

Previously reported from Centro Sur, Litoral and Wele Nzaz (*Cabezas et al.* 2009: 114; *Velayos et al.* 2014: 63) and Río Muni, without any precise locality (*Brenan* 1968a: 35).

Palisota barteri Hook. in Bot. Mag., tab. 5318 (1862)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Monte Chocolate, *Senterre & Obiang* 3636 (BRLU); *Desmet & al.* 34, 125 (BRLU); P.N. Monte Alén, transect de Monte Alén, *Van Reeth* 45 (BRLU); Monte Alén, *Lisowski* 1538 (BRLU); P.N. Monte Alén, Engong, camino hacia el lago Atok, *Pérez Viso* 792 (MA-867223). Kie Ntem: Nfuiñ, a 29 km de Nsoc Nsomo por la pista

que va hacia Bata, *Cabezas & al. 1364* (MA-831792). Litoral: Muni, Madjani, *Nguema 101* (BRLU); Ayamiken, Río Campo, *Obama 17, 111* (BRLU). Wele Nzas: inselberg Akoak Ebanga, Ngong Mocomo, *Parmentier & Nguema 32* (BRLU); Oveng Esandong, km. 61 carretera Nkue-Mongomo, *Pérez Viso 3122* (MA-793415)

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 148; Guinea 1946: 142; Cabezas *et al.* 2009: 114; Velayos *et al.* 2014: 63), Litoral (Lejoly & Lisowski 1998: 148; Guinea 1946: 157, 159; Cabezas *et al.* 2009: 114; Velayos *et al.* 2014: 63), Wele Nzas (Cabezas *et al.* 2009: 114; Velayos *et al.* 2014: 63) and Río Muni, without any precise locality (Guinea 1946: 253).

Palisota bracteosa C.B. Clarke in DC. (ed.), Monogr. Phan. 3: 133 (1881)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, transect ECOFAC de Enkumenkien, *Senterre & Obiang 8, 3637* (BRLU); P.N. Monte Alén, transect de Monte Alén, *Lejoly 94/164* (BRLU). Litoral: Eman-ngos, *Obama 833* (BRLU); Ayamiken, Río Campo, *Obama 65* (BRLU); reserva de Río Campo, Ayamiken, *Lejoly 97/099* (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 148; Cabezas *et al.* 2009: 114; Velayos *et al.* 2014: 64) and Litoral (Lejoly & Lisowski 1998: 148; Cabezas *et al.* 2009: 114; Velayos *et al.* 2014: 64).

Palisota cristalensis E. Bidault & Burg in Candollea 74: 183 (2019)

EN Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Litoral: Ndote AP, rte forestière Engong, *Lejoly & Van Asbroek 32* (BRLU).

Previously reported from Litoral (Bidault & van der Burg 2019: 186)

Palisota decumbens Faden, Burg & E. Bidault in Fl. Gabon 55: 54 (2020)

DD Native

Tropical Africa. Guineo-Congolian Region (Congolian Province)

Previously recorded from Río Muni (Van der Burg & Bidault 2020: 54)

Palisota hirsuta (Thunb.) K. Schum. in Bot. Jahrb. Syst. 24: 347 (1897)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, senda que va desde Moka hasta hasta Bong, Monte Alén, *Pérez Viso 175* (MA-724256); Ngong, *Cabezas 147* (MA-695692); Alosa, Niefang, *R. Castelo & J. Juste s.n.* (MA-724241); P.N. Monte Alén, río Vog-yii, *Pérez Viso 3211* (MA-724250); Bisun, carretera de Niefang a Evinayong, *Pérez Viso 3395* (MA-687695); P.N. Monte Alén, Engong, *Pérez Viso 350* (MA-724254); Monte Alén, *Ngomo 23, 318* (BRLU). Litoral: Ayamiken, *Lejoly 97/96* (BRLU); Río Campo, cerca

de Bongoro, *Pérez Viso* 2216 (MA-724252); Ayamiken, *Obama* 51 (BRLU); Mokomo, km. 19 de la carretera de Kogo, *Pérez Viso* 3882 (MA). Wele Nzas: Eviam, carretera forestal de Bata a Niefang, *Pérez Viso* 2617 (MA-724248); Temelon, Añisok, *Pérez Viso* 4148 (MA-724242); Asoc, *Lejoly* 99/306 (BRLU); P.N. Nsork, Obamico, *Nguema, Esono & Lejoly* 255 (BRLU).

Previously reported from Centro Sur (*Lejoly & Lisowski* 1998: 148; *Guinea* 1946: 184i, 253, 142, 253; *Cabezas et al.* 2009: 114; *Velayos et al.* 2014: 64), Litoral (*Lejoly & Lisowski* 1998: 148; *Guinea* 1946: 159; *Cabezas et al.* 2009: 114; *Velayos et al.* 2014: 64), Wele Nzas (*Lejoly & Lisowski* 1998: 148; *Guinea* 1946: 232b; *Lejoly & Lisowski* 1999a: 120; *Cabezas et al.* 2009: 114; *Velayos et al.* 2014: 64) and Río Muni, without any precise locality (*Guinea* 1946: 253).

Palisota lagopus Mildbr. in Notizbl. Bot. Gart. Berlin 9: 248 (1925)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, 2 km au NE du site de traversée du río Wele pour aller aux cataractas, *Senterre & al.* 2386 (BRLU); P.N. Monte Alén, 200 m au S du transect ECOFAC de Mosumo à 1620 m de début du layon, *Senterre & Ngomo* 711, 819 (BRLU); P.N. Monte Alén, transect ECOFAC de Monte Chocolate, vers 1100 m d'origine, *Senterre & Ngomo* 3460 (BRLU); P.N. Monte Alén, au N du río Laña, près de la Cabaña ECOFAC de Misergue, *Senterre & Obiang* 3227 (BRLU); P.N. Monte Alén, Asok, *Pérez Viso* 424 (MA-724255).

Previously reported from Centro Sur (*Cabezas et al.* 2009: 115; *Velayos et al.* 2014: 65).

Palisota mannii C.B. Clarke in DC. (ed.), Monogr. Phan. 3: 132 (1881)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, transect ECOFAC de Enkumekien, *Senterre & Obiang* 3633, 3759 (BRLU); P.N. Monte Alén, transect ECOFAC de Monte Chocolate, *Senterre & Ngomo* 3532 (BRLU); P.N. Monte Alén, 5 km à l'O du village d'Engong, *Parmentier & Ngomo* 2817 (BRLU); inselberg de Bicurga, près du village de Bicurga, *Parmentier & Esono* 3217 (BRLU). Kie Ntem: Ngomgom, poblado de la pista que va de Nsok Nsomo a Bata, *Barberá & al.* 61 (MA-831638), 98 (MA-831492); Nfuiñ, *Cabezas & al.* 1302 (MA-831775). Litoral: Bebai, Campogebiet [región de Campo], *Tessmann* 680 (K); Wele Nzas: inselberg de Mungum, *Parmentier & Esono* 3411 (BRLU); inselberg de Akoak Ebanga, *Parmentier & Esono* 3576, 3577 (BRLU)

Previously reported from Centro Sur (*Cabezas et al.* 2009: 115; *Velayos et al.* 2014: 65) and Wele Nzas (*Cabezas et al.* 2009: 115; *Velayos et al.* 2014: 65).

Palisota plicata E. Bidault & Burg in Candollea 74: 193 (2019)

EN Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Centro Sur: P.N. Monte Alén, *Senterre & Ngomo* 896 (BRLU, MA); Monte Alén, *Senterre & al.* 2807 (BRLU); N de P.N. Monte Alén, transect du Ecofac de Monte Chocolate, *Senterre & Ngomo* 3457, 3575, 3576 (BRLU).

Previously reported from Centro Sur (Bidault & van der Burg 2019: 195)

Palisota preussiana K.Schum. ex C.B.Clarke in Oliv. (ed.), Fl. Trop. Afr. 8: 30 (1901)
VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Eukumenkien, *Velayos & Pérez Viso* 9324 (MA-834934)

Previously reported from Centro Sur (*Velayos et al.* 2014: 66) and from Río Muni, without any precise locality (Guinea 1946: 253).

Palisota repens E.Bidault & Burg in Candollea 74: 195 (2019)

NE Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Centro Sur: Monte Alén, *Ngomo* 948 (BRLU); Monte Alén, transect dit de Monte Alén et la Cabaña Bong, *Senterre & Obiang* 2665 (BRLU); P.N. Monte Alén, *Senterre & Obiang* 4138 (BRLU). Litoral: Bata, alrededores de Akonikieng, *Carvalho* 5010 (MA-867231. MO, WAG); Ngoma, *Lejoly & Elad* 98/134 (BRLU).

Previously reported from Centro Sur (Bidault & van der Burg 2019: 198) and Litoral (Bidault & van der Burg 2019: 198)

Palisota satabiei Brenan in Kew Bull. 39: 831 (1984)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, transect ECOFAC de Mosumo, *Senterre & Ngomo* 246, 579 (BRLU); P.N. Monte Alén, près du transect ECOFAC de Nkumenkien, *Senterre & Obiang* 3634 (BRLU); P.N. Monte Alén, traversée du río Wele aux cataractas, *Senterre & al.* 1779, 2041, 2401 (BRLU). Litoral: Réserve de Ndoté, *Senterre & Obiang s.n.* (BRLU); Bata-Senge, estrada km 27, antigua explotación forestal de EXFOSA, *Carvalho* 6116 (MA-619289); along River Metom, off the road MW 52 km from Bata on the Río Benito road, tributary of the river Benito, *Sandford* 5876 (K)

Previously reported from Centro Sur and Litoral (Cabezas *et al.* 2009: 115; *Velayos et al.* 2014: 66).

Palisota schweinfurthii C.B.Clarke in DC. (ed.), Monogr. Phan. 3: 132 (1881)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from

Bioko.

Centro Sur: P.N. Monte Alén, Moka, *Pérez Viso 4113* (MA-793424); Nsung, entre Monte Alén y Evinayong, *Pérez Viso 1675* (MA-793426). Litoral: Bebai, Campogebiet [región de Campo], *Tessmann 663* (K); Bolondo, *Guinea 655* (MA-793423). Wele Nzaz: Mbiet, Añisok, *Pérez Viso 3594* (MA-793425)

Previously reported Centro Sur, Litoral and Wele Nzaz (Velayos *et al.* 2014: 67) and from Río Muni, without any precise locality (Brenan 1968: 35; Guinea 1946: 253).

Palisota thollonii Hua in Bull. Soc. Bot. France 41: 52 (1894)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzaz: Nkolentangan, *Tessmann 62* (K).

Previously reported from Wele Nzaz (Velayos *et al.* 2014: 67).

Pollia condensata C.B. Clarke in DC. (ed.), Monogr. Phan. 3: 125 (1881)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: Enkumekien, *Pérez Viso 4084* (MA-792811); Ngong, *Cabezas 153* (MA-695690); P.N. Monte Alén, subida al monte Alén, *Pérez Viso 114* (MA-703878); Bata-Niefang, Nhogo Ebaiñ, *Pérez Viso 2700bis* (MA-703858); P.N. Monte Alén, *Velayos & al. 10023* (MA-703859); P.N. Monte Alén, Mosumu, *Pérez Viso 640* (MA-687145); P.N. Monte Alén, Moka, *Pérez Viso 80* (MA-703861); Monte Alén, *Ngomo 111* (BRLU); P.N. Monte Alén, transect de Monte Alén, *Desmet & al. 190* (BRLU), *Lejoly 94/163* (BRLU), *Van Reeth 82, 349* (BRLU); P.N. Monte Alén, transect ECOFAC de Mosumo, *Senterre & Ngomo 506* (BRLU). Kie Ntem: Nfuiñ, *Cabezas & al. 1359* (MA-831787). Litoral: Mbini, *Pérez Viso 3350* (MA-687724), *3351* (MA-687697); Bata-Kogo, km 67, *Pérez Viso 1852* (MA-703860). Wele Nzaz: Région de Añisok, environs de Temelon, près du village Ayene, *Lisowski 600* (BRLU); Akok, carretera Acurenam-Aconibe, *Pérez Viso 2017* (MA-691421).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 148; Cabezas *et al.* 2009: 115; Velayos *et al.* 2014: 67), Litoral (Guinea 1946: 157; Cabezas *et al.* 2009: 116; Velayos *et al.* 2014: 67), Wele Nzaz (Lejoly & Lisowski 1998: 148; Cabezas *et al.* 2009: 116; Velayos *et al.* 2014: 67) and Río Muni, without any precise locality (Guinea 1946: 252).

Polyspatha hirsuta Mildbr. in Notizbl. Bot. Gart. Berlin-Dahlem 9: 256 (1925)

DD Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Río Muni (Van der Burg & Bidault 2020: 78)

Polyspatha paniculata Benth. in Hook. (ed.), Niger Fl.: 543 (1849)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, station ECOFAC, *De Wilde & al. 12017* (BRLU); Abobem, Niefang, *Pérez Viso 4192* (MA-687051); P.N. Monte Alén, Engong, *Velayos & al. 9499* (MA-703201); P.N. Monte Alén, Engong, *Pérez Viso 2667* (MA-703205); Monte Alén, *Lisowski 1439* (BRLU); Bicurga, *Parmentier & Esono 3161* (BRLU), *Lisowski 1494* (BRLU), *Parmentier 1796* (BRLU); N du P.N. Monte Alén, *Senterre & al. 2780* (BRLU). Kie Ntem: Ngomgom, *Barberá & al. 111* (MA-831684). Litoral: Bata-Niefang, *Carvalho 5679* (BRLU, MA-598973, WAG); Bebai, Campogebiet [región de Campo], *Tessmann 703* (K); Ndote Nord, *Lisowski 165* (BRLU); Mokomo, *Pérez Viso 3896* (MA-703200). Wele Nzaz: entre Nsuameyong et inselberg Akuom, *Obama & Lejoly 429* (BRLU). Río Muni: *Sandford 6046* (K).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 148; Cabezas *et al.* 2009: 116; Velayos *et al.* 2014: 68-69), Litoral (Lejoly & Lisowski 1998: 148; Guinea 1946: 159; Cabezas *et al.* 2009: 116; Velayos *et al.* 2014: 68-69), Wele Nzaz (Lejoly & Lisowski 1998: 148; Cabezas *et al.* 2009: 116; Velayos *et al.* 2014: 68-69) and Río Muni, without any precise locality (Brenan 1968: 42; Guinea 1946: 254).

Stanfieldiella brachycarpa (Gilg & Ledermann ex Mildbr.) Brenan in Kew Bull. 14: 285 (1960)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, transect de Monte Alén, *Senterre & al. 2757* (BRLU); *Parmentier & Esono 3440, 3043* (BRLU); *Van Reeth 17* (BRLU); *Parmentier & Nguema 402* (BRLU); *Lejoly 93/341* (BRLU). Kie Ntem: Ngomgom, *Barberá & al. 118* (MA-831691).

Previously reported from Centro Sur and Kie Ntem (Velayos *et al.* 2014: 69).

Stanfieldiella imperforata (C.B. Clarke) Brenan in Kew Bull. 14: 284 (1960)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, 5 km au NO de Engong, inselberg, *Lejoly 99/453* (BRLU); P.N. Monte Alén, Moka, *Pérez Viso 874* (MA-689884); P.N. Monte Alén, Esamalang, camino hacia Mondung, *Pérez Viso 1132* (MA-687142); Nfing Ntagan, poblado en la carretera forestal de Niefang a Bata, a continuación de Mosumu, *Pérez Viso 2749* (MA-703173); P.N. Monte Alén, Bong, senda que va hacia el lago Atok, *Pérez Viso 1322* (MA-703204); P.N. Monte Alén, desde Misergue hasta el río Laña,

Pérez Viso 3233 (MA-703874); inselberg de Bicurga, près du village de Bicurga, *Lisowski* 1499 (BRLU); *Parmentier* 1687 (BRLU); P.N. Monte Alén, transect ECOFAC de Enkumekien, *Senterre & Ngomo* 20 (BRLU); Monte Alén, *Lisowski* 1441 (BRLU); P.N. Monte Alén, 5 km au NO de Engong, inselberg, *Parmentier & Esono* 2712 (BRLU); P.N. Monte Alén, NO du transect ECOFAC de Monte Chocolate, *Senterre & Obiang* 3794 (BRLU); P.N. Monte Alén, au N du río Laña, près de la Cabaña ECOFAC de Misergue, *Senterre & Obiang* 3284 (BRLU); P.N. Monte Alén, 1,5 km au NO de Moca, *Senterre & al.* 2808 (BRLU); inselberg de Bicurga, près du village de Bicurga, *Parmentier & Esono* 3115 (BRLU). Kie Ntem: Akam, camino a Oyò, *Fero & Esono* 152 (MA-808749). Litoral: Río Campo, cerca de Bongoro, *Pérez Viso* 2210 (MA-703877); Bata-Niefang, estrada km 35, entre Adjape y Río Sama, *Carvalho* 5893 (MA-599789, WAG); Etembue, réserve de Ndote, *Eneme & Lejoly* 48 (BRLU); Ndote Sud, Espigon, *Lisowski* 1135 (BRLU); réserve de Ndote, *Eneme* 159 (BRLU); Bata-Niefang, estrada km. 35, en dirección de Adjape a la zona de Comayá, *Carvalho* 5795 (MA-609958, WAG). Wele Nzaz: Région continentale, Acasakira, 3 Km au Sud de Nsork, *Obama & Lejoly* 545 (MA-612120); P.N. Nsork, Obamicu, *Nguema & al.* 276 (BRLU); inselberg d'Asoc, *Parmentier & Esono* 3730 (BRLU); Mofú, cerca de Oven, *Pérez Viso* 2137 (MA-702674); inselberg d'Akuom, *Parmentier & Nguema* 340bis (BRLU); inselberg de Akoak Ebanga, *Parmentier & Nguema* 201, 491 (BRLU); Acasakira, *Obama & Lejoly* 545 (BRLU); región d'Añisok, *Lisowski* 351 (BRLU)

Previously reported from Centro Sur (*Lejoly & Lisowski* 1998: 148; *Cabezas et al.* 2009: 117; *Velayos et al.* 2014: 70), Litoral (*Lejoly & Lisowski* 1998: 148; *Guinea* 1946: 159; *Cabezas et al.* 2009: 117; *Velayos et al.* 2014: 70), Kie Ntem (*Velayos et al.* 2014: 70) and Wele Nzaz (*Lejoly & Lisowski* 1998: 148; *Cabezas et al.* 2009: 117; *Velayos et al.* 2014: 70).

Stanfieldiella oligantha (Mildbr.) Brenan in Kew Bull. 14: 285 (1960)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Mbini, *Velayos & al.* 13456 (MA-884455).

Not previously reported from Río Muni.

Tricarpelema africanum Faden in Novon 17(2): 160-163 (2007)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bicurga, *Lejoly* 99/483 (US); inselberg de Bicurga, *Parmentier & Esono* 3101 (BRLU), *Parmentier & Esono* 3253 (BRLU). Kie Ntem: Nfuiñ, *Cabezas & al.* 1324 (MA-831960). Wele Nzaz: Région d'Anisok, au-dessus du village Nzuamayong, inselberg Akuom, *Lisowski* 640 (BRLU); monument naturelle de Piedra Nzaz, *Lejoly* 99/244 (BRLU); inselberg Akuom, 6 km à l'est de Nzuamayong, *Obama & Lejoly* 645 (BRLU); inselberg Dumu, *Parmentier & Esono* 3586 (BRLU); inselberg de Dumu, *Porembski et al.* 3573 (BRLU, US); inselberg de Mfui, 50 km à l'E de Añisok, *Obama & Lejoly* 363 (BRLU), *Nguema* 179 (US); inselberg de Mfui, *Porembski & al.* 3512 (BRLU).

Previously reported from Centro Sur (Cabezas *et al.* 2009: 117), Kie Ntem (Velayos *et al.* 2014: 70) and Wele Nzas (Cabezas *et al.* 2009: 117).

COSTACEAE

Costus afer Ker Gawl. in Bot. Reg. 8, tab. 683 (1823)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region. Also known from Bioko.

Centro Sur: P.N. Monte Alén, Misergue-Churu, *Pérez Viso 1644* (MA-708901); P.N. Monte Alén, Monte Alén, carretera Monte Alén-Moka, *Velayos & al. 9476* (MA-708899). Litoral: Mbini, Senye I, salida del poblado hacia Monte Mitra, *Velayos & al. 13399* (MA-884429); Área de Machinda. Poblado de Njacom, *López Serrano 120303* (MA); réserve de río Campo, près du village Niuma, *Lisowski M-996* (BRLU); au bord du fleuve Uele, Ndote Nord, près du village Jandje, *Lisowski M-118* (BRLU), *M-293* (BRLU); près du village Mbini, *Lisowski M-572* (BRLU); Etembue, réserve de Ndote, *Eneme & Lejoly 75* (BRLU); Sendje, *Pérez Viso 1622* (MA-714594); reserva de Río Campo, Ayamiken, 3 km au N du village, *Lejoly 97/008* (BRLU); desembocadura del río Campo, *Pérez Viso 2170* (MA-690402); Río Campo, cerca de Bongoro, *Pérez Viso 2187* (MA-690401); Corisco, *Pérez Viso 1890* (MA-688926); Bata, Miboman, km 27 carretera Bata-Movo, *R. Castelo s.n.* (MA-319729)

Previously reported from Centro Sur (Guinea 1946: 143, 184i; Velayos *et al.* 2014: 25), Litoral (Lejoly & Lisowski 1998: 174; Velayos *et al.* 2014: 25) and Río Muni, without any precise locality (Guinea 1946: 261).

Costus dinklagei K.Schum. in Engl. (ed.), Pflanzenr. IV. 46: 408 (1904)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, dalle rocheuse, 3 km l'O de la station de ECOFAC, *Lejoly 99/425* (BRLU); P.N. Monte Alén, 5 km au NO de Engong, inselberg, *Lejoly 99/107* (BRLU).

Previously reported from Centro Sur (Velayos *et al.* 2014: 26) and from Wele Nzas (Parmentier 2001: 915).

Costus dubius (Afzel.) K.Schum. in Engl. (ed.), Pflanzenr. IV. 46: 409 (1904)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Centro Sur: Nsung, entre Monte Alén y Evinayong, *Pérez Viso 1694* (MA-701988). Litoral: Ngoma, *Lejoly & M. Elad 98/118* (BRLU).

Previously reported from Litoral and Centro Sur (Velayos *et al.* 2014: 26).

Costus gabonensis Koechlin in Aubréville & al. (eds.), Fl. Gabon 9: 82 (1964)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Kie Ntem: Eloan, carretera Ebebiyin-Mongomo, *Pérez Viso* 4264 (MA-714595).

Previously reported from Kie Ntem (Velayos *et al.* 2014: 26).

Costus lateriflorus Baker in Oliv. (ed.), Fl. Trop. Afr. 7: 301 (1898)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Monte Alén, *Ngomo* 647 (BRLU); P.N. Monte Alén, dalle rocheuse 3 km l'O de ECOFAC, *Lejoly* 99/044 (BRLU, MA-621794); P.N. Monte Alén, dalle rocheuse de Monte Alén, à 1h 30 de marche du site ECOFAC, *Parmentier & Esono* 3045 (BRLU); P.N. Monte Alén, transect de Mosumo, *Van Reeth* 267 (BRLU); P.N. Monte Alén, transect de Monte Alén, *Lejoly* 94/191 (BRLU); inselberg de Bicurga, près du village Bicurga, *Parmentier* 1799 (BRLU); P.N. Monte Alén, dalle rocheuse 3 km l'O de ECOFAC, *Lejoly* 99/041 (BRLU); P.N. Monte Alén, 5 km au NO de Engong, inselberg, *Lejoly* 99/137 (BRLU); *Parmentier & Esono* 2835 (BRLU); 2722 (BRLU); SO du P.N. Monte Alén, transect ECOFAC de Mosumo à 1420 m du début du layon, *Senterre & Ngomo* 802 (BRLU); P.N. Monte Alén, Mosumo, confluence río Laña avec río Mbini, *Obama & Lejoly* 681 (BRLU); SO du P.N. Monte Alén, 2 km au NE du site de traversée du río Uele pour aller aux cataractas, *Senterre & al.* 2064 (BRLU); transect du Monte Alén, *Desmet & al.* 213 (BRLU); inselberg de Bicurga, près du village Bicurga, *Parmentier* 1648 (BRLU). Litoral: estuaire du Río Muni, Ncoho, *Nguema* 136 (BRLU). Wele Nzas: inselberg de Mungum, *Parmentier & Esono* 3326 (BRLU); Cucumancoc, dalle rocheuse Mungum, *Lejoly* 99/366 (BRLU); Obamicu, P.N. Nsork, *Nguema & Esono* 261 (BRLU).

Previously reported from Centro Sur (*Lejoly & Lisowski* 1998: 174; *Parmentier* 2001: 916; *Velayos et al.* 2014: 27), Litoral (*Maas-van de Kamer et al.* 2016: 300; *Velayos et al.* 2014: 27) and Wele Nzas (*Parmentier et al.* 2001: 363; *Velayos et al.* 2014: 27).

Costus ligularis Baker in Oliv. (ed.), Fl. Trop. Afr. 7: 298 (1898)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Kie Ntem: Nsok Nsomo, *Cabezas & al.* 1250 (MA-831804). Litoral: Muni river, *Mann* 1628 (K).

Previously reported from Litoral (*Maas-van de Kamer et al.* 2016: 303; *Velayos et al.* 2014: 28).

Costus lilaceus Maas & H.Maas in *Blumea* 61: 303 (2016)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, alrededores del lago Atok, *Pérez Viso* 19 (MA-693998); Río Muni, along River Metom, *Sandford* 5867 (K). Litoral: Bata-Monte Alén, *Carvalho* 5488 (BRLU, MA-599376, MO, WAG).

Previously reported from Centro Sur (Maas-van de Kamer *et al.* 2016: 304).

Costus lucanusianus J.Braun & K.Schum. in *Mitt. Deutsch. Schutzgeb.* 2: 151 (1889)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: inselberg de Bicurga, près du village de Bicurga, *Parmentier* 1604 (BRLU); 1719 (BRLU); Niefang, explotación forestal de MATROGUISA, *Pérez Viso* 2299 (MA-690405); Bisun, carretera de Niefang a Evinayong, *Pérez Viso* 3396 (MA-687689). Kie Ntem: Nsoc Nsomo, *Cabezas & al.* 1248 (MA-831919). Litoral: Bata, poblado de Asonga, *Gómez Marín & al.* 72 (MA-854018); district Mbini, près du village Sendje, *Lisowski* 589 (BRLU); estuaire du Río Muni, village Mayang, bord de la rivière Mitong, *Lisowski* 887 (BRLU); reserva de Río Campo, Ayamiken, 3 km au N du village, *Lejoly* 97/016 (BRLU); 97/007 (BRLU). Wele Nzas: inselberg Piedra Nzas, *Lejoly* 99/170 (BRLU); inselberg de Dumu, près du village de Dumu, *Parmentier & Esono* 3598 (BRLU); Ncoho Yenguem, km. 38 de la carretera de Enkue, *Pérez Viso* 3701 (MA-701989).

Previously reported from Centro Sur (Guinea 1946: 184i; Velayos *et al.* 2014: 28), Litoral (Lejoly & Lisowski 1998: 174; Velayos *et al.* 2014: 28), Wele Nzas (Parmentier *et al.* 2001: 360, Guinea 1946: 181; Velayos *et al.* 2014: 28) and Río Muni, without any precise locality (Parmentier 2001: 915; Guinea 1946: 261).

Costus phyllocephalus K.Schum. in *Bot. Jahrb. Syst.* 15: 420 (1892)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: transect de Monte Alén, *Desmet & al.* 210 (BRLU). Wele Nzas: inselberg de Piedra Nzas, *Parmentier & Nguema* 394 (BRLU).

Previously reported from Wele Nzas (Parmentier *et al.* 2001: 365).

Costus tappenbergianus J.Braun & K.Schum. in *Ber. Deutsch. Schutzgeb.* 2: 152 (1889)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, 8,5 km à l'E cabaña de Mosumo, *Senterre & Obiang s.n.* (BRLU); inselberg de Bicurga, près du village de Bicurga, *Parmentier 1628* (BRLU); Esamalan, *Desmet & al. 310* (BRLU); Mosumo, *Desmet & al. 280* (BRLU); P.N. Monte Alén, *Senterre & Obiang s.n.* (BRLU); inselberg de Bicurga, près du village de Bicurga, *Parmentier 1587* (BRLU); P.N. Monte Alén, 3,7 km à l'O de Aconangui, *Senterre & Obiang s.n.* (BRLU); SO du P.N. Monte Alén, sur le transect ECOFAC de Mosumo à 500 m du début du layon, *Senterre & Ngomo 204* (BRLU); 565 (BRLU); 2479 (BRLU); SO du P.N. Monte Alén, 2 km au NE du site de traversée du río Uele pour aller aux cataractas, *Senterre & Nguema 3036* (BRLU); 3037 (BRLU); P.N. Monte Alén, 2,3 km à l'O de Aconangui, *Senterre & Obiang s.n.* (BRLU). Litoral: réserve de Ndote, *Senterre & Obiang s.n.* (BRLU). Wele Nzaz: Eviam, carretera forestal de Bata a Niefang, *Pérez Viso 2600* (MA-702102).

Previously reported from Centro Sur and Litoral (Velayos *et al.* 2014: 28, sub *C. phaeotrichus*).

Paracostus englerianus (K.Schum.) C.D.Specht in Taxon 55: 162 (2006)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: SO de Parc National de Monte Alén, *Senterre & al. 2404* (BRLU); P.N. Monte Alén, Mosumu, *Pérez Viso 1260* (MA-687060); SO du P.N. Monte Alén, à la station ECOFAC de Mosumo, *Senterre & Ngomo 243* (BRLU); *s.n.* (BRLU); Evinayong, *Guinea 146-127* (MA-714591); inselberg de Bicurga, près du village de Bicurga, *Parmentier 1820* (BRLU); P.N. Monte Alén, 2,3 km à l'O de Aconangui, *Senterre & Obiang s.n.* (BRLU); P.N. Monte Alén, transect de Mosumo, *Van Reeth 291* (BRLU); SO de Parc National de Monte Alén, 2 km au NE du site de traversée du río Uolo pour aller aux cataractas, *Senterre & Nguema s.n.* (BRLU); transect de Enkumekien [Ncumekie], *Desmet & al. 163* (BRLU); región de Añisok, parc de Temelon, près du village Ayene, *Lisowski 601.1* (BRLU); inselberg de Bicurga, près du village de Bicurga, *Parmentier & Esono 3116* (BRLU). Litoral; Ngoma, 10 km SE de Etembue, *Lejoly & M. Elad 98/139* (BRLU); Bata-Senge-Mitom-Emangós, entre el poblado de Emangós y Ncô, *Carvalho 6412* (MA-620771, WAG). Wele Nzaz: inselberg Acoak Banga, près de Ngong Mocomo (Nsork), *Nguema & Parmentier 489* (BRLU); *Parmentier & Esono 3555* (BRLU); Parc National de Nsork, Obamicu, *Nguema, Esono & Lejoly 256* (BRLU). Río Muni: *Sandford 6048* (K).

Previously reported from Centro Sur, Litoral and Wele Nzaz (Velayos *et al.* 2014: 29).

CYPERACEAE

Actinoschoenus thouarsii (Kunth) Benth. in Hook.f. (ed.), Icon. Pl. 14: 33, tab. 1346 (1881)

NE Native

Native to the Paleotropic. Guineo-Congolian Region (Nigerian-Cameroonian Province); Madagascan Region.

Centro Sur: inselberg de Bicurga, près du village Bicurga, *Parmentier 1740bis* (BRLU); 1566 (MA-712361); *Parmentier & Esono 3093* (BRLU); Bicurga, dalle rocheuse, *Lejoly 99/493* (BRLU). Kie Ntem: Nfuiñ, *Cabezas & al. 1327* (MA-831963). Litoral:

Ndote Sud, *Lisowski M-535* (BRLU); Corisco, *Velayos & al. 9958* (MA-706855). Wele Nzaz; inselberg Dumu, près du village Dumu, *Parmentier & Esono 3627* (MA-712338); inselberg n° 3; südlich Mongomo, 20 km südl. Ende der Asphaltstrasse (Assoc), *S. Porembski, Biedinger & Nguema 3567* (BATA); 3567 (BRLU); inselberg Asoc, *Obama & Lejoly 489* (BATA, BRLU); 99/265 (BRLU); inselberg Piedra Nzaz, *Lejoly 99/204* (BATA, BRLU); région d'Añisok, au dessus du village Nzuamayong, Inselberg Akuom, *Lisowski M-723* (BRLU); monument naturel de Piedra Nzaz, dalle rocheuse d'Andom, *Lejoly 99/234* (BRLU); inselberg de Piedra Nzaz, *G. Joffroy 291* (BRLU); inselberg d'Asoc, à côté de la route près du village d'Asoc, à 15 km de Mongomo, *Parmentier & Esono 3693* (BRLU); inselberg de Mungum, *Parmentier & Esono 3376* (BRLU).

Previously reported from Centro Sur (Cabezas *et al.* 2004: 4; Velayos *et al.* 2014: 84), Litoral (Cabezas *et al.* 2004: 4; Velayos *et al.* 2014: 84), Kie Ntem (Velayos *et al.* 2014: 84) and Wele Nzaz (Cabezas *et al.* 2004: 4; Velayos *et al.* 2014: 84).

Afrotrilepis pilosa (Boeckeler) J.Raynal in *Adansonia* 3: 258 (1963)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bicurga, inselberg de Bicurga, *Parmentier 1662* (BRLU); P.N. Monte Alen, 5 km au NO de Engong, inselberg, *Lejoly 99/084* (BATA); inselberg du Bicurga, près du village de Bicurga, *Parmentier 1556* (MA-712352). Wele Nzaz: cerro cúpula de Asok, *Guinea 428* (MA-708472); Kukumangkok, 13 km O de Aconibe, inselberg Mongum, *Eneme & Lejoly 77* (BRLU); Nzuamayong, *Lisowski M-644* (BATA); Cucumancoc, *Esono & Lejoly 77* (BATA); inselberg n° 3; südlich Mongomo, 20 km südl. Ende der Asphaltstrasse (Assoc), *Porembski & al. 3566* (BATA); inselberg de Akoak Ebanga, à 1h de marche du village de Ngong Mocomo, à 10 km de Nsork, *Parmentier & Esono 3483* (MA-712337); cerro cúpula de Asok, *Guinea 17* (MA-708462); 426 (MA-708471); dalle rocheuse à 3 km au S de Asoc, *Lejoly 99/281* (MA-621850); 99/280 (MA-621849); Río Muni: *Esono & Ndong 565* (MA-804268).

Previously reported from Centro Sur (Cabezas *et al.* 2004: 4; Velayos *et al.* 2014: 84) and Wele Nzaz (Lejoly & Lisowski 1998: 149; Lejoly, J. & Lisowski 1999: 118; Cabezas *et al.* 2004: 4; Guinea 1946: 184k, 241; Velayos *et al.* 2014: 84).

Bulbostylis abortiva (Steud.) C.B.Clarke in J.Buchan (ed.), *Nyassaland*: 21 (1889)

NE Native

Tropical and Subtropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region.

Litoral: Bome, *Fero & Barberá 332* (MA-844554); Corisco, *Velayos & al. 9946* (MA-708469); Corisco, Endote, *Pérez Viso 1945* (MA-651548); 1954 (MA-651547); Bata-Bome, *Carvalho 4704* (MA-597836, MO, WAG).

Previously reported from Litoral (Cabezas *et al.* 2004: 5; Velayos *et al.* 2014: 86).

Bulbostylis coleotricha (Hochst. ex A.Rich.) C.B.Clarke in T.Durand & Schniz (eds.), Consp. Fl. Afric. 5: 613 (1894)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Utonde, *Guinea* 137-726 (MA-651835).

Previously reported from Litoral (Cabezas *et al.* 2004: 5; Velayos *et al.* 2014: 87).

Bulbostylis densa (Wall.) Hand.-Mazz. in Vegetationsbilder 20(7): 16 (1930)

LC Native

Native to the Paleotropic. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Litoral: Espigon, *Eneme & Lejoly* 148 (BATA); Ndote Sud, environs de Etembue, *Lisowski M-1088* (BATA); Ndote Sud, près du village Etembue, *Lisowski M-539* (BATA). Wele Nzas; Région d'Añisok, au-dessus du village Nzuamayong, inselberg de Akuom, *Lisowski M-720* (BRLU); inselberg d'Asoc, a côté de la route près du village d'Asoc, *Parmentier & Esono* 3701 (BRLU); Kukumangkok, Inselberg Mongum, *Eneme & Lejoly* 78 (BRLU); inselberg n° 4, südlich Mongomo, Dumu, *S. Porembski, Biedinger & Nguema* 3601 (BATA); inselberg Piedra Nzas, *Lejoly* 99/178 (BATA); Kukumangkok (13 km Ouest de Aconibe), Inselberg Mongon, *Esono & Lejoly* 78 (BATA); inselberg de Mungum, *Parmentier & Esono* 3366 (MA-712359).

Previously reported from Litoral (Cabezas *et al.* 2004: 5; Velayos *et al.* 2014: 87) and Wele Nzas (Cabezas *et al.* 2004: 5; Velayos *et al.* 2014: 87).

Bulbostylis filamentosa (Vahl) C.B.Clarke, Consp. Fl. Afr. 5: 613 (1895)

NE Native

Tropical and Subtropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region.

Litoral: desembocadura del río Campo, *Pérez Viso* 2161 (MA-651572); Bata-Asonga, *Carvalho* 4658 (BRLU, MA-597283, MO, WAG); Bata-río Utonde, *Carvalho* 5230 (MA-599495, MO, WAG).

Previously reported from Litoral (Velayos *et al.* 2014: 88)

Bulbostylis hispidula subsp. **brachyphylla** (Cherm.) R.W.Haines in R.W.Haines & K.A.Lye, Sedges & Rushes E. Afr., App. 3: 1 (1983)

NE Native

Tropical and Subtropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón.

Centro Sur: inselberg de Bicurga, près du village de Bicurga, *Parmentier & Esono* 3258 (BRLU). Litoral: réserve de río Campo, près du village Niuma, *Lisowski* M-995 (BATA); au S de Bata, près du fleuve Ekuka, *Lisowski* M-1198 (BATA); Ndote Nord, village Jandje, *Lisowski* M-146 (BATA); praderas de Bolondo, *Guinea* 27 (MA-651836); Corisco, Endote, *Pérez Viso* 1943 (MA-651546); Bata, entre Asonga e o aeroporto, *Carvalho* 4634 (MA-597322, MO, WAG); Utonde, camino que va de la orilla del río a la carretera de Bata, *Barberá & al.* 270 (MA-844256). Wele Nzaz: inselberg Dumu, près du village Dumu, *Parmentier & Esono* 3616 (BRLU); inselberg de Akuom, *Lisowski* M-725 (BRLU).

Previously reported from Centro Sur (Cabezas *et al.* 2004: 5; Velayos *et al.* 2014: 88), Litoral (Cabezas *et al.* 2004: 5; Guinea 1946: 178; Lejoly & Lisowski 1998: 149; Velayos *et al.* 2014: 88) and Wele Nzaz (Cabezas *et al.* 2004: 5; Velayos *et al.* 2014: 88).

Bulbostylis laniceps C.B.Clarke in Oliv. (ed.), Fl. Trop. Afr. 8: 434 (1902)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral; Ndote Nord, village Jandje, *Lisowski* M-45 (BRLU); M-1321 (BRLU); Bome, *Pérez Viso* 1729 (MA-651549); Corisco: praderas de Endote, *Pérez Viso* 1934 (MA-651553); entre Diádive y Punta Mbonda, *Guinea* 39 (MA-651753); Ndote Sud, près du village Etembue, *Lisowski* M-526 (BATA); M-1090 (BATA); Bata-Bome, *Carvalho* 4768 (MA-597680, MO, WAG); au S de Bata, au S du fleuve Ekuka, *Lisowski* M-1588 (BATA); Aeródromo, *Guinea* 649 (MA); Bata, *Nguema* 1102 (BRLU); Punta Mbonda, *Guinea* 139-785 (MA-651754); Utonde, *Guinea* 744 (MA); Bolondo, *Guinea* 28, 696, 700-701 (MA); Río Muni: *Lisowski* M-1593 (BRLU).

Previously reported from Litoral (Cabezas *et al.* 2004: 5-6; Guinea 1946: 178; Lejoly & Lisowski 1998: 149; Velayos *et al.* 2014: 89) and Río Muni, without any precise locality (Guinea 1946: 239; Cabezas *et al.* 2004: 5-6).

Bulbostylis pusilla (Hochst. ex A.Rich.) C.B.Clarke in T.Durand & Schniz (eds.), Consp. Fl. Afric. 5: 615 (1894)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Karoo-Namib Region.

Litoral: Bata-Pembe, estrada kms 31-32, *Carvalho* 5173 (MA-599473, MO, WAG).

Previously reported from Litoral (Cabezas *et al.* 2004: 6; Velayos *et al.* 2014: 89).

Carex echinoclhoe Kunze in Schkuhr, Beschr. Riedgräs., Suppl.: 47 (1841)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian

Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alen, *Parmentier & Esono 3077* (MA-714553); 2793 (MA-714550).

Previously reported from Centro Sur (Velayos *et al.* 2014: 90)

Cyperus articulatus L., Sp. Pl.: 44 (1753)

LC Native

Pantropical and Pansubtropical. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Litoral: Bata-Asonga, terrenos incultos anexos as caracolas da Cooperación Española em Asonga, *Carvalho 4694* (MA-597333, MO, WAG).

Previously reported from Litoral (Cabezas *et al.* 2004: 6; Guinea 1946: 176; Velayos *et al.* 2014: 96) and Río Muni, without any precise locality (Guinea 1946: 238).

Cyperus compressus L., Sp. Pl.: 46 (1753)

LC Native

Pantropical and Pansubtropical. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Karoo-Namib Region; Madagascan Region. Also known from Annobón and Bioko.

Litoral: Bata, *Nguema 1249* (BRLU); Bata, quartier Nord, *Lisowski M-240* (BATA); Bata, *Lisowski M-1179* (BATA).

Previously reported from Litoral (Lejoly & Lisowski 1998: 149; Cabezas *et al.* 2004: 7; Velayos *et al.* 2014: 97).

Cyperus crassipes Vahl, Enum. Pl. 2: 299 (1805)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region.

Litoral: Corisco, barra de arena de Hoco, *Pérez Viso 2002* (MA-652522).

Previously reported from Litoral (Cabezas *et al.* 2004: 7; Velayos *et al.* 2014: 97).

Cyperus cyperoides (L.) Kuntze, Rev. Gen. Pl. 3: 333 (1898)

LC Native

Paleotropical. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Niefang, Bindeng, *Pérez Viso* 2364 (MA-651560); carretera forestal Bata-Niefang, Nhogo Ebaiñ, *Pérez Viso* 2673bis (MA-651562); P.N. Monte Alén, transect de Monte Alén, *Van Reeth* 338 (BRLU). Kie Ntem: Obot Nku-Eseng, a 7 km de Nsok Nsomo, *Barberá & al.* 175 (MA-831708); Ngomgom, poblado de la pista que va de Nsok Nsomo a Bata, *Barberá & al.* 53 (MA-831646); Akam, camino a Oyò, *Fero & Esono* 181 (MA-808940). Litoral; Engong, *Eneme* 224 (BRLU); Bata, cerca del puerto, *Pérez Viso* 1449 (MA-651564); 1443 (MA-651559); Corisco, Endote, *Pérez Viso* 1967 (MA-651561); Bata, Asonga, *Pérez Viso* 1416 (MA-651563); Río Campo, Ayamiken, *Pérez Viso* 2839 (MA-651839); Bata, *Guinea* 1064 (MA-691879); Corisco, camino hacia el N a 100 m de la casa de Yniestrosa, *Velayos & al.* 9914 (MA-714555); Bata, *Lisowski M-1312* (BATA); Ndote Nord, près du village Jandje, *Lisowski M-258* (BATA); réserve de río Campo, près du village Niuma, *Lisowski M-1022* (BRLU); Utonde, carretera de Utonde a Bata, *Barberá & al.* 277 (MA-844249); Ndote, *Eneme* 285 (BRLU); Bata, barrio de Ngolo, *P. Heras s.n.* (BATA). Wele Nzas: inselberg d'Asoc, a côté de la route près du village d'Asoc, *Parmentier & Esono* 3710 (MA-714554); Nsum Esangüi, *Pérez Viso* 3625 (MA-651558). Río Muni: El Muni, (MA-15886).

Previously reported from Centro Sur (Cabezas *et al.* 2004: 7; Guinea 1946: 184i; Velayos *et al.* 2014: 98), Kie Ntem (Velayos *et al.* 2014: 98); Litoral (Cabezas *et al.* 2004: 7; Lejoly & Lisowski 1998: 153; Velayos *et al.* 2014: 98), Wele Nzas (Cabezas *et al.* 2004: 7; Velayos *et al.* 2014: 98) and Río Muni, without any precise locality (Cabezas *et al.* 2004: 7).

***Cyperus difformis* L., Cent. Pl. II: 6 (1756)**

LC Native

Pantropical and Pansubtropical. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Karoo-Namib Region; Madagascan Region.

Kie Ntem: route de Ngong Mocomo vers Ovong (sud de Nsork), *Lejoly & Elad* 98/083 (BATA). Litoral: Bata-Bolondo, estrada km 35-36, *Carvalho* 5937 (MA-609953, WAG).

Previously reported from Kie Ntem and Litoral (Cabezas *et al.* 2004: 7; Velayos *et al.* 2014: 99).

***Cyperus distans* L.f., Suppl. Pl.: 103 (1781)**

LC Native

Pantropical. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region

(Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: P.N. Monte Alén, *Parmentier & Esono* 2709 (MA-712347); Evinayong, *Guinea* 123 (MA-651816); 237 (MA-651837); 462 (MA-651815). Kie Ntem: Nsok Nsomo, *Cabezas & al.* 1282 (MA-831837); Obot Nku-Eseng, *Barberá & al.* 183 (MA-831455); Akam, *Fero & Esono* 112 (MA-808303). Litoral: Ayamiken, *Lisowski M-410* (BATA, BRLU); Corisco, *Velayos* 9943 (MA-708468); Bata, *J. Gómez Moreno* 1060 (MA-691876); Bata-Bolondo, *Carvalho* 5947 (MA-610003, WAG). Wele Nzas: Nsum Esangüi, *Pérez Viso* 3627 (MA-651557).

Previously reported from Centro Sur (*Cabezas et al.* 2004: 8; *Velayos et al.* 2014: 99). Litoral (*Lejoly & Lisowski* 1998: 150; *Velayos et al.* 2014: 99); *Cabezas et al.* 2004: 8; *Guinea* 1946: 157, 176; *Velayos et al.* 2014: 99), Wele Nzas (*Cabezas et al.* 2004: 8; *Velayos et al.* 2014: 99) and Río Muni, without any precise locality (*Guinea* 1946: 238).

Cyperus dubius Rottb., Descr. Icon. Rar. Pl.: 20, tab. 4 fig. 5 (1773)

LC Native

Native to the Paleotropic. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Annobón.

Litoral: Ayamiken, Río Campo, *Pérez Viso* 2833 (MA-651840); Bata, Asonga, *Pérez Viso* 1419 (MA-651594); au S de Bata, près du fleuve Ekuku, *Lisowski M-1604* (BATA), *M-1235* (BRLU); Corisco, pueblo de Corisco, *Velayos & al.* 9987 (MA-706863)

Previously reported from Litoral (*Lejoly & Lisowski* 1998: 153; *Cabezas et al.* 2004: 8; *Velayos et al.* 2014: 100).

Cyperus esculentus L., Sp. Pl.: 45 (1753)

LC Native

Pantropical and Pansubtropical. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Karoo-Namib Region; Madagascan Region.

Litoral: Río Campo, desembocadura del río Campo, *Pérez Viso* 2476 (MA-652504); Bata- Bome, *Carvalho* 4703 (MA-597835, MO, WAG).

Previously reported from Litoral (*Cabezas et al.* 2004: 8; *Velayos et al.* 2014: 100).

Cyperus fertilis Boeckeler in Bot. Jahrb. Syst. 5: 90 (1884)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Monte Chime, *Guinea* 284 (MA-651813); P.N. Monte Alén, senda que va desde Moka hacia Bong, monte Alén, *Pérez Viso* 740 (MA-652510); P.N. Monte Alén, *Ngomo* 195 (BATA); Monte Alén, *Ngomo & Ndong* 414 (BATA); Mosumu, *Pérez Viso* 3477 (MA-652508); Bata-Monte Alén, margens de río Oton-Asok, *Carvalho* 5312 (MA-598224, MO, WAG). Litoral: Ndote Sud, Espigon, *Lisowski M-1083* (BATA); estuaire du Río Muni, Mandjani, *Nguema* 95 (BATA); Bata-Niefang, *Carvalho* 5644 (MA-598572, MO, WAG). Wele Nzas: Ebo-Ngoo Nsomo, *Pérez Viso* 3173 (MA-652507); Eviam, carretera forestal de Bata a Niefang, *Pérez Viso* 2620 (MA-652509); región del Bimbile, *Guinea* 161 (MA-708463).

Previously reported from Centro Sur (Cabezas *et al.* 2004: 8; Guinea 1946: 184i, 238; Lejoly & Lisowski 1998: 150; Velayos *et al.* 2014: 101), Litoral (Cabezas *et al.* 2004: 8; Lejoly & Lisowski 1998: 150; Velayos *et al.* 2014: 101) and Wele Nzas (Cabezas *et al.* 2004: 8; Guinea 1946: 151; Velayos *et al.* 2014: 101).

Cyperus haspan L., Sp. Pl.: 45 (1753)

LC Native

Tropical and Subtropical. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascar Region.

Centro Sur: P.N. Monte Alén, Moka, *Pérez Viso* 4105 (MA-652513). Kie Ntem: route de Ngong Mocomo vers Ovong (sud de Nsork), *Lejoly* 98/88 (BATA). Litoral: Mbini, nuevo puente Mbini-Bolondo, sobre el río Wele, *Fero & al.* 288 (MA-844598); Yengüe, Río Campo, *Pérez Viso* 2789 (MA-652518); Ndote Sud, près d'Etembue, *Lisowski M-1103* (BATA); Distric Mbini, village Sendje, río Uele, *Lisowski M-1261* (BATA); Río Campo, desembocadura del río Campo, *Pérez Viso* 2483 (MA-652505); Bata-Asonga, *Carvalho* 4711 (MA-597508, MO, WAG).

Previously reported from Centro Sur (Cabezas *et al.* 2004: 8; Velayos *et al.* 2014: 101), Kie Ntem (Cabezas *et al.* 2004: 8; Velayos *et al.* 2014: 101) and Litoral (Lejoly & Lisowski 1998: 150; Cabezas *et al.* 2004: 8; Velayos *et al.* 2014: 101).

Cyperus laxus subsp. **buchholzii** (Boeckeler) Lye in Nordic J. Bot. 3: 232 (1983)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bicurga, inselberg de Bicurga, *Parmentier* 1810 (BRLU); carretera forestal Bata-Niefang, Nhogo Ebaiñ, *Pérez Viso* 2672bis (MA-652515); 2673a (MA-652515); P.N. Monte Alén, Engong, *Pérez Viso* 2660 (MA-652516); inselberg de Bicurga, près du village de Bicurga, *Parmentier & Esono* 3108 (MA-712355, BRLU); 3174 (MA-723916, BRLU) 3291 (MA-723917, BRLU); *Parmentier* 1817 (BRLU); P.N. Monte Alén, 5 km au NO de Engong, inselberg, *Lejoly* 99/132 (BATA, BRLU); Bicurga, *Lejoly* 99/499, 99/489 (BRLU); Nfing Ntagan, *Pérez Viso* 2741 (MA-651843). Kie Ntem: Akam, *Fero & Esono* 38 (MA-808161), 164 (MA-808927). Litoral: Ndote Nord, *Lisowski M-30* (BRLU); Pista Sendje-Evinayong, *Cabezas & al.* 2091 (MA-884328); Ndote, *Eneme* 281 (BRLU); Masamabe, *Pérez Viso* 3903 (MA-652514); Ndote Sud, espigon, *Lisowski M-1082* (BATA). Río Muni: *Lisowski M-1327* (BRLU).

Previously reported from Centro Sur (Cabezas *et al.* 2004: 9; Velayos *et al.* 2014: 102), Litoral (Cabezas *et al.* 2004: 9; Guinea 1946: 159; Lejoly & Lisowski 1998: 150; Velayos *et al.* 2014: 102) and Río Muni, without any precise locality (Cabezas *et al.* 2004: 9).

Cyperus ligularis L., Syst. Nat. ed. 10, 2: 867 (1759)

NE Native

Pantropical and Subpantropical. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Litoral: río Campo, orilla de río, *Barberá & al.* 293 (MA-844233); Utonde, *Guinea* 125-813 (MA-651746); estuaire du Río Muni, village Mayang, bord de la rivière Mitong, *Lisowski M-873* (BATA); Bata quartier Nord, *Lisowski M-241* (BATA); Miwala, a 5 km de Kogo, *Pérez Viso* 3963 (MA-651565). Wele Nzaz: Nsung Fandong, a 65 km. de Nkue, *Pérez Viso* 3125 (MA-652168).

Previously reported from Centro Sur (Cabezas *et al.* 2004: 9), Litoral (Cabezas *et al.* 2004: 9; Lejoly & Lisowski 1998: 153; Guinea 1946: 159, 178; Velayos *et al.* 2014: 103) and Wele Nzaz (Cabezas *et al.* 2004: 9; Velayos *et al.* 2014: 103).

Cyperus odoratus L., Sp. Pl.: 46 (1753)

LC Native

Pantropical. Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Asonga, alrededores de Aeropuerto, *Carvalho* 5446 (MA-599445, MO, WAG).

Previously reported from Litoral (Cabezas *et al.* 2004: 9; Velayos *et al.* 2014: 103).

Cyperus penzoanus Pic.-Serm. in Miss. Stud. Lago Tana 7(1): 183 (1951)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Evinayong, *Guinea* 122-90 (MA-651838).

Previously reported from Centro Sur (Cabezas *et al.* 2004: 9; Velayos *et al.* 2014: 103).

Cyperus renschii Boeckeler in Flora 65: 11 (1882)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alen, *Ngomo* 474 (BATA). Wele Nzaz: Alum, entre Mikomeseng y Nkue, *Pérez Viso* 3033 (MA-652512); inselberg Piedra Nzaz, *Lejoly* 99/2470T4 (BRLU); Acasakira, *Obama & Lejoly* 573 (BATA).

Previously reported from Centro Sur (Velayos *et al.* 2014: 104) and Wele Nzas (Lejoly & Lisowski 1998: 150; Velayos *et al.* 2014: 104).

Cyperus rotundus L., Sp. Pl.: 45 (1753)

LC Native

Cosmopolitan. Africa. Also known from Annobón.

Litoral: Bata, *Lisowski M-192* (BATA); *M-1638* (BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 150; Velayos *et al.* 2014: 104).

Cyperus sphacelatus Rottb., Descr. Pl. Rar.: 21 (1772)

NE Native

Pantropical. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: P.N. Monte Alén, río Vog-yii, *Pérez Viso* 3223 (MA-652506); P.N. Monte Alén, dalle rocheuse d'Engong, *Parmentier & Esono* 2952 (MA-712349). Kie Ntem: Obot Nku-Eseng, *Barberá & al.* 182 (MA-831456); Nsoc Nsomo, *Cabezas & al.* 1236 (MA-831931). Litoral: río Campo, *Barberá & al.* 313 (MA-844512); Ayamiken, *Lisowski M-402* (BATA); Bata, *Lisowski M-235* (BATA); Corisco, *Velayos & al.* 9948 (MA-712477).

Previously reported Centro Sur (Velayos *et al.* 2014: 104) and from Litoral (Lejoly & Lisowski 1998: 150; Velayos *et al.* 2014: 104).

Cyperus tenax Boeckeler in Linnaea 35: 504 (1868)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province).

Litoral: Ecucu, orilla de la playa, desembocadura del río Ecucu, *Guinea* 124-574 (MA-651814); Ayamiken, Río Campo, *Pérez Viso* 2829 (MA-651841); Río Campo, desembocadura del río Campo, *Pérez Viso* 2477 (MA-652521); Bata, cerca del puerto, *Pérez Viso* 1450 (MA-652517); Bata, près du port, *Lisowski M-18* (BATA); au S de Bata, *Lisowski M-1215* (BATA); réserve de río Campo, près du village Niuma, *Lisowski M-994* (BATA); Corisco, camino hacia el N a 100 m de la casa de Yniestrosa, *Velayos & al.* 9913 (MA-714556); Corisco, praderas de Endote, *Pérez Viso* 1935 (MA-652520); Bata-Asonga, *Carvalho* 4679 (MA-597452, MO, WAG). Río Muni: *J. Nosti s.n.* (MA-702671).

Previously reported from Litoral (Lejoly & Lisowski 1998: 150; Velayos *et al.* 2014: 105).

Cyperus tenuiculmis Boeckeler in Linnaea 30: 286 (1870)

LC Native

Paleotropical. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón.

Centro Sur: inselberg de Bicurga, près du village de Bicurga, *Parmentier & Esono* 3102 (BRLU, MA-723912); P.N. Monte Alen, dalle rocheuse d'Engong, *Parmentier & Nguema* 290 (BRLU). Litoral: Bata, *Lisowski M-230* (BATA); au S de Bata, près du fleuve Ekuku, *Lisowski M-236* (BATA), *M-1236* (BRLU); réserve de río Campo, près du village Niuma, *Lisowski M-105*, *M-1005*, *M-1011* (BRLU); Bata-Bome, *Fero & Barberá* 316 (MA-844570); Bata, cerca del puerto, *Pérez Viso* 1448 (MA-652519); Corisco, Endote, *Pérez Viso* 1952 (MA-652511); Etembue, *Guinea* 903 (MA-651830); entre Diádive y Punta Mbonda, *Guinea* 782 (MA-651831); Diádive-Punta Mbonda, *Guinea* 38 (MA-651832); praderas de Baga, *Eneme* 356 (BRLU). Wele Nzaz: inselberg d'Akuom, *Parmentier & Nguema* 330 (MA-714552, BRLU). Río Muni: *J. Nosti & Abad s.n.* (MA-687699).

Previously reported from Centro Sur (Velayos *et al.* 2014: 105), Litoral (Lejoly & Lisowski 1998: 150; Velayos *et al.* 2014: 105) and from Wele Nzaz (Velayos *et al.* 2014: 105).

***Cyperus tenuis* Sw., Prodr.: 20 (1788)**

LC Native

Tropical America and Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Kie Ntem: Eloan, carretera Ebebiyin-Mongomo, *Pérez Viso* 4278 (MA-651556). Litoral: Utonde, carretera de Utonde a Bata, *Barberá & al.* 276 (MA-844250); Miwala, a 5 km de Kogo, *Pérez Viso* 3948 (MA-651555); Ondoa, *Pérez Viso* 3529 (MA-651554); District Mbini, près du village Sendje, *Lisowski M-174* (BRLU); Mbini, *Lisowski M-957* (BRLU); Espigon, *Eneme & Lejoly* 179 (BATA); District Mbini, village Sendje, río Uele, *Lisowski M-1243* (BATA).

Previously reported from Litoral (Lejoly & Lisowski 1998: 153; Velayos *et al.* 2014: 106), from Wele Nzaz (Velayos *et al.* 2014: 106) and from Río Muni, without any precise locality (Cufodontis 1970: 1452).

***Eleocharis geniculata* (L.) Roem. & Schult., Syst. Veg. 2: 150 (1817)**

LC Native

Pantropical. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province; Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Litoral: Utonde, desembocadura del río, *Barberá & al.* 245 (MA-843793); au S de Bata, près du fleuve Ekuku, *Lisowski M-1230* (BRLU); Elende, *Lisowski M-1044* (BATA); Bata, desembocadura del Río Ecucu, *Carvalho* 5162 (MA-599481, MO, WAG); Bata-Punta Mbonda, *Carvalho* 4748 (MA-597964, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 151; Velayos *et al.* 2014: 108).

Eleocharis mutata (L.) Roem. & Schult., Syst. Veg. 2: 155 (1817)

LC Native

Tropical America and Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Litoral: au S de Bata, au S du fleuve Ekuka, *Lisowski M-1625* (BRLU); Bata-Pembe, *Carvalho 4852* (MA-597913, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 151, sub *E. acutangula*; Velayos *et al.* 2014: 108).

Fimbristylis cymosa Lam. ex R.Br., Prodr.: 228 (1810)

LC Native

Pantropical. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region.

Litoral: Utonde, *Barberá & al. 260* (MA-843778); praderas de Ecucu, *Guinea 138* (MA-651828); Utonde, *Guinea 132-816* (MA-651827).

Previously reported from Litoral (Guinea 1946: 178, 239; Velayos *et al.* 2014: 110)

Fimbristylis dichotoma (L.) Vahl, Enum. Pl. 2: 287 (1805)

LC Native

Pantropical. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: P.N. Monte Alén, Misergue-Churu, *Pérez Viso 1635* (MA-651593); P.N. Monte Alén, Monte Alén, carretera Monte Alén-Moka, *Velayos & al. 9474* (MA-651603); inselberg de Bicurga, près du village de Bicurga, *Parmentier 1823* (MA-712360); P.N. Monte Alén, Esamalang, carretera de Mosumu, *Pérez Viso 1181* (MA-651586). Kie Ntem: alrededores del poblado de Obot Nku-Eseng, *Barberá & al. 174* (MA-831707); Akam, carretera hacia Nsok-Nsomo, *Fero & Esono 109* (MA-808734); route de Ngong Mocomo vers Ovong (sud de Nsork), *Lejoly & Elad 98/84* (BATA). Litoral: Río Campo, cerca de Bongoro, *Pérez Viso 2222* (MA-651584); Ayamiken, *Lisowski M-401* (BATA); estuaire du Río Muni, village Mayang, bord de la rivière Mitong, *Lisowski M-892* (BATA); Bata, *Nguema 1071* (BRLU); Bata-Aeroporto, *Carvalho 5199* (MA-598215, MO, WAG); Ndote, *Eneme 247* (BRLU); Mbini, Senye I, salida del poblado hacia Monte Mitra, *Velayos & al. 13413* (MA-884338); Bata,

Asonga, *Pérez Viso 1407* (MA-651592); Río Campo, *Pérez Viso 2493* (MA-651585); Aman, *Fero & al. 267* (MA-844619); río Campo, *Barberá & al. 309* (MA-844516); Mbini, Senye I, salida del poblado hacia Monte Mitra, *Velayos & al. 13413* (MA-884339). Río Muni: *Mann 1888* (K).

Previously reported from Centro Sur (Velayos *et al.* 2014: 110), Kie Ntem (Velayos *et al.* 2014: 110), Litoral (Lejoly & Lisowski 1998: 151; Guinea 1946: 157; Velayos *et al.* 2014: 110) and Río Muni, without any precise locality (Guinea 1946: 239).

Fimbristylis ferruginea (L.) Vahl, Enum. Pl. 2: 291 (1805)

LC Native

Pantropical & Pan subtropical. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Karoo-Namib Region; Madagascan Region. Also known from Bioko.

Litoral: Au S de Bata, prés du fleuve Ekuka, *Lisowski M-1234* (BATA); Bata-desembocadura del Río Ecucu, *Carvalho 5202* (MA-598154, MO, WAG)

Previously reported from Litoral (Lejoly & Lisowski 1998: 151; Velayos *et al.* 2014: 111).

Fimbristylis littoralis Gaudich. in Voy. Uranie: 413 (1829)

LC Naturalized

Pantropical. Sudano-Zambezian Region (Sudanien Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region.

Litoral: Bata-Bome, *Fero & Barberá 324* (MA-844562); Bata-río Campo, *Carvalho 4722* (MA-597967, MO, WAG).

Previously reported from Litoral (Velayos *et al.* 2014: 111).

Fimbristylis pilosa Vahl, Enum. Pl. 2: 290 (1805)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanien Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Litoral: Bata, Asonga, *Pérez Viso 1405* (MA-651601); *1407* (MA-651601).

Previously reported from Litoral (Velayos *et al.* 2014: 111).

Fimbristylis quinquangularis (Vahl) Kunth, Enum. Pl. 2: 229 (1837)

LC Native

Pantropical. Sudano-Zambezian Region (Sudanien Province, Zambezian Province,

Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region.

Litoral: praderas de río Ecucu, *Guinea* 750 (MA-651822); Benito, *Guinea* 942 (MA-651823); Etembue, *Guinea* 128-900 (MA-651824); Etembue, *Del Val* s.n. (MA-723922, 723923).

Previously reported from Litoral (Velayos *et al.* 2014: 112).

Fimbristylis splendida C.B. Clarke in Oliv. (ed.), Fl. Trop. Afr. 8: 527 (1902)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Ndote Nord, près du village Jandje, *Lisowski* M-187 (BRLU); Ndote, *Eneme* 294 (BRLU); Ndote Sud, *Lisowski* M-1085 (BATA); Espigon, pradera de Baga (resèrve de Ndote), *Eneme & Lejoly* 144 (BATA); Au S de Bata, au S du fleuve Ekuka, *Lisowski* M-1607 (BATA); Bata-Bome, *Carvalho* 4697 (MA-597330, MO, WAG). Río Muni: *Lisowski* M-1335 (BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 151; Velayos *et al.* 2014: 112).

Fuirena umbellata Rottb., Descr. Icon. Rar. Pl.: 70, tab. 19 fig. 3 (1773)

LC Native

Pantropical. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region.

Centro Sur: Evinayong, *Guinea* 133-100-102 (MA-651826). Kie Ntem: route de Ngong Mocomo vers Ovong (sud de Nsork), *Lejoly* 98/082 (BATA). Litoral: Ndote Sud, près du village Etembue, *Lisowski* M-328 (BRLU); Bata-Bolondo, estrada km 35-36, *Carvalho* 5944 (MA-610006, WAG); Ayamiken: Río Campo, *Pérez Viso* 2842 (MA-652166); Etembue, *Del Val* s.n. (MA-723921); Espigon, pradera de Baga (resèrve de Ndote), *Eneme & Lejoly* 131 (BATA); Ndote Sud, env d'Etembue, *Lisowski* M-1101 (BATA); Bata, *Nguema* 1140 (BRLU); Bata-Asonga, pradera graminosa frontal as caracolas da Cooperacion, *Carvalho* 4649 (MA-597924, MO, WAG); Ndote Nord, près du village Jandje, *Lisowski* M-270 (BRLU); Mbini, nuevo puente Mbini-Bolondo, sobre el río Wele, *Fero & al.* 286 (MA-844600); Bome, *Pérez Viso* 1741 (MA-651552); Bata, cerca del puerto, *Pérez Viso* 1451 (MA-651551); Ayamiken, Río Campo, *Pérez Viso* 2841 (MA-652166); Bolondo, *Guinea* 40 (MA-651820); 712-713 (MA-651821); río Campo a Bata, *Barberá & al.* 328 (MA-844498); Bata a Mbini, proximidades del cruce Mbini-Bolondo, *Fero & al.* 277 (MA-844609); Ndote, *Eneme* 296 (BRLU).

Previously reported from Centro Sur (Guinea 1946: 184i; Velayos *et al.* 2014: 112-113), Litoral (Lejoly & Lisowski 1998: 151; Guinea 1946: 178; Velayos *et al.* 2014: 112-113) and Río Muni, without any precise locality (Guinea 1946: 239).

Hypolytrum heteromorphum Nelmès in Kew Bull. 9: 522 (1955)

NE Native

Pantropical. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Ondo, *Pérez Viso 3818* (MA-651545). Wele Nzaz: Ebo-Ngoo Nsomo, *Pérez Viso 3198* (MA-651544).

Previously reported from Litoral and Wele Nzaz (Velayos *et al.* 2014: 114).

Hypolytrum heterophyllum Boeckeler, Beitr. Cyper. 1: 22 (1888)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Monte Alén, *Lisowski M-1553* (BRLU); carretera Niefang-Mosumu. Senda hacia el río Laña, *Pérez Viso 2547,2548* (MA-651543); Monte Alén, *Cabezas 2* (MA-652167); 128 (MA-695661); P.N. Monte Alén, *Velayos & al. 10027* (MA-707056). Litoral: Etembue (Réserve de Ndote), *Eneme & Lejoly 31* (BATA, BRLU); Miwala, a 5 km de Kogo, *Pérez Viso 3962* (MA-651542); pradera de Baga, *Eneme 333* (BRLU); Utonde, *Guinea 804* (MA-651819); Ndote Nord, près du village Jandje, *Lisowski M-261* (BRLU); au S de Bata, près du fleuve Ekuku, *Lisowski M-1197* (BRLU); Bolondo, *Guinea 667* (MA-651818). Wele Nzaz: Kukumangkok, 13 km O de Aconibe, inselberg Mongum, *F. Esono & Lejoly 96* (BATA, BRLU); inselberg Piedra Nzaz, *Lejoly 99/219* (BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 152, sub *H. testui*; Nelmès 1955: 70; Guinea 1946: 178, 240; Velayos *et al.* 2014: 114).

Hypolytrum lancifolium C.B. Clarke in Oliv. (ed.), Fl. Trop. Afr. 8: 488 (1902)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, transect de Monte Chocolate, *Van Reeth 166* (BRLU); Kie Ntem: Ngong Mocomo, *Nguema 473* (BRLU)

Previously reported from Centro Sur and Kie Ntem (Velayos *et al.* 2014: 115).

Hypolytrum scaberrimum Boeckeler in Flora 65: 26 (1882)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Ayamiken, réserve de río Campo, *Obama 84* (BRLU); Ncô-Cogo, *Obama 295* (BRLU); estuaire du Río Muni, village Mayang, *Lisowski M-789, M-853* (BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 153; Velayos *et al.* 2014: 115).

Kyllinga alata Nees in Linnaea 10: 139 (1834)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alen, transect Mosumo, *Van Reeth 304* (BRLU); P.N. Monte Alen, au 5 km de Engong, *Lejoly 99/56* (BATA, BRLU); P.N. Monte Alén, dalle rocheuse d'Engong, *Parmentier & Esono 2978* (MA-712348); P.N. Monte Alen, dalle rocheuse de Monte Alen 1, *Parmentier & Esono 3014* (MA-712331); P.N. Monte Alen, 5 km au NO de Engong, inselberg, *Lejoly 99/56* (MA-621792).

Previously reported from Centro Sur (Velayos *et al.* 2014: 118).

Kyllinga appendiculata K.Schum. in Bot. Jahrb. Syst. 24: 338, tab. 5 (1897)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Utonde, *Guinea 735* (MA-651829).

Previously reported from Litoral (Velayos *et al.* 2014: 118-119).

Kyllinga brevifolia Rottb., Descr. Icon. Rar. Pl.: 13, tab. 4 fig. 3 (1773)

LC Native

Pantropical and Pansubtropical. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region.

Litoral: Bata, *Lisowski M-247* (BATA).

Previously reported from Litoral (Lejoly & Lisowski 1998: 152; Velayos *et al.* 2014: 119).

Kyllinga erecta Schumach. in Schumach. & Thonn., Beskr. Guin. Pl.: 42 (1827)

LC Native

Tropical & S. Africa and Madagascar. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Bioko.

Centro Sur: P.N. Monte Alen, dalle rocheuse, 3 km á l'O de la station ECOFAC, *Lejoly 99/27* (BATA, BRLU) *99/397* (BATA); Ngong, praderas de Akwaosí, *Cabezas 185* (MA-695782), *187* (MA-695784); P.N. Monte Alén, dalle rocheuse de Monte Alén 2,

Parmentier 1507 (MA-723918, BRLU). Litoral: Río Campo, desembocadura del río Campo, *Pérez Viso 2488* (MA-654041); Corisco, *Velayos & al. 9940* (MA-708470); Bata-Bome, *Carvalho 4690* (MA-597465, MO, WAG); Bata, *Lisowski M-242* (BATA); Bata, *Nguema 1258* (BRLU). Wele Nzas: Asoc, *Lejoly 99/321* (BATA); inselberg Piedra Nzas, *Lejoly 99/192* (BRLU); région d'Añisok, au-dessus du village Nzuamayong, inselberg Akuom, rochers, *Lisowski M-681* (BATA, BRLU); inselberg n°1, nahe Mfui, *Porembski & al. 3522* (BRLU).

Previously reported from Centro Sur (Guinea 1946: 184i; Velayos *et al.* 2014: 120), Litoral (Lejoly & Lisowski 1998: 152; 1999a: 101; Guinea 1946: 170, 178; Velayos *et al.* 2014: 120) and from Wele Nzas (Velayos *et al.* 2014: 120).

Kyllinga odorata Vahl, Enum. Pl. 2: 382 (1805)

LC Native

Pantropical and pansubtropical. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Kie Ntem: alrededores del poblado de Obot Nku-Eseng, a 7 km de Nsok Nsomo, *Barberá & al. 173* (MA-831706).

Not previously reported from Río Muni.

Kyllinga pumila Michx., Fl. Bor.-Amer. 1: 28 (1803)

LC Native

Pantropical and pansubtropical. Sudano-Zambezian Region (Sudanien Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Centro Sur: P.N. Monte Alén, dalle rocheuse d'Engong, 5 km à l'ouest du village d'Engong, *Parmentier & Esono 2968* (MA-712350); P.N. Monte Alén, río Vog-yii, *Pérez Viso 3224* (MA-652160); P.N. Monte Alén, Moka, *Pérez Viso 4115* (MA-652162); P.N. Monte Alén, Monte Alén, carretera Monte Alén-Moka, *Velayos & al. 9479* (MA-652163); P.N. Monte Alén, Bong, monte Alén, *Pérez Viso 258* (MA-652165); P.N. Monte Alén, dalle rocheuse de Monte Alén 2, à 1h 30 de marche du site ECOFAC de Monte Alén, *Parmentier & Esono 3449* (MA-712334); P.N. Monte Alén, 5 km au NO de Engong, inselberg, *Lejoly 99/055* (BATA). Litoral: Utonde, carretera de Utonde a Bata, *Barberá & al. 273* (MA-844253); Bata-Niefang, *Carvalho 6031* (MA-609783, WAG); Río Campo, cerca de Bongoro, *Pérez Viso 2237* (MA-652161); Río Campo, carretera de San Joaquín de Adjiakom hacia Ayamiken, *Pérez Viso 2505* (MA-652164). Wele Nzas: inselberg d'Asoc, a côté de la route près du village d'Asoc, *Parmentier & Esono 3700* (MA-712356); dalle rocheuse à 3 km au S de Asoc, *Lejoly 99/293, 99/298* (BATA); inselberg d'Akuom, *Parmentier & Nguema 158* (BRLU); inselberg de Akoak Ebanga, *Parmentier & Esono 3472* (MA-712335).

Previously reported from Centro Sur, Litoral and Wele Nzas (Velayos *et al.* 2014: 121) and from Río Muni, without any precise locality (Guinea 1946: 238).

Kyllinga vaginata Lam., Tab. Encycl. 1: 148 (1791)

NE Native

Tropical America and Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: río Campo, playa cerca de la desembocadura del río, *Barberá & al.* 286 (MA-844240); Utonde, desembocadura del río, *Barberá & al.* 237 (MA-843801); Diádive-Punta Mbonda, *Guinea* 135 (MA-651745), 783 (MA-651817); réserve de río Campo, près du village Niuma, *Lisowski M-1012* (BATA, BRLU).

Previously reported from Litoral (*Velayos et al.* 2014: 122).

Lipocarpa chinensis (Osbeck) Kern in Blumea, Suppl. 4: 167 (1958)

LC Native

Pantropical and Pansubtropical. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Centro Sur: P.N. Monte Alén, Bong, monte Alén, senda hacia el lago Atok, *Pérez Viso* 318 (MA-651598); P.N. Monte Alén, dalle rocheuse de Monte Alén 2, *Parmentier* 1506 (BRLU); P.N. Monte Alén, dalle rocheuse d'Engong, 5 km à l'ouest du village d'Engong, *Parmentier & Esono* 2963 (MA-712351); Ngong, praderas de Akwaosí, *Cabezas* 174 (MA-695771), 176 (MA-695775); P.N. Monte Alén, Bong, monte Alén, *Pérez Viso* 256 (MA-651602); P.N. Monte Alén, 5 km au NO de Engong, inselberg, *Lejoly* 99/057 (MA-621791). Kie Ntem: route de Ngong Mocomo vers Ovong (sud de Nsork), *Lejoly & Elad* 98/90 (BATA). Litoral: Bata-Sendge (Senye), *Carvalho* 5177 (MA-599470, MO, WAG).

Previously reported from Centro Sur, Kie Ntem and Litoral (*Velayos et al.* 2014: 123).

Mapania amplivaginata K.Schum. in Notizbl. Bot. Gart. Berlin-Dahlem 3: 105 (1901)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: SO du Parc National de Monte Alén, sur le transect Ecofac de Mosumo entre 1400 y 1600 du début du layon, *Senterre & Ngomo* 458 (MA-708467), 502 (MA-708465); subida al Monte Chocolate, transecto que está entre Monduá y el transecto de Aconangui, *Cabezas* 208 (MA-695554). Litoral: Kogo, *Pérez Viso* 4001 (MA-651600); Mount John, River Kongui, *Mann* 1892 (K); estuaire du Río Muni, village Mayang, bord de la rivière Mitong, *Lisowski M-819* (BRLU); Etembue, *Eneme* 321 (BRLU); Engong, *Eneme* 444 (BRLU); Bonbon, *Esono* 23 (BATA); Ncó a Misobong au niveau de la grande cascade, *Nguema & Lejoly* 179 (MA-612045). Wele Nzaz: région d'Añisok, au-dessus du village Nzuamayong, montée sur inselberg Akuom, *Lisowski M-735* (BRLU).

Previously reported from Centro Sur (Velayos *et al.* 2014: 125), Litoral (Lejoly & Lisowski 1998: 153; Velayos *et al.* 2014: 125), Wele Nzas (Lejoly & Lisowski 1998: 153; Velayos *et al.* 2014: 125) and Río Muni, without any precise locality (Hooper & Napper 1972: 335)

Mapania coriandrum Nelmes in Kew Bull. 6: 419 (1951)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Monte Alén, *Lisowski M-1563* (BRLU). Litoral: réserve de Ndote, près du village Engong, *Lisowski M-1188* (BRLU).

Previously reported from Centro Sur and Litoral (Lejoly & Lisowski 1998: 153; Velayos *et al.* 2014: 125).

Mapania macrantha (Boeckeler) H.Pfeiff. in Bot. Archiv. 12: 450 (1925)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, cataratas del río Wele, Mosumu, *Pérez Viso 1593* (MA-651590). Litoral: Río Campo, cerca de Bongoro, *Pérez Viso 2200* (MA-651591); Bata-Bicomo, *Carvalho 4939* (MA-597883, MO, WAG)

Previously reported from Centro Sur and Litoral (Velayos *et al.* 2014: 125).

Mapania mannii C.B.Clarke in Oliv. (ed.), Fl. Trop. Afr. 8: 491 (1902) subsp. **mannii**

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Inselberg de Bicurga, près du village de Bicurga, *Parmentier & Esono 3265* (BRLU); inselberg Bicurga, face Est, *Senterre 184* (BRLU); S du Parc National de Monte Alén, près de la Cabaña ECOFAC de Esamalan, *Senterre & al. 2134* (MA-708466). Litoral: route de Ncô a Misobong au niveau de la grande cascade, *Nguema & Lejoly 181* (BRLU); estuaire du Río Muni, village Mayang, *Lisowski M-852, M-864* (BRLU). Wele Nzas: Añisok-Mongola, *Pérez Viso 3719* (MA-651596).

Previously reported from Centro Sur (Velayos *et al.* 2014: 126), Litoral (Lejoly & Lisowski 1998: 153; Velayos *et al.* 2014: 126) and Wele Nzas (Velayos *et al.* 2014: 126).

Mapania pubisquama Cherm. in Bull. Soc. Bot. France 77: 278 (1930)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Monte Alén, *Cabezas 130* (MA-695705); 129 (MA-695662); P.N. Monte Alén, lago Atok, *Pérez Viso 1035* (MA-651595); Monte Alén, subida al mirador,

Velayos & Pérez Viso 9269 (MA-651597); Monte Chocolate, *Cabezas* 197 (MA-695543); 199 (MA-695545); 200 (MA-695546); 201 (MA-695547); 203 (MA-695549); P.N. Monte Alén, transect de Monte Alén, *Lejoly* 94/179 (BRLU); Ngong, subida hasta Akwaosí, *Cabezas* 164 (MA-695761; 170 (MA-695767)); P.N. Monte Alén, dalle rocheuse d'Engong, 5 km à l'ouest du Village d'Engong, *Parmentier & Esono* 2866 (BRLU); P.N. Monte Alén, transect de Monte Chocolate, *Van Reeth* 153 (BRLU); P.N. Monte Alén, 3 km au NO de Engong, *Lejoly* 99/149 (BRLU); P.N. Monte Alén, transect de Mosumo, *Van Reeth* 285 (BRLU); P.N. Monte Alén, Engong: senda que va a una gran roca que se ve desde el pueblo, *Pérez Viso* 2683 (MA-651587). Litoral: Sendje 1°, km. 47 de la carretera de Kogo, *Pérez Viso* 2897 (MA-651588); Sendje, *Pérez Viso* 3376 (MA-651589).

Previously reported from Centro Sur and Litoral (*Velayos et al.* 2014: 126).

***Pycreus polystachyos* (Rottb.) P.Beauv., Fl. Oware 2: 48 (1807)**

LC Native

Pantropical & Pansubtropical. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Bioko.

Litoral: carretera de Mbini-Bata, puente Sendje sobre el río Wele o Woro, *Fero & al.* 305 (MA-844581); Bata quartier nord, *Lisowski M-197* (BATA); Río Campo, desembocadura del río Campo, *Pérez Viso* 2487 (MA-651568); Bata-Asonga, estrada km. 2 a contar de Bata, *Carvalho* 4710 (MA-597841, MO, WAG). Wele Nzaz: inselberg Piedra Nzaz, *Lejoly* 99/266 (MA-621774).

Previously reported from Litoral (*Lejoly & Lisowski* 1998: 154; 1999a: 101; *Velayos et al.* 2014: 129).

***Pycreus smithianus* (Ridl.) C.B.Clarke in T.Durand & Schniz (eds.), Consp. Fl. Afric. 5: 542 (1894)**

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Mosumu, *Pérez Viso* 1272 (MA-651567); 1273 (MA-651567). Litoral: district Mbili, près du village Sendje, *Lisowski M-571* (BRLU); Bata-Senye (Senge), *Carvalho* 5134 (MA-599712, MO, WAG); Bata-río Campo, *Carvalho* 4724 (MA-597969, MO, WAG).

Previously reported from Centro Sur (*Velayos et al.* 2014: 129-130) and from Litoral (*Lejoly & Lisowski* 1998: 154; *Velayos et al.* 2014: 129-130).

***Remirea maritima* Aubl., Hist. Pl. Guiane 1: 45, pl. 16 (1775)**

NE Native

Pantropical. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane

Province); Madagascan Region. Also known from Annobón and Bioko.

Litoral: Utonde, *Guinea* 136-810 (MA-651747); Corisco, barra de arena de Hoco, *Pérez Viso* 1999 (MA-651550); Bata, *Nguema* 1151 (BRLU); Ndote Sud, Espigon, *Lisowski M-1138* (BATA); Ndote Nord, près du village Jandje, *Lisowski M-142* (BATA); réserve de río Campo, près du village Niuma, *Lisowski M-1034* (BATA); Espigon, pradera de Baga (résèrve de Ndote), *Eneme & Lejoly* 92 (BATA); Bata, entre o Porto de Bata e Bome, *Carvalho* 4652 (MA-597277, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 154; 1999a: 101; Guinea 1946: 169; Velayos *et al.* 2014: 130) and Río Muni, without any precise locality (Guinea 1946: 239).

Rhynchospora candida (Nees) Boeckeler in Linnaea 37: 605 (1873)

LC Native

Tropical America and Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region.

Litoral: Ayamiken, Río Campo, *Pérez Viso* 2838 (MA-654042); pradera de Baga, *Eneme* 348 (BRLU); Etembue, espigon, réserve de Ndote, *Obama & Lejoly* 597 (BATA, BRLU); au S de Bata, au S du fleuve Ekuka, *Lisowski M-1609* (BATA); Bata-Bome, *Carvalho* 4672 (MA-597459, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 154; Velayos *et al.* 2014: 131).

Rhynchospora corymbosa (L.) Britton in Trans. New York Acad. Sci. 11: 84 (1892)

LC Native

Pantropical. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Centro Sur: P.N. Monte Alén, Esamalang, carretera de Mosumu, *Pérez Viso* 1188 (MA-651599); P.N. Monte Alén, dalle rocheuse de Monte Alén, *Parmentier & Nguema* 206 (BRLU). Litoral: Bata a Mbini, proximidades del cruce Mbini-Bolondo, ca. 17 km desde Bata, *Fero & al.* 275 (MA-844611); Espigon, pradera de Baga (rèserve de Ndote), *Eneme & Lejoly* 143 (BATA); 177 (BATA); District Mbini, village Sendje, río Uele, *Lisowski M-1240* (BATA); Ngoma, *Lejoly* 98/148 (BATA); Bata-Bolondo, *Carvalho* 4756 (MA-597318, MO, WAG). Wele Nzaz: Aconibe, *Nguema* 456 (BRLU).

Previously reported from Centro Sur (Velayos *et al.* 2014: 132), Litoral (Lejoly & Lisowski 1998: 154; Velayos *et al.* 2014: 132) and from Wele Nzaz (Velayos *et al.* 2014: 132).

Rhynchospora gracillima subsp. **subquadrata** (Cherm.) J.Raynal in Adansonia n.s., 7: 321 (1967)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province). Madagascan Region.

Litoral: Ndote Sur, près du village Etembue, *Lisowski M-325* (BATA; BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 155).

Rhynchospora holoschoenoides (Rich.) Herter. in Revista Sudamer. Bot. 9: 157 (1953)

LC Native

Tropical America and Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region.

Litoral: au S de Bata, au S du fleuve Ekuka, *Lisowski M-1626* (BATA); estuaire du Río Muni, village Mayang, *Lisowski M-822* (BATA); Espigon, pradera de Baga (resèrve de Ndote), *Eneme & Lejoly 145* (BATA); Bata, entre Asonga e o Aeroporto, *Carvalho 4642* (MA-597916, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 155; Velayos *et al.* 2014: 132).

Rhynchospora rubra subsp. **africana** J.Raynal in Adansonia ser. 2, 7: 323 (1967)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region.

Litoral: Ndote Sud, près Etembue, *Lisowski M-320* (BATA); *M-518* (BATA); *M-530* (BRLU); *M-1129* (BRLU); Espigon, pradera de Baga (resèrve de Ndote), *Eneme & Lejoly 138* (BATA); *142* (BATA); Etembue, *Del Val s.n.* (MA-723908, 723909, 723910).

Previously reported from Litoral (Lejoly & Lisowski 1998: 155; Nelmes 1957: 533; Velayos *et al.* 2014: 132) and Río Muni, without any precise locality (Hooper & Napper 1972: 329)

Scleria boivinii Steud., Syn. Pl. Glumac. 2: 173 (1855)

LC Native

Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Centro Sur: Evinayong, *Lisowski M-1401a* (BATA); P.N. Monte Alén, Enkumekien, *Pérez Viso 1506* (MA-687176); Región del Mafanebú [bosques entre Centro Sur y Wele Nazas], *Guinea 134-202-203* (MA-651810); Evinayong, *Guinea 128-129-130* (MA-

651756); Acurenam, alrededor, *Del Val s.n.* (MA-696868); P.N. Monte Alén, Ocuam, *Pérez Viso 608* (MA-651582); P.N. Monte Alén, Esamalang, *Pérez Viso 512* (MA-651575). Kie Ntem; Eloan, carretera Ebebiyin-Mongomo, *Pérez Viso 4245* (MA-651578); carretera que va de Nsok Nsomo a Añisok, *Barberá & al. 209* (MA-831752); Nsok Nsomo, camino que va desde Nsok Nsomo a Bata, a unos 3 km de Nsok Nsomo, Mocomo, *Cabezas & al. 1253* (MA-831807). Litoral: Bata-Pembe, *Carvalho 4811* (MA-597734, MO, WAG); Ondo, *Pérez Viso 3510* (MA-687158); Ayamiken, Réserve de río Campo, 1 km au N, *Lejoly 97/25* (BATA). Wele Nzaz: Nsum Esangüi, *Pérez Viso 3633* (MA-651581); 3634 (MA-651581); Akok, carretera Acurenam-Aconibe, *Pérez Viso 2008* (MA-651574).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 155; Guinea 1946: 184i; Velayos *et al.* 2014: 136), Kie Ntem (Velayos *et al.* 2014: 136), Litoral (Lejoly & Lisowski 1998: 155; Nelmes 1956: 93; Velayos *et al.* 2014: 136) and Wele Nzaz (Velayos *et al.* 2014: 136).

Scleria catophylla C.B. Clarke, Fl. Cap. 7: 294 (1898)

LC Native

Africa and Tropical America. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region.

Centro Sur: P.N. Monte Alén, dalle rocheuse 3 km l'O de ECOFAC, *Lejoly 99/024* (BATA, BRLU); P.N. Monte Alén, 5 km au NO de Engong, inselberg, *Lejoly 99/077* (BATA, BRLU). Kie Ntem: Nfuiñ, a 29 km de Nsok Nsomo por la pista que va hacia Bata, *Cabezas & al. 1339* (MA-831824). Litoral: Ayamiken, Río Campo, *Pérez Viso 2826* (MA-651842); Ndote Sud, près du village Etembue, *Lisowski M-321* (BRLU); *M-1122* (BRLU); *M-1130* (BATA); Bata, *Nguema 1076* (BRLU); au Sud de Bata, au sud du fleuve Ekuka, *Lisowski M-1622* (BRLU); Bata-Bome, *Carvalho 4674* (MA-597457, MO, WAG). Wele Nzaz: inselberg Asoc, *Obama & Lejoly 479* (BATA, MA-612112); inselberg Piedra Nzaz, *Lejoly 99/205* (BATA, BRLU).

Previously reported from Centro Sur (Velayos *et al.* 2014: 136, sub *S. aterrima*), Kie Ntem (Velayos *et al.* 2014: 136, sub *S. aterrima*), Litoral (Lejoly & Lisowski 1998: 155; Velayos *et al.* 2014: 136, sub *S. aterrima*) and Wele Nzaz (Lejoly & Lisowski 1998: 155; 1999: 118; Velayos *et al.* 2014: 136, sub *S. aterrima*).

Scleria foliosa Hochst. ex A. Rich., Tent. Fl. Abyss. 2: 509 (1851)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region.

Previously reported from Litoral (Guinea 1946: 176, 176b) and Wele Nzaz (Guinea 1946: 184k), and from Río Muni, without any precise locality (Velayos *et al.* 2014: 137).

Scleria gaertneri Raddi in Atti Reale Acad. Lucchese Sci 2: 331 (1823)

LC Native

Tropical America and Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region.

Litoral: Bata-Bome, *Carvalho 5564* (MA-598770, MO, WAG).

Previously reported from Litoral (Velayos *et al.* 2014: 138, sub *S. melanomphala*).

Scleria iostephana Nelm. in Kew Bull. 1956: 94 (1956)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Etembue, réserve de Ndote, *Eneme & Lejoly 57* (BATA, BRLU); réserve de río Campo, près du village Niuma, *Lisowski M-993* (BRLU); Bata, *Nguema 1090* (BRLU).

Previously reported from Litoral (Velayos *et al.* 2014: 137).

Scleria melaleuca Rchb. ex Schltdl. & Cham. in Linnaea 6: 29 (1831)

NE Native

Tropical America and Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region. Also known from Bioko.

Kie Ntem: Akam, *Fero & Esono 70* (MA-808137)

Not previously reported from Rio Muni.

Scleria melanomphala Kunth, Enum. Pl. 2: 345 (1837)

LC Native

Africa Tropical and America Tropical. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region.

Litoral: au S du fleuve Ekuka, au S de Bata, *Lisowski M-1616* (BATA).

Previously reported from Litoral (Lejoly & Lisowski 1998: 155; Velayos *et al.* 2014: 138).

Scleria melanotricha Hochst. ex A.Rich. Tent. Fl. Abyss.: 511 (1851)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Monte Alén, *Cabezas & al. 1* (MA-651844); P.N. Monte Alén, dalle rocheuse de Monte Alen, *Parmentier & Esono 3016* (MA-712353); *Parmentier 1505* (MA-712362); Ngong, praderas de Akwaosí, *Cabezas 175* (MA-695772); P.N. Monte Alén, Bong, Monte Alén, senda hacia el lago Atok, *Pérez Viso 319* (MA-651576).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 155; Velayos *et al.* 2014: 138).

Scleria mongomoensis Bauters in PloS ONE 13(9): e0203478 (23) (2018)

EN Endemic

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Wele Nzas: South of Mongomo, *Porembski 3560* (GENT), *3562* (GENT); South of Mongomo, near Domo, *Porembski 3609* (GENT).

Previously reported from Wele Nzas (Bauters *et al.* 2018: 26).

Scleria naumanniana Boeckeler in Bot. Jahrb. Syst. 5: 94 (1883)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Réserve de Rio Campo, près du village Niuma, *Lisowski M-993* (BATA, BRLU); Etembue, *Eneme & Lejoly 57* (BATA; BRLU).

Previously reported from Centro Sur (Guinea 1946: 241) and Litoral (Lejoly & Lisowski 1998: 155). We have not found any herbarium specimen supporting the Centro Sur record, nonetheless, the distribution range and ecological requirements of the species makes its presence in this province reliable.

Scleria racemosa Poir., Encycl. 7: 6 (1806)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region.

Centro Sur: P.N. Monte Alén, Esamalang, *Pérez Viso 528* (MA-651583). Kie Ntem: carretera que va de Añisok a Nfaman, *Barberá & al. 212* (MA-831755). Litoral: Miwala, a 5 km de Kogo, *Pérez Viso 3964* (MA-651577); Ndote, *Eneme 247b* (BRLU)

Scleria spiciformis Benth. in Hook (ed.), Niger Fl.: 556 (1849)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alen, err rocheuse, 3 km l'O de la station de ECOFAC, *Lejoly 99/409* (BATA); P.N. Monte Alen, 5 km au NO de Engong, inselberg, *Lejoly 99/062* (MA-621784); *99/074* (BRLU); inselberg de Bicurga, près du village de Bicurga,

Parmentier & Esono 3167 (MA-712332). Kie Ntem: Nfuiñ, a 29 km de Nsoc Nsomo por la pista que va hacia Bata, *Cabezas & al. 1328* (MA-831964). Litoral: Bata-Bome, *Carvalho 5565* (MA-598769); Etembue, Espigon (réserve de Ndote), *Obama & Lejoly 598* (MA-612197); Bome, *Pérez Viso 1726* (MA-689157); Ayamiken, Río Campo, *Pérez Viso 2835bis* (MA-706614); Etembue, *Del Val s.n.* (MA-723928, 723930); Ndote Sud, près de Etembue, *Lisowski M-532* (BATA); *M-533* (BRLU); *M-1102* (BRLU); *M-1131* (BATA); Etembue, *Guinea 911* (MA); Ndote, *Eneme 291* (BRLU). Wele Nzas: inselberg de Akoak Ebanga, *Parmentier & Esono 3474* (MA-712336); 3542 (MA-712333): cerro cúpula de Cucumancoc [Kukumankok], *Guinea 19* (MA); inselberg n° 4, südlich Mongomo, Dumu, *Porembski & al. 3607* (BRLU); Région d'Añisok, au-dessus du village Nzumayong, inselberg de Akuom, *Lisowski M-695* (BRLU); inselberg Piedra Nzas, *Lejoly 99/165* (BATA); Monument naturel de Piedra Nzas, err rocheuse d'Andom, *Lejoly 99/235* (BRLU); inselberg n° 3; südlich Mongomo, 20 km südl. Ende der Asphaltstrasse (Assoc), *Porembski & al. 3568* (BATA); inselberg Asoc, *Obama & Lejoly 490* (MA-612108); inselberg Acoak Banga, près de Ngong Mocomo (Nsork), *Lejoly & Elad 99/068* (BATA); inselberg Dumu, près du village Dumu, *Parmentier & Esono 3624* (BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 156) and Wele Nzas (Lejoly & Lisowski 1998: 156; 1999: 119)

Scleria verrucosa Willd., Sp. Pl. 4: 313 (1805)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, transect de Monte Chocolate, *Van Reeth 59* (BATA, BRLU)

Previously reported from Litoral (Lejoly & Lisowski 1998: 156)

Scleria vogelii C.B. Clarke in Oliv. (ed.), Fl. Trop. Afr. 8: 508 (1902)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Miyobo, carretera Niefang-Mosumu, *Pérez Viso 2576* (MA-723938); Ngong, *Cabezas 161* (MA-695758); Evinayong, km 5 de la carretera de Kogo, *Pérez Viso 3847* (MA-651579). Litoral: Bata a Mbini, *Fero & al. 271* (MA-844613); Corisco, Endote, *Pérez Viso 1956* (MA-651573); 1957 (MA-651573); Etembue, réserve de Ndote, *Eneme & Lejoly 33* (BATA); Bata, Asonga, *R. Castelo & J. Juste s.n.* (MA-708461); cabo San Juan, *Guinea 867* (MA-687159); Bata-Bome, *Carvalho 4791* (MA-597870, MO, WAG). Wele Nzas: Alum, entre Mikomeseng y Nkue, *Pérez Viso 3031* (MA-651580); 3032 (MA-651580).

Previously reported from Litoral (Lejoly & Lisowski 1998: 156).

DIOSCOREACEAE

Dioscorea bulbifera L., Sp. Pl.: 1033 (1753)

NE Native

Tropical & Subtropical Old World. Sudano-Zambezian Region (Sudanese Province, Zambezian Province, Somali-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascar Region. Also known from Bioko.

Previously reported from Centro Sur (Guinea 1946: 184i) and Wele Nzas (Guinea 1946: 258).

Dioscorea burkilliana J.Miège in Bull. Inst. Franc. Afrique Noire 20: 48 (1958)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 156)

Dioscorea dumetorum (Kunth) Pax in Engl. & Prantl (eds.), Nat. Pflanzenfam. 5: 134 (1888)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanese Province, Zambezian Province, Somali-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Annobón and Bioko.

Litoral: Bebai, Campogebiet [Campo region], *Tessmann* 553 (K).

Previously reported from Litoral (Lejoly & Lisowski 1998: 156) and Río Muni, without any precise locality (Guinea 1946: 258).

Dioscorea elephantipes (L'Hér.) Engl. in Engl. & Drude, Veg. Erde 9(2): 367 (1908)

LC Introduced

Native to South Africa, cultivated and naturalized through Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Cape Region. Also known from Bioko.

Previously reported from Río Muni, without any precise locality (Guinea 1946: 258)

Dioscorea minutiflora Engl. in Bot. Jahrb. Syst. 7: 332 (1886)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascar Region. Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 156), Litoral (Lejoly & Lisowski 1998: 156; Guinea 1946: 155, 258) and Wele Nzas (Lejoly & Lisowski 1999a: 120).

Dioscorea praehensilis Benth., Niger Fl. 536 (1849)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanese Province, Zambezian Province,

Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Río Muni, without any precise locality (Guinea 1946: 258)

Dioscorea preussii Pax in Bot. Jahrb. Syst. 15: 147 (1892)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 155, 157), Wele Nzaz (Lejoly & Lisowski 1998: 156) and Río Muni, without any precise locality (Guinea 1946: 258).

Dioscorea sansibarensis Pax in Bot. Jahrb. Syst. 15: 146 (1892)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region.

Previously reported from Wele Nzaz (Guinea 1946: 258).

Dioscorea smilacifolia De Wild. in Ann. Mus. Congo Belge. Bot., Ser. 2 1(1): 58 (1899)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 156)

Tacca leontopetaloides (L.) Kuntze in Revis. Gen. Pl. 2: 704 (1891) [Taccaceae in Fl. Guinea]

LC Naturalized

Native to the Tropical Old World. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region.

Centro Sur: [Parque Nacional de Monte Alén], A. *Rial* 65 (MA); Litoral: Utonde, *Barberá & al.* 249 (MA-843789); Corisco, *Velayos et al.* 9918 (MA-795359); costa de Bata, *Del Val s.n.* (MA-701706); Ayamiken: Río Campo, *Pérez Viso 2840bis* (MA-701654); Ondo, km. 10 de la carretera del puerto de Bata, *Pérez Viso 3502* (MA-687687); Río Benito, *Guinea 539* (MA-301362); *531* (MA-701678).

Previously reported from Litoral (Lejoly & Lisowski 1998: 173; Guinea 1946: 120b, 120d) and Río Muni, without any precise locality (Guinea 1946: 258).

ERIOCAULACEAE

Eriocaulon mannii N.E.Br. in Oliv. (ed.), Fl. Trop. Afr. 8: 241 (1901)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Corisco Island [Isla de Corisco], *Mann 1689* (S-G-8084; Bata-Senge-Mitom-Emanges, márgenes del río Mitom, *Carvalho 6385* (MA-620961, MO, WAG). Río Muni: River Mitom, *Sandford 5810* (K).

Eriocaulon nadjae S.M.Phillips in Kew Bull. 55: 199 (2000)

LC Subendemic

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata, *Porembski et. al. 3626* (BRLU, K-346118); Bata-Bome, *Carvalho 5151* (MA-599630, MO, WAG).

Eriocaulon teusczii Engl. & Ruhland in Bot. Jahrb. Syst. 27: 77 (Abril 1899)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Guinea 1946: 176).

Mesanthemum radicans (Benth.) Koern. in Linnaea 27: 573 (1854)

LC Native

Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, 5 km l'O du village d'Engong, *Parmentier & Esono 2765* (BRLU); *2784* (BRLU); P.N. Monte Alén, à 1h 30min de marche du site ECOFAC de Monte Alén, *Parmentier & Esono 3447* (BRLU); *Parmentier & Esono 3070* (BRLU); *Parmentier 1508* (BRLU); Monte Alén, praderas pasado el mirador, *Cabezas 134* (MA-695701). Litoral: Bolondo, *Guinea 690* (MA-724059); *691* (MA-724058); *692* (MA-687707); *897* (MA-724060); *898* (MA-724061); Bome, *Pérez Viso 1724* (MA-702667); Ayamiken, Río Campo, *Pérez Viso 2836bis* (MA-706616); Etembue, *Guinea 906* (MA-724054); *947* (MA-724056); Etembue, *Del Val s.n.* (MA-723931, 723932); Utonde, *Guinea 730* (MA-724055); Bata, Asonga, pradera frontal as caracolas da Cooperacion, *Carvalho 4662* (BRLU, MA-597510, MO, WAG); Río Muni, aeródromo, *Guinea 647* (MA-724057); Ndote Nord, près du village Jandje, *Lisowski 271* (BRLU); Bome, *Fero & Barberá 331* (MA-844555); pradera de Baga (réserve de Ndote), *Eneme & Lejoly 129* (BRLU); Bata, *Porembski & al. 3628* (K); Etembue, *Lisowski 1084* (BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 157; Guinea 1946: 176, 176b, 178) and Río Muni, without any precise locality (Guinea 1946: 252).

HELICONIACEAE

Heliconia subulata Ruiz & Pav., Fl. Peruv. 3: 70 (1802)

NE Cultivated

Native from Ecuador to Argentina, elsewhere cultivated in the Tropics. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Corisco, *Pérez Viso 1905* (MA-690945).

HYDROCHARITACEAE

Hydrocharis chevalieri (De Wild.) Dandy in J. Bot. 70: 227 (1932)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Monte Alén, carretera Monte Alén-Moka, *Velayos & al. 9470* (MA-710681).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 157) and Wele Nzaz (Lejoly & Lisowski 1998: 157).

Ottelia ulvifolia (Planch.) Walp. in Ann. Bot. Syst. 3: 510 (1852)

LC Native

Native to Tropical and S. Africa, and Madagascar. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Karroo Namib Region; Madagascan Region. Also known from Bioko.

Wele Nzaz: Acasakira, *Obama & Lejoly 569* (MA-612125).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 157) and Wele Nzaz (Lejoly & Lisowski 1998: 157).

IRIDACEAE

Gladiolus mirus Vaupel in Bot. Jahrb. Syst. 48: 534 (1912)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Kie Ntem: Nfuiñ, *Cabezas & al. 1338* (MA-831823).

Not previously reported from the country.

LILIACEAE

Ledebouria camerooniana (Baker) Speta in Phytol. (Horn) 38(1): 105 (1998)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bome, *Fero & Barberá 315* (MA-844571); Bata-Bome, *Carvalho 4822* (MA-597744, MO, WAG); Río Campo, desembocadura del río Campo, *Pérez Viso*

2473 (MA-689865).

Not previously reported from the country.

MARANTACEAE

Afrocalathea rhizantha (K.Schum.) K.Schum. in Engl. (ed.), *Pflanzenr.* IV.48: 51 (1902)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: *Senterre* 773 (BRLU); 1886 (BRLU); 3225 (BRLU)

Halopegia azurea (K.Schum.) K.Schum. in Engl. (ed.), *Pflanzenr.* IV. 48: 50 (1902)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Misergue, *Pérez Viso* 1149 (MA-687074). Kie Ntem: Ngomgom, *Barberá & al.* 85 (MA-831505). Litoral: Mbini, Senye I, *Velayos & al.* 13403 (MA-884383); SE of Bata, Oborobikó, *Sabater & Sandford* 6051 (K). Wele Nzas: pista forestal, entre Eviam y Aconibe, *Pérez Viso* 2079 (MA-691412); Nkolentangan, *Tessmann* 179 (K).

Previously reported from Centro Sur (Guinea 1946: 184i), Litoral (Cabezas *et al.* 2005: 176; Lejoly & Lisowski 1998: 158; Guinea 1946: 157), Wele Nzas (Cabezas *et al.* 2005: 176) and Río Muni, without any precise locality (Guinea 1946: 262).

Haumania dancelmaniana (J.Braun & K.Schum.) Milne-Redh. in Kew. Bull. 5: 162 (1950)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: inselberg de Bicurga, près du village de Bicurga, *Parmentier* 1781bis (BRLU); P.N. Monte Alén, Engong, *Pérez Viso* 334 (MA-685875); Bisun, carretera de Niefang a Evinayong, *Pérez Viso* 3425 (MA-687728); Ebolowa, entre Bicurga y Evinayong, *Pérez Viso* 1703 (MA-691415); P.N. Monte Alén, Esamalang, *Pérez Viso* 513 (MA-687155); 1129 (MA-687154); 1521 (MA-687718). Kie Ntem: Nsoc Nsomo, Mocomo, *Cabezas & al.* 1254 (MA-831808); Akam, camino a Oyò, *Fero & Esono* 159 (MA-808742); 176 (MA-808944); Nfuiñ, *Cabezas & al.* 1353 (MA-831781); Akam, *Fero & Esono* 90 (MA-808314). Litoral: Bata-Monson-Dibolo, *Carvalho* 4884 (MA-597846, MO, WAG); Bata-Pembe, *Carvalho* 5400 (MA-598322, MO, WAG). Wele Nzas: Nvua-Nnvam Oveng, Añisok, *Pérez Viso* 3007 (MA-688931); Mbiet, Añisok, *Pérez Viso* 3595 (MA-687162); Nkolentangan, *Tessmann* 49 (K); Akok, carretera Acurenam-Aconibe, *Pérez Viso* 2045 (MA-691422); 2055 (MA-691420).

Previously reported from Centro Sur (Cabezas *et al.* 2005: 176; Guinea 1946: 65, 184i), Litoral (Cabezas *et al.* 2005: 176; Lejoly & Lisowski 1998: 158; Milne-Redhead 1950:

162), Wele Nzas (Cabezas *et al.* 2005: 176; Milne-Redhead 1950: 162; Guinea 1946: 149) and Río Muni, without any precise locality (Hepper 1968c: 89; Guinea 1946: 262).

Hypselodelphys hirsuta (Loes.) Koechlin in Aubréville & al. (eds.), Fl. Gabon 9: 103 (1964)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bebai, Campogebiet [región de Campo], *Tessmann* 671 (K). Wele Nzas: inselberg de Dumu, près du village de Dumu, *Parmentier & Esono* 3611 (MA-712469); inselberg de Akoak Ebanga, à 1h de marche du village de Ngong Mocomo, à 10 km de Nsork, *Parmentier & Nguema* 26 (MA-712468).

Previously reported from Centro Sur (Cabezas *et al.* 2005: 177), Wele Nzas (Cabezas *et al.* 2005: 177) and Río Muni, without any precise locality (Guinea 1946: 262).

Hypselodelphys poggeana (K.Schum.) Milne-Redh. in Kew. Bull. 1950: 160 (1950)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, *Parmentier & Esono* 2720 (MA-712696); Miyobo, *Pérez Viso* 2555 (MA-690903).

Previously reported from Litoral (Lejoly & Lisowski 1998: 158) and Centro Sur (Cabezas *et al.* 2005: 177).

Hypselodelphys scandens Louis & Mullend. in Bull. Soc. Roy. Bot. Belg. 83: 14 (1950)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, *Parmentier & Esono* 3080 (BRLU); 3084 (BRLU); inselberg de Bicurga, *Parmentier* 1788 (BRLU). Kie Ntem: Nfuiñ, *Cabezas & al.* 1333 (MA-831969).

Previously reported from Centro Sur (Cabezas *et al.* 2005: 177) and Wele Nzas: Lejoly & Lisowski 1998: 158).

Hypselodelphys violacea (Ridl.) Milne-Redh. in Kew Bull. 1950: 160 (1950)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Engong, *Velayos et al.* 9989 (MA-706624); Ngong,

Cabezas 145 (MA-695694); P.N. Monte Alén, *Pérez Viso 90* (MA-685882). Litoral: Bata-Niefang, *Carvalho 5406* (MA-598316, MO, WAG).

Previously reported from Litoral (Cabezas *et al.* 2005: 177; Lejoly & Lisowski 1998: 158), Centro Sur (Cabezas *et al.* 2005: 177) and Río Muni, without any precise locality (Guinea 1946: 262).

Hypselodelphys zenkeriana (K.Schum.) Milne-Redh. in Kew Bull. 1950: 160 (1950)
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 155).

Marantochloa conferta (Benth.) A.C.Ley in Syst. Bot. 36(2): 287 (2011)
NE Native
Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Engong, *Pérez Viso 782* (MA-706623); 2664 (MA-687178); Enkumekien, carretera Niefang a Evinayong, *Pérez Viso 4088* (MA-702664); P.N. Monte Alén, Enkumekien, *Pérez Viso 1546* (MA-687717). Kie Ntem: Ngomgom, poblado de la pista que va de Nsoc Nsomo a Bata, *Barberá & al. 133* (MA-831666). Litoral: Sendje 2°, *Pérez Viso 2937* (MA-691427).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 157; Cabezas *et al.* 2005: 176), Litoral (Cabezas *et al.* 2005: 176) and Río Muni, without any precise locality (Hepper 1968c: 89; Guinea 1946: 262).

Marantochloa congensis (K.Schum.) J.Léonard & Mullend. in Bull. Soc. Roy. Belg. 83: 17 (1950)
NE Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Miyobo, carretera Niefang-Mosumu, *Pérez Viso 2567* (MA-706622). Litoral: Eyan Bot, *Pérez Viso 3556* (MA-706621). Wele Nzaz: inselberg de Mungum, *Parmentier & Esono 3390* (MA-712695).

Previously reported from Litoral (Cabezas *et al.* 2005: 179), Centro Sur (Cabezas *et al.* 2005: 179; Lejoly & Lisowski 1998: 158) and Wele Nzaz (Cabezas *et al.* 2005: 179; Lejoly & Lisowski 1998: 158).

Marantochloa cuspidata (Roscoe) Milne-Redh. in Proc. Linn. Soc. London 165: 30 (1954)
NE Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province)

Previously reported from Río Muni, without any precise locality (Guinea 1946: 263)

Marantochloa filipes (Benth.) Hutch. in Hutch. & Dalz., Fl. W. Trop. Afr. 2: 338 (1936)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Mosumu, *Pérez Viso* 625 (MA-687151); P.N. Monte Alén, Conengüi, cerca del río Nvog Yii, *Pérez Viso* 158 (MA-834953); subida al Monte Chocolate, transecto que está entre Monduá y el transecto de Aconanguí, *Cabezas* 189 (MA-695787); P.N. Monte Alén, Nfamam, *Pérez Viso* 1000 (MA-687174); P.N. Monte Alén, Misergue-Churu, *Pérez Viso* 1653 (MA-685879). Kie Ntem: Obot Nku-Eseng, *Barberá & al.* 152 (MA-831427). Litoral; Bata-Senge, *Carvalho* 5628 (MA-598782, MO, WAG); Sendje, *Pérez Viso* 1615 (MA-687177); 3388 (MA-687729); Bata: Miboman, km 27 carretera Bata-Movo, cerca de un arroyo, *Castelo, Cabeza & Juste s.n.* (MA-319773); Mbini, Senye I, salida del poblado hacia Monte Mitra, *Velayos & al.* 13404 (MA-884385, MA-884386); Sendje 2°, *Pérez Viso* 2939 (MA-689872); Laca, *Del Val s.n.* (MA-699502). Wele Nzaz: Bimbile, *Guinea* 145 (MA); 154 (MA-687700); Akok, carretera Acurenam-Aconibe, *Pérez Viso* 2057 (MA-691413).

Previously reported from Centro Sur (*Cabezas et al.* 2005: 179; Lejoly & Lisowski 1998: 158), Litoral (*Cabezas et al.* 2005: 179; Lejoly & Lisowski 1998: 158) and Wele Nzaz (*Cabezas et al.* 2005: 179).

Marantochloa leucantha (K.Schum.) Milne-Redh. in Bull. Soc. Roy. Bot. Belg. 83: 19 (1950)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: SO du P.N. de Monte Alén, transect ECOFAC de Mosumo, sur Monte Kundum, *Senterre & Ngomo* 893 (MA-712467); Monte Alén, *Cabezas* 117 (MA-695651); P.N. Monte Alén, Esamalang, *Pérez Viso* 3290 (MA-685881); cercanías de Alosa, Niefang, *R. Castelo & J. Juste s.n.* (MA-685878); P.N. Monte Alén, cerca de Misergue, Esamalang, *Pérez Viso* 207 (MA-685876); P.N. Monte Alén, Mosumu, cataratas del río Uoro, *Pérez Viso* 383 (MA-687179); Enkumekien, carretera de Monte Alén a Evinayong, *Pérez Viso* 3570 (MA-687165). Wele Nzaz: inselberg de Mungum, *Parmentier & Esono* 3335 (BRLU); Akok, *Pérez Viso* 2020 (MA-691414).

Previously reported from Centro Sur (*Cabezas et al.* 2005: 179; Lejoly & Lisowski 1998: 158), Litoral (Guinea 1946: 159) and Wele Nzaz (*Cabezas et al.* 2005: 179).

Marantochloa mannii (Benth.) Milne-Redh. in Kew Bull. 1952: 167 (1952)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 159).

Marantochloa mildbraedii Loes. ex Koechlin in Aubréville & al. (eds.), Fl. Gabon 9: 130 (1964)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, *Parmentier & Esono* 3428 (MA-715179).

Previously reported from Centro Sur (Cabezas *et al.* 2005: 179).

Marantochloa monophylla (K.Schum.) D'Orey in García de Orta, Sér. Bot. 5: 52 (1981)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: inselberg de Bicurga, près du village de Bicurga, *Parmentier & Esono* 3138 (BRLU); 3179 (BRLU); *Parmentier* 1619 (BRLU); 1649 (BRLU); 1762 (BRLU); 1814 (BRLU); P.N. Monte Alén, dalle rocheuse d'Engong, *Parmentier & Esono* 2994 (BRLU); Mosumo, desde la cabaña de las cataratas hasta las cataratas del Laña, *Aedo & al.* 5130 (MA-689168); P.N. Monte Alén, Asok, senda que va hacia el río Laña, *Pérez Viso* 894 (MA-689877); 968 (MA-687716). Kie Ntem: Nsok Nsomo, Mocomo, *Cabezas & al.* 1271 (MA-831861). Litoral: Bata-Mbini, *Carvalho* 6344 (MA-620817, WAG). Wele Nzaz: Eviam, Aconibe-Acurenem, *Pérez Viso* 1761bis (MA-712473); 1767 (MA-687150).

Previously reported from Centro Sur (Cabezas *et al.* 2005: 180; Lejoly & Lisowski 1998: 159), Litoral (Lejoly & Lisowski 1998: 159) and Wele Nzaz (Cabezas *et al.* 2005: 180; Lejoly & Lisowski 1998: 159).

Marantochloa purpurea (Ridl.) Milne-Redh. in Bull. Soc. Roy. Bot. Belg. 83: 21 (1950)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Litoral: Corisco Bay [Ilobi Island], *Mann* 1906 (K); Mechenque, Río Benito, *Del Val* 1067 (MA-685877); Bata-Pembe-San Joaquin de Ndyjacon, *Carvalho* 5248 (MA-598207, MO, WAG). Wele Nzaz: Nkolentangan, *Tessmann* 255 (K); inselberg de Acoak Ebanga, *Parmentier & Nguema* 40 (BRLU); Bimbile, *Guinea* 92 (MA-706619).

Previously reported from Centro Sur (Guinea 1946: 143), Litoral (Cabezas *et al.* 2005: 180), Wele Nzaz (Cabezas *et al.* 2005: 180) and Río Muni, without any precise locality (Guinea 1946: 263).

Megaphrynium distans Hepper in Kew Bull. 22: 461 (1968)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Centro Sur: inselberg de Bicurga, près du village de Bicurga, *Parmentier & Esono* 3234 (BRLU); P.N. Monte Alén, Ayangtang, camino hacia el río Laña, *Pérez Viso* 964 (MA-690904). Litoral: Bata-Bicomo, Central Hidroelectrica doble el Río Ecucu. Estrada kms. 22, *Carvalho* 4983 (MA-598914, MO, WAG); Bata-Pembe-San Joaquin de Ndyjacon, *Carvalho* 5259 (MA-598008, MO, WAG). Wele Nzaz: Akok, carretera Acurenam-Aconibe, *Pérez Viso* 2015 (MA-690946); Oveng Esandong, *Pérez Viso* 3077 (MA-690938).

Previously reported from Centro Sur (Cabezas *et al.* 2005: 181), Litoral (Cabezas *et al.* 2005: 181) and Wele Nzaz (Cabezas *et al.* 2005: 181).

Megaphrynium gabonense Koechlin in Aubréville & al. (eds.), Fl. Gabon 9: 15 (1964)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Wele Nzaz: Mbut, *Pérez Viso* 3683 (MA-687164)

Previously reported from Wele Nzaz (Velayos *et al.* 2014: 42).

Megaphrynium macrostachyum (Benth.) Milne-Redh. in Kew Bull. 1952: 170 (1952)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Mosumu, *Pérez Viso* 642 (MA-687171). Litoral; Mbini, Parque Nacional Monte Alén, camino entre Bisum y Monte Mitra, *Velayos & al.* 13442 (MA-884438); Bata-Sendje (Senye): estrada kms. 25-26, *Carvalho* 5257 (MA-598006, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 159), Litoral (Cabezas *et al.* 2005: 181; Lejoly & Lisowski 1998: 159; Guinea 1946: 157), Wele Nzaz (Lejoly & Lisowski 1998: 159) and Río Muni, without any precise locality (Hepper 1968c: 87).

Megaphrynium trichogynum Koechlin in Aubréville & al. (eds.), Fl. Gabon 9: 154 (1964)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Niefang, explotación forestal de Matroguisa, *Pérez Viso* 2257 (MA-712472); Monte Alén, *Cabezas* 121 (MA-695654); carretera de Monte Bata hacia río Campo, *Pérez Viso* 2454 (MA-689862). Kie Ntem: Ebon-Oyac, Ebebiyín, *Pérez Viso* 4309 (MA-687172); Wele Nzaz: Oveng Esandong, km. 61 carretera Nkue-Mongomo,

Pérez Viso 3079 (MA-690939); 3083 (MA-690942).

Previously reported from Centro Sur (Cabezas *et al.* 2005: 181; Lejoly & Lisowski 1998: 159), Kie Ntem (Cabezas *et al.* 2005: 181) and Wele Nzas (Cabezas *et al.* 2005: 181).

Megaphrynium velutinum (Baker ex K.Schum.) Koechlin in Aubréville & al. (eds.), Fl. Gabon 9: 158 (1964)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: inselberg de Bicurga, près du village Bicurga, *Parmentier* 1642 (BRLU); Nfing Ntagan, poblado en la carretera forestal de Niefang a Bata, a continuación de Mosumu, *Pérez Viso* 2745 (MA-702651); Monte Alén, subida al mirador, *Velayos & Pérez Viso* 9299 (MA-702095); Cabezas 125 (MA-695658); Ncum Esong Oyen, Cabezas 102 (MA-695681); P.N. Monte Alén, Moka, subida al monte Alén, por el camino que va a Bong, *Pérez Viso* 172 (MA-690906); 821 (MA-689859); 822 (MA-689858); P.N. Monte Alén, Misergue-Churu, *Pérez Viso* 1664 (MA-690905). Kie Ntem: Nfuiñ, a 29 km de Nsoc Nsomo por la pista que va hacia Bata, Cabezas & al. 1331 (MA-831967); Ebon-Oyac, Ebebiyin, *Pérez Viso* 4307 (MA-687173). Litoral: Bata-Monson-Dibolo: estrada kms. 52-53, *Carvalho* 4825 (MA-597747, MO, WAG). Wele Nzas: entre Nsuameyong et inselberg Akuom, *Obama & Lejoly* 441 (BRLU); Akok, carretera Acurenam-Aconibe, *Pérez Viso* 2054 (MA-690943); Oveng Esandong, km. 61 carretera Nkue-Mongomo, *Pérez Viso* 3082 (MA-690941).

Previously reported from Centro Sur (Cabezas *et al.* 2005: 181), Kie Ntem (Guinea 1946: 216g), Litoral (Cabezas *et al.* 2005: 181; Lejoly & Lisowski 1998: 159), Wele Nzas (Cabezas *et al.* 2005: 181) and Río Muni, without any precise locality (Guinea 1946: 262).

Sarcophrynium brachystachyum (Benth.) K.Schum. in Engl. (ed.), Pflanzenr. IV. 48: 36 (1902)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, dalle rocheuse d'Engong, 5 km à l'ouest du village d'Engong, *Parmentier & Esono* 2782 (BRLU); P.N. Monte Alén, Esamalang, *Pérez Viso* 1179 (MA-687157); 3272 (MA-702652); P.N. Monte Alén, Asok, senda que va hacia el río Laña, *Pérez Viso* 897 (MA-689878); Nfing Ntagan, poblado en la carretera forestal de Niefang a Bata, a continuación de Mosumu, *Pérez Viso* 2750 (MA-685887); P.N. Monte Alén, Enkumekiem, *Velayos & Pérez Viso* 9340 (MA-685884). Wele Nzas: inselberg d'Asoc, a côté de la route près du village d'Asoc, à 15 km de Mongomo, *Parmentier & Esono* 3775 (BRLU); Mofú, cerca de Oven, *Pérez Viso* 2124 (MA-690398).

Previously reported from Centro Sur (Cabezas *et al.* 2005: 181; Lejoly & Lisowski 1998: 159), Litoral (Lejoly & Lisowski 1998: 159), Wele Nzas (Cabezas *et al.* 2005:

181; Lejoly & Lisowski 1998: 159) and Río Muni, without any precise locality (Guinea 1946: 262).

Sarcophrynium prionogonium (K.Schum.) K.Schum. in Engl. (ed.), *Pflanzenr.* 48: 39 (1902)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, senda que va desde Moka hacia Bong, monte Alén, *Pérez Viso* 733 (MA-687720). Kie Ntem: Nsoc Nsomo, camino que va desde Nsoc Nsomo a Bata, a unos 3 km de Nsoc Nsomo, Mocomo, *Cabezas & al.* 1270 (MA-831860).

Litoral: Pista Sendje-Evinayong, camino dentro del PN Monte Alén, *Cabezas & al.* 2100 (MA-884361). Wele Nzas: Mofú, cerca de Oven, *Pérez Viso* 2120 (MA-690399).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 159), Litoral (Lejoly & Lisowski 1998: 159) and Wele Nzas (Lejoly & Lisowski 1998: 159).

Sarcophrynium schweinfurthianum (Kuntze) Milne-Redh. in Bull. Soc. Bot. Belg. 83, 5: 30 (1950)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Ngong, *Cabezas* 155 (MA-695689); P.N. Monte Alén, *Pérez Viso* 87 (MA-685883). Wele Nzas: Temelon, Añisok, *Pérez Viso* 4145 (MA-690944); inselberg Dumu, près du village Dumu, *Parmentier & Esono* 3650 (BRLU); inselberg de Mungum, *Parmentier & Esono* 3408 (BRLU); Mbut, *Pérez Viso* 3679 (MA-687163); 3685 (MA-687156); Temelon, Añisok, *Pérez Viso* 4145 (MA-690944); Oveng Esandong, *Pérez Viso* 3081 (MA-690940).

Previously reported from Centro Sur (*Cabezas et al.* 2005: 182; Lejoly & Lisowski 1998: 160; Guinea 1946: 143), Litoral (Lejoly & Lisowski 1998: 160), Wele Nzas (*Cabezas et al.* 2005: 182; Lejoly & Lisowski 1998: 160) and Río Muni, without any precise locality (Guinea 1946: 263).

Thalia geniculata L., *Sp. Pl.*: 3 (1753)

LC Native

Native to Tropical America and Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Guinea 1946: 143)

Thaumatococcus daniellii (Benn.) Benth. in Benth. & Hook.f. (eds.), *Gen. Pl.* 3: 652 (1883)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Guinea 1946: 262) and Litoral (Guinea 1946: 157).

Trachypodium braunianum (K.Schum.) Baker in Oliv. (ed.), Fl. Trop. Afr. 7: 319 (1898)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Abang, Niefang, *Pérez Viso* 4235 (MA-702654); Niefang, *Pérez Viso* 2292 (MA-690406); 2300 (MA-685886). Litoral: Corisco Bay [Bahía de Corisco, Ilobi Island], *Mann* 1909 (K).

Previously reported from Centro Sur (Cabezas *et al.* 2005: 182), Litoral (Cabezas *et al.* 2005: 182; Guinea 1946: 157) and Río Muni, without any precise locality (Guinea 1946: 262).

MUSACEAE

Musa acuminata Colla in Mem. Reale Accad. Sci. Torino 25: 394 (1820) subsp. **acuminata**

LC Naturalized

Probably native to Tropical and Subtropical Asia, cultivated and naturalized elsewhere in the Tropics.

Previously reported from Río Muni, without any precise locality (Guinea 1946: 259)

Musa textilis Née in Anales Ci. Nat. 4: 123 (1801)

NE Naturalized

Native to Philippines, cultivated and naturalized in the Paleotropic. Also known from Bioko.

Previously reported from Río Muni, without any precise locality (Guinea 1946: 260)

PANEANACEAE

Pandanus candelabrum P.Beauv., Fl. Oware 1: 37 (1805)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, *Velayos et al.* 14149 (MA).

Previously reported from Litoral (Guinea 1946: 24d, 168k, 320b).

ORCHIDACEAE

Aerangis arachnopus (Rchb.f.) Schltr. in Beih. Bot. Centralbl. 36(2): 113 (1918)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral

Bata–Bome, *Carvalho 5423* (MA-598448, MO, WAG)

Previously reported from Litoral (Sanford 1971: 295) and Río Muni, without any precise locality (Galán *et al.* 2018)

Aerangis calantha (Schltr.) Schltr. in Beih. Bot. Centralbl. 36(2): 115 (1918)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: 87 miles from Ebebiyin near Niefang, *Sandford 5757* (P-380033). Litoral: Mbomo, *Sandford 6063* (P-380032).

Previously reported from Centro Sur (Sanford 1971: 295; Stewart 1979: 299), Litoral (Stewart 1979: 299) and Río Muni, without any precise locality (Galán *et al.* 2018)

Afropectinariella atlantica (Stévant & Droissart) M.Simo & Stévant in PhytoKeys 96: 82 (2018)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Engong inselberg, *Stévant 1020* (BRLU).

Previously reported from Centro Sur (Stévant *et al.* 2010: 253) and Río Muni, without any precise locality (Galán *et al.* 2018)

Afropectinariella gabonensis (Summerh.) M.Simo & Stévant in PhytoKeys 96: 83 (2018)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018)

Afropectinariella subulata (Lindl.) M.Simo & Stévant in PhytoKeys 96: 83 (2018)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 157) and Río Muni, without any precise locality (Guinea 1946: 267; Galán *et al.* 2018).

Ancistrochilus rothschildianus O'Brien in Gard. Chron., ser. 3, 41: 51 (1907)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian

Province). Also known from Bioko.

Litoral: Bata on the río Benito road, *W.W. Sanford 5870* (K); Bata-Niefang, *Carvalho 5770* (MA-599098).

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018).

Ancistrochilus thomsonianus (Rchb.f.) Rolfe in Oliv. (ed.), Fl. Trop. Afr. 7(1): 44 (1897)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: SO P.N. Monte Alén, 2 km au NE du site de traversée du río Uolo pour aller aux cataractas, *Senterre & al. s.n.* (BRLU); *Sanford 5870* (K).

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018).

Ancistrorhynchus capitatus (Lindl.) Summerh. in Bot. Mus. Leaf. 11: 205 (1944)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: inselberg de Bikurga, près de Bikurga, *Stévert & al 1515* (BRLU); Engong, P.N. Monte Alén, 5 km NO de Engong, *Ndong Bokung & Stévert 21* (BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 163) and Río Muni, without any precise locality (Galán *et al.* 2018).

Ancistrorhynchus clandestinus (Lindl.) Schltr. in Beih. Bot. Centralbl. 36(2): 138 (1918)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Sendje (Senye): Estrada km. 40. Puente sobre el Río Benito, *Carvalho 5286* (MA-598003, MO, WAG).

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018).

Ancistrorhynchus crystalensis P.J.Cribb & Laan in Kew Bull. 44(3): 481 (1989)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018).

Ancistrorhynchus metteniae (Kraenzl.) Summerh. in Bot. Mus. Leaf. 11: 209 (1944)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province,

Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Sanford 1971: 295) and Río Muni, without any precise locality (Galán *et al.* 2018)

Ancistrorhynchus schumannii (Kraenzl.) Summerh. in Kew Bull. 1948: 281 (1948)
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 157) and Río Muni, without any precise locality (Galán *et al.* 2018)

Ancistrorhynchus tenuicaulis Summerh. in Kew Bull. 8: 590 (1954)
VU Native
Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Centro Sur: Engong, (Monte Alén Nat. Park), *Stévert* 564 (BRLU); near Misergue, *Stévert* 564 (BRLU).

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018)

Angraecum birrimense Rolfe in Bull. Misc. Inform. Kew 1914: 214 (1914)
NE Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Wele Nzas (Sanford 1971: 295) and Río Muni, without any precise locality (Galán *et al.* 2018).

Angraecum distichum Lindl. in Edwards's Bot. Reg. 21, tab. 1781 (1836)
LC Native
Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Guinea 1946: 157), Wele Nzas (Sanford 1971: 295) and Río Muni, without any precise locality (Stévert & de Oliveira 2000: 107; Galán *et al.* 2018).

Angraecum eichlerianum var. **curvicalcaratum** Szlach. & Olszewski, Fl. Cameroun 36: 898, pl. 402 (2001)
LC Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: SO P.N. Monte Alén, 2 km au NE du site de traversée du río Uolo pour aller aux cataractas, *Senterre & al.* 2009 (BRLU). Kie Ntem: Akuom (inselberg),

Parmentier & Nguema 336 (BRLU). Litoral: Bata-Bicomo, *Carvalho 5454* (MA-610087, MO, WAG). Wele Nzaz: Akoak Benguan (inselberg), Deman, *Ndong Bokung & Nguema 11* (BRLU).

Previously reported from Litoral (Guinea 1946: 157) and Río Muni, without any precise locality (Galán *et al.* 2018).

Angraecum firthii Summerh. in Kew Bull. 1958: 267 (1958)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Kie Ntem: inselberg de Akoum, *Deman & Esono s.n.* (BRLU).

Previously reported from Kie Ntem (Sanford 1971: 295) and Río Muni, without any precise locality (Galán *et al.* 2018).

Angraecum lisowskianum Szlach. & Olsz., Fl. Cameroun 36: 892, pl. 399 (2001)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: 87 miles from Ebebiyin near Niefang on the Bata road, *Sanford 5754* (P). Litoral: Monte Bata towards Campos near San Joaquim de Ndyiacom, *Sanford 6068* (P).

Previously reported from Río Muni without any precise locality (Galán *et al.* 2018: 12).

Angraecum moandense De Wild. in Bull. Jard. Bot. État Bruxelles 5: 188 (1916)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Kie Ntem: Ebebiyìn-Micomesong, 33 miles from Ebebiyin, *Sanford 5738* (P).

Previously reported from Centro Sur (Sanford 1971: 295), Kie Ntem (Sanford 1971: 295) and Río Muni without any precise locality (Galán *et al.* 2018: 12).

Angraecum multinominatum Rendle, Cat. Pl. Oban: 107 (1913)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Litoral: about 11 km S of Bata, *De Wilde & al. 11997* (WAG).

Previously reported from Litoral (Guinea 1946: 157) and Río Muni without any precise locality (Galán *et al.* 2018: 12).

Angraecum podochiloides Schltr. in Bot. Jahrb. Syst. 38: 162 (1906)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-

Cameroonian Province, Congolian Province).

Río Muni: *L. Del Val s.n.* (MA-785024).

Previously reported from Río Muni without any precise locality (Galán *et al.* 2018).

Ansellia africana Lindl. in Edwards's Bot. Reg. 30: sub t. 12 (1844)

VU Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Karroo Namib Region. Also known from Bioko.

Litoral: Bata-Niefang; Estrada Km. 35. En dirección de Adjape a la zona de Comaya, *Carvalho 5797* (MA-609960, WAG). Wele Nzaz: Cucumancoc [Kukumankok], *Guinea 382* (MA-785012); Aconibe, *Guinea 398* (MA-784975).

Previously reported from Centro Sur (Sanford 1971: 295; Guinea 1946: 143), Wele Nzaz (Guinea 1946: 116, 179) and Río Muni, without any precise locality (Szlachetko 2008: 219; Guinea 1946: 266; Galán *et al.* 2018).

Bolusiella iridifolia (Rolfe) Schltr. in Beih. Bot. Centralbl. 36(2): 106 (1918)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Centro Sur: inselberg de Bikurga, près du village de Bikurga, *Stévant 810* (BRLU); P.N. Monte Alén, Misergue, senda hacia el río Laña, *Pérez Viso 1166* (MA-710556). Kie Ntem: Ebebiyìn-Micomiesong, 33 miles from Ebebiyìn, *Sanford 5741* (P). Wele Nzaz: inselberg de Piedra Nzaz, à 9 km d'Aconibe, *Parmentier & Nguema 382* (BRLU).

Previously reported from Kie Ntem (Sanford 1971: 296) and Río Muni, without any precise locality (Stévant & de Oliveira 2000: 110; Galán *et al.* 2018)

Bolusiella talbotii (Rendle) Summerh. in Hutch. & Dalz., Fl. W. Trop. Afr. 2: 456 (1936)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: Engong, *Stévant 560* (BRLU); Añisok–Mongola, *Pérez Viso 1481* (MA-785018). Litoral: Mboma, *Sanford 6089* (K). Wele Nzaz: inselberg de Akoak Ebanga, *Parmentier & Esono 3517* (BRLU).

Previously reported from Río Muni without any precise locality (Galán *et al.* 2018).

Bolusiella zenkeri (Kraenzl.) Schltr. in Beih. Bot. Centralbl. 36(2): 106 (1918)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Bikaba (route de Monte Alén a Niefang), *Ndong Bokung & Stévar* 92 (BRLU); just on the Bata side of Niefang, *Sanford* 5750 (K). Litoral: Avelengong, *Deman* 270 (BRLU).

Previously reported from Centro Sur (Sanford 1971: 295) and Río Muni without any precise locality (Galán *et al.* 2018).

Brachycorythis ovata subsp. **schweinfurthii** (Rchb.f.) Summerh., in Kew Bull. 10: 257 (1955)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Río Muni, without any precise locality (Szlachetko 2008: 31)

Brachycorythis pleistophylla Rchb.f. in Otia Bot. Hamburg 2: 104 (1881)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region.

Previously reported from Río Muni, without any precise locality (Govaerts *et al.* 2018)

Brachycorythis pubescens Harv., Thes. Cap. 1: 35, tab. 54 (1859)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province)

Previously reported from Río Muni, without any precise locality (Szlachetko 2008: 34)

Brachycorythis sceptrum Schltr. in Beih. Bot. Centralbl. 38(2): 114 (1921)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Río Muni, without any precise locality (Szlachetko 2008: 30)

Bulbophyllum acutebracteatum var. **rubrobrunneopapillosum** (De Wild.) J.J.Verm. in Bull. Jard. Bot. Natl. Belg. 56(3-4): 238 (1986)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province);

Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Vermeulen 1987: 145) and Río Muni, without any precise locality (Stévant & de Oliveira 2000: 115; Galán *et al.* 2018).

Bulbophyllum calyptratum Kraenzl. in Bot. Jahrb. Syst. 22: 24 (1895)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: on the Bata side of Niefang, *Sanford* 5745 (P). Litoral: Bata–Niefang, km. 35, en las zonas de Adjape y Comayá pasando por Akora, *Carvalho* 5838 (MA-619817).

Previously reported from Centro Sur (Sanford 1971: 296), Litoral (Vermeulen 1987: 130; Guinea 1946: 160) and Río Muni, without any precise locality (Stévant & de Oliveira 2000: 115; Galán *et al.* 2018).

Lachenaud *et al.* (2013: 125) identified the specimens from Río Muni as *Bulbophyllum calyptratum* var. *lucifugum* (Summerh.) J.J. Verm. Orchid Monogr. 2: 131 (1987)

Bulbophyllum cochleatum Lindl. in J. Proc. Linn. Soc., Bot. 6: 125 (1862) var. **cochleatum**

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alen, Enkumekien, *Pérez Viso* 1503 (MA-785014); 1502 (MA-784994).

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018).

Bulbophyllum colubrinum (Rchb.f.) Rchb.f. in Ann. Bot. Syst. (Walpers) 6: 257 (1861)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bome: Pradera gramínea con longo do río Boara, *Carvalho* 4865 (MA-597378, MO, WAG).

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018).

Bulbophyllum coriscense Rchb.f., in Otia Bot. Hamb. 2: 118 (1881)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Esamalan, *Stévant & Ndong Bokung* 50 (BRLU). Litoral: Corisco Bay, *Mann* 1883 (K).

Previously reported from Río Muni (Galán Cela *et al.* 2018: 10).

Bulbophyllum curvimentatum J.J.Verm. in Bull. Jard. Bot. Natl. Belg. 54(1-2): 137, fig. 1 a-e (1984)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, transect of Monte Alén, *Lejoly 94/199* (BRLU)

Previously reported from Río Muni (Galán Cela *et al.* 2018: 10).

Bulbophyllum falcatum (Lindl.) Rchb.f. in Ann. Bot. Syst. (Walpers) 6(2): 258 (1861)
var. **falcatum**

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Misergue, hacia el río Laña, *Pérez Viso 1168* (MA-754979); P.N. Monte Alén, Enkumekien, *Pérez Viso 1516* (MA-710557).

Previously reported from Río Muni, without any precise locality (Stévant & de Oliveira 2000: 118; Galán Cela *et al.* 2018: 10).

Bulbophyllum falcatum var. **bufo** (Lindl.) Govaerts, World Checkl. Seed Pl. 2(1): 14 (1996)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Senye (Senge)-Mitom-Emangës, estrada kms.70-71 en dirección a Cogo y después de Emangós, *Carvalho 6486* (MA-620712).

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018).

Bulbophyllum falcatum var. **velutinum** (Lindl.) J.J.Verm. in Fl. Afr. Centr. Orchid. 2: 357 (1992)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: P.N. Monte Alén, cataratas del río Wele, Mosumu, *Pérez Viso 1590* (MA-710394); Nsung, entre Monte Alén y Evinayong, *Pérez Viso 1679* (MA-709345). Kie Ntem: Ebebiyìn-Mikomeseng, *Sanford 5740* (P). Litoral: Bata-Niefang, *Carvalho 5710* (MA-599255).

Previously reported from Kie Ntem (Sanford 1971: 296), Litoral (Vermeulen 1987: 127), Wele Nzás (Sanford 1971: 296) and Río Muni, without any precise locality (Stévant & de Oliveira 2000: 119; Galán *et al.* 2018).

Bulbophyllum fuscum Lindl. in Edward's Bot. Reg. 25 (Misc.): 3 (1839)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Wele Nzaz (Sanford 1971: 296) and Río Muni, without any precise locality (Galán *et al.* 2018).

Bulbophyllum imbricatum Lindl. in Edwards's Bot. Reg. 27(Misc.): 37 (1841)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón.

Litoral: Bata-Bicomo: Estrada km. 30. Bosque primario margens del Río Ecucu, *Carvalho 5303* (MA-598257, MO, WAG).

Previously reported from Litoral (Guinea 1946: 160) and Río Muni, without any precise locality (Stévant & de Oliveira 2000: 120; Galán *et al.* 2018).

Bulbophyllum intertextum Lindl. in J. Proc. Linn. Soc., Bot. 6: 127 (1862)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Annobón and Bioko.

Litoral: Río Metem, Bata–Río Benito, *Sanford 5831* (K).

Previously reported from Litoral (Vermeulen 1987: 55), Wele Nzaz (Sanford 1971: 296) and Río Muni, without any precise locality (Stévant & de Oliveira 2000: 121; Galán *et al.* 2018).

Bulbophyllum josephi (Kuntze) Summerh. in Bot. Mus. Leaf. 11: 250 (1945)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Corisco, *Obama 747* (WAG).

Bulbophyllum magnibracteatum Summerh. in Bull. Misc. Inform. Kew 1935: 203 (1935)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Vermeulen 1987: 107; Sanford 1971: 296) and Río Muni, without any precise locality (Galán *et al.* 2018).

Bulbophyllum maximum (Lindl.) Rchb.f. in Ann. Bot. Syst. (Walpers) 6(2): 259 (1861)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Annobón.

Previously reported from Centro Sur (Guinea 1946: 86) and Río Muni, without any precise locality (Galán *et al.* 2018).

Bulbophyllum oreonastes Rchb.f. in Otia Bot. Hamburg. 2: 118 (1881)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Añisok, *Pérez Viso 1387* (MA-709344).

Previously reported from Río Muni, without any precise locality (Stévant & de Oliveira 2000: 126).

Bulbophyllum porphyrostachys Summerh., in Bot. Mus. Leaf. 14: 230 (1951)

VU Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Río Muni, without any precise locality (Droissart *et al.* 2006: 26).

Bulbophyllum pumilum (Sw.) Lindl., Gen. Sp. Orchid. Pl.: 54 (1830)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 160; Galán *et al.* 2018).

Bulbophyllum renkinianum (Laurent) De Wild., Pl. Bequaert. 1: 95 (1921)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur; Bikurga, *Stévant & al. 1529* (BRLU).

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018).

Bulbophyllum resupinatum var. **filiforme** (Kraenzl.) J.J.Verm. in Bull. Jard. Bot. Natl. Belg. 56(3-4): 235 (1986)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Previously reported from Litoral (Guinea 1946: 160) and Río Muni, without any precise locality (Galán *et al.* 2018).

Bulbophyllum saltatorium Lindl. in Edwards's Bot. Reg. 23: t. 1970 (1837)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Enkumekien, *Pérez Viso 1517* (MA-784987). Litoral: Río Benito, *Sanford 5806* (P).

Previously reported from Litoral (Guinea 1946: 160; Vermeulen 1987: 33, 36), Wele Nzas (Sanford 1971: 296) and Río Muni, without any precise locality (Galán *et al.* 2018).

Some plants from río Muni have been referred to var. *calamarium* (Lindl.) J.J. Verm. in Bull. Jard. Bot. Natl. Belg. 56(3-4): 230 (1986) and to var. *albociliatum* (Finet) J.J. Verm. in Bull. Jard. Bot. Natl. Belg. 56(3-4): 230 (1986)

Bulbophyllum sandersonii (Oliv. ex Hook.f.) Rchb.f. in Flora 61: 78 (1878) subsp. **sandersonii**

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province). Also known from Bioko.

Litoral: Bata-Senye (Senge)-Mitom-Emangës, *Carvalho 6508* (MA-621035).

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018).

Bulbophyllum sandersonii subsp. **stenopetalum** (Kraenzl.) J.J. Verm. in Bull. Jard. Bot. Natl. Belg. 56(3-4): 234 (1986)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Enkumekien, *Pérez Viso 1540* (MA-710388). Litoral: Bata-Niefang: Estrada km. 35. En las zonas de Adjape y Comaya pasando por Akora, *Carvalho 5837* (MA-609816).

Previously reported from Litoral (Guinea 1946: 160) and from Río Muni, without any precise locality (Galán *et al.* 2018).

Bulbophyllum scaberulum var. **fuerstenbergianum** (De Wild.) J.J. Verm. in Bull. Jard. Bot. Natl. Belg. 56(3-4): 234 (1986)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Enkumekien, *Pérez Viso 1512* (MA-710386)

Bulbophyllum schimperianum Kraenzl. in Bot. Jahrb. Syst. 33: 71 (1904)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Esamalang, *Pérez Viso 606* (MA-687149)

Bulbophyllum schinzianum Kraenzl. in Bull. Soc. Roy. Bot. Belgique 38: 57 (1899)

DD Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Kie Ntem: Inselberg de Akuom, Añisok, *Deman & Esono 156* (BRLU).

Bulbophyllum vanum J.J.Verm. in Bull. Jard. Bot. Natl. Belg. 54: 148 (1984)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bikurga (inselberg), *Stévant 777* (BRLU).

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018).

Calanthe sylvatica (Thouars) Lindl., Gen. Sp. Orchid. Pl. 3: 250 (1833) var. **sylvatica**

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Annobón and Bioko.

Previously reported from Wele Nzaz (Guinea 1946: 151) and Río Muni, without any precise locality (Galán *et al.* 2018).

Calypstrochilum christyanum (Rchb.f.) Summerh. in Hutchinson & Dalziel, Fl. W.

Trop. Afr. 2: 450 (1936)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Centro Sur: Oyac Esom, *Pérez Viso 3454* (MA-687691)

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018).

Calypetrochilum emarginatum (Sw.) Schltr. in Beih. Bot. Centralbl. 36(2): 84 (1918)
NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province) Also known from Bioko.

Centro Sur: Miyobo: carretera Niefang-Mosumu. Senda hacia el río Laña, *Pérez Viso* 2575 (MA-709341). Kie Ntem: Ebebiyín-Mikonesong, 33 miles from Ebebiyín, *Sanford* 5733 (K). Litoral: Río Campo, carretera de San Joaquín de Adjiaikom hacia Ayamiken, a 14km de San Joaquin de Adjiaikom, *Pérez Viso* 2500 (MA-709340); Bata-Mbubuin, *Carvalho* 5050 (MA-599144, MO, WAG); Bata-Monte Bata, *Carvalho* 5077 (MA-599170, MO, WAG); Bata-Bicomo, *Carvalho* 5252 (MA-598013, MO, WAG).

Previously reported from Kie Ntem (*Sanford* 1971: 296), Wele Nzás (*Lejoly & Lisowski* 1998: 160; 1999: 118) and Río Muni, without any precise locality (*Galán et al.* 2018).

Cheirostylis divina (Guinea) Summerh. var. **divina** in Kew Bull. 1953: 131 (1953)
LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Monte Chime, Evinayong, *Guinea s.n.* (K).

Previously reported from Centro Sur (Guinea 1945: 469, 471; Guinea 1946: 268, 269), Wele Nzás (Guinea 1946: 153) and Río Muni, without any precise locality (*Hepper* 1968a: 208; *Sanford* 1971: 296; *Galán et al.* 2018)

Cheirostylis lepida (Rchb.f.) Rolfe in Oliv. (ed.), Fl. Trop. Afr. 7(1): 182 (1897)
NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Previously reported from Río Muni, without any precise locality (*Stévant & de Oliveira* 2000: 133).

Corymborkis corymbis Thouars, Hist. Orchid. 37. 38 (1822)
NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Abang, Niefang, *Pérez Viso* 4238 (MA-702111).

Previously reported from Litoral (Guinea 1946: 159), Wele Nzás (Guinea 1946: 151) and Río Muni, without any precise locality (*Galán et al.* 2018)

Corymborkis minima Cribb in Kew Bull. 51(2): 355 (1996)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018)

Cyrtorchis aschersonii (Kraenzl.) Schltr. in Beih. Bot. Centralbl. 36(2): 129 (1918)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bome: Praderas, *Carvalho 5431* (MA-598440, MO, WAG). Wele Nzaz: Alum, *Ndong Bokung & Stévant 286* (BRLU).

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018)

Cyrtorchis chailluana (Hook.f.) Schltr., Orchideen 596 (1914)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: Akonangui, Monte Alén-Niefang, entre Ayene y Bikaba, *Ndong Bokung & Stévant 119* (BRLU). Litoral: Bata-Pembe: Eyang Mbaha, *Carvalho 5032* (MA-598922, MO, WAG). Wele Nzaz: Inselberg de Piedra Nzaz, Aconibe, *Ndong Bokung & Stévant 504* (BRLU); Mongum (inselberg), *Ndong Bokung & Stévant 66* (BRLU).

Previously reported from Centro Sur (Sanford 1971: 296), Litoral (Guinea 1946: 157) and Río Muni, without any precise locality (Galán *et al.* 2018)

Cyrtorchis henriquesiana (Ridl.) Schltr. in Beih. Bot. Centralbl. 36(2): 129 (1918)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bikaba, Monte Alén-Niefang, *Ndong Bokung & Stévant 33* (BRLU). Wele Nzaz: Mongola, Anisok, *Ndong Bokung & Stévant 39* (BRLU); inselberg de Akoak Benguan, *Akuom, Deman & al. 9* (BRLU).

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018)

Cyrtorchis monteiroae (Rchb.f.) Schltr., Orchideen: 596 (1914)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón.

Previously reported from Centro Sur (Sanford 1971: 296) and Río Muni, without any precise locality (Stévant & de Oliveira 2000: 142; Galán *et al.* 2018).

Cyrtorchis ringens (Rchb.f.) Summerh. in Kew Bull. 14: 87 (1958)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Cataratas, Musumu au río Uele, *Ndong Bokung & Stévert 88* (BRLU); Bong, *Ndong Bokung & Stévert 509* (BRLU).

Previously reported from Río Muni, without any precise locality (Stévert & de Oliveira 2000: 143)

Cyrtorchis submontana Stévert, Droissart & Azandi in *Phytotaxa* 267(3): 183 (2016)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Engong (P.N. Monte Alén), *Ndong Bokung & Stévert 273* (BRLU); Monte Alén-mirador slope, *Ndong Bokung & Stévert 5* (BRLU).

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018)

Diaphananthe bidens (Sw. ex Pers.) Schltr., *Orchideen*: 593 (1914)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Kie Ntem: Nfuiñ, *Cabezas & al. 1334* (MA-831970). Litoral: Bata, *Carvalho 5062* (MA-610097, MO, WAG); Bata-Bome, *Carvalho 5170* (MA-599475, MO, WAG); 5393 (MA-598455, MO, WAG); 5414 (MA-599433, MO, WAG); Bata-Bicomo, *Carvalho 5467* (MA-609782, MO, WAG); Bata-Praca da Catedral, *Carvalho 4736* (MA-597901, MO, WAG).

Previously reported from Litoral (Sanford 1971: 296; Guinea 1946: 157, 160), Wele Nzaz (Guinea 1946: 179) and Río Muni, without any precise locality (Hepper 1968a: 261; Guinea 1946: 269; Galán *et al.* 2018)

Diaphananthe ichneumonea (Lindl.) P.J.Cribb & Carlsward in *Phytotaxa* 71: 45 (2012)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Mirador, 3 km W of Ecofac Station, *Ndong Bokung & Stévert 63* (BRLU). Litoral: Monte Mitra, way to Monte Mitra, between camp near Monte Mitra and Churu village, *Stévert 792* (BRLU).

Previously reported from Río Muni, without any precise locality (Droissart *et al.* 2009: 289; Galán *et al.* 2018)

Diaphananthe lecomtei (Finet) P.J.Cribb & Carlsward in Phytotaxa 71: 45 (2012)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bicurga, *Ndong Bokung & Stévert* 102 (BRLU).

Previously reported from Río Muni, without any precise locality (Droissart *et al.* 2009: 292; Galán *et al.* 2018)

Diaphananthe odoratissima (Rchb.f.) P.J.Cribb & Carlsward in Phytotaxa 71: 45 (2012)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Centro Sur: Monte Chocolate, *Ndong Bokung & Stévert* 424 (BRLU). Kie Ntem: Ebebiyín-Mikomeseng, *Sanford WS/5739* (K). Litoral: near village of Mbomo, 8 miles off main road to Río Benito, *Sanford 6073* (K).

Previously reported from Centro Sur (Droissart *et al.* 2009: 294), Kie Ntem (Droissart *et al.* 2009: 294), Litoral (Droissart *et al.* 2009: 294) and Río Muni, without any precise locality (Galán *et al.* 2018)

Diaphananthe pellucida (Lindl.) Schltr., Orchideen: 593 (1914)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: Bata-Monte Alen: Margenes del Río Lobo, *Carvalho 5425* (MA-598446, MO, WAG).

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018)

Diaphananthe sarcorhynchoides J.B.Hall in Kew Bull. 29(2): 428 (1974)

VU Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bome: Praderas, *Carvalho 5412* (MA-599435, MO, WAG); *5516* (MA-599463, MO, WAG).

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018)

Diaphananthe vesicata (Lindl.) P.J.Cribb & Carlsward in Phytotaxa 71: 46 (2012)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Monte Chocolate, *Ndong Bokung & Stévant 421* (BRLU); Road to Mitemele, *Ndong Bokung & Stévant 401* (BRLU). Kie Ntem: Ebebiyin, *Sanford 5737* (P); Inselberg of Akoak Ebanga, 10 km from Nsork, *Parmentier & Esono 3506* (BRLU). Wele Nzaz: Ncoho Yenguem, km. 38 de la carretera de Nkue, *Pérez Viso 3694* (MA-710644).

Previously reported from Centro Sur (Droissart *et al.* 2009: 293), Kie Ntem (Droissart *et al.* 2009: 293), Litoral (Sanford 1971: 296), Wele Nzaz (Droissart *et al.* 2009: 293) and Río Muni, without any precise locality (Galán *et al.* 2018).

Dinklageella liberica Mansf. in Repert. Spec. Nov. Regni Veg. 36: 64 (1934)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Monte Bata–campos near San Joaquim de Ndyiacom, *Sanford 6096* (P); Bata-Pembe: Estrada kms. 18, *Carvalho 4848* (MA-597732, MO, WAG).

Previously reported from Centro Sur (Sanford 1971: 296) and Río Muni, without any precise locality (Galán *et al.* 2018).

Dolabrifolia bancoensis (Burg) Szlach. & Romowicz in Richardiana 7: 54 (2007)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Añisok, *Pérez Viso 1391* (MA-784976). Litoral: Bata–Bome, *Carvalho 5169* (MA-599476, MO, WAG); distr. Kogo, village de Equan-Ngy, *Obama 813* (WAG); Bata-Monson, *Carvalho 4785* (MA-597928, MO, WAG).

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018).

Eulophia bouliawongo (Rchb.f.) J.Reynal in Rev. Soc. Savantes Haute Normandie 1965: 47 (1966)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Niefang, Micomeseng, *Sanford 5742* (K). Litoral: Miboman, a 22 km. de Bata, *S. Castroviejo 9165* (MA-785029); Bata-Senye, *Carvalho 4911* (MA-597884, MO, WAG).

Previously reported from Centro Sur (Sanford 1971: 296), Wele Nzaz (Guinea 1946: 151) and Río Muni, without any precise locality (Guinea 1946: 269; Galán *et al.* 2018).

Eulophia caricifolia (Rchb.f.) Summerh. in Hutch. & Dalz., Fl. W. Trop. Afr., ed. 1, 2: 444 (1936)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Etembue, *Guinea* 902 (MA-784989); 912 (MA-785016); Etembue, *Del Val* s.n. (MA-785017, 785028); Bata- Bome, *Carvalho* 4705 (MA-597837, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 161) and Río Muni, without any precise locality (Galán *et al.* 2018).

Eulophia cristata (Afzel. ex Sw.) Steud., *Nomencl. Bot.*, ed. 2, 1: 605 (1840)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni, without any precise locality (Guinea 1946: 269; Galán *et al.* 2018).

Eulophia euglossa (Rchb.f.) Rchb.f. ex Bateman in *Bot. Mag.* 92, tab. 5561 (1866)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Bong, senda que va hacia el lago Atok., *Pérez Viso* 1304 (MA-703172). Wele Nzaz: Alum, entre Mikomeseng y Nkue, *Pérez Viso* 3050 (MA-784974)

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018).

Eulophia gracilis Lindl. in *Bot. Reg.* 9: t. 742 (1823)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Binguro, *Pérez Viso* 2879 (MA-710577); Bata-Bome: Praderas, *Carvalho* 5430 (MA-598441, MO, WAG).

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018).

Eulophia horsfallii (Batem.) Summerh. in *Hutch. & Dalz., Fl. W. Trop. Afr.* 2: 442, in clavi, 444 (1936)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Centro Sur: Evinayong, *Guinea* 335 (MA-785001); 431 (MA-785002); P.N. Monte Alén, Engong, *Pérez Viso* 677 (MA-687167). Litoral: SE of Bata, *Sanford* 6043 (K). Wele Nzaz: Mofú, cerca de Oven, *Pérez Viso* 2094bis (MA-784973)

Previously reported from Centro Sur (Guinea 1946: 72, 200d, 216d; Sanford 1971: 296), Litoral (Guinea 1946: 24c, 167, 168j; Lejoly & Lisowski 1998: 161) and Río Muni, without any precise locality (Guinea 1946: 266, 269; Galán *et al.* 2018).

Genyorchis apetala (Lindl.) J.J.Verm., *Orchid Monogr.* 2: 161 (1987).

DD Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: About 11 km S of Bata, *De Wilde & al.* 11996 (MA-871517); Desembocadura del río Campo, *Pérez Viso* 2175 (MA-784982); Bata-Bome, *Carvalho* 5030 (MA-598920, 710576, MO, WAG); 5298 (MA-598113, MO, WAG).

Previously reported from Litoral (Sanford 1971: 296) and Río Muni, without any precise locality (Stévant & de Oliveira 2000: 153; Galán *et al.* 2018)

Genyorchis saccata Szlach. & Olszewski, *Fl. Cameroun* 35: 489 (2001)

DD Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Mbomo, *Sanford* 6071 (P)

Genyorchis sanfordii Szlach. & Olszewski, *Fl. Cameroun* 35: 485 (2001)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Wele Nzaz: Akoak Benguan (inselberg), *Ndong Bokung & Nguema* 7 (BRLU)

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018)

Graphorkis lurida (Sw.) Kuntze, *Revis. Gen. Pl.* 2: 662 (1891)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: inselberg de Bikurga, *Stévant* 1485 (BRLU); near Niefang, Ebebiyin side, 87 miles from Ebebiyin, *Sanford* 5753 (K). Kie Ntem: Mfuin, inselberg d'Akom Suma, *Parmentier & Nguema* 322 (BRLU), Wele Nzaz: Kukumancoc, inselberg de Mongum, *Stévant* 1535 (BRLU); Asok, *Del Val s.n.* (MA-709343). Río Muni: *Del Val s.n.* (MA-709342).

Previously reported from Centro Sur (Sanford 1971: 296) and Río Muni, without any precise locality (Stévant & de Oliveira 2000: 154; Galán *et al.* 2018).

Habenaria cirrhata (Lindl.) Rchb.f. in Flora 48: 180 (1865)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region.

Previously reported from Wele Nzas (Guinea 1946: 184k) and Río Muni, without any precise locality (Galán *et al.* 2018).

Habenaria genuflexa Rendle in J. Bot. 33: 279 (1895)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Kie Ntem: Nfuiñ, *Cabezas & al.* 1321 (MA-831957). Litoral: Ayamiken: Río Campo, *Pérez Viso 2817bis* (MA-702114); Bata: Bata-Bome, *Carvalho 4667* (MA-597515, MO). Río Muni: *Esono & Ndong 546* (MA-804259)

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018).

Habenaria physuriformis Kraenzl. in Bot. Jahrb. Syst. 43: 395 (1909)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Mbini, camino entre Bisum y Monte Mitra, entrada al Parque Nacional Monte Alén, *Velayos & al.* 13466 (MA-884427); Bata-Bome, *Carvalho 5102* (MA-599726, MO); Bata-Senge, *Carvalho 6353* (MA-620808).

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018).

Habenaria procera (Sw.) Lindl., Gen. Sp. Orchid. Pl.: 318 (1835)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Engong, *Pérez Viso 678* (MA-687168). Litoral: Corisco, playa al SO de la isla, *Pérez Viso 1980* (MA-784980); Bata, alrededores de Akonikieng, *Carvalho 5017* (MA-712716, MO); Bata-Bome, *Carvalho 4990* (MA-599175, MO, WAG). Wele Nzas: cerro cúpula de Asoc, *Guinea 421* (MA-785035), 424 (MA-785009); Cucumancoc [Kukumankok], *Guinea 345* (MA-785040), 358 (MA-784981), 376 (MA-784985), 377 (MA-785011); Inselberg Dumu, *Obama & Lejoly 507* (MA-612105).

Previously reported from Litoral (Lejoly & Lisowski 1998: 161; Sanford 1971: 296), Wele Nzas ((Lejoly & Lisowski 1999a: 118; Guinea 1946: 179) and Río Muni, without any precise locality (Stévant & de Oliveira 2000: 158; Galán *et al.* 2018)

Habenaria schimperiana Hochst. ex A.Rich., Tent. Fl. Abyss. 2: 295 (1850)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 161) and Wele Nzaz ((Lejoly & Lisowski 1999a: 118)

Hetaeria heterosepala (Rchb.f.) Summerh. in Bull. Misc. Inform. Kew 1934: 207 (1934)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Mbini, camino entre Bisum y Monte Mitra, entrada al Parque Nacional Monte Alén, *Velayos & al. 13458* (MA-884410).

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018).

Hetaeria tetraptera (Rchb.f.) Summerh. in Kew Bull. 1934: 207 (1934)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Wele Nzaz (Guinea 1946: 151) and Río Muni, without any precise locality (Galán *et al.* 2018).

Liparis epiphytica Schltr. in Bot. Jahrb. Syst. 38(1): 6 (1905)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: P.N. Monte Alén, Enkumekien, *Pérez Viso 1518* (MA-710573)

Liparis nervosa (Thunb.) Lindl., Gen. Sp. Orchid. Pl.: 26, n° 2 (1830)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: P.N. Monte Alén, Moka, subida al monte Alén, por el camino que va a Bong, *Pérez Viso 825* (MA-702115). Litoral: Bata-Bome, *Carvalho 4954* (MA-597719, MO, WAG).

Previously reported from Litoral (Szlachetko 2008: 124; Galán *et al.* 2018)

Liparis platyglossa Schltr. in Bot. Jahrb. Syst. 38(2): 152 (1906)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 157) and Río Muni, without any precise locality (Galán *et al.* 2018).

Liparis tridens Kraenzl. in Bot. Jahrb. Syst. 28(2): 162 (1900)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 157) and Río Muni, without any precise locality (Galán *et al.* 2018).

Listrostachys pertusa (Lindl.) Rchb.f. in Bot. Zeitung (Berlin) 10: 930 (1852)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province)

Litoral: Río Campo, Pérez Viso 2169 (MA-784983).

Previously reported from Wele Nzaz (Sanford 1971: 296) and Río Muni, without any precise locality (Galán *et al.* 2018).

Manniella gustavi Rchb.f. in Oti Bot. Hamburg. 2: 109 (1881)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Wele Nzaz (Guinea 1946: 151) and Río Muni, without any precise locality (Stévant & de Oliveira 2000: 169; Galán *et al.* 2018).

Microcoelia caespitosa (Rolfe) Summerh., in Hutch. & Dalz., Fl. W. Trop. Afr. 2: 454 (1936)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata and Río Benito, 13 km NE of Mecomo close to Mbomo village, Sanford 6077 (K).

Previously reported from Litoral (Sanford 1971: 296) and Río Muni, without any precise locality (Galán *et al.* 2018).

Microcoelia macrorrhynchia (Schltr.) Summerh. in Hutch. & Dalz., Fl. W. Trop. Afr. 2: 454 (1936)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province);

Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: 87 miles from Ebebiyin near Niefang on the Bata road, *Sanford* 5764 (P).
Litoral: Bata, near San Joaquim, *Sanford* 6097 (K); Mbomo village, *Sanford* 6064 (K).

Previously reported from Centro Sur (Sanford 1971: 296) and Río Muni, without any precise locality (Galán *et al.* 2018)

Nervilia bicarinata (Blume) Schltr. in Bot. Jahrb. Syst. 45: 405 (1911)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón.

Previously reported from Río Muni, without any precise locality (Stévant & de Oliveira 2000: 172)

Orestias micrantha Summerh. in Bull. Misc. Inform. Kew 1937: 460 (1937)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: P.N. Monte Alén, *Senterre & al.* 756 (BRLU)

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018).

Orthochilus milnei (Rchb.f.) Bytebier in Taxon 63(1): 19 (2014)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province). Also known from Bioko.

Litoral: Bata-Bome, *Carvalho* 4866 (MA-597379, MO, WAG)

Previously reported from Río Muni, without any precise locality (Hepper 1968: 247; Sanford 1971: 296; Hutchinson 1936: 446; Guinea 1946: 266; Galán *et al.* 2018).

Phaius mannii Rchb.f. in Oti Bot. Hamburg. 2: 118 (1881)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Bong, monte Alén, senda hacia Engong., *Pérez Viso* 327 (MA-706487).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 161)

Platylepis glandulosa (Lindl.) Rchb.f. in Linnaea 41: 62 (1876)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Annobón and Bioko.

Centro Sur: Niefang-Bata, near Niefang, *Sanford* 5752 (P). Litoral: Sendje-Evinayong, dentro del PN Monte Alén, *Cabezas & al.* 2097 (MA-884326)

Previously reported from Río Muni, without any precise locality (Stévant & de Oliveira 2000: 178; Galán *et al.* 2018).

Plectrelminthus caudatus (Lindl.) Summerh. in Kew Bull. 4: 441 (1949) var. **caudatus**

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Evinayong, *Carvalho* 5158 (MA-599635, MO, WAG); Bata-Pembe, *Carvalho* 4961 (MA-599211, MO, WAG)

Podangis rhipsalisocia (Rchb.f.) P.J.Cribb & Carlsward in Phytotaxa 71: 46 (2012)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Moca, P.N. Monte Alén, *Ndong Bokung & Stévant* 240 (BRLU). Kie Ntem: Moca, P.N. Monte Alén, *Sanford* ws/5735 (BRLU, P)

Previously reported from Kie Ntem (Sanford 1971: 296) and Río Muni, without any precise locality (Galán *et al.* 2018)

Polystachya adansoniae Rchb.f. in Flora 48: 185 (1865)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: P.N. Monte Alén, Misergue, *Pérez Viso* 1169 (MA-710584)

Previously reported from Wele Nzas (Sanford 1971: 296)

Polystachya affinis Lindl., Gen. Sp. Orchid. Pl.: 73 (1830)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón.

Centro Sur: Alén, Nkolentangan, *Tessmann* 99 (K). Litoral: Bata-Bicomo, *Carvalho* 6377 (MA-620565, WAG); Bata-Sendje (Senye), *Carvalho* 5320 (MA-598171, MO, WAG)

Previously reported from Río Muni, without any precise locality (Geerinck 1980: 100; Galán *et al.* 2018).

Polystachya albescens Ridl. in Bol. Soc. Brot. 5: 199 (1887) subsp. ***albescens***

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Previously reported from Wele Nzas (Lejoly & Lisowski 1999a: 118; Sanford 1971: 296) and Río Muni, without any precise locality (Galán *et al.* 2018).

Polystachya albescens subsp. ***angustifolia*** (Summerh.) Summerh. in Kew Bull. 12: 75 (1958)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Wele Nzas: Inselberg Dumu, *Obama & Lejoly* 509 (MA-612104)

Previously recorded from Río Muni, without any precise locality (Galán *et al.* 2018).

Polystachya albescens subsp. ***imbricata*** (Rolfe) Summerh. in Kew Bull. 13: 74 (1958)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province). Also known from Annobón.

Centro Sur: Engong, P.N. Monte Alén, *Ndong Bokung & Stévant* 169 (BRLU); inselberg de Bikurga, *Deman* 263 (BRLU). Kie Ntem: Akuom, inselberg de Akoak Benguan, *Deman & al.* 29 (BRLU).

Polystachya albescens subsp. ***polyphylla*** (Summerh.) Stévant in Adansonia 26: 229-231 (2004)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Inselberg de Bikurga, *Ndong Bokung & Stévant* 260 (BRLU). Kie Ntem: Nfuiñ, *Cabezas & al.* 1345 (MA-831830). Wele Nzas: Monumento natural de Piedra Nzas, Andom, *Lejoly* 99-229 (BRLU)

Previously recorded from Río Muni, without any precise locality (Galán *et al.* 2018).

Polystachya bennettiana Rchb.f., in Otia Bot. Hamburg. 2: 113 (1881)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1999a: 118)

Polystachya bifida Lindl. in J. Proc. Linn. Soc., Bot. 6: 129 (1862)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Engong, P.N. Monte Alén, *Ndong Bokung & Stévant* 208 (BRLU). Wele Nzas: Kukumancoc, inselberg de Mungum, *Stévant & al* 1547 (BRLU)

Polystachya bipoda Stévant in Adansonia 26: 218 (2004)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Engong (P.N. Monte Alén), 5 km au NO de Engong, *Ndong Bokung & Stévant* 168 (BRLU).

Previously recorded from Río Muni, without any precise locality (Galán *et al.* 2018).

Polystachya caloglossa Rchb.f. in Otia Bot. Hamburg. 2: 111 (1881)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: inselberg de Bikurga, *Stévant* 1530 (BRLU); Engong, P.N. Monte Alén, *Lejoly* 144 (BRLU). Kie Ntem: Nzuameyong, inselberg de Akuom, *Ndong Bokung & Deman* 494 (BRLU). Litoral: Monte Mitra, *Stévant* 789 (BRLU)

Polystachya concreta (Jacq.) Garay & H.R.Sweet in Orquideologia 9: 206 (1974)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: P.N. Monte Alén, Monte Chocolate, *Pérez Viso* 4033 (MA-785026); P.N. Monte Alén, Asok, *Pérez Viso* 429 (MA-785023); P.N. Monte Alén, Enkumekien, *Pérez Viso* 1515 (MA-710589). Kie Ntem: Ebebiyin-Mikomeseng, 33 miles Ebebiyin, *Sanford* 5732 (K). Wele Nzas: near village Mbomo, 8 miles off main road to Río Benito, *Sanford* 6076 (K).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 161), Kie Ntem (Sanford 1971: 296), Litoral (Guinea 1946: 160), Wele Nzas (Lejoly & Lisowski 1999a: 118) and Río Muni, without any precise locality (Stévant & de Oliveira 2000: 195; Galán *et al.* 2018)

Polystachya coriscensis Rchb.f. in Otia Bot. Hamburg. 2: 112 (1881)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously recorded from Río Muni, without any precise locality (Sanford 1971: 296; Galán *et al.* 2018).

Polystachya dolichophylla Schltr. in Bot. Jahrb. Syst. 38(1): 8 (1906)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Bikaba (Monte Alén-Niefang), *Ndong Bokung & Stévant* 243 (BRLU); P.N. Monte Alén, Monte Chocolate, *Ndong Bokung & Stévant* 536 (BRLU)

Polystachya elegans Rchb.f., in Otia Bot. Hamburg. 2: 113 (1881)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Mitemele, chantier Schimmer, *Ndong Bokung & al.* 366 (BRLU); P.N. Monte Alén, Monte Chocolate, *Ndong Bokung & Stévant* 501 (BRLU)

Polystachya engongensis Stévant & Droissart in Adansonia, sér. 3, 29: 34 (2007)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Monte Alén, *Parmentier & Esono* 2699 (BRLU)

Previously recorded from Río Muni, without any precise locality (Galán *et al.* 2018).

Polystachya galeata (Sw.) Rchb.f. in Ann. Bot. Syst. (Walpers) 6(4): 637 (1863)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Mirador, station Ecofac, *Ndong Bokung & Stévant* 391 (BRLU). Kie Ntem: Añisoc (Nzuameyong), *Nguema* 348 (BRLU); Akuom, inselberg de Akoak Benguan, *Demam* 298 (BRLU). Wele Nzaz: Acoaseng, inselberg de Piedra Nzaz, *Ndong Bokung & Stévant* 502 (BRLU)

Previously recorded from Río Muni, without any precise locality (Galán *et al.* 2018).

Polystachya kubalae Szlach. & Olszewski, Fl. Cameroun 35: 509 (2001)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye (Senge)-Mitom-Emangës, estrada kms.70-71 en dirección a Cogo,

Carvalho 6484 (MA-620753).

Previously recorded from Río Muni, without any precise locality (Galán *et al.* 2018).

Polystachya laxiflora Lindl. in J. Proc. Linn. Soc., Bot. 6: 129 (1862)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Near Mbomo, 8 miles off the Bata-río Benito road to Mecomo, *Sanford 6067* (P).

Previously reported from Centro Sur (Sanford 1971: 296), Litoral (Guinea 1946: 157, 160) and Río Muni, without any precise locality (Galán *et al.* 2018).

Polystachya letouzeyana Szlach. & Olszewski, Fl. Cameroun 35: 520 (2001)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Mirador, *Stévant & al 1587* (BRLU); Engong, P.N. Monte Alén, *Stévant & al 1424* (BRLU). Litoral: Monte Mitra, *Ndong Bokung & Stévant 276* (BRLU)

Previously recorded from Río Muni, without any precise locality (Galán *et al.* 2018).

Polystachya moniquetiana Stévant & Geerinck in Syst. Geogr. Pl. 73: 281 (2003)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Mitemele (chantier Schimmer), *Ndong Bokung & Stévant 389* (BRLU); Between Engong and Lago, *Ndong Bokung & Stévant 425* (BRLU)

Previously recorded from Río Muni, without any precise locality (Galán *et al.* 2018).

Polystachya odorata subsp. **gabonensis** (Summerh.) Stévant in Adansonia sér. III, 26: 225 (2004)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Inselberg de Bicurga, *Parmentier 1750* (BRLU). Kie Ntem: Nfuiñ, a 29 km de Nsoc Nsomo por la pista que va hacia Bata, *Cabezas & al. 1318* (MA-831759). Wele Nzas: Inselberg de Piedra Nzas, *Lejoly 99-199* (BRLU); Asoc, *Guinea 344* (MA-784986), *348* (MA-784993), *350* (MA-784978), *418* (MA-784998), *419* (MA-784995), *427* (MA-785008).

Previously recorded from Río Muni, without any precise locality (Galán *et al.* 2018).

Polystachya odorata Lindl. in J. Proc. Linn. Soc., Bot. 6: 130 (1862) subsp. **odorata**

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province). Also

known from Bioko.

Centro Sur: Inselberg de Bikurga, près du village de Bikurga, *Ndong Bokung & Stévert* 227 (BRLU). Kie Ntem: Inselberg de Mfuin 3 (Ovaczom), à 15 km de Nsok Nsomo, *Nguema & Parmentier* 387 (BRLU). Litoral: Near village Mbomo, 8 miles off main road to Río Benito, *Sanford* 6066 (K); Bata-Praderas de Bome, *Carvalho* 5808 (MA-610043). Wele Nzaz: Ayene, *Stévert & al* 1460 (BRLU); Mongola (près d'Anisok), *Ndong Bokung & Stévert* 139 (BRLU).

Previously reported from Litoral (Sanford 1971: 296) and Río Muni, without any precise locality (Galán *et al.* 2018).

Polystachya paniculata (Sw.) Rolfe in Oliv. (ed.), *Fl. Trop. Afr.* 7: 113 (1897) [1898]
NE Native
Tropical Africa. Sudano-Zambezian Region (Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Bikurga, inselberg de Bikurga, *Stévert* 765 (BRLU)

Polystachya polychaete Kraenzl. in *Bot. Jahrb. Syst.* 17(1-2): 50 (1893)
NE Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Litoral: Nco, 5 km vers ENE, *Nguema & Lejoly* 172 (MA-611890)

Previously reported from Wele Nzaz (Sanford 1971: 296; Geerinck 1980: 108) and Río Muni, without any precise locality (Stévert & de Oliveira 2000: 191; Galán *et al.* 2018)

Polystachya puberula Lindl. in *Bot. Reg.* 10: sub t. 851 (1824)
NE Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Previously reported from Litoral (Guinea 1946: 157) and Río Muni, without any precise locality (Galán *et al.* 2018).

Polystachya pyramidalis Lindl. in *J. Proc. Linn. Soc. Bot.* 6: 130 (1862)
NE Native
Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Akoak Ebanga (inselberg), *Parmentier & Esono* 3507 (BRLU). Wele Nzaz: Nsork (Ngong Mokomo), *Ndong Bokung & Stévert* 526 (BRLU)

Previously recorded from Río Muni, without any precise locality (Galán *et al.* 2018).

Polystachya ramulosa Lindl. in *Edwards's Bot. Reg.* 24(Misc.): 76 (1838)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, lago Atok, *Pérez Viso 1008* (MA-785022). Litoral: along river Metom, off the road NW 52 km from Bata on the Río Benito road, tributary of the river Benito, *Sanford 5901* (P); Bata-Sendje (Senye): Estrada km. 40, ponte sobre Río Benito, *Carvalho 5025* (MA-599226, MO, WAG); 5293 (MA-598110, MO, WAG).

Previously reported from Wele Nzas (Sanford 1971: 296; Geerinck 1980: 109) and Río Muni, without any precise locality (Galán *et al.* 2018).

Polystachya rhodoptera Rchb.f. in Hamb. Gartenz. 14: 214 (1858)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: *Obama 320* (WAG); river Metom, 52 km from Bata on the Río Benito road, *Sanford 5847* (K).

Previously reported from Wele Nzas (Sanford 1971: 296; Geerinck 1980: 111) and Río Muni, without any precise locality (Stévant & de Oliveira 2000: 192; Galán *et al.* 2018)

Polystachya riomuniensis Stevart & Nguema in Adansonia 26(2): 219 (2004)

NE Endemic

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Engong, P.N. Monte Alén, inselberg d'Engong, *Stévant, Ndong & Ndong Mayé 1425* (BRLU); *Stévant 576* (BRLU).

Previously recorded from Río Muni, without any precise locality (Galán *et al.* 2018).

Polystachya stodolnyi Szlach. & Olszewski, Fl. Cameroun 35: 508 (2001)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Bikurga, inselberg de Bikurga, *Stévant 760* (BRLU)

Previously recorded from Río Muni, without any precise locality (Galán *et al.* 2018).

Polystachya stuhlmannii Kraenzl., Pflanzenw. Ost-Afrikas C: 155 (1895)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Río Metem, Bata–río Benito, *Sanford 5902* (P)

Previously recorded from Río Muni, without any precise locality (Galán *et al.* 2018).

Polystachya testuana Summerh. in Kew Bull. 14: 136 (1960)

NT Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province). Also known from Bioko.

Centro Sur: Mitemele (Schimmer site), *Ndong Bokung & Stévert 300* (BRLU)

Previously recorded from Río Muni, without any precise locality (Galán *et al.* 2018).

Polystachya victoriae Kraenzl. in Bot. Jahrb. Syst. 28: 165 (1901)

CR Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye (Senge), estrada km 27, bosque primario de EBOGA., *Carvalho 6200* (MA-619371)

Previously recorded from Río Muni, without any precise locality (Galán *et al.* 2018).

Rangaeris muscicola (Rchb.f.) Summerh. in Hutch. & Dalz., Fl. W. Trop. Afr. 2: 450 (1936)

Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province).

Litoral: Bata-Niefang, estrada km. 35, en dirección de Adjape a zona de Comaya, *Carvalho 5677* (MA-598975).

Previously recorded from Río Muni, without any precise locality (Galán *et al.* 2018).

Rangaeris trilobata Summerh. in Bull. Misc. Inform. Kew 1936: 229 (1936)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, *Parmentier & Esono 2794* (BRLU); Mirador (inselberg), *Stévert 589* (BRLU). Kie Ntem: Akoak Ebanga (inselberg), *Parmentier & Esono 3521* (BRLU). Wele Nzaz: Mungum (inselberg), *Stévert & al 1537* (BRLU).

Previously recorded from Río Muni, without any precise locality (Galán *et al.* 2018).

Rhipidoglossum curvatum (Rolfe) Garay in Bot. Mus. Leaflet. Harvard Univ. 23: 195 (1972)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Guinea 1946: 157) and Río Muni, without any precise

locality (Galán *et al.* 2018).

Rhipidoglossum densiflorum Summerh. in Bot. Mus. Leaf. 12: 91 (1945)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Enkumekien, *Pérez Viso 1513* (MA-784997)

Previously recorded from Río Muni, without any precise locality (Galán *et al.* 2018).

Rhipidoglossum montealenense Descourvières, Stévant & P.J.Cribb in Pl. Ecol. Evol. 146(3): 390 (2013)

NE Endemic

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: P.N. Monte Alén, Mirador, 3 km West of the station Ecofac, *Ndong Bokung & Stévant 77* (BRLU); P.N. Monte Alén, *Ndong Bokung & Stévant 35* (BRLU)

Previously recorded from Río Muni, without any precise locality (Galán *et al.* 2018).

Rhipidoglossum rutilum (Rchb.f.) Schltr. in Beih. Bot. Centralbl. 36(2): 81 (1918)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Centro Sur: Near Niefang on the Bata road, *Sanford 5759* (P). Litoral: 11 km S of Bata, *De Wilde & al. 11995* (K); Bata-Bome, praderas de Bome, *Carvalho 5048* (MA-599244, MO, WAG), *5495* (MA-599382, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 162; Sanford 1971: 296) and Río Muni, without any precise locality (Stévant & de Oliveira 2000: 149; Galán *et al.* 2018).

Solenangis clavata (Rolfe) Schltr. in Beih. Bot. Centralbl. 36(2): 134 (1918)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Mbomo village, near Mecomo, 8 miles off the Bata-río Benito road, *Sanford 6069* (P).

Previously reported from Litoral (Sanford 1971: 296) and Río Muni, without any precise locality (Stévant & de Oliveira 2000: 198; Galán *et al.* 2018)

Solenangis conica (Schltr.) L.Jonss. in Bot. Not. 132: 382 (1979)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian

Region (Nigerian-Cameroonian Province).

Río Muni: *Finney s.n.* (K)

Previously recorded from Río Muni, without any precise locality (Galán *et al.* 2018).

Solenangis scandens (Schltr.) Schltr. in Beih. Bot. Centralbl. 36(2): 134 (1918)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Kie Ntem: Nfuiñ, a 29 km de Nsoc Nsomo por la pista que va hacia Bata, *Cabezas & al.* 1315 (MA-831762). Litoral: Bata-Bome, *Carvalho* 4876 (MA-597448, MO, WAG), 4958 (MA-597723, MO, WAG). Wele Nzas: Asoc, Eyan, *Del Val s.n.* (MA); Cucumancoc [Kukumankok], cerro cúpula, *Guinea* 9 (MA-785043); 150-369 (MA-785042), 368 (MA-785013), 369 (MA-785015); inselberg de Mfui, 50 km à l'E de Añisok, *Obama & Lejoly* 391 (MA-612039).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 162; 1999: 118) and Río Muni, without any precise locality (Galán *et al.* 2018).

Stolzia elaidum (Lindl.) Summerh. in Kew Bull. 17: 557 (1964)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Litoral: river Metom, 52 km from Bata on the río Benito road, *Sanford* 5900 (K, P).

Previously reported from Wele Nzas (Sanford 1971: 296) and Río Muni, without any precise locality (Stévant & de Oliveira 2000: 200; Galán *et al.* 2018)

Stolzia grandiflora subsp. **lejolyana** Stevart, Droissart & Simo in *Adansonia* 31(1): 27 (2009)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Inselberg à 5 km au NO du village d'Engong (P.N. Monte Alén), *Ndong Bokung, Stévant & Ndong Maye* 1443 (BRLU), 1423 (BRLU); *Stévant* 1071 (BRLU); *Ndong Bokung & Stévant* 116 (BRLU).

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018).

Stolzia peperomioides (Kraenzl.) Summerh. in Kew Bull. 1953: 142 (1953) subsp. **peperomioides**

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Inselberg à 5 km au NO du village d'Engong (P.N. Monte Alén), *Ndong*

Bokung & Stévant 388 (BRLU).

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018).

Stolzia repens (Rolfe) Summerh. in Kew Bull. 8: 141 (1953)

DD Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni, without any precise locality (Galán *et al.* 2018)

Tridactyle anthomoniaca (Rchb.f.) Summerh. in Kew Bull. 1948: 284 (1948) subsp. **anthomaniaca**

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Centro Sur: Niefang-Bata, close to Niefang, *Sanford 5746* (P). Litoral: Bata-Bome, río Boara, *Carvalho 4845* (MA-597731, MO, WAG).

Previously reported from Litoral (Sanford 1971: 296) and Río Muni, without any precise locality (Galán *et al.* 2018).

Tridactyle anthomoniaca subsp. **nana** P.J.Cribb & Stévant in Kew Bull. 59: 205, fig. 5 (2004)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Engong, National Parc of Monte Alén, 5 km NW from Engong village, *Ndong Bokung & Stévant 1* (BRLU); N part of National Parc of Monte Alén, 2 km NW from the Monte Chocolate Ecofac transect, *Senterre & al. 3796* (K).

Previously recorded from Río Muni, without any precise locality (Galán *et al.* 2018).

Tridactyle lagosensis (Rolfe) Schltr. in Beih. Bot. Centralbl. 36(2): 145 (1918)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Wele Nzaz: Eviam, Aconibe-Acurenam, *Pérez Viso 1820* (MA-710643).

Previously recorded from Río Muni, without any precise locality (Galán *et al.* 2018).

Tridactyle minutifolia Stévant & D'haijère in Phytotaxa 212(2): 143 (2015)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Monte Mitra, *Stévant 823* (BRLU)

Previously recorded from Río Muni, without any precise locality (Galán *et al.* 2018).

Tridactyle tridactylites (Rolfe) Schltr. in Beih. Bot. Centralbl. 36(2): 148 (1918)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni, without any precise locality (Stévant & de Oliveira 2000: 205; Galán *et al.* 2018).

Vanilla africana Lindl. in J. Proc. Linn. Soc., Bot. 6: 137 (1862)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: SE of Bata, ca. 50 km Oborobikó (Chimpanzee reserve area), *Sanford* 6032 (K).

Previously reported from Río Muni, without any precise locality (Hepper 1968a: 205; Sanford 1971: 297; Galán *et al.* 2018).

Vanilla chilotii Finet in Bull. Soc. Bot. France 56: 102, pl. II (1909)

NE Endemic

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: inselberg Bikurga, *Stévant* 759 (BRLU); N du P.N. Monte Alén, à proximité du transect Ecofac de Monte Chocolate, *Senterre & Ngomo* 3415 (BRLU). Litoral: Bata-Senye (Senge): Estrada km. 27. Bosque primario en la zona forestal de Eboga., *Carvalho* 6262 (MA-620266).

Previously recorded from Río Muni, without any precise locality (Galán *et al.* 2018).

Vanilla crenulata Rolfe in J. Linn. Soc., Bot., 32: 477 (1896)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Río Muni, without any precise locality (Geernick 1984: 240; Galán *et al.* 2018).

Vanilla imperialis Kraenzl. in Notizbl. Königl. Bot. Gart. Berlin 1: 155 (1896)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni, without any precise locality (Sanford 1971: 297; Guinea 1946: 155, 265; Galán *et al.* 2018).

Vanilla ramosa Rolfe in J. Linn. Soc., Bot. 32: 457 (1896)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Guinea 1946: 88h) and Río Muni, without any precise locality (Hepper 1968a: 205, 206; Sanford 1971: 297; Hutchinson 1936: 419; Guinea 1946: 265; Galán *et al.* 2018).

Zeuxine gilgiana Kraenzl. & Schlecht. in Bot. Jahrb. Syst. 38(2): 150 (1906)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, p. Monte Alén (ECOFAC), *Senterre & al. s.n.* (BRLU).
Litoral: Monte Bata, 1km au N de la route Bata-Niefang au niveau de Santa Marta, *Senterre & Obiang s.n.* (BRLU).

Zeuxine stammleri Schltr. in Bot. Jahrb. Syst. 38: 151 (1906)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni, without any precise locality (Stévant & de Oliveira 2000: 210). Also known from Bioko

POACEAE [GRAMINEAE IN FL. GUINEA]

Acroceras gabunense (Hack.) Clayton in Kew Bull. 34: 557 (1980)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Kie Ntem: Akam, *Fero & Esono* 92 (MA-808307). Wele Nzas: Acasakira, 3 Km au Sud de Nsork, *Obama & Lejoly* 540 (MA-612119).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 162) and Litoral (Lejoly & Lisowski 1998: 162).

Acroceras zizanioides (Kunth) Dandy in J. Bot. 69: 54 (1931)

LC Native

PNative to the Pantropics. Sudano-Zambezian Region (Sudanian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Miyobo, *Pérez Viso* 2528 (MA-821001); Enkumekie, *Pérez Viso* 3569 (MA-766037); P.N. Monte Alén, Moka, *Pérez Viso* 4109 (MA-713663); Achimelan, km. 23 de la carretera de Kogo, *Pérez Viso* 3328 (MA-687722). Kie Ntem: Nfuiñ, *Cabezas & al.* 1356 (MA-831784); Eloan, carretera Ebebiyi-Mongomo, *Pérez Viso* 4280 (MA-713661). Litoral: río Campo a Bata, Nejiacom, *Barberá & al.* 325 (MA-

844501); carretera de Mbini, *Pérez Viso* 3337 (MA-687725); Bata-Niefang, *Carvalho* 5986 (MA-609793); Utonde, Adjap, *Guinea* 111-846 (MA-389307). Wele Nzas: Añisok-Mongola, *Pérez Viso* 3753 (MA-766039); Nvua-Nnvam Oveng, Añisok, *Pérez Viso* 2994 (MA-703194); Dalle rocheuse à 3 km au S de Asoc, *Lejoly* 99/292 (MA-621846).

Previously reported from Litoral (*Lejoly & Lisowski* 1998: 163) and Río Muni, without any precise locality (*Guinea* 1946: 230).

Anadelphia afzeliana (Rendle) Stapf in Oliv. (ed.), Fl. Trop. Afr. 9: 397 (1919)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Litoral: Utonde, *Guinea* 37 (MA-766038); 734 (MA-766036); 745 (MA-766028); Bata-Utonde, *Carvalho* 4734 (MA-597903, MO, WAG); Bata-Bome, *Carvalho* 4765 (MA-597678, MO, WAG).

Previously reported from Litoral (*Lejoly & Lisowski* 1998: 163)

Anadelphia trispiculata Stapf in Oliv. (ed.), Fl. Trop. Afr. 9: 398 (1919)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (*Lejoly & Lisowski* 1998: 163)

Andropogon africanus Franch. in Bull. Soc. Hist. Nat. Autun 8: 325 (1895)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Kie Ntem: Nsok Nsomo, *Cabezas & al.* 1288 (MA-831843). Litoral: Corisco, *Pérez Viso* 2001 (MA-715532); Etembue, *Guinea* 913 (MA-711023)

Andropogon auriculatus Stapf in Oliv. (ed.), Fl. Trop. Afr. 9: 258 (1919)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Kie Ntem: Akam II, carretera hacia Nsok Nsomo, *Fero & Esono* 129 (MA-808719). Litoral: río Campo, carretera de la playa al pueblo, *Barberá & al.* 302 (MA-844523); Bome, *Pérez Viso* 1732 (MA-703195); a 27 km. de Kogo por la carretera de Kogo, *Pérez Viso* 4013 (MA-703190).

Andropogon gabonensis Stapf in J. Bot. (Morot) ser. 2, 2: 207 (1909)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Misergue-Churu, *Pérez Viso* 1637 (MA-715529). Litoral: Utonde, desembocadura del río, *Barberá & al.* 242 (MA-843796); Río Benito, *Guinea* 543 (MA-766030); Utonde, *Guinea* 816 (MA-766029); Corisco, *Pérez Viso* 1991 (MA-715521).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 163) and Litoral (Lejoly & Lisowski 1998: 163).

Andropogon pinguipes Stapf in Bull. Misc. Inform. Kew 1908: 411 (1908)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Litoral: Odoa, *Pérez Viso* 3534 (MA-766034)

Antheophora cristata (Döll) De Wild. & T.Durand in Ann. Mus. Congo, Ser. 1 (Bot., ser. 3): 255 (1901)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón.

Litoral: carretera de Mbini-Bata, puente Sendje sobre el río Wele o Woro, *Fero & al.* 301 (MA-844585); río Benito (Wele), camino de Kogasim, *Del Val s.n.* (MA-808702); Bata-arredores do porto marítimo, *Carvalho* 4584 (MA-845065); Bata, Asonga, *Pérez Viso* 1417 (MA-766273); Etembue, *Guinea* 115-895 (MA-389262), 892 (MA-389269), 893 (MA-389270).

Previously reported from Litoral (Lejoly & Lisowski 1998: 163; 1999a: 101; Guinea 1946: 176b).

Axonopus compressus (Sw.) P.Beauv., Ess. Agrostogr.: 12 (1812)

LC Naturalized

Native to Tropical & Subtropical America, naturalized in the rest of the Tropics and Subtropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Kie Ntem: Akam, *Fero & Esono* 75 (MA-808291); Eloan, carretera Ebebiyin-Mongomo, *Pérez Viso* 4246 (MA-820987). Wele Nzaz: Nvua-Nnvam Oveng, Añisok, *Pérez Viso* 3009 (MA-766272).

Previously reported from Litoral (Lejoly & Lisowski 1998: 163).

Axonopus flexuosus (Peter) C.E. Hubb. ex Troupin, Explor. Parc Natl. Garamba 4: 18 (1956)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 163)

Bambusa vulgaris Schrad. ex J.C. Wendl., Coll. Pl. 2: 26, pl. 47 (1808)

NE Naturalized

Native from China to Indochina, cultivated and naturalized in all the Tropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Litoral: cultivada en el cementerio protestante de Bata, *Guinea* 120 (MA-835058).

Brachiaria mutica (Forssk.) Stapf in Oliv. (ed.), Fl. Trop. Afr. 9: 526 (1919)

LC Native

Native to Africa, broadly naturalized in the world. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province). Also known from Bioko.

Litoral: Bata-Encolombo, *Carvalho* 4921 (MA-597460, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 164).

Cenchrus biflorus Roxb., Fl. Ind. 1: 238 (1820)

NE Native

Native from Africa to India. Africa.

Litoral: Mbini, nuevo puente Mbini-Bolondo, sobre el río Wele, *Fero & al.* 289 (MA-844592); Bata, Asonga, *Pérez Viso* 1410 (MA-820980); Río Benito, *Guinea* 557 (MA-766285); 588 (MA-766282); 957 (MA-766281); 959 (MA-766283); Río Benito, orilla de la carretera, *Guinea* 537 (MA-766286).

Cenchrus echinatus L., Sp. Pl.: 1050 (1753)

LC Naturalized

Native from Central & S. U.S.A. to Tropical & Subtropical America, naturalized in the rest of the Tropics & Subtropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: costa Benito, *Guinea* 960 (MA-714485); Bata, alrededores del puerto marítimo, *Carvalho* 4586 (MA-558550, WAG).

Previously reported from Litoral (Cebolla-Lozano & Rivas-Ponce 1995: 19; Guinea 1946: 232).

Cenchrus purpureus (Schumach.) Morrone in Ann. Bot. (Oxford), n.s. 106: 129 (2010)

LC Native

Native from Sahara to Tropical Africa, naturalized elsewhere. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Bioko.

Litoral: Bata-Bome, *Fero & Barberá* 320 (MA-844563). Río Muni: *Guinea* 95 (MA-766732).

Previously reported from Centro Sur (Guinea 1946: 288d), Kie Ntem (Guinea 1946: 184j) and Litoral (Lejoly & Lisowski 1998: 169; Guinea 1946: 88c, 159, 170, 288f).

Centotheca lappacea (L.) Desv. in Nouv. Bull. Sci. Soc. Philom. Paris 2: 189 (1810)

NE Native

Native to the Paleotropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: km 40 carretera forestal Bata-Niefang, *Pérez Viso* 2726 (MA-820989); P.N. Monte Alén, Engong, camino hacia el lago Atok., *Pérez Viso* 775 (MA-766266); Mafanebú, *Guinea* 112-209 (MA-711014), 113-208 (MA-711015), 218 (MA-711143); Evinayong, *Guinea* 316 (MA-835316); P.N. Monte Alén, Monte Chocolate, *Pérez Viso* 4030 (MA-703187); Bicaba, carretera de Niefang a Monte Alén, *Pérez Viso* 3473bis (MA-766265); carretera forestal Bata-Niefang, Nhogo Ebaiñ, *Pérez Viso* 2675bis (MA-820996), 2727 (MA-808860); Nfing Ntagan, poblado en la carretera forestal de Niefang a Bata, a continuación de Mosumu, *Pérez Viso* 2742 (MA-808857); P.N. Monte Alén, Enkumekien, *Pérez Viso* 1507 (MA-702677); Bicaba, carretera de Niefang a Monte Alén, *Pérez Viso* 3473 (MA-687693); P.N. Monte Alén, lago Atok, *Pérez Viso* 306 (MA-834753). Kie Ntem: Akam, *Fero & Esono* 37 (MA-808162); 74 (MA-808295). Litoral: Río Campo, carretera de San Joaquín de Adjiaikom hacia Ayamiken, a 14km de San Joaquin de Adjiaikom, *Pérez Viso* 2494 (MA-766270); Sendje, *Pérez Viso* 1621 (MA-715527); Bata-Machinda-Ncomococ, *Carvalho* 5068 (MA-599182, MO, WAG); Miwala, a 5 km de Kogo, *Pérez Viso* 3938 (MA-766269); Evinayong, km. 5 de la carretera de Kogo, *Pérez Viso* 3864 (MA-766271); cortina litoral de Río Benito, *Guinea* 1003 (MA-835315); 1007 (MA-835314); Binguro, km. 54 de la carretera de Bata a Kogo, *Pérez Viso* 2866 (MA-766268). Wele Nzaz: Mbiet, Añisok, *Pérez Viso* 3589 (MA-766267).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 164; Guinea 1946: 236), Litoral (Lejoly & Lisowski 1998: 164; Guinea 1946: 157) and Wele Nzaz: Lejoly & Lisowski 1998: 164; Guinea 1946: 236).

Chloris pilosa Schumach. in Schumach. & Thonn., Beskr. Guin. Pl.: 55 (1827)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Río Benito, *Guinea* 562bis (MA-835049).

Previously reported from Kie Ntem (Guinea 1946: 184j), Litoral (Lejoly & Lisowski 1998: 164) and Río Muni, without any precise locality (Guinea 1946: 237)

Chloris pycnothrix Trin., Gram. Unifl. Sesquifl.: 234 (1824)

NE Native

Native to Tropical America and Tropical Africa, naturalized in Tropical Asia. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland

Province); Madagascan Region.

Litoral: Bata, alrededores del puerto marítimo, *Carvalho* 4585 (MA-558569, WAG).

Previously reported from Litoral (Cebolla-Lozano & Rivas-Ponce 1995: 19-20)

Chrysopogon aciculatus (Retz.) Trin., Fund. Agrost.: 188 (1820)

NE Naturalized

Native from Indian Ocean, Tropical & Subtropical Asia to Pacific, naturalized in Tropical America and Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Enkumekien, *Pérez Viso* 1535 (MA-702675). Kie Ntem: Nsoc Nsomo, camino que va desde Nsoc Nsomo a Bata, Mocomo, *Cabezas & al.* 1280 (MA-831855); Akam II, carretera hacia Nsok-Nsomo, *Fero & Esono* 115 (MA-833894). Litoral: río Campo, carretera de la playa al pueblo, *Barberá & al.* 305 (MA-844520); Utonde, carretera de Utonde a Bata, *Barberá & al.* 274 (MA-844252); Bata, Asonga, *Pérez Viso* 1412 (MA-766264); Bata, carretera a la central eléctrica, km 6, *Carvalho* 4589 (MA-558549, WAG).

Previously reported from Litoral (Cebolla-Lozano & Rivas-Ponce 1995: 20)

Coix lacryma-jobi L., Sp. Pl.: 972 (1753)

NE Naturalized

Native from India to Malaysia, naturalized anywhere in the world. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Ayene concentrado, *Cabezas* 109 (MA-695687).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 164; Guinea 1946: 184i) and Río Muni, without any precise locality (Guinea 1946: 237).

Cymbopogon citratus (DC.) Stapf in Bull. Misc. Inform. Kew 1906: 322, 357 (1906)

NE Naturalized

Probably native to India, naturalized in all the Tropics. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known in Annobón and Bioko.

Previously reported from Kie Ntem (Guinea 1946: 184j) and Río Muni, without any precise locality (Guinea 1946: 234).

Cynodon dactylon (L.) Pers., Syn. Pl. 1: 85 (1805)

NE Native

Native from temperate and subtropical Old World to Australia. Africa. Also known from Annobón and Bioko.

Previously reported from Centro Sur (Guinea 1946: 184i), Litoral (Lejoly & Lisowski

1998: 164) and Río Muni, without any precise locality (Guinea 1946: 237)

Cyrtococcum chaetophoron (Roem. & Schult.) Dandy in J. Bot. 69(2): 55 (1931)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, río Vog-yii, *Pérez Viso* 3215 (MA-821003); P.N. Monte Alén, Monte Chocolate, *Pérez Viso* 4020 (MA-703189). Kie Ntem: Akam, camino a Oyò, *Fero & Esono* 151 (MA-808750). Wele Nzas: Mbiet, Añisok, *Pérez Viso* 3608 (MA-766263).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 164) and Litoral (Lejoly & Lisowski 1998: 164).

Dactyloctenium aegyptium (L.) Willd., Enum. Pl. 2: 1029 (1809)

NE Native

Native to Tropical & Subtropical Old World, naturalized in America. Africa. Also known in Bioko.

Litoral: Aman, carretera de Bata a Mbini, a 15 km de Bata, *Fero & al.* 269 (MA-844617); Bata, playa de Asonga, *Pérez Viso* 1397 (MA-766262); Bata, cerca del puerto, *Pérez Viso* 1440 (MA-766261); Bata: Bata-Asonga, *Carvalho* 4665 (MA-597513, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 165)

Digitaria debilis (Desf.) Willd., Enum. Hort. Berol. Alt. 91 (1809)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Cape Region; Madagascan Region.

Litoral: carretera de Mbini-Bata, puente Sendje sobre el río Wele o Woro, *Fero & al.* 299 (MA-844587); Corisco, camino hacia el N a 100 m de la casa de Yniestrosa, *Velayos et al.* 9923 (MA-703849).

Digitaria horizontalis Willd., Enum. Pl.: 92 (1809)

LC Native

Native to Tropical and Subtropical America & Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Bata-Niefang-Monte Alén: Estrada Km. 100. Proximidades de Engong, margens del Río Lobo, *Carvalho* 5916 (MA-609870). Litoral: Utonde, camino que va de la orilla del río a la carretera de Bata, *Barberá & al.* 254 (MA-843784); Bata-Senye (Senge), *Carvalho* 6432 (MA-620909); Bata-Bolondo: Estrada Km. 35-36: Area de exploración forestal de EXFOSA, *Carvalho* 5993 (MA-609767); Bata-Senye: Estrada

kms. 40. Nas margens de Río Benito en Senye, *Carvalho 5081* (MA-599180, MO, WAG).

Previously reported from Centro Sur (Guinea 1946: 184i, 216d, 256a, 320f), Kie Ntem (Guinea 1946: 184j) and Río Muni, without any precise locality (Guinea 1946: 231)

Digitaria leptorhachis (Pilg.) Stapf in Oliv. (ed.), Fl. Trop. Afr. 9: 462 (1919)
NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Corisco, Endote, *Pérez Viso 1970* (MA-766260); Bata-Mbini: Estrada km. 27, ona forestal de 3 Okumes. Antigua exploración de EXFOSA, *Carvalho 6061* (MA-619131).

Previously reported from Litoral (Lejoly & Lisowski 1998: 165).

Digitaria longiflora (Retz.) Pers., Syn. Pl. 1:85 (1805)
NE Native

Native to Tropical & Subtropical Old World. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region.

Previously reported from Litoral (Lejoly & Lisowski 1998: 165).

Echinochloa colona (L.) Link, Hort. Berol. 2: 209 (1833)
LC Native

Tropical & Subtropical Old World, naturalized worldwide. Africa.

Litoral; carretera de Mbini-Bata, puente Sendje sobre el río Wele o Woro, *Fero & al.* 302 (MA-844584); 309 (MA-844577)

Previously reported from Litoral (Lejoly & Lisowski 1998: 165).

Eleusine indica (L.) Gaertn., Fruct. Sem. Pl. 1: 8 (1788)
LC Native

Native to Tropical & Subtropical Old World, naturalized worldwide. Africa. Also known from Annobón and Bioko

Centro Sur: Evinayong, *Guinea 442* (MA-835060); 459 (MA-301350); 463 (MA-835052); 469 (MA-835051). Litoral: carretera de Mbini-Bata, puente Sendje sobre el río Wele o Woro, *Fero & al.* 300 (MA-844586); Yengüe, Río Campo, *Pérez Viso 2809* (MA-820985); Bata, cerca del puerto, *Pérez Viso 1443* (MA-766277); 1443bis (MA-766259). Río Muni: El Muni, *s.n.* (MA-150414).

Previously reported from Centro Sur (Guinea 1946: 184i), Kie Ntem (Guinea 1946: 184j), Litoral (Lejoly & Lisowski 1998: 165) and Río Muni, without any precise locality (Guinea 1946: 86, 237).

Entolasia olivacea Stapf in Oliv. (ed.), Fl. Trop. Afr. 9: 740 (1920)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Desembocadura del río Campo, *Pérez Viso* 2163 (MA-713653)

Eragrostis aspera (Jacq.) Nees in Oliv. (ed.), Fl. Afr. Austral. Ill: 408 (1841)

NE Native

Native to Africa, Arabian Peninsula, S. India and Indo-China. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Karroo Namib Region; Cape Region; Madagascan Region. Also known from Bioko.

Litoral: Benito-carretera, *Guinea* 118-1017 (MA-711016). Wele Nzaz: cerro cúpula de Asoc, *Guinea* 347 (MA-835075).

Previously reported from Wele Nzaz (Guinea 1946: 184k)

Eragrostis atrovirens (Desf.) Trin. ex Steud., Nomencl. Bot. (ed. 2) 1: 562 (1840)

LC Native

Native to Tropical & Subtropical Old World, naturalized elsewhere. Sudano-Zambezian Region (Sudanian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province); Madagascan Region.

Litoral: Mbini, nuevo puente Mbini-Bolondo, sobre el río Wele, *Fero & al.* 285 (MA-844601); río Campo, *Barberá & al.* 306 (MA-844519).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 165).

Eragrostis cilianensis (All.) Vignolo ex Janch. in Mitt. Naturwiss. Vereins Univ. Wien 5(9): 110 (1907)

NE Native

Native to the Old World, worldwide naturalized. Africa.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 165)

Eragrostis ciliaris (L.) R.Br., Narr. Exped. Zaire 478 (1818)

NE Native

Native to the Tropical & Subtropical Old World, elsewhere naturalized. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region.

Litoral: Utonde, camino que va de la orilla del río a la carretera de Bata, *Barberá & al.* 255 (MA-843783); 267 (MA-843771); Río Benito, *Guinea* 562quater (MA-835087); Bata: Bata-Asonga, *Carvalho* 4647 (MA-597922, MO, WAG).

Previously reported from Kie Ntem (Guinea 1946: 184j), Litoral (Lejoly & Lisowski 1998: 165; 1999a: 101) and Río Muni, without any precise locality (Guinea 1946: 237)

Eragrostis gangetica (Roxb.) Steud., Syn. Pl. Glumac. 1: 266 (1855) [1854].

LC Native

Native to Africa, Indian Subcontinent and Borneo. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region.

Previously reported from Litoral (Lejoly & Lisowski 1998: 165).

Eragrostis squamata (Lam.) Steud., Syn. Pl. Glumac. 1: 274 (1855) [1854].

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: río Campo, *Barberá & al.* 308 (MA-844517); Ebongo, *Guinea* 793 (MA-835072); Utonde, *Guinea* 747 (MA-835073).

Eragrostis tenuifolia (A.Rich.) Hochst. ex Steud., Syn. Pl. Glumac. 1: 268 (1855) [1854].

NE Native

Native to Tropical & Subtropical Old World, elsewhere naturalized. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Cape Region.

Previously reported from Litoral (Lejoly & Lisowski 1998: 166)

Eragrostis welwitschii Rendle, Cat. Afr. Pl. 2(1): 234 (1899)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Litoral: carretera de Bata-Bome, en las proximidades del terreno de la Empresa Hess, *Fero & Barberá* 314 (MA-844572); carretera de río Benito, *Guinea* 1017 (MA-835076). Wele Nzaz: región del Bimbile, *Guinea* 141 (MA-835074); Asoc, *Lejoly* 99/291 (MA-621848).

Previously reported from Wele Nzaz ((Lejoly & Lisowski 1999a: 118) and Río Muni, without any precise locality (Guinea 1946: 237)

Guaduella densiflora Pilg. in Bot. Jahrb. Syst. 30(1): 123 (1902)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Guinea 1946: 157)

Guaduella macrostachys (K.Schum.) Pilg. in Mildbr., Wiss. Ergebn. Zweit. Deut. Zentr.-Afr. Exped., Bot. 2: 93 (1922)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Moka, *Pérez Viso 108* (MA-834752); P.N. Monte Alén, lago Atok, *Pérez Viso 1037* (MA-766290)

Guaduella marantifolia Franch. in Bull. Mens. Soc. Linn. Paris 1: 676 (1887)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, lago Atok, *Pérez Viso 1007* (MA-766289); P.N. Monte Alén, cataratas del río Wele, Mosumu, *Pérez Viso 1608* (MA-715526). Litoral: a 27 km. de Kogo por la carretera de Kogo, *Pérez Viso 4000* (MA-703192); Bata-Senge, *Carvalho 6319* (MA-642075, WAG). Wele Nzaz: Oveng Esandong, km. 61 carretera Nkue-Mongomo, *Pérez Viso 3074* (MA-766292); Añisok-Mongola, *Pérez Viso 3737* (MA-766291); Akok, carretera Acurenam-Aconibe, *Pérez Viso 2026* (MA-715531).

Guaduella oblonga Hutch. ex Clayton in Kew Bull. 16: 247 (1962)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Kie Ntem: Akam, *Fero & Esono 62* (MA-808300)

Imperata cylindrica (L.) P.Beauv., Ess. Agrostogr. 8: 165, 177, pl. 5, fig. 1 (1812)

LC Native

Native to Africa, the Mediterranean, Afganistan and Arabian Peninsula, naturalized in Tropical Asia. Afica. Also known in Bioko.

Litoral: pradera litoral de Ecuco cerca del aeródromo antiguo, *Guinea 754* (MA-766280); Bata: Bata-Asonga. Pradera frontal da Cooperacion, *Carvalho 4664* (MA-597512, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 166; Guinea 1946: 86, 170, 233)

Isachne albens Trin., Sp. Gram. 1(8): pl. 85 (1827)

LC Native

Native to Tropical Old World. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Bata-Niefang, *Pérez Viso 2720* (MA-820988); *2737bis* (MA-808858); Enkumekie, carretera Niefang a Evinayong, *Pérez Viso 4075* (MA-766288); P.N. Monte Alén, Mosumu, alrededores de las cataratas del río Uoro, *Pérez Viso 370* (MA-834751); Añisok-Mongola, *Pérez Viso 1482* (MA-713658). Kie Ntem: Akam, *Fero & Esono 45*

(MA-808155); 82 (MA-808287); Eloan, carretera Ebebiyi-Mongomo, *Pérez Viso* 4247 (MA-766287). Litoral: Río Campo, cerca de Bongoro, *Pérez Viso* 2185 (MA-713654); Bata-Mbubuín: estrada km. 30. Neste local tomamos estrada en direccao a Niefang cerca de 5 km., *Carvalho* 5058 (MA-712708, MO); Bata-Pembe: Estrada dos madeireiros desde Pembe a Río Mbia. Estrada kms. 13-14 desde Pembe, *Carvalho* 5481 (MA-599369, MO, WAG); Bata: entre Asonga e o Aeroporto. Río Muni, na margens pantano, *Carvalho* 4638 (MA-597327, MO, WAG). Wele Nzás; Eviam, carretera forestal de Bata a Niefang, *Pérez Viso* 2581 (MA-820997).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 166), Litoral (Lejoly & Lisowski 1998: 166) and Río Muni, without any precise locality (Guinea 1946: 236).

West African plants are usually referred to var. *buettneri* (Hack.) Veldkamp in Bot. Letters 163(1): 20 (2016)

Leersia hexandra Sw., Prodr. 21 (1788)

LC Native

Native to the Tropics & Subtropics. Africa

Previously reported from Litoral (Lejoly & Lisowski 1998: 166)

Leptaspis zeylanica Nees ex Steud., Syn. Pl. Glumac. 1: 8 (1853)

NE Native

Native to Tropical Africa and Indonesia. Sudano-Zambezian Region (Sudanian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Centro Sur: Niefang, explotación forestal de Matroguisa, *Pérez Viso* 2356 (MA-835077); P.N. Monte Alén, Asok., *Pérez Viso* 425 (MA-702096); 900 (MA-702100). Kie Ntem: Ngomgom, poblado de la pista que va de Nsok Nsomo a Bata, *Barberá & al.* 78 (MA-831512). Akam, *Fero & Esono* 135 (MA-808766). Wele Nzás: entre Nsuameyong et inselberg Akuom, *Obama & Lejoly* 456 (MA-612115).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 166), Litoral (Lejoly & Lisowski 1998: 166) and Wele Nzás (Lejoly & Lisowski 1998: 166).

Loudetia arundinacea (Hochst. ex A.Rich.) Steud., Syn. Pl. Glumac. 1: 238 (1854)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata, *Carvalho* 4588 (MA-558567, WAG). Wele Nzás: cerro cúpula de Cucumancoc [Kukumankok], *Guinea* 362 (MA-389251); inselberg Piedra Nzás, *Lejoly* 99/215 (MA-621842).

Previously reported from Litoral (Cebolla-Lozano & Rivas-Ponce 1995: 21; Guinea 1946: 236), Wele Nzás (Lejoly & Lisowski 1998: 167; 1999: 118).

Loudetia flavida (Stapf) C.E.Hubb. in Bull. Misc. Inform. Kew 1934(10): 429 (1934)
NE Native
Native to Tropical & S. Arabian Peninsula. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 167)

Loudetia phragmitoides (Peter) C.E.Hubb. in Bull. Misc. Inform. Kew 1934: 428 (1934)
LC Native
Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bome, *Fero & Barberá* 333 (MA-844553); Utonde, *Del Val s.n.* (MA-808710); Utonde, zona costera N, *Guinea* 30 (MA-389233); 731 (MA-389253).

Previously reported from Litoral (Guinea 1946: 177).

Loudetia vanderystii (De Wild.) C.E.Hubb. in Bull. Misc. Inform. Kew 1934: 428 (1934)
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Aeródromo nuevo de Bata, *Guinea* 650 (MA-389249); 651 (MA-389266); 652 (MA-389323); 1101 (MA-389314); 1102 (MA-389288)

Maltebrunia letestui (Koechlin) Koechlin, Fl. Gabon 5: 243 (1962)
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: P.N. Monte Alén, *Velayos & al.* 10031 (MA-707052)

Megastachya mucronata (Poir.) P.Beauv., Ess. Agrostogr.: 74, 167 (1812)
NE Native
Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Litoral: N de Bata, *Del Val s.n.* (MA-808716); Corisco, Endote, *Pérez Viso* 1951 (MA-835319); 1963 (MA-715523); Ondoa, km. 10 de la carretera del puerto de Bata, *Pérez Viso* 3503 (MA-766284); Etembue, Espigon (réserve de Ndote), *Obama & Lejoly* 603 (MA-612191). Wele Nzas; Eviam, carretera forestal de Bata a Niefang, *Pérez Viso* 2611 (MA-820994).

Previously reported from Litoral (Lejoly & Lisowski 1998: 164)

Melinis minutiflora P.Beauv., Ess. Agrostogr.: 54, pl. 11, fig. 4 (1812)

NE Native

Native to Tropical Africa, elsewhere naturalized. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Bata-Monte Alen, *Carvalho* 5491 (MA-599379, MO, WAG)

Melinis nerviglumis (Franch.) Zizka in Biblioth. Bot. 138: 111 (1988)

NE Native

Native from Congo to SW. Ethiopia and S. Africa, Madagascar. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Cape Region; Madagascan Region.

Previously reported from Litoral (Lejoly & Lisowski 1998: 167)

Melinis repens (Willd.) Zizka in Biblioth. Bot. 138: 55 (1988)

NE Native

Native to Africa and Arabian Peninsula, elsewhere naturalized. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Karroo Namib Region; Cape Region; Madagascan Region.

Litoral: Bata-Bome, *Fero & Barberá* 317 (MA-844569); 329 (MA-844557); Corisco: praderas de Endote, *Pérez Viso* 1936 (MA-766276); Utonde, *Guinea* 738 (MA-712462); 34 (MA-389306); 587 (MA-389304); 397 (MA-389305); 780 (MA-389303); Bata-Asonga, *Carvalho* 4654 (MA-597279, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 167; Guinea 1946: 178, 232)

Melinis tenuissima Stapf in Hooker's Icon. Pl. 27: t. 2660 (1900)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata, cerca del puerto, *Pérez Viso* 1452 (MA-766275)

Microcalamus barbinodis Franch. in J. Bot. (Morot) 3(17): 282, f. B (1889)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Mosumu, alrededores de las cataratas del río Laña, *Pérez Viso* 1264 (MA-766274); P.N. Monte Alén, senda que va desde el lago Atok hasta Moka., *Pérez Viso* 1336 (MA-706486); P.N. Monte Alén, Ayangtang, camino hacia el

río Laña., *Pérez Viso* 972 (MA-687721); Bata-Monte Alén: Margens de Río Oton Asok, *Carvalho* 5332 (MA-598177, MO, WAG). Litoral: Bata-Senge, estrada km. 38, en dirección al monte Bibogo, *Carvalho* 6333 (MA-620554); Bata-Ayamiken: Estrada kms. 56-57. Bosque primario, *Carvalho* 4931 (MA-597879, MO, WAG).

***Olyra latifolia* L.**, Syst. Nat. (ed. 10) 2: 1261 (1759)

NE Native

Native to Tropical America and Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Bioko.

Centro Sur: P.N. Monte Alén, Monte Chocolate, al lado de Aconangüi., *Pérez Viso* 920 (MA-766747); Monte Chocolate, transecto que está entre Monduá y el transecto de Aconangui, *Cabezas* 192 (MA-695538); 204bis (MA-702678); km 40 carretera forestal Bata-Niefang, *Pérez Viso* 2730bis (MA-808859); carretera forestal Bata-Niefang, Nhogo Ebaiñ, *Pérez Viso* 2669bis (MA-820998); Niefang: explotación forestal de Matroguisa, *Pérez Viso* 2291 (MA-766741); P.N. Monte Alén, Esamalang, camino hacia Mondung., *Pérez Viso* 1123 (MA-766740); Mosumo, desde la cabaña de las cataratas hasta las cataratas del Laña, *Aedo & al.* 5145 (MA-689169); Evinayong, Servicio Agronómico, *Guinea* 96-95 (MA-389244); Abobem, Niefang, *Pérez Viso* 4189 (MA-703197); P.N. Monte Alén, Monte Chocolate, *Pérez Viso* 4031 (MA-703186). Kie Ntem: Akam, carretera hacia Nsok-Nsomo, *Fero & Esono* 113 (MA-808733). Litoral: Sendje 1º, km. 47 de la carretera de Kogo, *Pérez Viso* 2908 (MA-689870); Etembue, *Guinea* 621 (MA-714483); Pista Sendje-Evinayong, camino dentro del PN Monte Alén, *Cabezas & al.* 2096 (MA-884329, 884397); Corisco, *Velayos et al.* 9933 (MA-703853). Wele Nzas: Mbut, km. 30 de la carretera de Enkue, *Pérez Viso* 3655 (MA-766739)

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 167; Guinea 1946: 184i, 200d), Litoral (Lejoly & Lisowski 1998: 167; Guinea 1946: 159), Wele Nzas (Lejoly & Lisowski 1998: 167) and Río Muni, without any precise locality (Guinea 1946: 236)

***Oplismenus hirtellus* (L.) P.Beauv.**, Ess. Agrostogr.: 54, 168, 170 (1812)

NE Native

Native to the Tropics & Subtropics of the world. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Bata-Niefang, *Pérez Viso* 2729 (MA-820990); P.N. Monte Alén, Engong, senda que va a una gran roca que se ve desde el pueblo, *Pérez Viso* 2662 (MA-820993); P.N. Monte Alén, Esamalang, *Pérez Viso* 582 (MA-713657); Abobem, Niefang, *Pérez Viso* 4187 (MA-703198); P.N. Monte Alén, Monte Chocolate, *Pérez Viso* 4021 (MA-703188); Monte Chocolate, transecto que está entre Monduá y el transecto de Aconangui, *Cabezas* 203bis (MA-695548). Kie Ntem: Nsok Nsomo, camino que va desde Nsok Nsomo a Bata, Mocomo, *Cabezas & al.* 1237 (MA-831930); Eloan, carretera Ebebiyi-Mongomo, *Pérez Viso* 4284 (MA-713660). Litoral: Sendje, *Pérez Viso* 1623 (MA-715528). Wele Nzas: Akok, carretera Acurenam-Aconibe, *Pérez Viso*

2016 (MA-715530).

Previously reported from Litoral (Lejoly & Lisowski 1998: 167; Guinea 1946: 157, 159) and Río Muni (Guinea 1946: 231).

Oryza sativa L. Sp. Pl.: 333 (1753)

LC Introduced

Native to China, cultivated and naturalized worldwide. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Bicomo, *Carvalho* 4943 (MA-706625, MO, WAG).

Previously reported from Río Muni, without any precise locality (Guinea 1946: 236)

Oxyrhachis gracillima (Baker) C.E.Hubb. in Hooker's Icon. Pl. 35, tab. 3454 (1947)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Cape Region; Madagascan Region.

Litoral: Bata: Bome, *Carvalho* 4686 (MA-597468, MO, WAG); 4767 (MA-597679, MO, WAG).

Oxytenanthera abyssinica (A.Rich.) Munro in Trans. Linn. Soc. London 26(1): 127 (1868)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province). Also known from Bioko.

Previously reported from Centro Sur (Guinea 1946: 24e), Litoral (Guinea 1946: 24f, 288a) and Río Muni, without any precise locality (Guinea 1946: 238).

Panicum brazzavillense Franch. in Bull. Soc. Hist. Nat. Autun 8: 341 (1895)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region.

Previously reported from Litoral (Lejoly & Lisowski 1998: 167).

Panicum brevifolium L. Sp. Pl.: 59 (1753)

NE Native

Native to the Paleotropic & Paleosubtropic. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: Miyobo, carretera Niefang-Mosumu, *Pérez Viso* 2526 (MA-820999); Monte Bata hacia Río Campo, *Pérez Viso* 2434 (MA-689868); P.N. Monte Alen, 5 km au NO de Engong, inselberg, *Lejoly* 99/067 (MA-621789); Evinayong, *Guinea* 104-487 (MA-389344); 487 (MA-389345). Kie Ntem: Nfuiñ, a 29 km de Nsoc Nsomo por la pista que va hacia Bata, *Cabezas & al.* 1354 (MA-831782); Eloan, carretera Ebebiyi-Mongomo, *Pérez Viso* 4247 (MA-713665). Litoral: Pista Sendje-Bisun, km 9, cerca del antiguo poblado de Bisun, *Cabezas & al.* 2084 (MA-884323, 884395); Bata-Bome, *Fero & Barberá* 312 (MA-844574); Corisco, *Velayos et al.* 9928 (MA-795352); Corisco, Endote, *Pérez Viso* 1957 (MA-715524). Wele Nzas: Nvua-Nnvam Oveng, Añisok, *Pérez Viso* 3012 (MA-766738); Akok, carretera Acurenam-Aconibe, *Pérez Viso* 2059 (MA-715520).

Previously reported from Litoral (*Lejoly & Lisowski* 1998: 168) and Wele Nzas (*Lejoly & Lisowski* 1998: 168).

Panicum calvum Stapf in Oliv. (ed.), Fl. Trop. Afr. 9: 723 (1920)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Abama, *Guinea* 404 (MA-389274). Litoral: Río Benito, cerca de la playa, *Guinea* 958 (MA-389276). Wele Nzas: Aconibe, *Guinea* 106 (MA-389261); 403 (MA-389275); 402 (MA-389273).

Panicum congoense Franch. in Bull. Soc. Hist. Nat. Autun 8: 342 (1895)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: praderas litorales de Etembue, zona costera meridional, *Guinea* 530 (MA-835055); 949 (MA-835054); pradera litoral, aeródromo, *Guinea* 648 (MA-835056); Utonde, praderas litorales de la zona costera N, *Guinea* 736 (MA-835050); Corisco, praderas sobre arenas, *Velayos et al.* 9978 (MA-705028); Bata-Utonde: Estrada kms. 25-26. Pradera gramínea de Eyang-Mbaha ou de Pembe, *Carvalho* 4733 (MA-597904, MO, WAG).

Panicum dregeanum Nees Fl. Afr. Austral. Ill.: 42 (1841)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Cape Region; Madagascan Region.

Litoral: Bata: Bome. Pradera gramínea que acompaña o río Boara, *Carvalho* 4691 (MA-597335, MO, WAG).

Panicum laxum Sw., Prodr. 23 (1788)

NE Naturalized

Native to Tropical & Subtropical America, naturalized in W Tropical Africa and Australia. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: carretera Bata-Mbini, proximidades del poblado Ngabe. ca 35 km de Bata, *Fero & al.* 278 (MA-844608); playa de Utonde, *Barberá & al.* 227 (MA-843811); río Campo, carretera de la playa al pueblo, *Barberá & al.* 301 (MA-844524); 307 (MA-844518); a unos 2 km de río Campo, en la carretera de río Campo a Bata, Nejiacom, *Barberá & al.* 329 (MA-844497).

Panicum maximum Jacq. Icon. Pl. Rar. 1: 2, tab. 13 (1781)

NE Native

Native to Tropical Africa and Arabian Peninsula. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Karroo Namib Region; Cape Region; Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Bata-Niefang, *Pérez Viso* 2736 (MA-820992); Bindung, km. 17 de la carretera de Niefang, *Pérez Viso* 3787 (MA-766736). Kie Ntem: alrededores del poblado de Obot Nku-Eseng, a 7 km de Nsok Nsomo, *Barberá & al.* 181 (MA-831457); Akam II, carretera hacia Nsok Nsomo, *Fero & Esono* 126 (MA-808722). Litoral: río Campo, playa cerca de la desembocadura del río, *Barberá & al.* 285 (MA-844241); Utonde, camino que va de la orilla del río a la carretera de Bata, *Barberá & al.* 265 (MA-843773); Río Campo, desembocadura del río Campo, *Pérez Viso* 2475 (MA-766737)

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 168) and Litoral (Lejoly & Lisowski 1998: 168)

Panicum parvifolium Lam., Tabl. Encycl. 1: 173 (1791)

LC Native

Native to Tropical America & Madagascar. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province).

Litoral: Bata-Pembe, *Carvalho* 5514 (MA-598756, MO, WAG); Etembue, *Guinea* 102-891 (MA-389346); 394 (MA-389347).

Previously reported from Litoral (Lejoly & Lisowski 1998: 168; Guinea 1946: 175, 176b)

Panicum repens L., Sp. Pl. (ed. 2) 1: 87 (1762)

LC Native

Native to Tropical and Subtropical Old World, naturalized in America. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Karroo Namib Region; Cape Region; Madagascan Region. Also known from

Bioko.

Litoral: Utonde, camino que va de la orilla del río a la carretera de Bata, *Barberá & al.* 266 (MA-843772); playa del río Benito, *Guinea* 955 (MA-877642); 956 (MA-835061); 956bis (MA-835062); playa de Cabo de San Juan, *Guinea* 872 (MA-835063); 876 (MA-835064).

Previously reported from Litoral (Lejoly & Lisowski 1998: 168; 1999a: 101)

Paspalum conjugatum P.J.Bergius in Acta Helv. Phys.-Math. 7: 129, pl. 8 (1772)

LC Naturalized

Native to Tropical & Subtropical America, broadly naturalized in the rest of the Tropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: Miyobo, carretera Niefang-Mosumu, *Pérez Viso* 2527 (MA-821000); pr. Acurenam, Mbeayop, 1°03'N, 10°37'E, *Aedo & al.* 5396 (MA-766745); Evinayong, Servicio Agronómico, *Guinea* 485 (MA-389342). Litoral: Pista Sendje-Evinayong, camino dentro del PN Monte Alén, *Cabezas & al.* 2103 (MA-884322, 884394); praderas del nuevo aeródromo de Bata, *Guinea* 635 (MA-389341). Río Muni: El Muni, *s.n.* (MA-4028).

Previously reported from Centro Sur (*Guinea* 1946: 184i, 184f, 216d, 320f), Kie Ntem (*Guinea* 1946: 184j), Litoral (Lejoly & Lisowski 1998: 168; 1999a: 101; *Guinea* 1946: 159) and Río Muni, without any precise locality (*Guinea* 1946: 231)

Paspalum paniculatum L., Syst. Nat. ed. 10: 855 (1759)

LC Naturalized

Native from Mexico to Tropical America, naturalized in Africa and Indonesia. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Bata-Niefang, *Pérez Viso* 2739bis (MA-808861, MA-808863); Enkumekien, carretera Niefang-Evinayong, *Pérez Viso* 4065 (MA-820982); P.N. Monte Alén, río Vog-yii, *Pérez Viso* 3226 (MA-820983); Niefang, explotación forestal de MATROGUISA, *Pérez Viso* 2245 (MA-820979); P.N. Monte Alén, Misergue-Churu, *Pérez Viso* 1634 (MA-808865); Acurenam, Mbeayop, 1°03'N, 10°37'E, *Aedo & al.* 5400 (MA-766746); Evinayong, Servicio Agronómico, *Guinea* 434 (MA-389247); 461 (MA-389248); 491 (MA-389246). Kie Ntem: Akam, *Fero & Esono* 87 (MA-808282). Litoral: a unos 2 km de río Campo, en la carretera de río Campo a Bata, Nejiacom, *Barberá & al.* 323 (MA-844502). Río Muni: *Del Val s.n.* (MA-808703). Wele Nzas: Nsum Esangüü, *Pérez Viso* 3648 (MA-820986), Nvua-Nnvam Oveng, Añisok, *Pérez Viso* 3013 (MA-820984).

Previously reported from Litoral (Lejoly & Lisowski 1998: 168)

Paspalum scrobiculatum L., Mant. Pl. 1: 29 (1767)

LC Naturalized

Native to Tropical & Subtropical Old World, broadly naturalized in the rest of the Tropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-

Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Karroo Namib Region; Cape Region; Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Bata-Niefang, *Pérez Viso 2729bis* (MA-808862). Kie Ntem: Nsoc Nsomo, camino que va desde Nsoc Nsomo a Bata, a unos 3 km de Nsoc Nsomo, Mocomo, *Cabezas & al. 1233* (MA-831934); Akam, carretera hacia Nsok-Nsomo, *Fero & Esono 101* (MA-808308). Litoral: Kogo, *Pérez Viso 4014* (MA-820981); Río Campo, desembocadura del río Campo, *Pérez Viso 2490* (MA-808864); Corisco, Endote, *Pérez Viso 1968* (MA-766735); Río Benito, *Guinea 565* (MA-389343). Río Muni: El Muni, *s.n.* (MA-4049).

Previously reported from Kie Ntem (Guinea 1946: 184j), Litoral (Lejoly & Lisowski 1998: 168; 1999a: 101) and Río Muni, without any precise locality (Guinea 1946: 231)

***Paspalum vaginatum* Sw., Prodr.: 21 (1788)**

LC Naturalized

Native to Tropical & Subtropical America, bradly naturalized in the rest of the Tropics & Subtropics. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Karroo Namib Region; Cape Region; Madagascan Region. Also known from Annobón and Bioko.

Litoral: río Campo, playa cerca de la desembocadura del río, *Barberá & al. 287* (MA-844239).

Previously reported from Litoral (Lejoly & Lisowski 1998: 169; 1999a: 101)

Pennisetum polystachion* (L.) Schult., Mant. 2: 146 (1824) subsp. *polystachion

LC Native

Native to Africa, Arabian Peninsula & India, naturalized elsewhere. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: Acurenam, Mbeayop, 1°03'N, 10°37'E, *Aedo & al. 5406* (MA-766743); P.N. Monte Alén, Enkumekien, *Pérez Viso 1534* (MA-702676). Kie Ntem: Nsoc Nsomo, camino de Nsoc Nsomo a Bata, a unos 3 km de Nsoc Nsomo, Mocomo, *Cabezas & al. 1231* (MA-831936); Akam, carretera hacia Nsok-Nsomo, *Fero & Esono 110* (MA-808735). Litoral: Utonde, camino que va de la orilla del río a la carretera de Bata, *Barberá & al. 271* (MA-844255); río Campo, orilla de río, *Barberá & al. 297* (MA-844229); Río Benito, *Guinea 554* (MA-766733); 556 (MA-877645); *s.n.* (MA-835070); desembocadura del río Campo, *Pérez Viso 2158* (MA-713652); Bome, *Pérez Viso 1731* (MA-703196); Corisco, pueblo de Corisco, *Velayos et al. 9988* (MA-706864). Wele Nzaz: Añisok-Mongola, *Pérez Viso 3747* (MA-766731).

Previously reported from Litoral (Lejoly & Lisowski 1998: 169)

***Perotis indica* (L.) Kuntze, Revis. Gen. Pl. 2: 787 (1891)**

NE Native

Native to Tropical Africa and Tropical & Subtropical Asia. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Monte Bata hacia río Campo, *Pérez Viso* 2424 (MA-713662). Litoral: río Campo, carretera de la playa al pueblo, *Barberá & al.* 311 (MA-844514); Río Campo, desembocadura del río Campo, *Pérez Viso* 2465 (MA-766730); Bata: Bata-Asonga, *Carvalho* 4645 (MA-597920).

Perotis patens Gand. in Bull. Soc. Bot. France 66(7): 301 (1919) [1920].

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region.

Previously reported from Litoral (Lejoly & Lisowski 1998: 169)

Phacelurus gabonensis (Steud.) Clayton in Kew Bull. 35(4): 817 (1981)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Acurenam, Mbeayop, *Aedo & al.* 5401 (MA-766742); P.N. Monte Alén, Esamalang, *Pérez Viso* 547 (MA-766727). Litoral: río Campo, carretera de la playa al pueblo, *Barberá & al.* 319 (MA-844506); Etembue, *Guinea* 44 (MA-711022); 395-909 (MA-711021); 908 (MA-767647); 908bis (MA-766729); 114-950 (MA-766728); Binguro, *Pérez Viso* 2890 (MA-766726); Kogo, *Pérez Viso* 4012 (MA-703191); Bata-Bolondo, km 34, *Carvalho* 4595 (MA-558551, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 169; Cebolla-Lozano & Rivas-Ponce 1995: 20; Guinea 1946: 23, 96g, 176, 176b, 233)

Pseudechinolaena polystachya (Kunth) Stapf in Oliv. (ed.), Fl. Trop. Afr. 9: 495 (1919)

NE Native

Native to the Tropics and Subtropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Centro Sur: Enkumekie, carretera Niefang a Evinayong, *Pérez Viso* 4066 (MA-834750); Miyobo, carretera Niefang-Mosumu, senda hacia el río Laña, *Pérez Viso* 2529 (MA-821002); Monte Alén, subida al mirador, *Velayos & Pérez Viso* 9303 (MA-834749).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 169) and Wele Nzaz (Lejoly & Lisowski 1998: 169).

Puelia ciliata Franch. in Bull. in Mens. Soc. Linn. Paris 1: 674 (1887)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Sendje 2°, km. 47 de la carretera de Kogo, *Pérez Viso* 2938 (MA-703193); Bata-Senge: Estrada km. 27. Entrada hacia la antigua explotación forestal, *Carvalho* 6321 (MA-642124). Wele Nzas: Eviam, carretera forestal de Bata a Niefang, *Pérez Viso* 2616 (MA-820995).

Previously reported from Litoral (Lejoly & Lisowski 1998: 169) and Wele Nzas (Lejoly & Lisowski 1998: 169)

Puelia olyriformis (Franch.) Clayton in Kew Bull. 20: 273 (1966)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 170), Litoral (Lejoly & Lisowski 1998: 170) and Wele Nzas (Lejoly & Lisowski 1998: 170).

Puelia schumanniana Pilg. in Bot. Jahrb. Syst. 30(1): 126 (1901)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Monte Alen, subida al mirador, *Velayos & Pérez Viso* 9278 (MA-703134)

Rhytachne rottboellioides Desv., Prodr. Pl. Ind. Occid. 12 (1825)

LC Native

Native to Tropical Africa and Madagascar, naturalized in Tropical America. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region.

Litoral: Bolondo, zona costera central, *Guinea* 695 (MA-767667); 697 (MA-767666); 719 (MA-767670); 720 (MA-767668); Etembue, zona costera meridional, *Guinea* 914 (MA-767669).

Previously reported from Litoral (Lejoly & Lisowski 1998: 170)

Rottboellia cochinchinensis (Lour.) Clayton in Kew Bull. 35(4): 817 (1981)

NE Native

Native to Tropical & Subtropical Old World, naturalized in America. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known in Annobón and Bioko.

Kie Ntem: Obot Nku-Eseng, a 7 km de Nsok Nsomo, *Barberá & al.* 189 (MA-831450).

Previously reported from Litoral (Lejoly & Lisowski 1998: 170; Guinea 1946: 159, 176, 176b).

Saccharum officinarum L., Sp. Pl.: 54 (1753)

NE Introduced

Native to New Guinea, cultivated and naturalized in all Tropical world. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Annobón and Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 170) and Río Muni, without any precise locality (Guinea 1946: 233).

Schizachyrium brevifolium (Sw.) Nees ex Büse, Pl. Jungh. 3: 359 (1854)

LC Native

Native to all Tropics & Subtropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Annobón and Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 170).

Schizachyrium thollonii (Franch.) Stapf in Oliv. (ed.), Fl. Trop. Afr. 9: 200 (1919)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 170)

Setaria barbata (Lam.) Kunth, Révis. Gramin. 1: 47 (1829)

NE Native

Native to Tropical and Subtropical Old World, naturalized in America. Sudano-Zambezian Region (Sudanian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Bindung, km. 17 de la carretera de Niefang, *Pérez Viso* 3768 (MA-767665); Oyac Esom, *Pérez Viso* 3439 (MA-687690).

Previously reported from Litoral (Lejoly & Lisowski 1998: 171)

Setaria longiseta P.Beauv., Fl. Oware 2: 81, fig. 110.2 (1819)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón.

Litoral: Bata-Mbini, estrada km 10, *Carvalho* 6346 (MA-620815).

Setaria sphacelata (Schumach.) Stapf & C.E.Hubb. ex M.B.Moss in Kew Bull. 1929(6): 195 (1929)

LC Native

Native to Tropical & S. Africa and Madagascar, naturalized in the other all Tropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Karroo Namib Region; Cape Region; Madagascan Region.

Previously reported from Litoral (Lejoly & Lisowski 1998: 171)

Setaria sulcata Raddi, Agrostogr. Bras. 50 (1823)

NE Naturalized

Native in Tropical America, naturalized in Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Karroo Namib Region; Cape Region; Madagascan Region. Also known from Bioko.

Centro Sur: Bata-Niefang, *Pérez Viso* 2732 (MA-820991); P.N. Monte Alén, Mosumu, *Pérez Viso* 651 (MA-767664); P.N. Monte Alén, Moka, *Pérez Viso* 4121 (MA-713664); Niefang: explotación forestal de Matroguisa, *Pérez Viso* 2258 (MA-713655); P.N. Monte Alén, Enkumekien, *Pérez Viso* 1551 (MA-703199). Kie Ntem: Nsok Nsomo, camino que va desde Nsok Nsomo a Bata, Mocomo, *Cabezas & al.* 1290 (MA-831845); Akam II, carretera hacia Nsok Nsomo, *Fero & Esono* 119 (MA-808729). Litoral: Área de Machinda. Poblado de Ovong, *López Serrano* 290501, 290502, 290503 (MA); Río Campo, cerca de Bongoro, *Pérez Viso* 2203 (MA-713656); Bata-Niefang, *Carvalho* 5966 (MA-609130, WAG). Wele Nzaz: Añisok-Mongola, *Pérez Viso* 3754 (MA-767663); Mbiet, Añisok, *Pérez Viso* 3582 (MA-767662).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 171) and Litoral (Lejoly & Lisowski 1998: 171).

Sorghum arundinaceum (Desv.) Stapf in Oliv. (ed.) Fl. Trop. Afr. 9: 114 (1917)

LC Native

Native to Tropical Africa, Madagascar and India, naturalized in America. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Bindung, km. 17 de la carretera de Niefang, *Pérez Viso* 3800 (MA-767655). Kie Ntem: alrededores del poblado de Obot Nku-Eseng, a 7 km de Nsok Nsomo, *Barberá & al.* 191 (MA-831447); carretera de Micomesen a Ebebiyin, poblado de Ayap, *Guinea* 21 (MA-767659, 767660). Litoral: Mbini, cerca del nuevo puente Mbini-Bolondo, *Fero & al.* 283 (MA-844603); Corisco, pueblo de Corisco, *Velayos et al.* 9986 (MA-706862); Bata-Asonga, *Carvalho* 5445 (MA-599443, MO, WAG). Río Muni: *Guinea* 101 (MA-767657). Wele Nzaz: Poblado de Asoc, carretera de N'soc a Ebelibiyin, *Guinea* 337 (MA-714484); 338 (MA-767658); Poblado de Aconibe, *Guinea*

399 (MA-767656).

Previously reported from Kie Ntem (Guinea 1946: 184j), Litoral (Lejoly & Lisowski 1998: 171) and Río Muni, without any precise locality (Guinea 1946: 233).

Sporobolus festivus Hochst. ex A.Rich., Tent. Fl. Abyss. 2: 398 (1851).

NE Native

Native to Tropical Africa, Madagascar and India. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Karroo Namib Region; Cape Region; Madagascan Region.

Previously reported from Litoral (Guinea 1946: 176, 176b) and Río Muni, without any precise locality (Guinea 1946: 236).

Sporobolus indicus (L.) R.Br., Prodr. 170 (1810)

LC Introduced

Native to Tropical America, elsewhere naturalized. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Karroo Namib Region; Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Bindung, km. 17 de la carretera de Niefang, *Pérez Viso* 3789 (MA-767661); Evinayong, Servicio Agronómico, *Guinea* 429 (MA-835325), 430 (MA-835324), 470 (MA-835326). Kie Ntem: alrededores del poblado de Obot Nku-Eseng, a 7 km de Nsok Nsomo, *Barberá & al.* 180 (MA-831458). Litoral: praderas litorales de Utonde, *Guinea* 739 (MA-835320), 740 (MA-835322); río Campo, orilla de río, *Barberá & al.* 292 (MA-844234); Utonde, desembocadura del río, *Barberá & al.* 244 (MA-843794); entre Utonde y Adyap, zona NW, *Guinea* 836 (MA-835321); playa del río Ecucu, *Guinea* 588 (MA-835065); Utonde, camino que va de la orilla del río a la carretera de Bata, *Barberá & al.* 268 (MA-843770); Utonde, carretera de Utonde a Bata, *Barberá & al.* 284 (MA-844242); Bata-Bicomo, estrada km. 15, no Río Ecucu, *Carvalho* 5362 (MA-599641, MO, WAG); Bata-Praderas do Aeroporto, *Carvalho* 4919 (MA-597889, MO, WAG); Utonde, *Guinea* 35 (MA-835308); Río Benito, *Guinea* 543bis (MA-835323).

Previously reported from Litoral (Guinea 1946: 178).

Sporobolus paniculatus (Trin.) T.Durand & Schinz, Consp. Fl. Afr. 5: 823 (1895)

NE Native

Native to Tropical & S Africa and Madagascar. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region.

Litoral: Bata-Niefang, estrada km. 35, en la dirección de Adjape-Bibak con Río Comays, *Carvalho* 5933 (MA-609924); Bata-Praderas de Bome, *Carvalho* 5497 (MA-599384, MO, WAG), 5819 (MA-610047).

Sporobolus pyramidalis P.Beauv., Fl. Oware 2: 36, t. 80 (1816)

NE Native

Native from Tropical & Subtropical America, Africa to Arabian Peninsula, elsewhere naturalized. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region.

Previously reported from Litoral (Lejoly & Lisowski 1998: 171).

Sporobolus robustus Kunth, Révis. Gramin. 2: 425 (1832)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: río Campo, playa cerca de la desembocadura del río, *Barberá & al.* 288 (MA-844238); playa del río Ecucu, *Guinea* 527 (MA-835066); Bata-Bome, *Carvalho* 5150 (MA-599629, MO, WAG); Bata-Desembocadura del Río Ecucu, *Carvalho* 5201 (MA-598153, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 171)

Sporobolus tenuissimus (Mart. ex Schrank) Kuntze, Revis. Gen. Pl. 3: 369 (1893)

NE Naturalized

Native to Tropical America, naturalized in the Tropics of the Old World. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Litoral: Evinayong, Servicio Agronómico, *Guinea* 457 (MA-835053). Río Muni: El Muni, *s.n.* (MA-5882).

Previously reported from Litoral (Lejoly & Lisowski 1998: 171)

Sporobolus virginicus (L.) Kunth, Révis. Gramin. 1: 67 (1829)

NE Native

Native to the Tropics & Subtropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Karroo Namib Region; Cape Region; Madagascan Region. Also known from Annobón.

Previously reported from Litoral (Lejoly & Lisowski 1998: 172; 1999a: 101)

Stenotaphrum secundatum (Walter) Kuntze, Revis. Gen. Pl. 2: 794 (1891)

LC Native

Native from SE. U.S.A. to E. & S. South America and W. Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from

Annobón and Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 172; 1999a: 101; Guinea 1946: 65, 88b, 154, 170) and Río Muni, without any precise locality (Guinea 1946: 86, 232).

Streptogyna crinita P.Beauv., Ess. Agrostogr. 80, tab. 16, fig. 8 (1812)

NE Native

Native to Tropical Africa and India. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Kie Ntem: Nsoc Nsomo, camino que va desde Nsoc Nsomo a Bata, Mocomo, *Cabezas & al.* 1275 (MA-831865); Akam, *Fero & Esono* 56 (MA-808145), 156 (MA-808745); Eloan, carretera Ebebiyi-Mongomo, *Pérez Viso* 4289 (MA-713659).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 172) and Río Muni, without any precise locality (Guinea 1946: 236).

Zea mays L., Sp. Pl.: 971 (1753)

LC Introduced

Native from Central & SW. Mexico to W. Guatemala, cultivated and naturalized worldwide. Probably all Africa. Also known from Bioko.

Previously reported from Río Muni, without any precise locality (Guinea 1946: 237)

SMILACACEAE

Smilax anceps Willd., Sp. Pl. 4: 782 (1806)

NE Native

Native to Tropical Africa and Madagascar. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Centro Sur: P.N. Monte Alén, Engong, subida a las praderas., *Pérez Viso* 665 (MA-714638). Litoral: Ayamiken: Río Campo, *Pérez Viso* 2827 (MA-690385); Bata-Sendge (Senye), *Carvalho* 5175 (MA-599471, MO, WAG). Wele Nzas: Eviam, Aconibe-Acurenem, *Pérez Viso* 1837 (MA-745480); Akok, carretera Acurenem-Aconibe, *Pérez Viso* 2043 (MA-715290).

Previously reported from Litoral (Lejoly & Lisowski 1998: 172)

STRELITZIACEAE

Ravenala madagascariensis Sonn., Voy. Ind. Orient. 2: 223 (1782)

LC Cultivated

Native to Madagascar, cultivated worldwide. Africa. Also known from Bioko.

Litoral: Bata-Asonga, *Carvalho* 5374 (BRLU, MA-598266, MO, WAG).

Previously reported from Río Muni, without any precise locality (Guinea 1946: 259)

VELLOZIACEAE

Xerophyta schnizleinia (Hochst.) Baker in J. Bot. 13: 235 (1875)

NE Native

Tropical Africa. Sudano-Zambezian Region (Somalo-Ethiopian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Río Muni, without any precise locality (Guinea 1946: 258)

XYRIDACEAE

Xyris anceps Lam., Tabl. Encycl.: 132 (1791)

LC Native

Native to Tropical America and Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region.

Litoral: Ayamiken, Río Campo, *Pérez Viso 2825bis* (MA-703131); Etembue, *Guinea s.n.* (MA-703130).

Previously reported from Río Muni, without any precise locality (Guinea 1946: 251).

Xyris capensis Thunb., Prod. Pl. Cap.: 12 (1794)

LC Native

Native to the Tropics and Subtropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region.

Litoral: Elende, *Lisowski 1053* (BRLU); S de Bata, fleuve Ecucu, *Lisowski 1224* (BRLU); pradera de Baga (réserve de Ndote), *Eneme & Lejoly 136* (BRLU); Bolondo, *Guinea 41* (MA-709051); *718* (MA-687711); Bata-Pembe, praderas de Pembe, *Carvalho 5546* (MA-598749, MO, WAG); Bata, Bome, ao longo do rio Boara, *Carvalho 4681* (MA-597471, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 173; Guinea 1946: 176b, 178) and Río Muni, without any precise locality (Guinea 1946: 251).

Xyris congensis Büttner in Verh. Bot. Vereins Prov. Brandenburg 31: 71 (1890)

LC Native

Native to Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region.

Litoral: Ndote Nord, village Jandje, *Lisowski 29* (BRLU); S de Bata, au S du fleuve Ekuku, *Lisowski 1606* (BRLU); Corisco Bay [Ilobi Island, Islas Elobeyes], *Mann 1858* (K-321243).

Previously reported from Litoral (Lejoly & Lisowski 1998: 173).

Xyris decipiens N.E.Br. in Dyer (ed.), Fl. Cap. 7: 3 (1897)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Etembue, *Guinea* 466 (MA-687703), 894-2 (MA-687709), 907 (MA-687710); *Obama & Lejoly* 596 (BRLU); *Lisowski* 529, 560 (BRLU); *Del Val s.n.* (MA-723929); Bata, Bome, *Carvalho* 4689 (MA-597466, MO, WAG).

Previously reported from Río Muni, without any precise locality (Guinea 1946: 251).

Xyris straminea L.A.Nilsson in Ofvers. Forh. Kongl. Svenska Vetensk.-Akad. 1891: 153 (1891)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Etembue, *Guinea* 894-1 (MA-687708)

ZINGIBERACEAE

Aframomum alboviolaceum (Ridl.) K.Schum. in Engl. (ed.), Pflanzenr. IV. 46: 207 (1904)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Centro Sur: Distrito de Niefang, poblado de Mongo-Esamongom, subida al monte Nvona, *Gómez Marín & al.* 124 (MA-856954). Kie Ntem: Ngomgom, poblado de la pista que va de Nsoc Nsomo a Bata, *Barberá & al.* 55 (MA-831644). Litoral: Bata, *Castelo, Cabeza & Juste s.n.* (MA-319722).

Previously reported from Centro Sur (Guinea 1946: 184i), Litoral (Guinea 1946: 88h) and Río Muni, without any precise locality (Guinea 1946: 260)

Aframomum arundinaceum (Oliv. & Hanb.) K.Schum. in Engl. (ed.), Pflanzenr. IV. 46: 205 (1904)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Corisco Bay [Ilobi Island, Islas Elobeyes], *Mann* 1903 (K).

Previously reported from Centro Sur (Harris & Wortley 2018: 64), Litoral (Oliver &

Hanbury 1864: 109) and Wele Nzas (Harris & Wortley 2018: 64)

Aframomum cereum (Hook.f.) K.Schum. in Engl. (ed.), Pflanzenr. IV. 46: 210 (1904)
NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Utonde, camino que va de la orilla del río a la carretera de Bata, *Barberá & al.* 256 (MA-843782); pradera de Baga (réserve de Ndote), *Eneme & Lejoly* 105 (BRLU); Ndote Nord, environs du village Jandje, *Lisowski* 68 (BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 173; Harris & Wortley 2018: 96).

Although Lock (1980: 310) considers that the correct name for this highly variable group of taxa should be *A. sceptrum* (including *A. masuianum* and *A. cereum*) we follow the African Plants Database's criteria [<https://africanplantdatabase.ch/en/nomen/20186>], and consider *A. cereum* as the reference name.

Aframomum chrysanthum Lock in Bull. Jard. Bot. Belg. 48: 396 (1978)
LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Río Campo, cerca de Bongoro, *Pérez Viso* 2188 (MA-690400)

Aframomum citratum (C. Pereira) K.Schum. in Engl. (ed.), Pflanzenr. IV. 46: 214 (1904)
LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Mitong, estuaire de Río Muni, *Nguema & Lejoly* 45 (BRLU)

Previously reported from Litoral (Lejoly & Lisowski 1998: 173)

Aframomum daniellii (Hook.f.) K.Schum. in Engl. (ed.), Pflanzenr. IV. 46: 218 (1904)
LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: SE P.N. Monte Alén, S du río Laña, près de la cabaña ECOFAC de Misergue, *Senterre & Obiang* 3385 (BRLU), 2897 (BRLU); P.N. Monte Alén, dalle rocheuse de Monte Alén, *Parmentier & Esono* 3078 (BRLU); P.N. Monte Alén, 5 km à l'O du village d'Engong, *Parmentier & Esono* 2734 (BRLU), 2752 (BRLU); *Lejoly* 99/437 (BRLU); Monte Alén, *Sabater Pí* 2 (K). Litoral: Mitong, estuaire du Río Muni, *Nguema & Lejoly* 46 (BRLU); reserva de Río Campo, Ayamiken, 3 km au N du village, *Lejoly* 97/026 (BRLU); Bata-Bome, *Carvalho* 5373 (MA-598270, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 173; Harris & Wortley 2018: 45; Lock 1978: 395) and Río Muni, without any precise locality (Harris & Wortley 2018: 45; Guinea 1946: 260).

Aframomum giganteum K.Schum. in Engl. (ed.), Pflanzenr. IV. 46: 212 (1904)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, 3 km à l'O de la station ECOFAC, *Parmentier 1554* (BRLU); *Lejoly 99/392* (BRLU). Litoral: río Mbambala, campement Shimmer km 16, entre Río Muni y Monte Mitra, *Nguema & Lejoly 30* (BRLU); Ayamiken, reserva de Río Campo, *Obama 112* (BRLU); *Lisowski 940* (BRLU); reserva de Río Campo, Ayamiken, 3 km au N du village, *Lejoly 97/071* (BRLU). Wele Nzas: Dalle rocheuse à 3 km au S de Asoc, *Lejoly 99/302* (BRLU).

Previously reported from Centro Sur (Harris & Wortley 2018: 173), Litoral (Lejoly & Lisowski 1998: 173; Harris & Wortley 2018: 173) and Río Muni, without any precise locality (Harris & Wortley 2018: 173)

Aframomum limbatum (Oliv. & Hanb.) K.Schum. in Engl. (ed.), Pflanzenr. IV. 46: 215 (1904)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Monte Alén, *Sabater Pí 1* (K)

Aframomum mannii (Oliv. & Hanb.) K.Schum. in Engl. (ed.), Pflanzenr. IV. 46: 209 (1904)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Corisco Bay [Ilobi Island, Islas Elobey], *Mann 1902* (K).

Previously reported from Litoral (Oliver & Hanbury 1864: 110)

Aframomum melegueta (Roscoe) K.Schum. in Engl. (ed.), Pflanzenr. IV. 46: 204 (1904)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, 5 km à l'O du village d'Engong, *Parmentier & Esono 2758* (BRLU).

Previously reported from Centro Sur (Guinea 1946: 143) and Río Muni, without any precise locality (Harris & Wortley 2018: 67; Guinea 1946: 260, 261).

Aframomum sericeum Dhetchuvi & D.J.Harris in Phytotaxa 28: 31-34 (2011)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Harris & Wortley 2018: 86; Dhetchuvi *et al.* 2011: 33).

Aframomum subsericeum (Oliv. & Hanb.) K.Schum. in Engl. (ed.), Pflanzenr. IV. 46: 217 (1904) subsp. **subsericeum**

NE Native

Native to W. Central Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Sendje-Ongamnsok, *Lejoly 01/13* (BRLU). Litoral: Ayamiken, reserva de Río Campo, *Obama 154* (BRLU).

Previously reported from Centro Sur (Harris & Wortley 2018: 80) and Litoral (Harris & Wortley 2018: 80; Oliver & Hanbury 1864: 110; Lock 1980: 306)

Renealmia africana Benth. ex Hook.f. in Hook. (ed.), Icon. Pl. 15, tab. 1430 (1883)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Engong, *Pérez Viso 2693* (MA-702101); P.N. Monte Alén, Misergue-Churu, *Pérez Viso 1654* (MA-702099); P.N. Monte Alén, Engong, camino hacia Lovayat, *Pérez Viso 844* (MA-689881). Litoral: Bebai, Campogebiet [región de Campo], *Tessmann 649a* (K); Adjiaikom, *Sabater Pí 4* (K); Bata-Niefang, estrada km 35, entre los ríos Sama y Comayá, *Carvalho 5836* (MA-609815). Wele Nzas: Akok, carretera Acurenam-Aconibe, *Pérez Viso 2009* (MA-688929)

Renealmia cabrae De Wild. & T.Durand in Bull. Soc. Roy. Bot. Belg., Compt. Rend. 38: 145 (1899)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: SO P.N. Monte Alén, 2 km au NE du site de traversée du río Wele, *Senterre & Nguema 3047* (BRLU); SE P.N. Monte Alén, S du río Laña, près de la cabaña ECOFAC de Misergue, *Senterre & Obiang 3384* (BRLU); N P.N. Monte Alén, 2 km au NO du transect ECOFAC de Monte Chocolate, *Senterre & Obiang 3800* (BRLU); P.N. Monte Alén, près de la piste longeant par le N le transect de Monte Alén, près du mirador, *Senterre & al. 2161* (BRLU); P.N. Monte Alén, transect de Monte Alén-Cabaña Bong, *Senterre & Obiang 2583* (BRLU).

Renealmia cincinnata (K.Schum.) T.Durand & Schinz, Consp. Fl. Afric. 5: 130 (1894)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province,

Congolian Province).

Centro Sur: SO P.N. Monte Alén, entre la station ECOFAC de Mosumo y Monte Boracho, *Senterre & Ngomo* 727 (BRLU); SO P.N. Monte Alén, 2 km au NE du site de traversée du río Uolo [Wele], *Senterre & al.* 2054 (BRLU); 2387 (BRLU); Monte Alén, Moca, *Obama* 960 (BRLU); Bicurga, *Lejoly* 99/469 (BRLU); P.N. Monte Alén, Misergue-Churu, *Pérez Viso* 1662 (MA-702098). Litoral: Pista Sendje-Evinayong, camino dentro del PN Monte Alén, *Cabezas & al.* 2100bis (MA-884362, 884363); along river Metom, off the road NW 52 km from Bata on the río Benito road, tributary to the river Benito, *Sandford* 5819 (K); SO de Ayamiken, *Obama* 198 (K); Sendje, *Pérez Viso* 1632 (MA-702097). Wele Nzaz: entre Nsuameyong et inselberg Akuom, *Obama & Lejoly* 442 (BRLU); 443 (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 174) and Litoral (Guinea 1946: 157).

Renealmia congoensis Gagnep. in Bull. Soc. Bot. France 49: 30 (1902)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: SO P.N. Monte Alén, 2 km au NE du site traversée du río Uolo [Wele], *Senterre & al.* 2080 (BRLU); SO P.N. Monte Alén, entre la station ECOFAC de Mosumo y Monte Boracho, *Senterre & Ngomo* 280 (BRLU); SE P.N. Monte Alén, au S du río Laña, près de la cabaña ECOFAC de Misergue, *Senterre & Obiang* 3386 (BRLU); P.N. Monte Alén, Esamalang, *Pérez Viso* 3279 (MA-702103); P.N. Monte Alén, Moka, subida al monte Alén, por el camino que va a Bong, *Pérez Viso* 824 (MA-689857). Litoral: Bata-Niefang, *Carvalho* 5640 (MA-598556, MO, WAG).

Renealmia congolana De Wild. & T.Durand in Bull. Soc. Roy. Bot. Belg., Compt. Rend. 38: 144 (1899)

NE Doubtful

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Guinea 1946: 143)

Renealmia macrocolea K.Schum. in Engl. (ed.), Pflanzenr. IV. 46: 294 (1904)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: SE P.N. Monte Alén, près du transect ECOFAC de Enkumekien [Ncumekie], *Senterre & Obiang* 3640 (BRLU); transect de Enkumekien [Ncumekie], *Desmet & al.* 113 (BRLU), 136 (BRLU); Esamalan, *Desmet & al.* 326 (BRLU).

Renealmia polypus Gagnep. in Bull. Soc. Bot. France 55(Sess. Extraord.): 40 (1908)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Sendje-Ongamnsok, *Lejoly 01/10* (BRLU); P.N. Monte Alén, *Ngomo 47* (BRLU), *408* (BRLU); Bicurga, inselberg de Bicurga, *Parmentier 1646* (BRLU).

Litoral: Ayamiken, reserva de Río Campo, *Obama 144* (BRLU). Wele Nzas: région d'Añisok, village Nzuamayong, inselberg Akuom, *Lisowski 727* (BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 174) and Wele Nzas (Lejoly & Lisowski 1998: 174).

Zingiber officinale Roscoe in Trans. Linn. Soc. London 8: 348 (1807)

DD Cultivated

Probably native to India and Tropical China, elsewhere cultivated in the Tropics. Cultivated in Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni, without any precise locality (Guinea 1946: 260).

EUDICOTS

ACANTHACEAE

Acanthus latisepalus C.B.Clarke in Oliv. (ed.), Fl. Trop. Afr. 5: 108 (1899)

VU Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Centro Sur: P.N. Monte Alén, Mosumo, confluence Río Laña avec Río Mbini, *Obama & Lejoly 679* (BATA).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 1).

Acanthus montanus (Nees) T.Anderson in J. Proc. Linn. Soc., Bot. 7: 37 (1864)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Mboete, *Eneme Efua 398* (BATA, WAG). Wele Nzas: Eyamayon, *Del Val s.n.* (MA-696850, 696852)

Previously reported from Litoral (Lejoly & Lisowski 1998: 1).

Acanthus spinosus L., Sp. Pl.: 639 (1753)

NE Introduced

North Africa and South Europe. Cultivated and probably naturalized.

Previously reported from Río Muni without any precise locality (Del Val 1942: 71). We have not found any herbarium specimen supporting this record, nonetheless, the species is widely cultivated which besides its ecological features makes its presence in

Equatorial Guinea reliable.

Anisotes macrophyllus (Lindau) Heine, in Aubrév. (ed.), Fl. Gabon 13: 189 (1966)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: pista Sendje-Bisun, *Cabezas & al.* 2112 (MA-884314).

Not previously reported from Equatorial Guinea.

Asystasia buettneri Lindau in Bot. Jahrb. Syst. 20: 37 (1894)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: carretera de Mbini-Bata, a 10 km del cruce Akoakam, *Fero & al.* 294 (MA-844593); Utonde, camino que va de la orilla del río a la carretera de Bata, *Barberá & al.* 272 (MA-844254); Benito, en la costa, *Guinea* 337 (MA-699488).

Although this is a very common species, it has not been previously reported from Equatorial Guinea.

Asystasia decipiens Heine in Kew Bull. 16: 169 (1962)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Wele Nzaz: inselberg Akuom, *Obama & Lejoly* 423 (BATA).

Previously reported from Wele Nzaz (*Lejoly & Lisowski* 1998: 1; 1999a: 120).

Asystasia gangetica (L.) T.Anderson, Enum. Pl. Zeyl.: 235 (1860)

NE Native

Pantropical. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Annobon and Bioko.

Centro Sur: Miyobo, carretera Niefang-Mosumu, senda hacia el río Laña, *Pérez Viso* 2518 (MA-745694); Bata, Asonga, *Pérez Viso* 1415 (MA-713726); P.N. Monte Alén, carretera de Moka a Bicurga, *Pérez Viso* 140 (MA-710775). Kie Ntem: Nsok Nsomo, camino que va desde Nsok Nsomo a Bata, a unos 3 km de Nsok Nsomo, Mocomo, *Cabezas & al.* 1235A (MA-831932); Akam, carretera hacia Nsok-Nsomo, *Fero & Esono* 104 (MA-808740). Litoral: Conisio, distrito de Kogo, *Obama* 728 (WAG); Corisco, barra de arena de Hoco, *Pérez Viso* 1998 (MA-710777); costa de Bata, *Del Val s.n.* (MA-702223).

Previously reported from Centro Sur (*Lejoly & Lisowski* 1998: 1) and Litoral (*Lejoly &*

Lisowski 1998: 1; Guinea 1946: 159, 344d).

Asystasia macrophylla (T.Anderson) Lindau in Engl. & Prantl (eds.), Nat. Pflanzenfam. 4(3b): 326 (1895)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Río Campo, cerca de Bongoro, *Pérez Viso* 2230 (MA-713721); Bata-Niefang, estrada km. 32, Minkan, río Ecucu, *Carvalho* 4742 (MA-597934, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 2), Litoral (Lejoly & Lisowski 1998: 2; Guinea 1946: 159) and Wele Nzas (Guinea 1946: 152).

Asystasia vogeliana Benth. in Hook. (ed.), Niger Fl.: 479 (1849)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Engong, camino de el Lago, *Velayos & al.* 9496 (MA-717533). Wele Nzas: Bimbile, *Guinea* 147 (MA-699497).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 2) and Litoral (Guinea 1946: 156, 157).

Avicennia germinans (L.) L., Sp. Pl., ed. 3, 2: 891 (1764)

LC Native

Native to SE of N America, MesoAmerica, North of S America, and W Tropical Africa. Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Mbini, proximidades del nuevo puente Mbini-Bolondo, sobre el río Wele, *Fero & al.* 290 (MA-844597); Río Benito, *Guinea* 412-853 (MA-715325); 414-979 (MA-715324), 451 (MA-390457). Río Muni: [without locality], *Eneme Efua* 458 (BATA, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 21; Guinea 1946: 165, 167, 168j, 184) and Río Muni without any precise locality (Guinea 1946: 351).

Brachystephanus mannii C.B.Clarke in Oliv. (ed.), Fl. Trop. Africa 5: 149 (1900)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 5). We have not found any herbarium specimen supporting this record. The author apparently indicates some doubt on the identity of the species. Nonetheless, the distribution range and ecological requirements of the species makes its presence in Río Muni reliable.

Brillantaisia lamium (Nees) Benth. in Hook. (ed.), Niger Fl.: 477 (1849)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Wele Nzas: région d'Añisok, au-dessus du village Nsuameyong, inselberg Akuom, *Lisowski M-696* (BATA). Río Muni: [Without locality], *Eneme Efua 215* (BATA, WAG).

Previously reported from Centro Sur (Guinea 1946: 184i, 200d, 216d, 320f) and Wele Nzas (Lejoly & Lisowski 1998: 2; Guinea 1946: 152).

Brillantaisia lancifolia Lindau in Bot. Jahrb. Syst. 17: 98 (1893)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Crystal Mountains, 12 km NE of Okuamkos, *Wilks 1753* (MO, WAG).

Not previously reported from Equatorial Guinea.

Brillantaisia owariensis P.Beauv., Fl. Oware 2: 68, tab. 100 (1818)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Kie Ntem: Ebon-Oyac, Ebebiyin, *Pérez Viso 4332* (MA-714069). Río Muni: [without precise locality], *Del Val s.n.* (MA-696847, 696849). Wele Nzas: Asok, Tsuma, *Del Val s.n.* (MA-715601); Tyamayon, *Del Val s.n.* (MA-696848).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 2), Wele Nzas (Guinea 1946: 152) and from Río Muni, without any precise locality (Del Val 1942:71).

Brillantaisia vogeliana (Nees) Benth. in Hook. (ed.), Niger Fl.: 477 (1849)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Esamalang, camino hacia Mondung, *Pérez Viso 1144* (MA-725799); Evinayong, *Guinea 510* (MA-699492). Litoral: estuaire de Río Muni, Mitong, *Nguema & Lejoly 39* (BATA). Wele Nzas: Akok, carretera Acurenam-Aconibe, *Pérez Viso 2060* (MA-715595).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 2), Litoral (Lejoly & Lisowski 1998: 2; Guinea 1946: 157) and Wele Nzas (Lejoly & Lisowski 1998: 2; Guinea 1946: 152).

Champluviera populifolia (C.B.Clarke) I.Darbysh. & T.F.Daniel in Kew Bull. 74/39:

9 (2019)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Wele Nzaz: Eviam, carretera forestal de Bata a Niefang, *Pérez Viso* 2646 (MA-745699).

Not previously reported from Río Muni.

Chlamydocardia buettneri Lindau in Bot. Jahrb. Syst. 20: 39 (1894)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Wele Nzaz (Guinea 1946: 152). We have not found any herbarium specimen supporting this record, nonetheless the distribution range and the ecological features of the species makes its presence in Río Muni reliable.

Crossandrella dusenii (Lindau) S.Moore, Cat. Pl. Oban.: 74 (1913)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: near ECOFAC-Hotel, base of Mount Alén, *de Wilde* 12029 (WAG); P.N. Monte Alén, Engong, *Velayos & al.* 10007 (MA-707069).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 2) and from Río Muni without any precise locality (Hepper 1963: 412; Hutchinson 1931: 260).

Dicliptera elliotii C.B.Clarke in Oliv. (ed.), Fl. Trop. Afr. 5: 258 (1900)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Litoral: Bata-Sendje, estrada km 40, río Benito, *Carvalho* 5370 (MA-598267, MO, WAG); district Rio Mbini, village Sendje, Rio Uele [Wele], *Lisowski* M-1249 (BATA).

Previously reported from Litoral (Lejoly & Lisowski 1998: 3).

Dicliptera verticillata (Forssk.) C.Chr. in Dansk Bot. Ark. 4(3): 11 (1922)

LC Native

Tropical Africa, Pakistan and India. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region. Known also from Annobon and Bioko.

Litoral: Ndote Sud, près du village Etembue, *Lisowski* M-505 (BATA).

Previously reported from Litoral (Lejoly & Lisowski 1998: 3).

Dischistocalyx champluvieranus Lejoly & Lisowski in Bull. Jard. Bot. Nat. Belg. 67: 107 (1999)

EN Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Litoral: estuaire du Rio Muni, village Mayang, *Lisowski M-844* (BATA).

Previously reported from Litoral (Lejoly & Lisowski 1998: 3; 1999a: 108).

Dischistocalyx grandifolius C.B. Clarke in Oliv. (ed.), Fl. Trop. Afr. 5: 61 (1899)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Mosumu, alrededores de las cataratas del río Laña, *Pérez Viso 1259* (MA-745693).

Not previously reported from Equatorial Guinea.

Dischistocalyx hirsutus C.B. Clarke in Oliv. (ed.), Fl. Trop. Afr. 5: 61 (1899)

LC Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Centro Sur: Mount Alen, de *Wilde 12036* (WAG); P.N. Monte Alén, Bong, senda que va hacia el lago Atok, *Pérez Viso 249* (MA-745625). Litoral: Route de Nco vers Misobong au niveau de la grande cascade, *Nguema & Lejoly 194* (MA-611880); *200* (MA-611884). Wele Nzaz: Eviam, carretera forestal de Bata a Niefang, *Pérez Viso 2598* (MA-745697).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 3; 1999a: 108) and Litoral (Lejoly & Lisowski 1998: 3; 1999a: 108).

Dischistocalyx klainei Benoist in Bull. Soc. Bot. France 85: 681 (1938) [1939]

NE Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Litoral: poblado de Mitom, Mbini, *Obama 863* (BATA, WAG).

Not previously reported from Equatorial Guinea.

Dischistocalyx minimus Champl. & Senterre in Pl. Ecol. Evol. 143(2): 188 (2010)

NE Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Centro Sur: near ECOFAC-Hotel, base of Mount Alen, *de Wilde 12024* (WAG).

Not previously reported from Equatorial Guinea.

Dischistocalyx thunbergiiflorus (T.Anderson) Benth. ex C.B.Clarke in Oliv. (ed.), Fl. Trop. Afr. 5: 62 (1899)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Río Mbambala, *Nguema & Lejoly* 7 (BATA).

Previously reported from Litoral (Lejoly & Lisowski 1998: 3)

Dyschoriste nagchana (Nees) Bennet in Indian Forester 109: 220 (1983)

NE Native

India and Tropical Africa. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Litoral: estuaire du Rio Muni, village Mayang, *Lisowski, M-1242* (BATA)

Previously reported from Litoral (Lejoly & Lisowski 1998: 3).

Elytraria marginata Vahl, Enum. Pl. 1: 108 (1804)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: Bata-Niefang, estrada km 35, Mboete, *Carvalho* 5655 (MA, MO, WAG).

Litoral: carretera de Mbini, antigua trocha forestal, *Pérez Viso* 3348 (MA-745696).

Wele Nzas: Alum, entre Mikomeseng y Nkue, *Pérez Viso* 3051 (MA-713724).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 3; Guinea 1946: 152)

Eremomastax speciosa (Hochst.) Cufod. in Bull. Jard. Bot. État Brux. 34(Suppl.): 931 (1964)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alen, 5 km au NO de Engong, *Lejoly* 99/063 (MA-621711).

Wele Nzas: inselberg Dumu, *Obama & Lejoly* 529 (BATA); inselberg Mfui, *Obama & Lejoly* 382 (BATA).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 4; 1999a: 118).

Graptophyllum glandulosum Turrill in Bull. Misc. Inform. Kew 1912: 331 (1912)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province)

Previously reported from Wele Nzaz (Guinea 1946: 152). We have not found any herbarium specimen supporting this record, nonetheless, the distribution range and ecological requirements of the species makes its presence in the studied region reliable.

Hypoestes aristata (Vahl) Sol. ex Roem. & Schult., Syst. Veg. 1: 140 (1817)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province). Cape Region. Also known from Bioko.

Wele Nzaz: Bimbile, *Guinea* 93 (MA-699486).

Previously reported from Wele Nzaz (Guinea 1946: 147, 152).

Hypoestes rosea P.Beauv., Fl. Oware 2: 66, tab. 100 (1818)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 159). We have not found any herbarium specimen supporting this record, nonetheless the distribution range and ecological requirements of the species makes its presence in Equatorial Guinea reliable.

Hypoestes triflora (Forssk.) Roem. & Schult., Syst. Veg. 1: 141 (1817)

NE Native

Paleotropics and S. Africa, SW. Arabian Peninsula, India and Thailand. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province). Also known from Bioko.

Previously reported from Wele Nzaz (Guinea 1946: 152). We have not found any herbarium specimen supporting this record, nonetheless the distribution range and ecological features of the species makes its presence in Equatorial Guinea reliable.

Justicia baronii V.A.W.Graham in Kew Bull. 43(4): 588 (1988)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Miyobo, carretera Niefang-Mosumu, senda hacia el río Laña, *Pérez Viso* 2561 (MA-745695).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 1).

Justicia bolomboensis De Wild. in Ann. Mus. Congo Belge, Bot. 5, 3: 176 (1910)

DD Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province,

Congolian Province).

Centro Sur: P.N. Monte Alén, Engong, *Velayos & al.* 9997 (MA-705022); Mosumo, desde la cabaña de las cataratas hasta las cataratas del Laña, *Aedo & al.* 5129 (MA-718269).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 1).

Justicia diclipterooides subsp. **nierensis** (Mildbr.) Hedrén in Bull. Mus. Natl. Hist. Nat., B, Adansonia, sér. 4 10: 363 (1989)

VU Native

Tropical Africa. Sudano-Zambezian Region (Somalo-Ethiopian Province); Guineo-Congolian Region (Congolian Province).

Río Muni: Bata-Monte Alen, *Carvalho* 5489 (MA, MO, WAG).

Not previously reported from Equatorial Guinea.

Justicia extensa T.Anderson in J. Linn. Soc. Bot. 7: 44 (1863)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Ayamiken, *Lisowski M-931* (BATA); Ncó, 5 km vers ENE, *Nguema & Lejoly* 169 (BATA).

Previously reported from Litoral (Lejoly & Lisowski 1998: 4).

Justicia insularis T.Anderson in J. Linn. Soc. Bot. 7: 40 (1864)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: c. 11 km S of Niefang, Mount Alen National Park, *de Wilde* 12001 (BATA, WAG). Litoral: Bata-Senye (Senge), estrada km 20-21, *Carvalho* 5152 (MA-599631, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 4; Morton 1978: 445) and Wele Nzaz (Lejoly, J. & Lisowski (1999a: 119; 1998: 4; Guinea 1946: 152)

Justicia laxa T.Anderson in J. Linn. Soc. Bot. 7: 43 (1864)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Monte Bata-Mbubuin, estrada kms. 30, Mbubuin, *Carvalho* 5095 (MA-599731, MO, WAG). Wele Nzaz: Abama, 6 km au N de Nsork, *Obama & Lejoly* 582 (BATA). Río Muni: [without locality], *Eneme Efua* 438 (BATA)

Previously reported from Litoral (Guinea 1946: 157) and Wele Nzaz (Lejoly & Lisowski 1998: 4; Guinea 1946: 147).

Justicia preussii (Lindau) C.B. Clarke in Oliv. (ed.), Fl. Trop. Afr. 5: 204 (1900)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata, Zamanguila, *Carvalho* 6238 (MA-620301, WAG).

Not previously reported from Equatorial Guinea.

Justicia tenella (Nees) T. Anderson in J. Linn. Soc. Bot. 7: 40 (1864)

NE Native

Tropical Africa and Madagascar. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Madagascan Region. Also known from Bioko.

Centro Sur: Evinayong, *Guinea* 308-467 (MA-699489). Litoral: Ayamiken, *Lisowski* M-1056 (BATA). Wele Nzaz: entre Nsuameyong et inselberg Akuom, *Obama & Lejoly* 464 (BATA).

Previously reported from Centro Sur (Guinea 1946: 320f), Litoral (Lejoly & Lisowski 1998: 4) and Wele Nzaz (Lejoly & Lisowski 1998: 4; Guinea 1946: 152).

Lankesteria elegans (P. Beauv.) T. Anderson in J. Linn. Soc., Bot. 7: 33 (1863)

NE Native

Centro Sur: P.N. Monte Alén, Monte Chocolate, *Pérez Viso* 4041 (MA-745706); P.N. Monte Alén, Engong, *Velayos & al.* 10009 (MA-707067). Litoral: Bata-Mbubuin-San Joaquin de Ndyjacon e Ayamiken, estrada km 4, *Carvalho* 4968 (MA-599184, MO, WAG); Bata-Niefang, estrada km 35 entre los ríos Sama y Comayá, *Carvalho* 5657 (MA-593449, MO, WAG). Río Muni: Bimbile, *Guinea* 157-266 (MA-714169); Wele Nzaz: Mbiet, Añisok, *Pérez Viso* 3592 (MA-745705); Añisok-Mongola, *Pérez Viso* 3761 (MA-714161).

Previously reported from Centro Sur (Guinea 1946: 184i), Litoral (Lejoly & Lisowski 1998: 4) and Wele Nzaz (Lejoly & Lisowski 1998: 4; Guinea 1946: 147, 152).

Lepidagathis alopecuroides (Vahl) R.Br. ex Griseb., Fl. Brit. W. I. 453 (1862)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Mbini, estrada km. 24, Anguok, *Carvalho* 5450 (MA-609778, MO, WAG).

Not previously reported from Equatorial Guinea.

Mendoncia gilgiana (Lindau) Benoist in Bull. Soc. Bot. France 85: 679 (1939)
NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Niefang-Monte Alén, estrada km. 90-91, próximo a Niefang, *Carvalho* 5376 (MA-598264, MO, WAG).

Not previously reported from Equatorial Guinea.

Mendoncia lindaviana (Gilg.) Benoist in Mém. Soc. Linn. Normandie, Bot. 1: 44 (1928)
NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, transect de Monte Alén, *Lejoly* 94/130 (BATA). Litoral: réserve de Ndote, près du village Engong, *Lisowski M-1190* (BATA)

Previously reported from Centro Sur (*Lejoly & Lisowski* 1998: 4) and Litoral (*Lejoly & Lisowski* 1998: 4)

Mendoncia phytocrenoides (Gilg) Benoist in Mém. Soc. Linn. Normandie, Bot. 1(2): 44 (1928)
NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Niefang, estrada km 35, Mboete, *Carvalho* 5656 (MA, WAG). Litoral: river Muni, *Mann* 1839 (K, P).

Not previously reported from Equatorial Guinea.

Nelsonia canescens (Lam.) Spreng., Syst. Veg., ed. 16 1: 42 (1825)
LC Native

Paleotropical and Paleo Subtropical. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Asonga, Jardines de Cooperación Española de Asonga, *Carvalho* 5589 (MA-598814, 833156, MO, WAG); Benito, *Guinea* 341-1046 (MA-699490).

Previously reported from Litoral (Guinea 1946: 157, 159, 328c) and Río Muni without any precise locality (Morton 1979: 400).

Nelsonia smithii Oerst. in Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn 1854 (8-12): 119, pl. 2 fig. 13 (1855)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Litoral: Ayamiken, *Lisowski M-416* (BATA); Corisco Bay, *Mann 1869* (K); Bata, *Davis 233* (K), *Lisowski M-232* (BATA).

Previously reported from Litoral (Lejoly & Lisowski 1998: 4; Morton 1979: 400, 401).

Phaulopsis angolana S.Moore in J. Bot. 18: 229 (1880)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Bata-Monte Alen-Engong, área de povoação de Asoc, *Carvalho 5531* (MA-745700, MO, WAG). Litoral: Ndote Nord, village Jandje, *Lisowski M-263, 1171*). Wele Nzas: inselberg Akuom, *Obama & Lejoly 422* (BATA); Acasakira, 3 km au S de Nsork, *Obama & Lejoly 541* (BATA). Río Muni: [without locality], *Eneme Efua 191* (BATA, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 5), Wele Nzas (Lejoly & Lisowski 1998: 5; 1999a: 120) and Río Muni without any precise locality (Manktelow 1996: 103).

Phaulopsis micrantha (Benth.) C.B.Clarke in Oliv. (ed.), Fl. Trop. Afr. 5: 85 (1899)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Annobon.

Litoral: Bata-Pembe, estrada kms. 22-23, *Carvalho 5139* (MA-599686, MO, WAG).

Not previously reported from Equatorial Guinea.

Physacanthus batanganus (G.Braun & K.Schum.) Lindau in Schltr., Westafr. Kautschuk-Exped.: 315 (1900)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Monte Alén, Mosumo, *Lisowski M-799, M-886* (BATA). Litoral: près de la frontière gabonaise, chantier forestier à l'Est de Cogo, *McPherson 13987* (LBV, MO, WAG); Ayamiken, Río Campo, *Pérez Viso 2825* (MA-745507); Bata-Mbini, estrada kms 23-24, *Carvalho 5269* (MA-598147, MO, WAG)

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 5) and Litoral (Lejoly & Lisowski 1998: 5).

Physacanthus nematosiphon (Lindau) Rendle & Britten in J. Bot. 47: 378 (1909)
NT Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Alén (15 miles from mouth of River Benito), *Bates* 593 (L).

Not previously reported from Equatorial Guinea.

Pseuderanthemum ludovicianum (Buttner) Lindau in Engl. & Prantl (eds.), Nat. Pflanzenfam. 4(3b): 330 (1895)
NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Wele Nzaz (Guinea 1946: 152). We have not found any herbarium specimen supporting this record, nonetheless, the distribution range and ecological requirements of the species makes its presence in the country reliable.

Pseuderanthemum tunicatum (Afzel.) Milne-Redh. in Bull. Misc. Inform. Kew 1936: 264 (1936)
NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Monte Alén, Mosumo, *Obama* & *Lejoly* 702 (BATA). Litoral: Sanje, River Benito, *Bates* 566 (L). Wele Nzaz: Bimbile, *Guinea* 149 (MA-699485)

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 5; Guinea 1946: 184i, 358), Litoral (Lejoly & Lisowski 1998: 5; Guinea 1946: 159) and Wele Nzaz (Lejoly & Lisowski 1998: 5; Guinea 1946: 152).

Rhinacanthus virens (Nees) Milne-Redh., Cat. Vasc. Pl. S. Tome, suppl.: 37 (1956)
LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Engong, *Pérez Viso* 2706 (MA-745701). Litoral: Conisio, distrito de Kogo, *Obama* 727 (WAG); Bata-Bome, *Carvalho* 5127 (MA-599682, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 5; Guinea 1946: 157, 159) and Wele Nzaz (Lejoly & Lisowski 1998: 5; Guinea 1946: 152, sub *R. nasutus*).

Ruellia primuloides (T.Anderson ex Benth & Hook.f.) Heine in Aubrév. (ed.), Fl. Gabon 13: 14 (1966)
LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 6), Litoral (Lejoly & Lisowski 1998: 6) and Río Muni without any precise locality (Hepper 1963: 398)

Rungia camerunensis Champl. in Syst. Geog. Pl. 70 (1): 140 (2000)
NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: near ECOFAC-Hotel, base of Mount Alén, *de Wilde 12025* (K, WAG)

Rungia congoensis C.B.Clarke in Oliv. (ed.), Fl. Trop. Afr. 5: 254 (1900)
NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, début du transect n° 2, *Lejoly 99/427* (MA-621687)

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 6) and Wele Nzas (Lejoly & Lisowski 1998: 6; Guinea 1946: 152)

Rungia paxiana (Lindau) C.B.Clarke in Bot. Jahrb. Syst. 20 63 (1894)
NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Wele Nzas (Guinea 1946: 147, 152) and Río Muni without any precise locality (Hutchinson 1931: 267). We have not found any herbarium specimen supporting these records, nonetheless, the distribution range and ecological requirements of the species makes its presence in the studied territory reliable.

Sanchezia nobilis Hook.f. in Bot. Mag. 1866, tab. 5594 (1866)
NE Cultivada

Neotropics. Cultivated and locally naturalized in Equatorial Guinea. Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 6)

Sclerochiton vogelii (Nees) T.Anderson in J. Proc. Linn. Soc., Bot. 7: 37 (1864)
LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Congolian Province).

Centro Sur: Conisio, distrito de Kogo, *Obama* 718 (WAG).

Stenandrium guineense (Nees) Vollesen in Kew Bull. 47(2): 182 (1992)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: near ECOFAC-Hotel. Base of Mount Alén, *de Wilde* 12028 (WAG); P.N. Monte Alén, subida al monte Alén, *Pérez Viso* 123 (MA-745704); 124 (MA-745690); P.N. Monte Alén, Bong, monte Alén, senda que va hacia el lago Atok, *Pérez Viso* 248 (MA-745626). Litoral: Bata-Niefang-Monte Alén, chegada de Río Otom-Asok, *Carvalho* 5359 (MA-598273, MO, WAG)

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 6), Litoral (Guinea 1946: 157) and Wele Nzas: Guinea 1946: 152)

Thunbergia erecta (Benth.) T.Anderson in J. Proc. Linn. Soc., Bot. 7: 18 (1864)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Río Muni: [without locality], *Eneme Efua* 379 (BATA, WAG)

Previously reported from Litoral (Lejoly & Lisowski 1998: 6) and Río Muni (Del Val 1942: 71)

Thunbergia vogeliana Benth. in Hook. (ed.), Niger Fl.: 476 (1849)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 154, 155)

Whitfieldia elongata (P.Beauv.) De Wild. & T.Durand in Bull. Soc. Roy. Bot.

Belgique 38: 110 (1900)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 6; 1999a: 121)

ACHARIACEAE

Dasyleps blackii (Oliv.) Chipp in Bull. Misc. Inform. Kew 265 (1923)

EN Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-

Cameroonian Province, Congolian Province).

Previously reported from Wele Nzaz (Lejoly & Lisowski 1998: 62) and Río Muni without any precise locality (Sleumer 1972c: 560; Oliver 1865: 171; Hepper 1954: 186; Hutchinson & Dalziel 1928: 159)

Poggea alata Gürke in Bot. Jahrb. Syst. 18: 162 (1894)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Sleumer 1974c: 300)

Scottellia klaineana Pierre in Bull. Mens. Soc. Linn. Paris, sér. 2 1: 113 (1898)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 63), Litoral (Guinea 1946: 330) and Río Muni without any precise locality (Sleumer 1972a: 280)

AIZOACEAE

Sesuvium portulacastrum (L.) L., Syst. Veg. (ed. 10) 2: 1058 (1759)

NE Native

Pantropical y subtropical.

Litoral: Ecuco, *Guinea* 609 (MA-707480)

Previously reported from Litoral (Lejoly & Lisowski 1998: 61; Guinea 1946: 169) and Río Muni without any precise locality (Guinea 1946: 70, 279)

AMARANTHACEAE

Achyranthes aspera L., Sp. Pl.: 204 (1753)

NE Native

Pantropical and Subtropical. Africa. Also known from Annobón and Bioko.

Centro Sur: Bisun, carretera de Niefang a Evinayong, *Pérez Viso* 3414 (MA-714178).
Wele Nzaz: Temelon, Añisok, *Pérez Viso* 4139 (MA-713718)

Previously reported from Kie Ntem (Guinea 1946: 184j) and without any precise locality Río Muni (Guinea 1946: 278).

Achyranthes bidentata Blume, Bijdr. Fl. Ned. Ind. 11: 545 (1826)

NE Native

Pantropical and subtropical. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 278)

Aerva lanata (L.) Juss. ex Schult. in Roem. & Schult. (eds.), Syst. Veg. 5: 564 (1819)

NE Native

Paleotropical. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko

Previously reported from Río Muni without any precise locality (Guinea 1946: 278).

Alternanthera littoralis P.Beauv. Fl. Oware 2: 72 (1818)

NE Native

Pantropical. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Litoral: Cabo San Juan, playa, *Guinea* 173-873 (MA-715305), 875 (MA-715306).

Previously reported from Litoral (Lejoly & Lisowski 1998: 7; 1999a: 101; Guinea 1946: 154, 169).

Alternanthera sessilis (L.) R.Br. ex DC., Cat. Pl. Horti Monsp.: 77 (1813)

LC Native

Pantropical. Africa. Also known from Annobon and Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 7).

Alternanthera tenella Colla in Mem. Reale Accad. Sci. Torino 33: 131, tab. 9, fig. 1-13 (1829)

NE Introduced

Neotropical. Naturalized in Tropical Africa.

Previously reported from Litoral (Lejoly & Lisowski 1998: 7).

Amaranthus caudatus L., Sp. Pl. 2: 990 (1753)

NE Naturalized

Native to West South America. Naturalized worldwide.

Previously reported from Río Muni without any precise locality (Cufodontis 1953: 58).

Amaranthus hybridus L., Sp. Pl.: 990 (1753)

NE Native

Native to America. Naturalized worldwide. Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 7), Litoral (Lejoly & Lisowski 1998: 7) and Río Muni without any precise locality (Guinea 1946: 277).

Amaranthus spinosus L., Sp. Pl.: 991 (1753)

NE Naturalized

Native to America. Naturalized worldwide. Also known from Annobon and Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 277).

Amaranthus viridis L., Sp. Pl., ed. 2, 2: 1405 (1763)

NE Native

Native to America. Naturalized worldwide. Also known from Annobón and Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 7) and Río Muni without any precise locality (Guinea 1946: 277).

Blutaparon vermiculare (L.) Mears in Taxon 31(1): 113 (1982)

NE Native

Tropical and Subtropical America, Tropical Africa. Native to America. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 7; 1999a: 101; Guinea 1946: 154).

Celosia argentea L., Sp. Pl.: 205 (1753)

LC Naturalized

Native to Tropical Africa, naturalized worldwide. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region. Also known from Bioko.

Litoral: Mboete, *Eneme Efua* 402 (WAG)

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 7) and Río Muni without any precise locality (Townsend 1975: 116).

Celosia globosa Schinz in Vierteljahrsschr. Naturf. Ges. Zürich 76: 137 (1931)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Wele Nzaz: Acasakira, 3 km au Sud de Nsork, *Obama & Lejoly* 547 (MA-612121)

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 7) and Wele Nzaz (Lejoly & Lisowski 1998: 7).

Celosia isertii C.C. Towns. in Hooker's Icon. Pl. 38(2): 57, t. 3736 (1975)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Río Muni without any precise locality (Townsend 1975: 58).

Celosia leptostachya Benth., Niger Fl. 491 (1849)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 8) and Wele Nzas (Lejoly & Lisowski 1998: 8).

Celosia trigyna L., Mant. Pl. Altera: 212 (1771)

NE Native

Tropical and Subtropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Annobon and Bioko.

Litoral: distrito Ayamiken, poblado de Moku, *Gómez Marín & al.* 128 (MA-856958).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 8) and Río Muni without any precise locality (Townsend 1975: 28).

Cyathula achyranthoides (Kunth) Moq. in DC., Prodr. 13(2): 326 (1849)

NE Native

Tropical and Subtropical America, Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 8)

Cyathula prostrata (L.) Blume, Bijdr. Fl. Ned. Ind. 10: 549 (1826)

NE Native

Tropics and Subtropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Annobon and Bioko.

Centro Sur: Miyobo, carretera Niefang-Mosumu, senda hacia el río Laña, *Pérez Viso* 2522 (MA). Litoral: Área de Machinda, poblado de Adam-Tum, *López Serrano* 110508, 110509, 110510 (MA).

Previously reported from Litoral (Lejoly & Lisowski 1998: 8) and Wele Nzas (Lejoly & Lisowski 1998: 8).

Gomphrena globosa L., Sp. Pl.: 224 (1753)

NE Naturalized

Native to Tropics and Subtropics of America, naturalized worldwide. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian

Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 278)

Nothosaerva brachiata (L.) Wight, Icon. Pl. Ind. Orient. 6: 1 (1853)

NE Native

Tropics and Subtropics of Asia and Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Previously reported from Río Muni without any precise locality (Cufodontis 1953: 70)

Pupalia lappacea (L.) A.Juss. in Ann. Mus. Natl. Hist. Nat. 2: 132 (1803)

LC Native

Paleotropics. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Karoo-Namib Region; Cape Region; Madagascan Region. Also known from Annobon and Bioko.

Litoral: Área de Mbini, poblado de Bilen, Bitica y Mboete, *López Serrano 190416, 190417, 190418* (MA).

Previously reported from Kie Ntem (Guinea 1946: 184j) and Río Muni without any precise locality (Guinea 1946: 277).

ANACARDIACEAE

Antrocaryon klaineanum Pierre in Bull. Mens. Soc. Linn. Paris, sér. 2 1: 24 (1898)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Monte Alén, *Cabezas 92* (MA). Litoral: Área de Machinda, poblado de Asesok, *López Serrano 280326, 280327, 280328* (MA); Bata, Miboman, km 27 carretera Bata-Movo Selva, *Castelo & al. s.n.* (MA-319777).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 8).

Lannea glabrescens Engl. in Bot. Jahrb. Syst. 46: 328 (1895)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Niefang-Monte Alen, estrada kms. 85-86, *Carvalho 5459* (MA-610084, MO, WAG). Litoral: chantier forestier à l'Est de Cogo, *McPherson 14024* (LBV, MO). Wele Nzas: Monument naturel de Piedra Nzas, dalle rocheuse d'Andom, *Lejoly 99/226* (MA-621840).

Lannea nigritana (Scott-Elliot) Keay in Bull. Jard. Bot. État 26: 204 (1956)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sahelian Province, Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzaz (Lejoly & Lisowski 1998: 8; 1999a: 120).

Lannea welwitschii (Hiern) Engl. in Bot. Jahrb. Syst. 24: 298 (1898)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanese Province, Zambezian Province, Somali-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Annobon and Bioko.

Litoral: route d'exploitation chantier SEMGE vers le 1er pont sur Mitemelé, *Dibata 449* (LBV, MO).

Mangifera indica L., Sp. Pl.: 200 (1753)

DD Cultivada

Original from East Tropical Asia. Cultivated worldwide in the Tropics and Subtropics. Also known from Annobón and Bioko.

Litoral: Área de Mbini. Poblado de Mangala y Ncua- Esis, *López Serrano 130418* (MA); Benito, *Guinea 459-993* (MA-707477).

Previously reported from Litoral (Lejoly & Lisowski 1998: 8).

Pseudospondias microcarpa (A.Rich.) Engl. in DC, Monogr. Phan. 4: 259 (1883)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanese Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobon and Bioko.

Litoral: Bata-Bome, bosque primario en margens de Río Boarß, *Carvalho 5046* (MA-599243, MO, WAG); Bata-Mbia-Exfosa, estrada km. 35, *Carvalho 5337* (MA-598175, MO, WAG); Bata: Miboman (km 27), carretera Bata-Movo, *Castelo & al. s.n.* (MA-319784). Río Muni: [without locality], *Eneme Efua 422, 486* (BATA).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 9), Litoral (Guinea 1946: 154) and Wele Nzaz (Guinea 1946: 145).

Sorindeia juglandifolia (A.Rich.) Planch. ex Oliv. in Oliv. (ed.), Fl. Trop. Afr. 1: 440 (1868)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanese Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Litoral: Monts de Cristal, 8 Km ENE d'Okuamkos, *Wilks 1766* (LBV, MO); Monts de Cristal. 10 km ENE d'Okuamkos, *Wilks 1823* (WAG-1377524).

Sorindeia oxyandra Bourobou & Breteler in Syst. Geogr. Pl. 69: 115 (1999)

DD Native

Tropical Africa. Guineo-Congolian Region (Congolian Province)

Previously recorded from Rio Muni (Breteler 2017: 23).

Sorindeia winkleri Engl. in Bot. Jahrb. Syst. 43: 413 (1909)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Monte Alen, Monte escolhido pela televisao, *Carvalho 5110* (MA-610094, MO, WAG). Litoral: Monts de Cristal, vallée de rivière Mitemelé, 10 km ENE d'Okuamkos, *Wilks 1771* (LBV, MO).

Trichoscypha acuminata Engl. in Bot. Jahrb. Syst. 1: 425 (1881)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Breteler 2017: 30).

Trichoscypha bijuga Engl. in Bot. Jahrb. Syst. 1: 425 (1881)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Breteler 2017: 30).

Trichoscypha engong Engl. & Brehmer in Bot. Jahrb. Syst. 54: 324 (1917)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Monte Alen, Moka, *Wilks 3519* (MO, WAG-1378342); Monte Alen, *Wilks 3517* (MO, WAG-1378343).

Trichoscypha laxiflora Engl. in Bot. Jahrb. Syst. 15: 110 (1892)

DD Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Breteler 2017: 37).

Trichoscypha lucens Oliv. in Oliv. (ed.), Fl. Trop. Afr. 1: 444 (1868)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian

Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Río Muni: *Mann 1749* (K).

Trichoscypha mannii Hook.f. in Benth. & Hook f. Gen. Pl. 1: 423 (1862)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Río Muni (Breteler 2017: 38).

Trichoscypha oddonii De Wild. in Ann. Mus. Congo Belge, Bot., sér. 5, 1: 282 (1906)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Río Muni (Breteler 2017: 40).

Trichoscypha oliveri Engl. in Bot. Jahrb. Syst. 1: 425 (1881)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: entre o río Sama e o río Comayá, *Carvalho 5613* (MA, MO, WAG).

Trichoscypha parviflora Engl. in Bot. Jahrb. Syst. 15: 108 (1892)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Monts de Cristal. 10 km ENE d'Okuamkos, *Wilks 1812* (WAG-1378726).

Trichoscypha patens (Oliv.) Engl. in Bot. Jahrb. Syst. 1: 425 (1881)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Río Muni: Region Continental, *Eneme Efua 478* (BATA).

Trichoscypha rubicunda Lecomte in Bull. Soc. Bot. France 52: 656 (1906)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Monts de Cristal. 11 km ENE d'Okuamkos, *Wilks 1782* (LBV, MO, WAG). Río Muni: [without locality], *Eneme Efua 471* (WAG-132060).

ANISOPHYLLEACEAE

Anisophyllea myriosticta Floret in Bull. Mus. Natl. Hist. Nat., B, Adansonia 8: 373

(1986) [publ. 1987]

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Crystal Mountains, 11 km ENE d'Okuamkos, *Wilks 1789* (LBV, MO, WAG);
Monts de Cristal. Vallée de rivière Mitemelé. 10 km ENE d'Okuamkos, *Wilks 1769*
(LBV, MO, WAG); 3 km ESE de Okuamos, *Wilks 1726* (LBV, WAG).

Anisophyllea polyneura Floret in Bull. Mus. Natl. Hist. Nat., sect B Ser. 4, 8(4): 377
(1986)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Monts de Cristal, 15 km d'Okuamkos, *Wilks 1819* (WAG); 7 km ENE de
Okuamkos, Monts de Cristal, *Wilks 1738* (WAG); 11 km ENE d'Okuamkos, *Wilks 1790*
(MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 102).

Anisophyllea purpurascens Hutch. & Dalz., Fl. W. Trop. Afr. 1: 228 (1927)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Asok, senda que va hacia el río Lobo, *Pérez Viso 433*
(MA-702219). Litoral: Crystal Mountains, 11 km ENE d'Okuamkos, *Wilks 1792* (LBV,
MO, WAG), *1791* (LBV, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 102) and Litoral (Lejoly
& Lisowski 1998: 102).

Poga oleosa Pierre in Bull. Mens. Soc. Linn. Paris 2: 1254 (1896)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata: Miboman, km 27 carretera Bata-Movo, *Castelo & al. s.n.* (MA-319780).
Río Muni: [without locality], *Eneme Efua 319* (BATA)

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 103; Guinea 1946: 142)

APIACEAE

Centella asiatica (L.) Urb. in Mart., Fl. Bras. 11(1): 287 (1879)

LC Native

Native to Tropical & Subtropical Old World. Sudano-Zambezian Region (Sudanian
Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region
(Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province);
Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland

Province); Cape Region; Madagascan Region. Also known from Bioko.

Centro Sur: Bata-Niefang-Moka, estrada kms. 94-95, Moka, *Carvalho* 5106 (MA-599744, MO, WAG). Litoral: Utonde, desembocadura del río, *Barberá & al.* 240 (MA-843798).

Previously reported from Litoral (Lejoly & Lisowski 1998: 11).

Eryngium foetidum L., Sp. Pl.: 232 (1753)

NE Naturalized

Native to Tropical and Subtropical America, naturalized elsewhere in the Tropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Área de Machinda. Poblado Adamtun, *López Serrano* 100501, 100502 (MA)

Previously reported from Litoral (Lejoly & Lisowski 1998: 11)

Hydrocotyle bonariensis Lam., Encycl. 3(1): 153 (1789)

LC Native

Native to Tropical & Subtropical America, elsewhere naturalized in Europe and Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Litoral: Corisco, *Pérez Viso* 1926 (MA-715808); Playa de Río Benito, *Guinea* 465-566 (MA-715801), *Guinea* 251 (MA-715797); Bata-Asonga, *Carvalho* 4583 (MA-516129, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 12; 1999a: 101); Guinea 1946: 88b, 170, 341; Fernández-Casas 1992: 76).

APOCYNACEAE

Alafia barteri Oliv. in Hooker's Icon. Pl. 20: t. 1992 (1890)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Mbubuin: Local de exploración forestal de Bisa de Nsuegue Mang, *Carvalho* 4991 (MA-599174, MO, WAG).

Alafia falcata Leeuwenb. in Novon 6(3): 271 (1996)

NE Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Litoral: Bata-Pembe-Entuba, estrada km. 20-21, *Carvalho* 5236 (MA-599502, MO, WAG).

Alafia lucida Stapf in Bull. Misc. Inform. Kew 1984: 122 (1894)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Niefang, estrada km. 35. Entre povoação de Adjape e Río Sama, *Carvalho* 5648 (MA-598568, MO, WAG)

Alafia multiflora (Stapf) Stapf in Bull. Misc. Inform. Kew 1908: 303 (1908)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sahelian Province, Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 155) and Río Muni without any precise locality (Guinea 1946: 347)

Alafia whytei Stapf in Oliv. (ed.), Fl. Trop. Afr.4: I. 610 (1904)

VU Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Congolian Province).

Litoral: Bata-Mbini-Etembué, en Boete de dirección de Etembué, a 10 km. de Boete y próximo al Río Ayé, *Carvalho* 6034 (MA-609786, WAG).

Allamanda cathartica L., Mant. Pl. Altera: 146, 214 (1771)

NE Naturalized

Native to Tropical America, naturalized in the paleotropics. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Annobon and Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 12) and Litoral (Lejoly & Lisowski 1998: 12).

Alstonia boonei De Wild. in Repert. Spec. Nov. Regni Veg. 13: 382 (1914)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Evinayong, *Guinea* 521, 520 (MA-267423); alrededores de Evinayong, *Guinea* 526 (MA-301355). Litoral: Área de Machinda. Poblado de Mbuibuiñ cdo, *López Serrano* 270308, 270309, 270310 (MA); Bata-Bicomo, estrada kms. 6-7, *Carvalho* 5415 (MA-599432, MO, WAG); Mikan (Machinda), *Azizet Issembé* 18 (WAG-1549828)

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 12) and Litoral (Lejoly & Lisowski 1998: 12).

Alstonia congensis Engl. in Bot. Jahrb. Syst. 8: 64 (1887)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Evinayong, *Guinea* 523 (MA-728379), 527 (MA-728378), 522 (MA-728377), 524 (MA-728371), 526 (MA-728372). Litoral: Área de Machinda. Poblado de Ebenvene, *López Serrano* 260323, 260324, 260325 (MA); Área de Machinda. Poblado de Ncon-Nbia, *López Serrano* 290306, 290307, 290308 (MA).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 12) and Litoral (Lejoly & Lisowski 1998: 12).

Ancylobothrys amoena Hua in Bull. Mus. Hist. Nat. (Paris) 186 (1899)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 12; 1999a: 119).

Ancylobothrys pyriformis Pierre in Bull. Mens. Soc. Linn. Paris, sér. 2 1: 126 (1898)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 12) and Litoral (Lejoly & Lisowski 1998: 12).

Ancylobothrys robusta Pierre in Bull. Mens. Soc. Linn. Paris, n.s., 1: 128 (1898)

DD Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Jongkind 2022: 29)

Ancylobothrys scandens (Schumach. & Thonn.) Pichon in Mem. Inst. Franc. Afrique Noire No. 35: 286 (1953)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Conisio, distrito de Kogo, *Obama* 757 (WAG).

Baissea gracillima (K.Schum.) Hua in Bull. Mens. Soc. Linn. Paris n.s., 2: 12 (1890)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Mongo (Alosa), estrada kms. 88-89, Alosa, *Carvalho* 5500 (MA-598766, MO, WAG).

Baissea leonensis Benth. in Hook. (ed.), Niger Fl.: 452 (1849)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: près de la frontière gabonaise, à l'Est de Cogo, *McPherson 14027* (LBV, MO, WAG); Bata-Bome, *Carvalho 5029* (MA-599214, MO, WAG); Bata-Pembe-San Joaquin de Ndyjacon, estrada kms. 31-32, *Carvalho 5263* (MA-598118, MO, WAG).

Baissea multiflora A.DC. in DC., Prodr. 8: 424 (1844)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Mbini, estrada km. 17, entrada que conduce al aeropuerto de Mokomo, *Carvalho 5598* (MA-598515, MO, WAG); Bata-Bicomo, de Nkoantoma e Ayelon, *Carvalho 4774* (MA-597587, MO, WAG).

Baissea ochrantha K.Schum. in Oliv. (ed.), Fl. Trop. Afr. 4(1): 206 (1902)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Village Basilé, distrito de Kogo, *Obama 794* (WAG).

Baissea subrufa Stapf in Mildbr., Wiss. Erg. Deut. Zentr.-Afr. Exped., Bot. 2: 539 (1915)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Wele Nzas: region de Oyem, Acam, *Le Testu, G.M.P.C 9111* (WAG).

Previously reported from Río Muni without any precise locality (Dilst 1995: 146).

Cascabela thevetia (L.) Lippold in Feddes Reppert. 91: 52 (1980)

LC Naturalized

Native to Tropical America, naturalized in the paleotropics. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Centro Sur: Niefang, explotación forestal de Matroguisa, *Pérez Viso 2311* (MA-716926). Río Muni: [without locality], *Eneme Efua 365* (WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 15; Guinea 1946: 200c) and Río Muni without any precise locality (Guinea 1946: 74, 349).

Catharanthus roseus (L.) G.Don, Gen. Hist. 4: 95 (1837)

NE Naturalized

Native to Madagascar, naturalized worldwide. Sudano-Zambezian Region (Zambezian Province; Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province). Also known from Annobon and Bioko.

Litoral: caracolas de Asonga, *Gómez Marín & al.* 75 (MA-854015); Bata-Asonga, jardines de Cooperación Española, *Carvalho* 5464 (MA, MO, WAG); Muni, Benito, *Guinea s.n.* (MA-267428), 276-553 (MA-728386, 549 (MA-267427), 552 (MA-267426), 553 (MA-267425).

Previously reported from Litoral (Lejoly & Lisowski 1998: 12)

Clitandra cymulosa Benth. in Hook. (ed.), Niger Fl.: 445 (1849)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Wele Nzas: Inselberg Akuom (6 km à l'est de Nsuamayong), *Obama & Lejoly* 622 (WAG).

Cryptolepis calophylla (Baill.) L.Joubert & Bruyns in Taxon 65(3): 498 (2016)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Bata-Monte Alen, *Carvalho* 5485 (MA-599373, MO, WAG). Litoral: Cogo, village Ncaho, *Obama* 809 (WAG); Bata-Bicomo, Central Hidroelectrica, río Ecucu, *Carvalho* 4914 (MA-597887, MO, WAG). Río Muni: [without locality], *Eneme Efua* 181, 184 (WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 16) and Litoral (Lejoly & Lisowski 1998: 16).

Cryptolepis nigrescens (Wennberg) L.Joubert & Bruyns in Taxon 65(3): 498 (2016)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Pembe, estrada kms. 26-27, chamada Entura en margens de Río Ué, *Carvalho* 5185 (MA-599484, MO, WAG).

Dictyophleba ochracea (K.Schum. ex Hallier f.) Pichon in Mém. Inst. Franç. Afrique Noire 35: 251 (1953)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Cogo, village Ncaho, *Obama 807* (WAG); Bata-Niefang, estrada km. 35, zona de Akora, *Carvalho 5753* (MA-599103, WAG); Bata-Niefang, estrada km. 35, entre los Ríos Sama y Comayá, *Carvalho 5740* (MA-599062, WAG).

Dictyophleba setosa de Hoogh in Bull. Jard. Bot. Natl. Belg. 59: 220 (1989)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Niefang, estrada km. 35, entre Adjape y Bidak con Nco, *Carvalho 5901* (MA-609832, MO, WAG); Bata-Mari, estrada kms. 57-58, *Carvalho 4947* (MA-597273, MO, WAG).

Epistemma rupestre H. Huber in Bull. Mus. Natl. Hist. Nat., sect B Ser. 4, 11(4): 448 (1990)

NT Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1999a: 118).

Funtumia africana (Benth.) Stapf in Proc. Linn. Soc. London 1899: 2-3 (1899)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Litoral: Bata-Pembe, estrada kms 18-19, *Carvalho 5397* (MA-598452, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 13; Wilks & Issembé 2000: 13) and Wele Nzas (Guinea 1946: 147).

Funtumia elastica (P. Preuss) Stapf in Proc. Linn. Soc. London 1899: 2-3 (1899)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Guinea 1946: 147).

Hunteria ballayi Hua in Bull. Mus. Hist. Nat. (Paris) 8: 281 (1902)

DD Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Jongkind 2022: 86)

Landolphia axillaris Pichon in Mém. Inst. Franç. Afrique Noire 35: 46 (1953)

DD Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Previously recorded from Rio Muni (Jongkind 2022: 106).

Landolphia congolensis (Stapf) Pichon in Mém. Inst. Franç. Afrique Noire 35: 171 (1953)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bolondo, estrada Km. 35-36, exploración forestal de EXFOSA, *Carvalho* 5997 (MA-609765, WAG).

Landolphia dulcis (Sabine ex G.Don) Pichon in Mém. Inst. Franç. Afrique Noire 35: 163 (1953)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 13).

Landolphia foretiana (Pierre ex Jum.) Pichon in Mém. Inst. Franç. Afrique Noire 35: 179, T. 7, 6 (1953)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Niefang, estrada km. 35, en zonas de Adjape e de Comayá, entre os Rios Sama e Comayá, *Carvalho* 5809 (MA-610044, WAG); Bata-Niefang, estrada km. 35, Mboete, *Carvalho* 5592 (MA-598520).

Landolphia glabra (Pierre ex Stapf) Pichon in Mém. Inst. Franç. Afrique Noire 35: 158 (1953)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye, estrada km. 40, sobre río Benito en Senye, *Carvalho* 5041 (MA-599247, MO, WAG).

Landolphia glandulosa (Pellegr.) Pichon in Mém. Inst. Franç. Afrique Noire 35: 170 (1953)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye, estrada km. 40, sobre Río Benito en Senye, *Carvalho* 5045 (MA-599229, MO, WAG); Bata-Pembe-San Joaquin de Ndyjacon, estrada kms. 35-36, *Carvalho* 5242 (MA-598162, MO, WAG); Bata-Pembe-San Joaquin de Ndyjacon, estrada kms. 32-33, *Carvalho* 5240 (MA-598159, MO, WAG).

Landolphia incerta (K.Schum.) Pers. in Wageningen Agric. Univ. Pap. 92(2): 94 (1992)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Monte Alen, *Carvalho* 5486 (MA-599374, MO, WAG). Litoral: Bata-Niefang, estrada km. 35, Comayá, entre Adjape y río Sa, *Carvalho* 5667 (MA-599367, WAG); Bata-Niefang, estrada km. 35, en zonas de Akora, Adjape e de Comayá, *Carvalho* 5816 (MA-609828, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 13) and Litoral (Lejoly & Lisowski 1998: 13).

Landolphia leptantha (K.Schum.) J.G.M.Pers. in Wageningen Agric. Univ. Pap. 92(2): 120 (1992)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Niefang, estrada km. 35, en las proximidades del Río Comayá, *Carvalho* 5758 (MA-599132, WAG).

Landolphia ligustrifolia (Stapf) Pichon in Mém. Inst. Franç. Afrique Noire 35: 154 (1953)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye, estrada km. 40, sobre Río Benito en Senye, *Carvalho* 5043 (MA-599227, MO, WAG); Bata-Sendje, estrada Km. 23-24, *Carvalho* 5689 (MA-598983, WAG); Bata-Bome, praderas gramíneas del río Boara, *Carvalho* 4858 (MA-597907, MO, WAG); Bata-Senye, estrada km. 24, *Carvalho* 4902 (MA-597580, MO, WAG); Bata-Bolondo, estrada kms. 22-23, *Carvalho* 5266 (MA-598119, MO, WAG).

Landolphia noctiflora J.G.M.Pers. in Wageningen Agric. Univ. Pap. 92(2): 150 (1992).

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bome, *Carvalho* 4988 (MA-598919, MO, WAG).

Landolphia owariensis P.Beauv., Fl. Oware 1: 54, t. 34 (1806)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Litoral: Bata-Machinda-Ncomococ, zona florestal de Nsue-Mang, *Carvalho 5071* (MA-599148, MO, WAG); Bata-Niefang, estrada km. 35, proximo al Río Sama, *Carvalho 5721* (MA-599019, WAG).

Landolphia robustior (K.Schum.) J.G.M. Pers. in Wageningen Agric. Univ. Pap. 92(2): 172 (1992)
NE Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Sendje, estrada Km. 23-24, *Carvalho 5690* (MA-599029, WAG).

Landolphia subrepanda (K.Schum.) Pichon in Mém. Inst. Franç. Afrique Noire 35: 184, t. 7, 7–8 (1953)
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Sendje, estrada kms. 17-18, *Carvalho 5388* (MA-599425, MO, WAG).

Marsdenia latifolia (Benth.) K.Schum. in Just's Bot. Jahresber. 26(1): 372 (1898)
NE Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 16).

Mondia ecornuta (N.E.Br.) Bullock in Kew Bull. 15: 203 (1961)
NE Native
Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Litoral: Bata-Senye (Senge)-Mitom-Emangës, estrada kms. 39-40 hacia Senge, *Carvalho 6479* (MA-620755).

Motandra lujae De Wild. & T.Durand in Bull. Soc. Roy. Bot. Belgique 40: 23 (1901)
DD Native
Tropical Africa. Guineo-Congolian Region (Congolian Province).

Previously recorded from Rio Muni (Jongkind 2022: 158)

Motandra paniculata (Poir.) I.M.Turner in Webbia 71(2): 227 (2016)
NE Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 13; 1999a: 119).

Motandra poecilophylla Wernham in J. Bot. 54: 228 (1916)

DD Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Previously recorded from Rio Muni (Jongkind 2022: 160)

Nerium oleander L., Sp. Pl.: 209 (1753)

LC Naturalized

Native from Mediterranean Región to India and China, cultivated and naturalized worldwide. Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 13)

Oncinotis glabrata (Baill.) Hiern, Cat. Afr. Pl. 1: 674 (1898)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Kruif 1985: 16).

Orthopichonia barteri (Stapf) H. Huber in Kew Bull. 15: 437 (1962)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Niefang, estrada km. 35, en dirección de Adjape a la zona de Comayá, *Carvalho 5800* (MA-610010, WAG).

Orthopichonia cirrhosa (Radlk.) H. Huber in Kew Bull. 15: 437 (1962)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Makoga, estrada km. 10 da estrada para Niefang, en la dirección da povoação de Dama, *Carvalho 5987* (MA-609794, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 13).

Orthopichonia visciflua (K. Schum. ex Hallier.f.) Vonk in Agric. Univ. Wageningen Pap. 89(4): 46 (1989)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Muni, Evinayong, *Guinea 239* (MA-267422), 295 (MA-267421). Litoral: Bata-Niefang, estrada km. 35, en la zona de Adjape y Río Sama, *Carvalho 5976* (MA-599799, WAG); Bata-Mbini, estrada kms. 23-24, *Carvalho 5270* (MA-598009, MO, WAG).

Pleiocarpa bicarpellata Stapf in Bull. Misc. Inform. Kew 21 (1894)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: near ECOFAC-Hotel, base of Mount Alen, *de Wilde 12018* (BRLU, WAG).

Plumeria alba L., Sp. Pl.: 210 (1753)

LC Introduced

Native to America (Puerto Rico), broadly cultivated worldwide.

Previously reported from Río Muni without any precise locality (Guinea 1946: 347).

Plumeria rubra L., Sp. Pl.: 209 (1753)

LC Naturalized

Native to Mesoamerica, broadly cultivated and naturalized. Also known from Annobon and Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 14).

Pycnobotrya nitida Benth. in Hooker's Icon. Pl. t. 1183 (1876)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bolondo, estrada km. 35-36, *Carvalho 5956* (MA-610074, WAG), *6004* (MA-609841, WAG), *6006* (MA-609855, WAG); Río Muni: without locality, *Mann 1809* (U); Alen, 15 miles from mouth of river Benito, *Bates 585* (L).

Rauvolfia caffra Sonder in Linnaea 23: 77 (1850)

LC Native

Tropical and South Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Cape Region. Also known from Bioko.

Centro Sur: Área de Nkumekien (Niefang). Poblado Bindem, *López Serrano 220601*, *220602*, *220603* (MA); Ayene, *Cabezas 100* (MA); Muni, Evinayong, *Guinea 258* (MA-267430), *255* (MA-267429). Litoral: Bikukbinii, *Wilks 3548* (WAG); Monts de Cristal. 3 km NNE de Okuamkos proche pont sur Mitemele, *Wilks 1722* (LBV, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 14) and Wele Nzas (Dilst & Leeuwenberg 1991: 28).

Rauvolfia letouzeyi Leeuwenb. in Bull. Mus. Natl. Hist. Nat., B, Adansonia 11: 367 (1989 publ. 1990)

LC Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Previously recorded from Río Muni (Jongkind 2022: 202).

Rauvolfia mannii Stapf in Bull. Misc. Inform. Kew 1894: 21 (1894)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Niefang-Monte Alen: Subida a Monte Alen en dirección al Río Otom-Asok, *Carvalho* 5349 (MA-614255, MO, WAG); cerca de Monte Alen, *Obama* 958 (BATA). Litoral: Bata-Niefang, estrada km. 35, en zonas de Adjape a Comayá, *Carvalho* 5803 (MA-610013, WAG). Wele Nzaz: Ncoho Yenguem, km. 38 de la carretera de Nkue, *Pérez Viso* 3715 (MA-707464).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 14), Litoral (Lejoly & Lisowski 1998: 14) and Wele Nzaz (Lejoly & Lisowski 1998: 14; 1999a: 120).

Rauvolfia vomitoria Afzel. Stirp. Guinea Med.: 1 (1817)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobon and Bioko.

Centro Sur: Ayene, *Cabezas* 101 (MA). Kie Ntem: Ngomgom, poblado de la pista que va de Nsok Nsomo a Bata, *Barberá & al.* 128 (MA-831661). Litoral: Ayamiken, Río Campo, *Pérez Viso* 2829bis (MA-690388); Bata-Akoniquieng, *Carvalho* 4999 (MA-599143, MO, WAG); Bata-San Joaquin de Ndyjacon-Ayamiken, estrada kms. 33-34, *Carvalho* 5083 (MA-599178, MO, WAG); Conisio, distrito de Kogo, *Obama* 729 (WAG); Miboman, km 27 carretera Bata-Movo, *Castelo & al. s.n.* (MA-319770). Río Muni: [without locality], *Eneme Efua* 372 (BATA, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 14), Litoral (Lejoly & Lisowski 1998: 14; Guinea 1946: 156) and Wele Nzaz (Lejoly & Lisowski 1998: 14; 1999a: 120; Dilst & Leeuwenberg 1991: 66; Guinea 1946: 147).

Saba thompsonii (A.Chev.) Pichon in Mém. Inst. Franç. Afrique Noire 35: 322 (1953)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 14).

Secamone afzelii (Schult.) K.Schum. in Bot. Jahrb. Syst. 23: 234 (1896)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Pembe, estrada kms. 18-19, *Carvalho* 5159 (MA-599636, MO, WAG).

Secamone brevipes (Benth.) Klack. in Adansonia III, 23: 326 (2001)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-

Cameroonian Province, Congolian Province).

Wele Nzaz: inselberg Piedra Nzaz, *Lejoly* 99/262 (MA-621775).

Previously reported from Litoral (Lejoly & Lisowski 1998: 17) and Wele Nzaz (Lejoly & Lisowski 1998: 17; 1999a: 119).

Secamone letouzeana (H. Huber) Klack. in *Adansonia* III, 23: 332 (2001)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bome, *Carvalho* 5568 (MA-598768, MO, WAG); Bata-Bome, pradera gramínea río Boara, *Carvalho* 4737 (MA-597900, MO, WAG).

Strophanthus bullenianus Mast. in *Gard. Chron.* 1870: 1471, fig. 247 (1870)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Niefang, estrada km 35, neste cruzamento tome a estrada madeira na zona de Comayá, *Carvalho* 5888 (MA-593434); Bata-Pembe, estrada kms. 23-24, *Carvalho* 5209 (MA-598158, MO, WAG); Adjap, *Guinea* 833 (MA-301335).

Strophanthus congoensis Franch. in *J. Bot. (Morot)* 7: 302, 324 (1893)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bome: Pradera gramínea ao longo do río Boara, *Carvalho* 4820 (MA-597742, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 14).

Strophanthus gracilis K. Schum. & Pax in *Bot. Jahrb. Syst.* 15: 370 (1892)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral

Bata-Pembe, estrada kms. 26-27. Praderas de Pembe, *Carvalho* 5193 (MA-598211, MO, WAG).

Strophanthus gratus (Wall. & Hook.) Baill., *Hist. Pl.* 10: 171 (1888)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Esantua, *Guinea* 805 (MA-267408); Muni, Andurelang, *Guinea* 166 (MA-267409), 168 (MA-267410); Benito, *Guinea* 335-943 (MA-727691), 930 (MA-267416),

931 (MA-267417), 932 (MA-267418), 933 (MA-267419), 934 (MA-267420), 935 (MA-267414), 937 (MA-728385), 938 (MA-267415), 939 (MA-267413), 940 (MA-267412), 943 (MA-267411, 301334). Wele Nzas: Nsok Nsomo, *Del Val s.n.* (MA-728387, 728388, 728389, 728390, 728391).

Strophanthus hispidus DC. in Bull. Sci. Soc. Philom. Paris 3: 123, pl. 8 (1802)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bome, entre río Boara km. 10 de estrada madeireira con Mbini, *Carvalho 4870* (MA-597389, MO, WAG); Bata-Pembe-San Joaquin de Ndyjacon, estrada kms. 30-31, *Carvalho 5249* (MA-598208, MO, WAG).

Strophanthus mortehanii De Wild. in Bull. Jard. Bot. État Bruxelles 5: 102 (1915)

DD Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Jongkind 2022: 221).

Strophanthus preussii Engl. & Pax in Bot. Jahrb. Syst. 15: 369 (1892)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Bome, estrada kms. 10-11, *Carvalho 5145* (MA-599719, MO, WAG); Bata-Niefang, estrada km 35. En dirección a Adjape, *Carvalho 5846* (MA-593432).

Previously reported from Litoral (Guinea 1946: 155).

Strophanthus sarmentosus DC. in Bull. Soc. Philom. Paris 3: 123 (1802)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: bosque de Mafanebú, *Guinea 396* (MA-301333). Río Muni: Región del Mafanebú [bosques entre Centro Sur y Wele Nazas], *Guinea 210-291* (MA-728396).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 15; 1999a: 119).

Strophanthus thollonii Franch. in J. Bot. (Morot) 7: 299 (1893)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: route d'exploitation chantier, *Dibata 458* (MO, WAG-1605659); Bata-Senye, estrada km. 40 no local da ponte sobre el Río Benito, *Carvalho 4908* (MA-597520, MO,

WAG); 5027 (MA-599216, MO, WAG).

Tabernaemontana brachyantha Stapf in Bull. Misc. Inform. Kew: 22 (1894)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Sendje, estrada kms. 18-19, *Carvalho* 5386 (MA-599424).

Previously reported from Río Muni without any precise locality (Guinea 1946: 349).

Tabernaemontana crassa Benth. in Hook. (ed.), Niger Fl.: 447 (1849)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Muni, Evinayong, *Guinea* 256 (MA-267431). Litoral: Bicuk-Bini, *Azizet Issembé* 48 (WAG). Wele Nzaz: Village Mebama, distrito de Nserk (?), *Obama* 786 (WAG-1674497).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 15) and Litoral (Lejoly & Lisowski 1998: 15).

Tabernaemontana divaricata (L.) R.Br. ex Roem. & Schult., Syst. Veg. 4: 427 (1819)

LC Naturalized

Native to India and South China, broadly cultivated and sometimes naturalized. Guineo-Congolian Region (Upper Guinea Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 15).

Tabernaemontana eglandulosa Stapf in Bull. Misc. Inform. Kew 1894: 24 (1894)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Niefang, estrada Km. 35. Zona de Comayá, *Carvalho* 5877 (MA-609861, WAG); Mt. John, Kongui R., Corisco Bay, *Mann* 1794 (K, P).

Tabernaemontana glandulosa (Stapf) Pichon in Notul. Syst. (Paris) 13: 253 (1948)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Wele Nzaz: Nkolendanyan, *Teesmann* 157 (K).

Tabernaemontana inconspicua Stapf in Bull. Misc. Inform. Kew 1894: 120 (1894)

DD Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Jongkind 2022: 240).

Tabernaemontana penduliflora K.Schum. in Bot. Jahrb. Syst. 23: 225 (1896)

DD Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Jongkind 2022: 244).

Tabernaemontana psorocarpa (Pierre ex Stapf) Pichon in Notul. Syst. (Paris) 13: 253 (1948)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Pembe, estrada kms. 24-25, *Carvalho* 5179 (MA-599468, MO, WAG).

Tabernanthe iboga Baill. in Bull. Mens. Soc. Linn. Paris 1: 783 (1889)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Mafanebú, *Guinea* 394-346 (MA-728384); Mosumu, *Pérez Viso* 3479 (MA-728376); Oyac Esom, *Pérez Viso* 3447 (MA-728373); salida de la carretera de Niefang a Evinayong, *Cabezas* 162bis (MA-702672). Litoral: Área de Machinda. Poblado de Mbuibuiñ cdo, *López Serrano* 270323, 270324 (MA); Bata, poblado de Bomudi, *Gómez Marín & al.* 74 (MA-854016); Kogo, *Obama* 722 (WAG-1669208); poblado King, Mbini, *Obama* 976 (BATA); Ndote, *Eneme Efua* 235 (BATA, WAG); Bata-Praderas de Selives-Readive, *Carvalho* 5290 (MA-598106, MO, WAG); Bata-Bome, entre río Boara a 10 km. Zona de Movo, *Carvalho* 4720 (MA-597472, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 15; Guinea 1946: 347), Litoral (Lejoly & Lisowski 1998: 15) and Wele Nzaz (Lejoly & Lisowski 1998: 15).

Vincetoxicum sylvaticum (Decne.) Kuntze, Revis. Gen. Pl. 2: 425 (1891)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Madagascan Region. Also known from Bioko.

Centro Sur: Bata-Monte Alen, subida al Monte Alen, *Carvalho* 5307 (MA-598227, MO, WAG). Litoral: Bata-Pembe, estrada kms. 17, *Carvalho* 5275 (MA-598102, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 17), Litoral (Guinea 1946: 155) and Wele Nzaz (Guinea 1946: 150).

Voacanga africana Stapf in J. Linn. Soc., Bot. 30: 87 (1894)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: c. 700 m from ECOFAC-Hotel, *de Wilde 12046* (WAG-36020). Litoral: Bata-Pembe, pradera gramínea de Eyang Mbaha. Estrada kms. 31. río Ué próximo a Ntuba, *Carvalho 4837* (MA-597725, MO, WAG); Isla de Corisco, *Obama 709* (BATA).

Previously reported from Litoral (Guinea 1946: 156) and Río Muni without any precise locality (Guinea 1946: 348).

Voacanga bracteata Stapf in Bull. Misc. Inform. Kew 22 (1894)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Niefang, explotación forestal de Matroguisa, *Pérez Viso 2348* (MA); cerca de Monte Alen, *Obama 957* (WAG). Litoral: Ayamiken, Río Campo, Km 38 de la carretera que sale a la derecha de Adjakom, *Pérez Viso 2781* (MA-716931); Bata-Niefang, estrada km. 35, entre a povoação de Adjape e Río Sama, zona de Comayá, *Carvalho 5716* (MA-599251, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 15), Litoral (Lejoly & Lisowski 1998: 15; Leeuwenberg 1985: 26) and Wele Nzas (Lejoly & Lisowski 1998: 15; Leeuwenberg 1985: 26).

Voacanga diplochlamys K.Schum. in Engler & Prantl, Nat. Pflanzenfam. 4(2): 149 (1895)

DD Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Río Muni (Jongkind 2022: 260).

ARALIACEAE

Astropanax barteri Seem. in J. Bot. 3: 177 (1865)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 16; 1999a: 119).

Astropanax tessmannii (Harms) Lowry, G.M.Plunkett, Gostel & Frodin in Candollea 72(2): 274 (2017)

NE Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Previously reported from Wele Nzas (Bamps 1974: 136).

Polyscias aequatoguineensis Lejoly & Lisowski in Bull. Jard. Bot. Natl. Belg. 67(1 - 4): 112 (1999)

EN Endemic

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 15; 1999a: 113, 120).

Polyscias balfouriana (André) L.H.Bailey in Rhodora 18: 153 (1916)

NE Probably cultivated, maybe introduced

Originally from New Guinea to Queensland.

Previously reported from Litoral (Lejoly & Lisowski 1998: 15).

Polyscias filicifolia (C.Moore ex E.Fourn.) L.H.Bailey in Rhodora 18: 153 (1916)

NE Cultivated

Originally cultigen from New Guinea to SW Pacific.

Previously reported from Litoral (Lejoly & Lisowski 1998: 16).

Polyscias fulva (Hiern) Harms in Engl. & Prantl (eds.), Nat. Pflanzenfam. 8: 45 (1894)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 16; 1999a: 114).

ASTERACEAE

Acanthospermum hispidum DC., Prodr. 5: 522 (1836)

NE Naturalized

Native to the Neotropic, naturalized in N America and in the Paleotropic. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province; Tongoland-Pondoland Province); Madagascan Region.

Centro Sur: Bata-Niefang, estrada km. 58, zona de Mongó, *Carvalho 5703* (MA-599139, WAG). Wele Nzas: Nsok, *Del Val s.n.* (MA-696833, 696836, 696840, 696841).

Acmella caulirhiza Delile, Voy. Méroé 4: 335 (1826)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province). Also known from Bioko.

Litoral: Área de Mbini, poblado de Bilen, Bitica y Mboete, *López Serrano 190421, 190422* (MA).

Previously reported from Centro Sur (Guinea 1946: 368), Kie Ntem (Guinea 1946: 184j) and Litoral (Lejoly & Lisowski 1998: 17).

Acmella uliginosa (Sw.) Cass, Dict. Sci. Nat., ed. 2 24: 331 (1822)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Área de Machinda. Poblado de Mbuibuiñ cdo, *López Serrano 270302* (MA).

Previously reported from Litoral (Lejoly & Lisowski 1998: 17).

Adenostemma viscosum J.R.Forst. & G.Forst., Char. Gen. Pl. 45, tab. 45 (1775)

LC Native

Native to Tropical and Subtropical Old World, naturalized in America. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province). Also known from Annobón and Bioko.

Centro Sur: Área de Evinayong, poblado de Tequete, *López Serrano 210519* (MA).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 17) and Litoral (Lejoly & Lisowski 1998: 17).

Ageratum conyzoides L., Sp. Pl. 2: 839 (1753)

LC Naturalized

Native to Mexico, naturalized worldwide. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Litoral: Área de Machinda, poblado de Adam-Tum, *López Serrano 130301* (MA); Área de Mbini, poblado de Mangala y Ncua- Esis, *López Serrano 130401, 130402, 130429, 130430* (MA); Río Benito, *Guinea 562ter* (MA-835059). Río Muni: El Muni (MA-221912).

Previously reported from Kie Ntem (Guinea 1946: 184j), Litoral (Lejoly & Lisowski 1998: 17; Guinea 1946: 159), Wele Nzaz (Lejoly & Lisowski 1998: 17) and Río Muni without any precise locality (Guinea 1946: 367).

Aspilia africana (Pers.) C.D.Adams in Webbia 12: 236 (1956)

DD Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province,

Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Beentje 2021: 19).

Aspilia rudis Oliv. & Hiern in Fl. Trop. Afr. 3: 380 (1877)

DD Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously recorded from Rio Muni (Beentje 2021: 21).

Bidens biternata (Lour.) Merr. & Sherff in Bot. Gaz. 88: 293 (1929)

NE Native

Native to Tropical and Subtropical Old World. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province). Also known from Annobón and Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 17).

Bidens pilosa L., Sp. Pl. 2: 832 (1753)

NE Naturalized

Native to Tropical & Subtropical America, naturalized elsewhere in the Tropics, Sub Tropics and in Temperated Regions

Centro Sur: Evinayong, *Guinea* 305-459 (MA-716101).

Previously reported from Kie Ntem (Guinea 1946: 184j) and Litoral (Lejoly & Lisowski 1998: 18; Guinea 1946: 159).

Centratherum punctatum Cass. in G.-F.Cuvier, Dict. Sci. Nat. ed. 2. 7: 384 (1817)

DD Naturalized

Native from Tropical South America, naturalized worldwide in the Tropics.

Previously recorded from Rio Muni (Beentje 2021: 33).

Chromolaena odorata (L.) R.M.King & H.Rob. in Phytologia 20: 204 (1970)

NE Naturalized

Native to Tropical and Subtropical America, naturalized in the rest of the Tropics. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province).

Litoral: Bata-Pembe, estrada km. 18, *Carvalho* 4861 (MA-597337, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 18).

Cosmos sulphureus Cav., Icon. 1(3): 56, pl. 79 (1791)

NE Naturalized

Native to Mexico, naturalized worldwide. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 18).

Crassocephalum crepidioides (Benth.) S.Moore in J. Bot. 50: 211 (1912)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 18), Litoral (Guinea 1946: 157) and Río Muni without any precise locality (Jeffrey 1986: 908; Guinea 1946: 367).

Cyanthillium cinereum (L.) H.Rob. in Proc. Biol. Soc. Wash. 103 252 (1990)

NE Native

Native to Tropical and Subtropical Old World, naturalized in America and Australia. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region.

Previously reported from Litoral (Lejoly & Lisowski 1998: 21).

Cyanthillium stelluliferum (Benth.) H.Rob. in Proc. Biol. Soc. Wash. 103(1): 252 (1990)

NE Naturalized

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Área de Machinda, poblado de Asesok, *López Serrano 280313, 280314* (MA); Área de Mbini, poblado de Bilen, Bitica y Mboete, *López Serrano 190401, 190402* (MA).

Previously reported from Litoral (Lejoly & Lisowski 1998: 21).

Distephanus biafrae (Oliv. & Hiern) H.Rob. in Phytologia 91(3): 535 (2009)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alen, 5 km au NO de Engong, inselberg, *Lejoly 99/094* (MA-621790).

Previously reported from Río Muni without any precise locality (Hepper 1963: 276-277; Guinea 1946: 368).

Elephantopus mollis Kunth, Nov. Gen. Sp. 4: 26 (1818)

NE Naturalized

Native to Tropical and Subtropical America, naturalized in the rest of the Tropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Área de Nkumekien (Niefang). Poblado Bindem, *López Serrano* 220608, 220609 (MA); Miyobo, carretera Niefang-Mosumu, senda hacia el río Laña, *Pérez Viso* 2524 (MA); P.N. Monte Alén, Esamalang, *Pérez Viso* 3298 (MA-875041); Niefang, explotación forestal de Matroguisa, *Pérez Viso* 2308 (MA). Kie Ntem: Ngomgom, poblado de la pista que va de Nsoc Nsomo a Bata, *Barberá & al.* 89 (MA-831501); Akam, *Fero & Esono* 71 (MA-808136). Litoral: Benito, *Guinea* 185-1034 (MA-716098). Río Muni: [without locality], *Eneme Efua* 263 (BATA, WAG). Wele Nzaz: Akok, carretera Acurenam-Aconibe, *Pérez Viso* 2063 (MA-716120).

Previously reported from Litoral (Lejoly & Lisowski 1998: 18)

Elephantopus scaber L., Sp. Pl. 2: 814 (1753)

NE Naturalized

Native to tropical Asia, naturalized in Australia and Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Congolian Province). Also known from Bioko.

Wele Nzaz: Asoc, *Guinea* 336 (MA-874812).

Previously reported from Centro Sur (Guinea 1946: 367), Litoral (Guinea 1946: 157, 159), Wele Nzaz (Guinea 1946: 184k, 367) and Río Muni without any precise locality (Guinea 1946: 367).

Eleutheranthera ruderalis (Sw.) Sch.Bip. in Bot. Zeitung (Berlin) 24 (21): 165 (1866)

NE Naturalized

Native to Tropical America, naturalized in the rest of the Tropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 18) and Litoral (Lejoly & Lisowski 1998: 18).

Emilia coccinea (Sims) G.Don, Hort. Brit., ed. 3: 382 (1839)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Centro Sur: Granja Evinayong, *Guinea* 280-512 (MA-716095).

Previously reported from Centro Sur (Guinea 1946: 320f), Kie Ntem (Guinea 1946: 184j), Litoral (Guinea 1946: 159) and Río Muni without any precise locality (Guinea

1946: 367).

Emilia lisowskiana C.Jeffrey in Kew Bull. 52(1): 208 (1997)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Miyobo, carretera Niefang-Mosumu. Senda hacia el río Laña, *Pérez Viso* 2533 (MA); Niefang, Bindeng, pista hacia el río Uoro, *Pérez Viso* 2398 (MA-716115); Acurenam, Mbeayop, *Aedo & al.* 5394 (MA-705238); P.N. Monte Alen, 5 km au NO de Engong, *Lejoly* 99/064 (MA-621710). Kie Ntem: Nfuiñ, a 29 km de Nsok Nsomo por la pista que va hacia Bata, *Cabezas & al.* 1342 (MA-831827); Akam II, carretera hacia Nsok Nsomo, *Fero & Esono* 118 (MA-808730); Ebon-Oyac, Ebebiyin, *Pérez Viso* 4322 (MA-713884). Litoral: Área de Machinda. Poblado de Asesok, *López Serrano* 280317, 280318, 280319 (MA); Binguro, km. 54 de la carretera de Bata a Kogo, *Pérez Viso* 2865 (MA-713891); Miboman, a 22 km. de Bata, *Castroviejo* 9158 (MA-708499); Wele Nzas: pista forestal, entre Eviam y Aconibe, *Pérez Viso* 2072 (MA-716117).

Previously reported from Centro Sur (*Lejoly & Lisowski* 1998: 19), Litoral (*Lejoly & Lisowski* 1998: 19), Wele Nzas (*Lejoly & Lisowski* 1998: 19; 1999a: 119) and Río Muni without any precise locality (*Jeffrey* 1997: 208).

Emilia praetermissa Milne-Redh. in Kew Bull. 1950, 375 (1951)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: Bata, Asonga, *Pérez Viso* 1404 (MA-713285). Litoral: Área de Machinda, poblado de Ebenvene, *López Serrano* 260322 (MA); Corisco, camino hacia el N a 100 m de la casa de Yniestrosa, *Velayos & al.* 9921 (MA-795357); Río Campo, desembocadura del río Campo, *Pérez Viso* 2479 (MA-713883); Corisco, *Pérez Viso* 1897 (MA-713736); Etembue, Espigon (réserve de Ndote), *Obama & Lejoly* 600 (MA-612196).

Previously reported from Litoral (*Lejoly & Lisowski* 1998: 19), Wele Nzas (*Lejoly & Lisowski* 1998: 19; 1999a: 120).

Emilia sonchifolia (L.) DC., Contr. Bot. India: 24 (1834)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Evinayong, *Guinea* 306-451 (MA-716093).

Previously reported from Centro Sur (*Guinea* 1946: 200d), Litoral (*Lejoly & Lisowski* 1998: 19; *Guinea* 1946: 88a) and Río Muni without any precise locality (*Guinea* 1946: 367).

Erigeron bonariensis L., Sp. Pl. 2: 863 (1753)

NE Naturalized

Native to Meso and South America, naturalized anywhere. Africa. Also known from Bioko.

Litoral: Área de Machinda, poblado de Mbuibuiñ cdo, *López Serrano* 270306, 270307 (MA).

Erigeron sumatrensis Retz., *Observ. Bot.* 5: 28. (1788)

NE Naturalized

Native to Meso and South America, naturalized worldwide. Africa.

Previously reported from Litoral (Lejoly & Lisowski 1998: 18).

Ethulia conyzoides L.f., *Dec. Pl. Horti Upsal.*: 1, tab. 1 (1762)

LC Naturalized

Native to Madagascar. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 19) and Litoral (Lejoly & Lisowski 1998: 19; Guinea 1946: 159).

Gymnanthemum amygdalinum (Delile) Sch.Bip. ex Walp., *Repert. Bot. Syst.*

(Walpers) 2: 948 (1843)

NE Native

Native to Bolivia, Brazil and Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province). Also known from Annobón and Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 20), Litoral (Guinea 1946: 156) and Wele Nzas (Lejoly & Lisowski 1998: 20).

Gymnanthemum coloratum (Willd.) H.Rob. & B.Kahn in *Proc. Biol. Soc. Wash.*

99(3): 501 (1986)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region. Also known from Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 368)

Gynura scandens O.Hoffm. in *Engl., Pflanzenw. Ost -Afr.*: 416 (1895)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: Monument naturel de Piedra Nzas, dalle rocheuse de Ncoho Biworo, *Lejoly* 99/243 (MA-621778).

Kinghamia nigritana (Benth.) C.Jeffrey in Kew Bull. 43(2): 275 (1988)
NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Monte Alen, *Carvalho* 5315 (MA-598221, MO, WAG). Wele Nzas: inselberg Piedra Nzas, *Lejoly* 99/217 (MA-621841); inselberg Asoc, *Obama & Lejoly* 485 (MA-612109).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 19) and Wele Nzas (Lejoly & Lisowski 1998: 19; 1999a: 118).

Lipotriche scandens (Schumach. & Thonn.) Orchard in Nuytsia 23: 383 (2013)
NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region.

Previously reported from Litoral (Guinea 1946: 159).

Microglossa pyrifolia (Lam.) Kuntze, Revis. Gen. Pl.: 353 (1891)
NE Native

Native to Tropical and Subtropical Old World. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 19), Litoral (Lejoly & Lisowski 1998: 19) and Río Muni without any precise locality (Guinea 1946: 368).

Mikania chenopodiifolia Willd., Sp. Pl. ed.4, 3: 1745 (1803)
NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province). Madagascan Region. Also known from Annobón and Bioko.

Litoral: prairie de Baga, *Eneme Efua* 359 (BATA).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 19) and Litoral (Lejoly & Lisowski 1998: 19).

Mikania cordata (Burm.f.) B.L.Rob. in Contr. Gray Herb. 104 65 1934.
NE Native

Native to Tropical Old World. Guineo-Congolian Region (Nigerian-Cameroonian

Province, Congolian Province). Also known from Bioko.

Litoral: a unos 2 km del río Campo, en la carretera de río Campo a Bata, antes del puesto militar de Nejiacom, *Barberá & al.* 326 (MA-844500).

Previously reported from Centro Sur (Guinea 1946: 64c, 184i, 200d, 320f), Kie Ntem (Guinea 1946: 184j), Litoral (Guinea 1946: 158), Wele Nzaz (Guinea 1946: 150) and Río Muni without any precise locality (Guinea 1946: 368).

Mikania microptera DC., Prodr. (DC.) 5: 196 (1836)

NE Native

Native to S. Tropical America, W. Tropical Africa to Tanzania. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 20).

Pseudoconyza viscosa (Mill.) D'Arcy in Phytologia 25(5): 281 (1973)

LC Nativea

Native to the Tropics and Subtropics of the world. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 367).

Solanecio angulatus (Vahl) C. Jeffrey in Kew Bull. 41(4): 922 (1986)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region.

Centro Sur: Carretera de Ojap, *Guinea* 272-1-2 (MA-716102); Carretera Ayap, *Guinea* 884-10 (MA-716089).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 20), Kie Ntem: Guinea 1946: 184j) and Río Muni (Jeffrey 1986: 922).

Sonchus oleraceus L., Sp. Pl.: 794 (1753)

NE Naturalized

Native to Europe and Medirterranean Region. Worldwide naturalized

Centro Sur: Carrtera Ayap, *Guinea* 273-12 (MA-716094)

Sonchus schweinfurthii Oliv. & Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 458 (1877)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-

Pondoland Province).

Previously reported from Río Muni without any precise locality (Jeffrey 1966: 479).

Sphagneticola trilobata (L.) Pruski in Mem. New York Bot. Gard. 78: 114 (1996)

NE Naturalized

Native to Tropical and Subtropical America, naturalized in the rest of the Tropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province) Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 21).

Struchium sparganophorum (L.) Kuntze, Revis. Gen. Pl.: 366 (1891)

LC Native

Native to SE. Mexico and Tropical America, naturalized in the rest Tropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: carretera de Mbini, antigua trocha forestal, *Pérez Viso* 3357 (MA-726949).

Previously reported from Litoral (Guinea 1946: 154, 159).

Synedrella nodiflora (L.) Gaertn., Fruct. Sem. Pl. 2: 456, tab. 171 (1791)

NE Naturalized

Native to Tropical & Subtropical America, naturalized in the rest Tropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Annobón and Bioko.

Previously reported from Centro Sur (Guinea 1946: 368), Kie Ntem (Guinea 1946: 184j) and Litoral (Lejoly & Lisowski 1998: 20; Guinea 1946: 159).

Tagetes erecta L., Sp. Pl.: 887 (1753)

NE Naturalized

Native to Mesoamerica, naturalized worldwide. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 20).

Tagetes patula L., Sp. Pl. 2: 887 (1753)

NE Naturalized

Native to Mesoamerica, naturalized worldwide. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 20)

Tithonia diversifolia (Hemsl.) A.Gray in Proc. Am. Acad. Arts. 19: 5 (1883)

NE Naturalized

Native to Mesoamerica, naturalized in the rest of the Tropics. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 20).

Vernonia doniana DC., Prodr. (DC.) 5: 23 (1836)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Corisco Island, *Thollon* 142 (P).

Previously reported from Centro Sur (Guinea 1946: 64c, 184i), Litoral (Lejoly & Lisowski 1998: 21 ; Guinea 1946: 256g) and Río Muni without any precise locality (Guinea 1946: 368).

Vernonia titanophylla Brenan in Kew Bull. 1953, 116 (1953)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: Mabungo, Nkolentagan, *Tessmann* 122 (K).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 21; Brenan 1953c: 117) and Río Muni without any precise locality (Moutsamboté 1990: 278).

Zinnia elegans Jacq. in Collectanea [Jacquin] 3: 152 (1789 [1791])

NE Introduced

Native to Mesoamerica, cultivated and naturalized worldwide. Guineo-Congolian Region (Upper Guinea Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 21).

BALANOPHORACEAE

Thonningia sanguinea Vahl in Skr. Naturhist.-Selsk. 6: 125, tab. 6. (1810)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, senda que va desde Moka hasta Bong, monte Alén, *Pérez Viso* 177 (MA-833226). Litoral: Bata-Niefang, estrada km. 35. En dirección de Adjape a la zona de Comayá, *Carvalho* 5788 (MA-610057). Wele Nzas: région d'Anisok, au-dessus du village Nzumayong, montée sur Inselberg Akuom, *Lisowski* M-718 (BATA-239); Efulan Evusok (Temelon), *Esono & Ndong* 398 (BATA).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 22; Guinea 1946: 142), Litoral (Guinea 1946: 276) and Río Muñi without any precise locality (Del Val 1942:

76).

BALSAMINACEAE

Impatiens filicornu Hook.f. in J. Linn. Soc. Bot. 6: 6 (1862)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Mount Alen, *de Wilde 12037* (BATA, WAG).

Previously reported from Centro Sur (Hooker 1864: 186), Wele Nzas (Guinea 1946: 151) and Río Muni without any precise locality (Hepper 1954: 162; Hutchinson & Dalziel 1928: 142).

Impatiens gossweileri G.M.Schulze in Bol. Soc. Brot., Ser. 2 29: 9 (1955)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 22).

Impatiens hians Hook.f. in J. Linn. Soc., Bot. 6: 7 (1862)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 22).

Impatiens mackeyana Hook.f. in J. Linn. Soc. Bot. 7: 188 (1864) subsp. **mackeyana**

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: c. 11 km S of Niefang. Mount Alen National Park, *de Wilde 11999* (BATA, WAG). Litoral: Bata-Sendje (Senye), estrada km. 40, ponte sobre Río Benito, *Carvalho 5292* (MA, WAG).

Impatiens mackeyana subsp. **zenkeri** (Warb.) Grey-Wilson in Kew Bull. 33(4): 645 (1979)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 22; 1999a: 119).

Impatiens macroptera Hook.f. in J. Linn. Soc. Bot. 7: 186 (1864)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: near ECOFAC-Hotel, base of Mount Alen, *de Wilde 12014* (WAG-1160220).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 22), Wele Nzas (Guinea 1946: 151) and Río Muni without any precise locality (Hepper 1954: 162; Hutchinson & Dalziel 1928: 142).

Impatiens mannii Hook.f. in J. Linn. Soc., Bot. 6: 7 (1862)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 22) and Wele Nzas (Lejoly & Lisowski 1998: 22; 1999a: 119).

Impatiens niamniamensis Gilg in Bot. Jahrb. Syst. 43: 104 (1909)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Wele Nzas (Guinea 1946: 151) and Río Muni without any precise locality (Hutchinson & Dalziel 1928: 142).

BASELLACEAE

Basella alba L., Sp. Pl.: 272 (1753)

NE Naturalized

Native to Tropical Asia, broadly cultivated and naturalized in all the tropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Annobón and Bioko.

Litoral: Bata-Moka-Monte Alen-Bata, estrada kms. 2-3, *Carvalho 5317* (MA, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 22).

BEGONIACEAE

Begonia aequatoguineensis Sosef & Nguema in Blumea 55: 91 (2010)

NE Endemic

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Centro Sur: Monte Alen, 2 km West of Mondung, *N.S. Nguema Miyono 2089* (BATA, WAG).

Previously reported from Centro Sur (Sosef & Nguema Miyono 2010: 91).

Begonia ampla Hook.f. in Oliv. (ed.), Fl. Trop. Afr. 2: 574 (1871)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province,

Congolian Province). Also known from Annobón and Bioko.

Centro Sur: P.N. Monte Alén, Bong, senda que va hacia el lago Atok, *Pérez Viso* 247 (MA-745628).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 23).

Begonia atroglandulosa Sosef in Wageningen Agr. Univ. Pap. 91(4): 88 (1991)

NE Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Centro Sur: near ECOFAC-Hotel. Base of Mount Alen, *de Wilde* 12019 (WAG)

Begonia auriculata Hook.f. in Oliv. (ed.), Fl. Trop. Afr. 2: 577 (1871)

NE Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Centro Sur: Miyobo: carretera Niefang-Mosumu, senda hacia el río Laña, *Pérez Viso* 2538 (MA-744266).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 23).

Begonia capillipes Gilg in Bot. Jahrb. Syst. 34: 96 (1905)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Monte Alen National Park, Monte Mitra, *Leal, M. E.* 841 (MO, WAG).

Begonia ciliobracteata Warb. in Bot. Jahrb. Syst. 22: 40 (1895)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Río Muni: [without locality], *Eneme Efua* 323 (WAG).

Begonia clypeifolia Hook.f. in Oliv. (ed.), Fl. Trop. Afr. 2: 576 (1871) subsp.

clypeifolia

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Mount Alen, *de Wilde* 12035 (BATA, WAG). Litoral: Monte Alen National Park, Monte Mitra, *Leal, M. E.* 847 (MO, WAG).

Begonia ebolowensis Engl., Wiss. Ergebn. Deutsch. Zentr. Afr. Exped. 1910-11, 2: 89, 97 (1922)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: c. 7 km S of ECOFAC-Hotel, *de Wilde 12044* (BATA, MO). Litoral: Sanje, River Benito, *Bates 573*

Begonia elaeagnifolia Hook.f. in Oliv. (ed.), Fl. Trop. Afr.2: 579 (1871)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Crystal Mountains, 10 km ENE of Okuamkos, *Wilks 1750* (MO, WAG); Village Mitom (?), distrito de Mbiru (?). *Obama 839*; Cogo, Village Basilé - Nco, distrito de Kogo, *Obama 822* (WAG).

Begonia elatostemmoides Hook.f. in Oliv. (ed.), Fl. Trop. Afr. 2: 576 (1871)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: near ECOFAC-Hotel, base of Mount Alen, *Wilde, J.J.F.E. de 12023* (BATA, WAG); Bata-Niefang-Monte Alem, andados unos 1,500 m. desde o acampamento de Ecofac, *Carvalho 5555* (MA-598778, MO)

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 23), Litoral (Lejoly & Lisowski 1998: 23) and Wele Nzas (Lejoly & Lisowski 1998: 23)

Begonia eminii Warb. in Engl. & Prantl (eds.), Nat. Pflanzenfam. 3(6a): 141 (1894)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: cerca de Monte Alen, *Obama 961* (WAG); near ECOFAC-Hotel. Base of Mount Alen, *Wilde, J.J.F.E. de 12009* (WAG); Bata-Niefang-Monte Alen: Subida a Monte Alen en dirección al Río Otom-Asok, *Carvalho 5348* (MA-598283, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 23) and Wele Nzas (Lejoly & Lisowski 1998: 23).

Begonia fusialata Warb. in Bot. Jahrb. Syst. 22: 37 (1895)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Mount Alen, *de Wilde 12038* (WAG); c. 11 km S of Niefang. Mount Alen National Park, *Wilde, J.J.F.E. de 12000* (BATA-); P.N. Monte Alén, dalle rocheuse, 3 km à l'O de la station Ecofac, *Lejoly 99/404* (MA-621686); Bata-Monte Alen - Engon: Asoc, *Carvalho 5532* (MA-598908, MO, WAG). Wele Nzas: dalle rocheuse à 3 km au S de Asoc, *Lejoly 99/319* (MA-621689)

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 23).

Begonia heterochroma Sosef in Wageningen Agr. Univ. Pap. 91(4): 102 (1991)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 23).

Begonia hirsutula Hook.f. in Oliv. (ed.), Fl. Trop. Afr.2: 575 (1871)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: near ECOFAC-Hotel. Base of Mount Alen, *Wilde, J.J.F.E. de 12016* (WAG); Bata-Monsong (Río Mbia)-Yengue, estrada para Yengue km. 43-44, *Carvalho 5074* (MA-599167, MO, WAG). Litoral: Bata-río Campo, estrada kms. 42-43. Regiao de Esadugma, *Carvalho 4728* (MA-597972, MO, WAG).

Begonia komoënsis Irmsch. in Bot. Jahrb. Syst. 57: 242 (1921)

NE Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Centro Sur: Parc Nat. de Monte Alen, 5 km au NO de Engong, *Lejoly 99/97* (BR, WAG); Bata-Monte Alen, *Carvalho 5490* (MA-599377, MO, WAG).

Begonia lacunosa Warb. in Bot. Jahrb. Syst. 22: 42 (1895)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Village Basilé - Nco, distrito de Kogo, *Obama 820* (WAG). Río Muni: [without locality], *Obama 338* (WAG).

Previously reported from Wele Nzaz (Lejoly & Lisowski 1998: 23; 1999a: 120).

Begonia longipetiolata Gilg in Bot. Jahrb. Syst. 34: 92 (1904)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: near ECOFAC-Hotel. Base of Mount Alen, *Wilde, J.J.F.E. de 12022* (WAG); P.N. Monte Alén, Engong, *Velayos & al. 10011* (MA-707065); Bata-Niefang-Monte Alen: Chegada de Río Otom-Asok, *Carvalho 5355* (MA-598277). Litoral: Cogo, Village Basilé - Nco, distrito de Kogo, *Obama 821* (BATA).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 23), Litoral (Arends, J.C. (1992: 202) and Wele Nzaz (Arends 1992: 202).

Begonia macrocarpa Warb. in Bot. Jahrb. Syst. 22: 43 (1895)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Bata-Niefang-Monte Alén, andados unos 1.500 m desde o campamento de Ecofac, *Carvalho* 5556 (MA-598777, MO). Litoral: Mboete, *Eneme Efua* 401 (WAG, BATA); Bata-Niefang, estrada km. 35. Zona de madera de Comayá, de la empresa de ABM, *Carvalho* 5621 (MA-598811, MO).

Begonia mannii Hook.f. in Bot. Mag. 90, pl. 5434 (1864)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni without any precise locality (Hutchinson & Dalziel 1928: 188).

Begonia monte-alenensis Sosef in Pl. Ecol. Evol. 147(2): 225 (2014)

NE Endemic

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Centro Sur: SO du Parc National de Monte Alén, 2 km au NE du site de traversée du río Uolo pour aller aux cataractas, *Senterre*, B. 2942, 3678 (BRLU); Parc Nat. de Monte Alén, 3 km au NO de Engong, *Lejoly* 99/154; Engong (Parc Nat. de Monte Alén), chemin de la dalle rocheuse (inselberg) d'Engong, à 5 km au NO du village d'Engong, *Stévert* 1055 (BRLU, WAG).

Begonia oxyloba Welw. ex Hook.f. in Oliv. (ed.), Fl. Trop. Afr. 2: 578 (1871)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region. Also known from Bioko.

Centro Sur: Mount Alén, *Wilde*, J.J.F.E. de 12041 (WAG); P.N. Monte Alén, Engong, *Pérez Viso* 2698 (MA-744318).

Previously reported from Centro Sur (*Lejoly & Lisowski* 1998: 24).

Begonia quadrialata Warb. in Engl. & Prantl (eds.), Nat. Pflanzenfam. 3(6a): 140, fig. 47 (1894)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Nfing Ntagan, poblado en la carretera forestal de Niefang a Bata, a continuación de Mosumu, *Pérez Viso* 2755 (MA-745627). Wele Nzás: Eviam, carretera forestal de Bata a Niefang, *Pérez Viso* 2591 (MA-744267); Acasakira, 3 Km au Sud de Nsork, *Obama & Lejoly* 552 (MA-612122).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 24) and Wele Nzas (Lejoly & Lisowski 1998: 24).

Begonia sciaphila Gilg ex Engl. in Engl. & Drude, *Veg. Erde* 9, 3(2): 616 (1921)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Niefang, entre Río Sama e Comayá, *Carvalho* 5615 (MA-615912, MO).

Begonia scutifolia Hook.f. in Oliv. (ed.), *Fl. Trop. Afr.* 2: 572 (1871)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: near ECOFAC-Hotel. Base of Mount Alen, *Wilde, J.J.F.E. de* 12021 (MO, WAG); Crystal Mountains, Monte Alen, near Moka, *Wilks* 3527 (WAG); P.N. Monte Alén, Engong, *Pérez Viso* 2654 (MA-744268). Litoral: Cogo, Village Basilé - Nco, distrito de Kogo, *Obama* 825, 826 (WAG).

Begonia sessilifolia Hook.f. in Oliv. (ed.), *Fl. Trop. Afr.* 2: 577 (1871)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: near ECOFAC-Hotel. Base of Mount Alen, *Wilde, J.J.F.E. de* 12010 (MO, WAG); Wele Nzas: Eviam, carretera forestal de Bata a Niefang, *Pérez Viso* 2601 (MA-744317).

Begonia staudtii Gilg in Bot. Jahrb. Syst. 34: 90 (1905)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Monte Alen National Park, Monte Mitra, *Leal, M. E.* 812 (MO).

Begonia subscutata De Wild. in Ann. Mus. Congo Belge. Bot., Ser. 5, 2: 322 (1908)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: inselberg de Bicurga, pres du village de Bicurga, *Parmentier, I.* 1633B (WAG).

BIGNONIACEAE

Crescentia cujete L., *Sp. Pl.* 2: 626 (1753)

LC Naturalized

Native from Mexico to Venezuela, naturalized anywhere in the tropics. Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 24).

Fernandoa adolfi-friderici (Gilg & Mildbr.) Heine in *Adansonia* 4: 469 (1964)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 24).

Kigelia africana (Lam.) Benth. in Hook. (ed.), *Niger. Fl.*: 463 (1849)

LC Native

Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 24).

Markhamia lutea (Benth.) K.Schum. in Engl. & Prantl (eds.), *Nat. Pflanzenfam.* 4(3b): 242 (1895)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Enigayong, km. 5 de la carretera de Kogo, *Pérez Viso* 3866 (MA-875028).

Previously reported from Litoral (Guinea 1946: 155).

Markhamia tomentosa (Benth.) K.Schum. ex Engl. in in *Abh. Königl. Preuss. Akad. Wiss., Phys.-Math. Cl.* 1894: 34 (1895)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: Nsok, *Del Val s.n.* (MA- MA-696826, 696828, 696832).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 24) and Wele Nzas (Lejoly & Lisowski 1998: 24; 1999a: 120).

Newbouldia laevis (P.Beauv.) Seem. ex Bureau, *Mon. Bignon Atlas*, tab. 15 (1864)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Niefang, Bindeng: alrededores de las instalaciones de Matroguisa, *Pérez Viso* 2360 (MA-870483).

Previously reported from Litoral (Lejoly & Lisowski 1998: 24), Wele Nzas (Guinea

1946: 147) and Río Muni without any precise locality (Guinea 1946: 356).

Spathodea campanulata P.Beauv., Fl. Oware 1: 47. tab. 27-28 (1804)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Río Muni: [without locality], *Eneme Efua* 484 (BATA).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 24), Litoral (Lejoly & Lisowski 1998: 24), Wele Nzas (Guinea 1946: 147; Guinea 1946: 56c, 155, 157, 312g) and Río Muni without any precise locality (Guinea 1946: 356).

Tecoma stans (L.) Juss. ex Kunth, Nov. Gen. Sp. Pl. 3: 144 (1818) [1819]

LC Naturalized

Native to the neotropic, naturalized in the paleotropic. Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 24).

BIXACEAE

Bixa orellana L., Sp. Pl.: 512 (1753)

LC Naturalized

Native to the Neotropic, naturalized in the Paleotropic. Sudano-Zambezian Region (Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Distrito de Evinayong, poblado de San José, cultivada en una finca, *Gómez Marín & al.* 126 (MA-856956). Litoral: Bata-Asonga: Jardines de Cooperación Española en Asonga, *Carvalho* 5472 (MA-598325, MO, WAG); Bata, entre Asonga e o Aeroporto, *Carvalho* 4637 (MA-147240, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 24, 1998: 24).

BORAGINACEAE

Cordia aurantiaca Baker in Bull. Misc. Inform. Kew 1894: 26 (1894)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Monte Alén N.P., transect de monte Alén, *Lejoly* 95/131 (BRLU). Litoral: Bata-Niefang, estrada Km. 28-29, *Carvalho* 5874 (MA-609860).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 25), Wele Nzas (Lejoly & Lisowski 1998: 25).

Cordia millenii Baker in Bull. Misc. Inform. Kew 1894: 27 (1894)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Río Muni (Simons 2021: 8).

Cordia platythyrsa Baker in Bull. Misc. Inform. Kew 28 (1894)

VU Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bikukbinii, *Azizet Issembé* 37 (WAG); Bata-Micomeseng, estrada kms. 109-110, *Carvalho* 6388 (MA-634145, WAG).

Previously reported from Río Muni without any precise locality (Guinea 1946: 351).

Hoplostigma klaineana Pierre in Bull. Mens. Soc. Linn. Paris, sér. 2 1: 116 (1899)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Litoral: Bata-Monte Bata-Mbubuin, estrada km 30, *Carvalho* 5089 (MA-832640, MO, WAG); Bata-Mbubuin, Nsuegue Mang, *Carvalho* 4994 (MA-832636).

BRASSICACEAE

Brassica oleracea L., Sp. Pl.: 657 (1753)

DD Naturalized

Probably native to W Europe, cultivated and naturalized worldwide. Probably in all Africa. Also known from Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 285).

Cardamine africana L., Sp. Pl.: 655 (1753)

NE Native

Pantropical. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Bioko.

Previously reported from Wele Nzas (Guinea 1946: 151) and Río Muni without any precise locality (Guinea 1946: 285).

Rorippa nasturtium-aquaticum (L.) Hayek, Sched. Fl. Stiriac. Exsicc.: 22 (1905)

LC Naturalized

Cosmopolitan. Probably all Africa, native or naturalized. Also known from Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 285).

BURSERACEAE

Aucoumea klaineana Pierre in Bull. Mens. Soc. Linn. Paris, sér. 2 1241 (1896)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Carretera de Niefang a Evinayong, km 15, poblado cerca de Ndong, *Cabezas 91* (MA-695675). Litoral: Bata-Bome, *Carvalho 5168* (MA-599477, MO, WAG). Río Muni: [without locality], *Eneme Efua 165* (WAG-1489197).

Previously reported from Litoral (Lejoly & Lisowski 1998: 25).

Canarium schweinfurthii Engl. in DC., Monogr. Phan. 4: 145 (1883)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Wele Nzaz (Lejoly & Lisowski 1998: 25) and Río Muni without any precise locality (Guinea 1946: 302).

Dacryodes buettneri (Engl.) H.J.Lam in Ann. Jard. Bot. Buitenzorg 42: 202 (1932)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Río Campo, cerca de Bongoro, *Pérez Viso 2181* (MA-714882)

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 26) and Litoral (Lejoly & Lisowski 1998: 26).

Dacryodes edulis (G.Don) H.J.Lam in Ann. Jard. Bot. Buitenzorg 42: 119 (1932)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Alosa, Niefang, *Castelo & Juste s.n.* (MA-854339); Niefang, explotación forestal de Matroguisa, *Pérez Viso 2316* (MA-780209). Litoral: Corisco, *Pérez Viso 1900* (MA-714884); Corisco, *Velayos, Cabezas & M. Tellería 9953* (MA-706851). Río Muni: [without locality], *Eneme Efua 310* (WAG-1217958).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 26), Litoral (Guinea 1946: 154), Wele Nzaz (Guinea 1946: 145) and Río Muni without any precise locality (Guinea 1946: 303).

Dacryodes heterotricha (Pellegr.) H.J.Lam in Ann. Jard. Bot. Buitenzorg 42: 202 (1932)

LC Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Litoral: Bata-Niefang, estrada Km. 35. En los alrededores del Río Comayá, *Carvalho*

5748 (MA-599054, MO, WAG).

Dacryodes igaganga Aubrév. & Pellegr., Fl. Gabon 3: 86 (1962)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: chantier forestier à l'Est de Cogo, *McPherson 14013* (LBV, MO); Monts de Cristal, 10 km ENE d'Okuamkos, *Wilks 1813* (LBV, WAG).

Santiria ebo (Pierre) H.J.Lam in Ann. in Jard. Bot. Buitenzorg 42: 204 (1932)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Niefang, estrada Km. 35. En dirección a Adjape en la zona de Comayá. Entre los Ríos Sama y Comayá, *Carvalho 5764* (MA-599066, 716932).

Previously reported from Centro Sur (Ikabanga *et al.* 2019: 122) and Litoral (Ikabanga *et al.* 2019: 122).

Santiria obovata (Pierre) H.J.Lam in Ann. Jard. Bot. Buitenzorg 42: 204 (1932)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Ikabanga *et al.* 2019: 122) and Wele Nzas (Ikabanga *et al.* 2019: 122).

Santiria trimera (Oliv.) Aubrév., Bois Forests Trop. 8: 344 (1948)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye (Senge), estrada km. 27, *Carvalho 6068* (MA-619121).

Previously reported from Centro Sur (Ikabanga *et al.* 2019: 128).

CACTACEAE

Rhipsalis baccifera (Sol. ex J.S.Muell.) Stearn in Cact. J. (Croydon) 7(4): 107 (1939)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Centro Sur: Añisok, *Pérez Viso 1389* (MA-875039); Bata-Monte Alen-Engon, Esong, *Carvalho 5529* (MA-599462, MO, WAG). Litoral: Bata-Bicomo: Central Hidroeléctrica sobre el Río Ecucu. Estrada kms. 22, *Carvalho 4986* (MA-598916, MO, WAG). Wele Nzas: Añisok-Mongola, *Pérez Viso 3722* (MA-725947).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 26) and Litoral (Guinea 1946: 157).

CALOPHYLLACEAE

Calophyllum inophyllum L., Sp. Pl.: 513 (1753)

LC Naturalized

Native to E. Africa, India, Indonesia and Australia, naturalized in W. Africa and C. America. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Madagascan Region. Also known from Bioko.

Litoral: río Campo, *Wilks 3508* (WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 36; 1999a: 102).

Endodesmia calophylloides Benth. in Benth. & Hook.f., Gen. Pl. 1: 166 (1862)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Près de la frontière gabonaise; chantier forestier a l'est de Cogo, *McPherson 14011* (MO, WAG); c. 2 km NE of Elende, Cocoloondo riverside, *Wieringa 2268* (WAG).

Mammea africana Sabine, Gen. Hist. 1: 619 (1831)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Niefang, estrada km. 35, Mboete, *Carvalho 5594* (MA-598519, MO, WAG); 3 km ESE de Okuamos, *Wilks 1728* (WAG).

CAMPANULACEAE

Lobelia hartlaubii Buchenau in Abh. Naturwiss. Vereine Bremen 7: 201 (1881)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 72).

Lobelia sylvicola Lejoly & Lisowski in Acta Bot. Gallica 147(2): 120 (2000)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Congolian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 2000: 120).

CANNABACEAE

Celtis philippensis Blanco, Fl. Filip.: 197 (1837)

LC Native

Probable native to Tropical & Subtropical Asia. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Annobón and Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 133).

Celtis tessmannii Rendle in J. Bot. 53: 297 (1915)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: Nkolentangan, Mabungo, *Tessmann* 25 (K).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 134).

Trema orientalis (L.) Blume in Mus. Bot. 2: 62 (1856)

LC Native

Native to Tropical & Subtropical Old World. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Karroo Namib Region; Cape Region; Madagascan Region. Also known from Annobón and Bioko.

Kie Ntem: Akam II, carretera hacia Nsok Nsomo, *Fero & Esono* 117 (MA-808731). Litoral: Corisco, *Velayos, Cabezas & M. Tellería* 9952 (MA-706850); Bata-Kogo, km 67, *Pérez Viso* 1845 (MA-709069). Río Muni: [without locality], *Eneme Efua* 241 (BATA, WAG). Wele Nzas: Añisok, *Pérez Viso* 4154 (MA-795906); Añisok-Mongola, *Pérez Viso* 3748 (MA-799877).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 134), Litoral (Lejoly & Lisowski 1998: 134; Guinea 1946: 154) and Wele Nzas (Guinea 1946: 143, 271).

CAPPARACEAE

Crateva adansonii DC., Prodr. (DC.) 1: 243 (1824)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Niefang, estrada Km. 35. En la zona de Adjape y Río Sama, *Carvalho* 5975 (MA-609100, WAG).

Sieruela rutidosperma (DC.) Roalson & J.C.Hall in Syst. Bot. 42(4): 938 (2017)

NE Native

Native to Tropical Africa, naturalized in Tropical America and Tropical Asia. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian

Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Annobón and Bioko.

Centro Sur: Nfing Ntagan, poblado en la carretera forestal de Niefang a Bata, a continuación de Mosumu, *Pérez Viso 2764bis* (MA-711778). Litoral: Ayamiken, Río Campo, *Pérez Viso 2823bis* (MA-712014); Ayamiken, Río Campo, Adjakom, *Pérez Viso 2772* (MA-711356); Corisco, camino hacia el N a 100 m de la casa de Yniestrosa, *Velayos & al. 9947* (MA-706847). Wele Nzas: Ebo-Ngoo Nsomo, carretera forestal Añisok Mongola-Niefang, *Pérez Viso 3164* (MA-711600).

Previously reported from Litoral (Lejoly & Lisowski 1998: 35; Guinea 1946: 159) and Río Muni without any precise locality (Guinea 1946: 284).

CARDIOPTERIDACEAE

Leptaulus daphnoides Benth. in Benth. & Hook.f., Gen. Pl.1: 351 (1862)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 68; Guinea 1946: 149).

Leptaulus zenkeri Engl. in Bot. Jahrb. Syst. 43: 179 (1909)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 68).

CARICACEAE

Carica papaya L., Sp. Pl.: 1036 (1753)

DD Introduced

Native to Mesoamerica, broadly cultivated and naturalized in all the Tropical and Subtropical areas of the world. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Litoral: Área de Mbini. Poblado de Mangala y Ncua- Esis, *López Serrano 130425* (MA).

CARYOPHYLLACEAE

Drymaria cordata (L.) Willd. ex Roem. & Schult., Syst. Veg. 5: 406 (1819)

NE Native

Pantropical, native to Tropical America and Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Bioko.

Centro Sur: Parc Nat. Monte Alen, 5 km au NO de Engong, *Lejoly 99/448* (BATA-2096); Área de Evinayong. Municipio de Bicurga, *López Serrano 230510, 230511* (MA-0). Litoral: Bata, quartier N., *Lisowski M-199* (BATA-360).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 77, 78), Litoral (Lejoly & Lisowski 1998: 35, 77) and Wele Nzas (Lejoly & Lisowski 1998: 78).

Polycarpaea eriantha Hochst. ex A.Rich., Tent. Fl. Abyss. 1: 303 (1848)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Litoral: au S de Bata, au S du fleuve Ekuka, *Lisowski M-1577* (BATA-361); Ecuco, *Guinea 23* (MA-715676); Bata-Bome, *Carvalho 5098* (BATA, MA-599728).

Previously reported from Litoral (Lejoly & Lisowski 1998: 35).

CELASTRACEAE

Campylostemon laurentii De Willd., Miss. Ém. Laurent 240 (1906)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 65).

Campylostemon mitophorus Loes. in Notizbl. Bot. Gart. Berlin-Dahlem 13: 565 (1937)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Niefang-Monte Alem, estrada km. 48, *Carvalho 5553* (MA-598780, MO, WAG).

Cuervea macrophylla (Vahl) R.Wilczek ex N.Hallé, Fl. Congo Belge 9: 141 (1960)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Mbini, estrada km 24 a chegada à povoação de Anguok, *Carvalho 5469* (MA, MO, WAG).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 65).

Helictonema velutimun (Afzel.) Pierre ex N.Hallé, Monogr. Hippocr. Afr. Occid., These, Paris 48 (1958)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Mbini, estrada km. 17. Entrada que conduce al aeropuerto de Mokomo, *Carvalho* 5597 (MA-598516, MO, WAG). Wele Nzaz: region de Oyem, Aloum, *Le Testu, G.M.P.C.* 9104 (P).

Hippocratea myriantha Oliv. in Oliv. (ed.), Fl. Trop. Afr. 1: 269 (1868)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: c. 3 km NE of Elende, Cocoloondo riverside, *Wieringa* 2270 (BR, WAG); Bata-Bome, *Carvalho* 4996 (MA-599142, MO, WAG).

Loeseneriella africana (Willd.) N.Hallé, Theses Fac. Sci. Univ. Par., Monogr. Hipp. Afr. Occ., 99 (1958)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Previously reported from Wele Nzaz (Lejoly & Lisowski 1998: 65; 1999a: 119).

Loeseneriella apiculata (Welw. ex Oliv.) N.Hallé ex R.Wilczek, Fl. Congo Belge 9: 151 (1960)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzaz: inselberg Asoc, *Obama* 502 (BRLU, WAG-1389831); inselberg d'Akuom, à côté de la route près du village d'Asoc, à 15km de Mongomo, *Parmentier, I.* 3745 (WAG-1389829).

Previously reported from Wele Nzaz (Lejoly & Lisowski 1998: 65).

Loeseneriella clematoides (Loes.) Wilczek ex N.Hallé, Fl. Congo Belge 9: 150 (1960)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Monte Alen: Alrededores de Moka, *Carvalho* 5474 (MA-598324, MO, WAG).

Loeseneriella iotricha (Loes.) N.Hallé in Mem. Inst. Franç. Afrique Noire 64: 118 (1962)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: inselberg de Akoak Ebanga, à 1h de marche du village de Ngong Mocomo, à 10km de Nsork, *Nguema Miyono*, N.S. 478 (WAG-1331391); inselberg de Piedra Nzas, *Lejoly 98/218* (WAG-1331394).

Reissantia indica (Willd.) N.Hallé in Mém. Inst. Franç. Afrique Noire 64: 85 (1962)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Litoral: Bata-Niefang, estrada Km. 35, en dirección a Adjape entre los Ríos Sama y Comayá, *Carvalho 5762* (MA-599068, WAG). Wele Nzas: inselberg d'Akuom, à 6 km du village de Nzuameyong, à 25km d'Anisoc, *Nguema Ekomo*, D. 388 (WAG-1544047).

Salacia erecta (G.Don) Walp. in Repert. Bot. Syst. 402 (1842)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Wele Nzas: Parc Nationale de Monte Alen, transect de Monte Alen, *Van Reeth 98* (BRLU).

Salacia gabunensis Loes. in Bot. Jahrb. Syst. 19: 242 (1894)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Ayamiken, Reserva de río Campo, *Obama*, C. 109bis (WAG-1544901).

Previously reported from Litoral (Lejoly & Lisowski 1998: 65).

Salacia longipes var. **camerunensis** (Loes.) N.Hallé, Fl. Gabon 29: 66 (1986)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Parc Nationale de Monte Alen, transect de Mosumo, *Van Reeth 296* (BRLU).

Salacia mannii Oliv. in Oliv. (ed.), Fl. Trop. Afr. 1: 376 (1868)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 65), Litoral (Lejoly & Lisowski 1998: 65) and Wele Nzas (Lejoly & Lisowski 1998: 65).

Salacia preussii Loes. in Bot. Jahrb. Syst. 19: 239 (1910)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 65).

Salacia staudtiana Loes. in Bot. Jahrb. Syst. 44: 187 (1910)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: inselberg de Bicurga, près de village de Bicurga, *Parmentier, I. 3218* (BRLU). Litoral: Mbini, Parc National de Monte Alen, entre 0 et 1 km à l'ouest du village de Alen, Okoumé, *Lejoly 93/378* (BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 66).

Thyrsosalacia nematobrachion Loes. in Repert. Spec. Nov. Regni Veg. 49: 229 (1940)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: entre Nsuaemyong et inselberg Akuom, *Obama, C. 403* (WAG-1445819).

CENTROPLACACEAE

Centroplassus glaucinus Pierre in Bull. Mens. Soc. Linn. Paris, sér. 2 1: 115 (1899)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 47).

CHRYSOBALANACEAE

Chrysobalanus icaco subsp. **atacorensis** (A.Chev.) F.White in Bull. Jard. Bot. Natl. Belg. 46(3-4): 275 (1976)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata, pradera gramínea entre o aeroporto e o río Utonde, *Carvalho 4841* (MA, MO, WAG); Bata-Asonga, *Carvalho 4661* (MA, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 35, 36; 1999a: 102); White 1976: 273; Guinea 1946: 154) and Río Muni without any precise locality (Guinea 1946:

286).

Dactyladenia chevalieri (De Wild.) Prance & F.White in Brittonia 31: 484 (1979)

LC Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Litoral: Bata-Bome-Aman, margens do rio Boara, *Carvalho* 5283 (MA, MO, WAG).

Dactyladenia icondere (Baill.) Prance & F.White in Brittonia 31: 485 (1979)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Pembe, estrada kms 25-26, *Carvalho* 5276 (MA, MO, WAG).

Dactyladenia pallescens (Baill.) Prance & F.White in Brittonia 31(4): 486 (1979)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Bome, *Carvalho* 4769 (MA-711594, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 35; 1999a: 102).

Licania elaeosperma (Mildbr.) Prance & F.White in Bull. Jard. Bot. Natl. Belg. 46(3-4): 280(1976)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 36).

Magnistipula tessmannii (Engl.) Prance in Bol. Soc. Brot., Ser. 2 40: 185 (1966)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Moka, cerca de Monte Alen, *Obama* 934 (WAG). Litoral: Monts de Cristal. 15 km d'Okuamkos, *Wilks* 1817 (LBV, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 36).

Magnistipula zenkeri Engl. in Bot. Jahrb. Syst. 36: 227 (1905)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Wele Nzaz: Ndolentangan, Abea, *Tessmann* 339 (K).

Maranthos chrysophylla (Oliv.) Prance in Bull. Jard. Bot. Natl. Belg. 46(3-4): 295

(1976)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Monts de Cristal. 3 km NNE de Okuamkos, *Wilks 1746* (WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 36).

Maranthes gabunensis (Engl.) Prance in Bol. Soc. Brot., Ser. 2 40: 184 (1966)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Près de la frontière gabonaise; chantier forestier à l'est de Cogo, *McPherson 14025* (MO, WAG); Bata-Pembe, estrada kms. 22. Zona de Biweme, *Carvalho 5192* (MA-598212, MO, WAG). Wele Nzaz: explotación maderera de Añisok-Mongola, *Pérez Viso 3727* (MA-708927).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 36).

Maranthes glabra (Oliv.) Prance in Bol. Soc. Brot. II, 40: 184 (1966)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Monts de Cristal. 12 km ENE de Okuamkos, *Wilks 1760* (LBV, WAG); Bata-Mbini, estrada km 19-20, *Carvalho 5300* (MA-832658, WAG).

CLEOMACEAE

Cleome afropina Iltis in Amer. J. Bot. liv. 955 (1967)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 34).

Cleome gynandra L., Sp.Pl.: 671 (1753)

NE Native

Tropical and Subtropical areas of the Old World, naturalized in America. Africa. Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 34) and Río Muni without any precise locality (Guinea 1946: 284).

Cleome hassleriana Chodat in Bull. Herb. Boissier 6 (app. 1): 12 (1898)

NE Naturalized

Native to the Neotropic, broadly naturalized. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 35).

CLUSIACEAE

Allanblackia floribunda Oliv. in J. Linn. Soc., Bot. 10: 43 (1867)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, carretera que sube desde el hotel de Monte Alén hasta el repetidor de televisión, *Pérez Viso* 69 (MA-713059); P.N. Monte Alén, Bisun, *Pérez Viso* 1237 (MA-687059). Litoral: Crystal Mountains, 10 km ENE of Okuamkos, *Wilks* 1780 (LBV, WAG); Bata-Bicomo, estrada km. 15. Río Ecucu, Central Hidroelectrica, *Carvalho* 5364 (MA-599643, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 36).

Allanblackia gabonensis (Pellegr.) Bamps in Bull. Jard. Bot. Nat. Belg. 39: 356 (1969)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Wele Nzaz: Enviem: Aconibe-Acurenem, explotación forestal 38B, *Pérez Viso* (MA-715470).

Garcinia densivenia Engl. in Bot. Jahrb. Syst. 40: 563 (1908)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Distrito de Mbini, de 5 a 7 km aprox. al O de Patio Sofoge, *Nguema Miyono*, *Obiang Mbomio* 8 (WAG).

Garcinia epunctata Stapf in J. Linn. Soc. Bot. 37: 86 (1905)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Sendje, *Pérez Viso* 3373 (MA-703177); Etembue, Espigon (réserve de Ndote), *Obama & Lejoly* 611 (MA-612189). Wele Nzaz: explotación maderera de Añisok-Mongola, *Pérez Viso* 3731 (MA-703178).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 37) and Litoral (Lejoly & Lisowski 1998: 37).

Garcinia letestui Pellegr. in Bull. Mus. Natl. Hist. Nat., sér. 1 27: 194 (1921)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 37) and Wele Nzaz

(Lejoly & Lisowski 1998: 37).

Garcinia mannii Oliv. in Oliv. (ed.), Fl. Trop. Afr. 1: 167 (1868)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Parque nacional del monte Alén, Enkumekien, *Pérez Viso* 1580 (MA-712680). Litoral: Crystal Mountains, 10 km ENE of Okuamkos, *Wilks* 1779 (LBV, WAG); Pres de la frontiere gabonaise chantier forestier a l'est de Cogo, *McPherson* 13995 (MO, WAG); Bata-Niefang, estrada km. 35, Comayá, *Carvalho* 5581 (MA-598821, MO, WAG). Wele Nzaz: Eviam, Aconibe-Acurenem, *Pérez Viso* 1788 (MA-703184).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 37) and Río Muni without any precise locality (Hepper 1954: 295; Bamps 1970: 288; Hutchinson & Dalziel 1928: 237).

Garcinia ovalifolia Oliv. in Oliv. (ed.), Fl. Trop. Afr. 1: 66 (1868)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Bicomo: Central Hidroelectrica en río Ecucu, *Carvalho* 4938 (MA-597882, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 37).

Garcinia preussii Engl. in Bot. Jahrb. Syst. 40: 568 (1908)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Sosef & Dauby 2013: 27).

Garcinia punctata Oliv. in Oliv. (ed.), Fl. Trop. Afr. 1: 167 (1868)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Pres de la frontiere gabonaise chantier forestier a l'est de Cogo, *McPherson* 13998 (MO, WAG); route d'exploitation chantier SEMGE, 1er pont sur Mitemelé, *Dibata* 462 (LBV); Distrito de Mbini, a 1.5 km al NE del Patio Sofoge, *Nguema Miyono, Obiang Mbomio* 7 (WAG); Bata-Pembe: Alrededores de povoação de Ebenvang, *Carvalho* 5479 (MA-594466, MO, WAG); Bata-Bome, *Carvalho* 5395 (MA-705237, MO, WAG); Bata-Punta Mbonda, nas praderas gramíneas de Punta Mbonda, *Carvalho* 4747 (MA, MO, WAG).

Garcinia quadrifaria (Oliv.) Pierre, Fl. Forest. Cochinch. fasc. v. 4. (1883)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Niefang, estrada km 35. Empresa de madera de ABM con destino en zona de Comayá, *Carvalho* 5636 (MA-598576, MO, WAG); Bata-Bome, *Carvalho* 4995 (MA, MO, WAG).

Garcinia smeathmannii (Planch. & Triana) Oliv. in Bull. Jard. Bot. Etat 29: 325 (1959)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata, *Trilles, H.L.M.P.* 184, 182 (P); Bata-Bome, *Carvalho* 5569 (MA-598767, MO, WAG); Estrada km 13, antigua explotación forestal de la empresa maderera Exfosa, *Carvalho* 6269 (MA-620315); Estrada km. 27, *Carvalho* 6071 (MA-618946); Bata-Bome: Pradera ao longo do río Boara, *Carvalho* 4802 (MA-597382, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 37) and Litoral (Lejoly & Lisowski 1998: 37).

Pentadesma butyracea Sabine in Trans. Hort. Soc. London 5: 457 (1824)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 37).

Symphonia globulifera L.f., Suppl. Pl.: 302 (1782)

LC Native

Native to Tropical America and W. Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Litoral: Bata-Praderas de Selives-Readive, *Carvalho* 5289 (MA-598005, MO, WAG)

Previously reported from Wele Nzas (Guinea 1946: 145).

COMBRETACEAE

Combretum aphanopetalum Engl. & Diels in Monogr. Afrik. Pflanzen-Fam. 3: 76 (1899)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Muni R., *Mann* 1758 (K).

Combretum bracteatum (Lawson) Engl. & Diels in Monogr. Afrik. Pflanzen-Fam. 3: 100 (1899)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 155).

Combretum conchipetalum Engl. & Diels in Monogr. Afrik. Pflanzen-Fam. 3: 22 (1899)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bolondo, estrada km 9-10, *Carvalho 4758* (MA, MO, WAG); Bata-Mbini, estrada kms. 9-10. Na margen do rio Ecucu, *Carvalho 5142* (MA-599720, MO, WAG).

Combretum cuspidatum Planch ex Benth. in Hook. (ed.), Niger Fl.: 340 (1849)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Senye (Senge), estrada km 27. Bosque primario de zona de EBOGA, *Carvalho 6210* (MA-620716, WAG)

Combretum indicum (L.) De Filippis, Useful Pl. Dominica: 277 (1998)

NE Naturalized

Native to Tanzania, Tropical & Subtropical Asia to N. Australia, naturalized in the rest of Tropical Africa and Tropical America. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Rio Muni: [without locality], *Eneme Efua 189* (BATA)

Previously reported from Litoral (Lejoly & Lisowski 1998: 38).

Combretum latialatum Engl. in Monogr. Afrik. Pflanzen-Fam. 3: 86 (1899)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Pembe, estrada kms. 24-25, *Carvalho 5584* (MA-598818, MO, WAG); Bata-Pembe-Mbia, estrada kms. 33-34, *Carvalho 5336* (MA-598172, MO, WAG); Bata-rio Campo, estrada kms. 33-34. Nas margens do rio Ué, proximo da povoacao de Aandom, *Carvalho 4723* (MA-597968, MO, WAG).

Combretum mannii Engl. & Diels in Monogr. Afrik. Pflanzen-Fam. 3: 74 (1899)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-

Cameroonian Province, Congolian Province).

Litoral: Pradera de Baga, *Eneme Efua 330* (BATA); près de la frontière gabonaise, chantier forestier à l'est de Cogo, *McPherson 14004* (MO); Bata-Niefang, estrada km. 35, en la zona Comayá, *Carvalho 5855* (MA-609964, WAG); Bata-Pembe, estrada kms. 18-19, *Carvalho 5188* (MA-599483, MO, WAG); Bata-Pembe, estrada kms. 28-29, *Carvalho 5383* (MA-599388, MO, WAG).

Combretum paniculatum Vent., Choix Pl., tab. 58 (1808)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 38).

Combretum paucinervium Engl. & Diels in Monogr. Afrik. Pflanzen-Fam. 3: 17 (1899)

NE Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Litoral: River Konqui, *Mann 1817* (K).

Combretum platypterum (Welw.) Hutch. & Dalziel in Hutch. & Dalziel (eds.), Fl. Trop. Africa 1: 220 (1927)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-río Campo, estrada kms. 33-34, nas margens do rio Ué, Aandom, *Carvalho 4721* (MA-597966, MO, WAG); Bata-Bome, bosque primario das margens do rio Boara, *Carvalho 4792* (MA-597871, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 38), Litoral (Lejoly & Lisowski 1998: 38) and Wele Nzaz (Lejoly & Lisowski 1998: 38; 1999a: 120).

Combretum rabiense Jongkind in Bull. Mus. Natl. Hist. Nat., B, Adansonia 14: 259 (1992) [publ. 1993]

NE Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Litoral: Bata-Senye (Senge), estrada km. 38, zona forestal en dirección a Niefang. río Bibogo, *Carvalho 6292* (MA-620665, WAG); Bata-Mbini-Boete-Etembue, estrada km. 5-6, *Carvalho 5924* (MA-609910, WAG).

Combretum racemosum P.Beauv., Fl. Oware 2: 90, tab. 118 (1820)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province,

Congolian Province). Also known from Bioko.

Litoral: Bata-Bicomo, estrada kms. 5-6, *Carvalho* 4779 (MA-597583, MO, WAG).

Previously reported from Litoral (Guinea 1946: 154) and Wele Nzaz (Guinea 1946: 150).

Combretum sordidum Exell in J. Bot. 67: 144 (1929)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Wele Nzaz: inselberg Asoc, *Obama* 468 (WAG).

Conocarpus erectus L., Sp. Pl.: 176 (1753)

LC Native

Native to Tropical America and Tropical Africa. Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Río Muni: Bata-río Utonde, *Carvalho* 4771 (MA, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 38).

Laguncularia racemosa (L.) C.F.Gaertn., Suppl. Carp. 2: 209, tab. 217, fig. 2 (1807)

LC Native

Native to Tropical America and Tropical Africa. Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: [without locality], *Eneme Efua* 427 (WAG); Bata, na desembocadura do Río Ecucu, *Carvalho* 5061 (MA-610096, MO, WAG).

Previously reported from Litoral (Guinea 1946: 24b, 166, 170, 272a).

Strephonema mannii Hook.f., Gen. Pl. 1: 782 (1867)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 38).

Strephonema pseudocola A.Chev. in Bull. Soc. Bot. France 8: 172 (1912)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 38).

Strephonema sericeum Hook.f., Gen. Pl. 1: 782 (1867)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: 3 km ESE de Okuamos, *Wilks 1723, 1725* (LBV); Bata-Senge, estrada kms 17-18, *Carvalho 5627* (MA-598783, MO, WAG).

Terminalia catappa L., Syst. Nat. (ed. 12) 2: 674 (1767)

LC Naturalized

Native to Tropical Asia, naturalized in the rest of the Tropics. Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: Evinayong, *Guinea 87* (MA-713533). Litoral: playa de Utonde, *Barberá & al. 219* (MA-843820); desembocadura del río Campo, *Pérez Viso 2147* (MA-708924); Bata-Asonga, Jardines de Cooperación Española, *Carvalho 5410* (MA-599437, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 38)

Terminalia mantaly H.Perrier in Ann. Inst. Bot.-Géol. Colon. Marseille 1: 24, tab. 5 (1953)

LC Naturalized

Native from Madagascar, naturalized in Africa and E China. Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 38).

Terminalia neotaliala Capuron in Bull. Mus. Natl. Hist. Nat., Sér. 3, Bot. 11: 128–130, tab. 8: 7–11 (1973)

VU Naturalized

Native to Madagascar, naturalized in Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Congolian Province).

Litoral: Bata-Machinda-Ncomococ-Nsue-Mang, estrada kms. 32-33, povoação de Nsue-Mang, *Carvalho 5072* (MA-599165, MO, WAG).

Terminalia superba Engl. & Diels in Monogr. Afrik. Pflanzen-Fam. 4: 26, tab. 14B (1899)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 38).

CONNARACEAE

Agelaea paradoxa Gilg in Engl. & Prantl (eds.), Nat. Pflanzenfam. 3(3): 65, fig 35 (1888)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian

Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Madagascan Region. Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 39).

Agelaea pentagyna (Lam.) Baill. in Bull. Mens. Soc. Linn. Paris 1: 345 (1882)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Miyobo, carretera Niefang-Mosumu, senda hacia el río Laña, *Pérez Viso* 2572 (MA-711798). Litoral: River Kongui, *Mann* 1820 (K); Bata-Bicomo (Central eléctrica), *Carvalho* 4778 (MA, MO, WAG); Bata-Senye (Senge), estrada km. 27, antigua explotación forestal de Exfosa, *Carvalho* 6109 (MA-619392); Bata-Desembocadura del Río Ecucu, *Carvalho* 5200 (MA-598151, MO, WAG).

Previously reported from Litoral (Jongkind 1989a: 151).

Agelaea rubiginosa Gilg in Bot. Jahrb. Syst. 14: 319 (1891)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Madagascan Region.

Previously reported from Río Muni (Jongkind 1989a: 163).

Cnestis corniculata Lam., Encycl. 3(1): 23 (1789)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region. Also known from Bioko.

Centro Sur: Bata-Niefang, estrada km 46, entre Adjape e o río Sama, *Carvalho* 5603 (MA, WAG); Bata-Monte Alen, *Carvalho* 5316 (MA-598220, MO, WAG). Litoral: Monts de Cristal, 13 km NE de Okuamkos, *Wilks* 1757 (LBV, MO, WAG); Jaudjè, *Eneme Efua* 455 (WAG-1440566); Bata-Senge, estrada km. 26 cerca del poblado de Ebumetom, *Carvalho* 6296 (MA-642363, WAG); Bata-Pembe, estrada kms. 23-24, *Carvalho* 5224 (MA-599501, MO, WAG). Río Muni: [without locality], *Eneme Efua* 493 (WAG-1440567).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 39).

Cnestis ferruginea Vahl ex DC., Prodr. (DC.) 2: 87 (1825)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region.

Centro Sur: Bindung, km. 17 de la carretera de Niefang, *Pérez Viso* 3777 (MA-687075).

Litoral: près de la frontière gabonaise, chantier forestier à l'est de Cogo, *McPherson 14026* (MO, WAG-1441032); Jaudjè, *Eneme Efua 456* (WAG-1441031); Río Benito, *Del Val s.n.* (MA-714869, 714870); desembocadura del río Campo, *Pérez Viso 2143* (MA-708491); Enigayong, km. 5 de la carretera de Kogo, *Pérez Viso 3869* (MA-687152); Bata-Senye (Senge), estrada km. 27, *Carvalho 6141* (MA-619181, WAG); Bata-Bome, entre río Boara km. 10 de estrada madeireira con Mbini, *Carvalho 4871* (MA-611869, MO, WAG); Bata-central eléctrica, km 6, *Carvalho 4600* (MA-511684). Río Muni: [without locality], *Nosti s.n.* (MA-702661).

Previously reported from Centro Sur (Guinea 1946: 142), Litoral (Lejoly & Lisowski 1998: 39; Fernández-Casas 1992: 59; Lemmens 1989a: 199), Wele Nzaz (Lemmens 1989a: 199; Guinea 1946: 149) and Río Muni without any precise locality (Hepper 1958: 743; Guinea 1946: 288)

Cnestis macrophylla Gilg ex G.Schellenb. in Mitt. Bot. Mus. Univ. Zürich 50: 18 (1910)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 39).

Cnestis urens Gilg in Engl. & Prantl (eds.), Nat. Pflanzenfam. 3(3): 67, fig. 37 (1891)
NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 39) and Río Muni without any precise locality (Guinea 1946: 288).

Connarus africanus Lam., Encycl. (Lam.) 2: 95 (1786)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Madagascan Region.

Previously reported from Litoral (Lemmens 1989b: 247).

Connarus griffonianus Baill. in Adansonia sér.1 7: 235 (1867)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 39).

Hemandradenia mannii Stapf in Bull. Misc. Inform. Kew 288 (1908)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Río Muni without any precise locality (Hepper 1958: 749; Eimunjaze 1976: 32; 1989: 282; Guinea 1946: 288).

Jollydora duparquetiana (Baill.) Pierre in Bull. Mens. Soc. Linn. Paris 2: 1233 (1896)
LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Bata-Niefang, estrada km 35, *Carvalho* 5631 (MA-870485, WAG). Litoral: Bata-Senge-Mitom-Emangós, estrada km. 66-67 después de Emangós, *Carvalho* 6492 (MA-642276, WAG); Bata-Mbubuin, local da exploração florestal de BISA na região de Nsuegue Mang, *Carvalho* 4993 (MA, MO).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 40) and Litoral (Lejoly & Lisowski 1998: 40; Guinea 1946: 156).

Manotes expansa Sol. ex Planch. in Linnaea 23: 439 (1850)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region.

Litoral: Sanje, River Benito, *Bates* 571 (P); Bata-Bome, *Carvalho* 5186 (MA-611868, MO, WAG); Bata-Niefang, estrada km. 35, en Comayá, *Carvalho* 5579 (MA-611867, MO, WAG); Bata-Niefang, estrada kms. 21-22, *Carvalho* 5619 (MA-611866, MO, WAG). Wele Nzas: Inselberg Dumu, *Lejoly* 99/360 (MA-621696).

Previously reported from Litoral (Lejoly & Lisowski 1998: 40) and Río Muni without any precise locality (Jongkind 1989b: 300).

Manotes griffoniana Baill. in Adansonia sér.1 7: 244 (1867)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region.

Litoral: Ecucu, *Guinea* 194-767 (MA-714858); Bata-Pembe, estrada kms. 33. Matorral secundário en Pembe, *Carvalho* 4836 (MA-611870, MO, WAG); Bata-Dibolo, estrada kms. 60-61, *Carvalho* 5214 (MA-599740, MO, WAG).

Previously reported from Litoral (Jongkind 1989b: 304).

Manotes macrantha (Gilg) G.Schellenb. in Mitt. Bot. Mus. Univ. Zürich 50: 21 (1910)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 40).

Rourea cassioides Hiern, Cat. Afr. Pl. 1: 187 (1896)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Madagascan Region.

Wele Nzas: [without locality] *Tessmann 337* (K).

Previously reported from Río Muni without any precise locality (Jongkind 1989c: 323).

Rourea coccinea (Thonn. ex Schum.) Benth. in Hook. (ed.), *Niger Fl.* 290 (1849)
subsp. **coccinea**

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Litoral: Ebongo-Utonde, *Guinea 183-796* (MA-714860); Bata, entre Asonga e o Aeroporto, *Carvalho 4640* (MA-597326, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 40; Jongkind 1989c: 330).

Rourea myriantha Baill. in *Adansonia* 7: 198 (1867)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 289).

Rourea obliquifoliolata Gilg in *Bot. Jahrb. Syst.* 14: 328 (1891)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Madagascan Region.

Previously reported from Litoral (Jongkind 1989c: 347), Wele Nzas (Lejoly & Lisowski 1998: 40) and Río Muni without any precise locality (Jongkind 1989c: 347).

Rourea parviflora Gilg in *Bot. Jahrb. Syst.* 14: 322 (1891)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Madagascan Region.

Litoral: Mount John, River Konqui, *Mann 1795* (K).

Rourea solanderi Baker in *Oliv. (ed.), Fl. Trop. Afr.* 1: 456 (1868)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Litoral: Sanje, River Benito, *Bates 574* (P), *Dibata 453* (BR, MO, WAG-1541507); près

de la frontière gabonaise; chantier forestier à l'est de Cogo, *McPherson 14023* (MO, WAG-1442248); Punta Mbonda, *Guinea 195-789* (MA-714859); Bata-Bolondo, estrada Km. 35-36, *Carvalho 5992* (MA-609768, WAG); 5954 (MA-610072, WAG); Bata-Niefang, estrada km. 40, Adjape con Río Sama, *Carvalho 5550* (MA-598753, MO, WAG); Bata-Zona de Bomudi, *Carvalho 5346* (MA-598285, MO, WAG).

Previously reported from Litoral (Jongkind 1989c: 359).

Rourea thomsonii (Baker) Jongkind in Agric. Univ. Wageningen Pap. 89(6): 359, fig. 177-179 (1989)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region.

Previously reported from Río Muni without any precise locality (Jongkind 1989c: 364).

CONVOLVULACEAE

Calycobolus africanus (G.Don) Heine in Kew Bull. 16: 388 (1963)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: Ebianemajong (Niamayong), *Tessmann 215* (K).

Previously reported from Wele Nzas (Breteler 2013: 336; Lejoly & Lisowski 1998: 40).

Convolvulus farinosus L., Mant. Pl. Altera 2: 203 (1771)

NE Native

Tropical and Subtropical Africa. Sudano-Zambezian Region (Zambezian Province); Region (Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Cape Region, Madagascan Region. Also known from Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 350).

Cuscuta campestris Yunck. in Mem. Torrey Bot. Club 18(2): 138 (1932)

NE Naturalized

Native to America. Naturalized worldwide. Scattered all over Africa.

Centro Sur: Evinayong, Granja Agrícola, *Carvalho 4596* (MA-556049, WAG).

Dipteropeltis poranoides Hallier f. in Jahrb. Hamburg. Wiss. Anst. repr. 5 (1898)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Niefang-Moka, estrada kms 94-95, *Carvalho 5108* (MA, MO, WAG); Bata-Niefang, estrada km 35, *Carvalho 5607* (MA-870463, WAG); Mosumo, camino

de las cataratas, *Aedo & al.* 5108 (MA-718266). Litoral: Bata-Pembe, estrada kms 22-23, *Carvalho* 5171 (MA, MO, WAG).

Hewittia malabarica (L.) Suresh, Interpret. Van Rheede's Hort. Malab. 88 (1988)

NE Native

Native to Tropical & Subtropical Old World. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 40).

Ipomoea alba L., Sp. Pl.: 161 (1753)

LC Naturalized

Native to Tropical & Subtropical America, naturalized in the rest of the Tropics & Subtropics. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province). Madagascan Region. Also known from Annobón and Bioko.

Litoral: carretera Ayap, *Guinea* 142 (MA-874829).

Previously reported from Wele Nzas (Guinea 1946: 350).

Ipomoea argenteaurata Hallier f. in Bot. Jahrb. Syst. 18: 132 (1894)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 41; 1999a: 118).

Ipomoea batatas (L.) Lam., Tabl. Encycl. 1: 465 (1792)

DD Cultivada

Native to Mexico, cultivated and naturalized worldwide. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Wele Nzas: Asok, *Del Val* s.n. (MA-715820).

Previously reported from Río Muni without any precise locality (Guinea 1946: 350).

Ipomoea cairica (L.) Sweet, Hort. Brit. (Sweet) 287 (1826)

LC Native

Native to Tropical & Subtropical Africa and Asia, widely naturalized. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Bioko.

Litoral: Conisio. Distrito de Kogo, *Obama* 760 (WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 41; 1999a: 101) [*Lisowski M-207*].

Ipomoea eriocarpa R.Br., Prodr. Fl. Nov. Holland. 484 (1810)

NE Native

Tropical & Subtropical Old World to N. Australia. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Annobón and Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 350).

Ipomoea fistulosa Mart. ex Choisy, Prodr. (DC.) 9: 349 (1845)

NE Naturalized

Native to Mexico and S. Tropical America, naturalized in the rest of Tropics and Subtropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region.

Previously reported from Litoral (Lejoly & Lisowski 1998: 41).

Ipomoea imperati (Vahl) Griseb., Cat. Pl. Cub. 203 (1866)

NE Native

Native to Tropical & Subtropical coasts of the world. N Africa; Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Río Utonde, entre aeropuerto y Río Utonde, *Carvalho* 5205 (MA-598155, MO, WAG); arenas de la playa del Río Ecucu, *Guinea* 864 (MA-389576).

Previously reported from Litoral (Lejoly & Lisowski 1998: 41; 1999a: 101) [*Lisowski M-191*].

Ipomoea indica (Burm.) Merr., Interpr. Rumph. Herb. Amboin. 445 445 (1917)

DD Naturalized

Native to Tropical & Subtropical America, naturalized elsewhere in the Tropics, Subtropics and Temperates Regions. Africa

Wele Nzaz: Asok, *Del Val* s.n. (MA-715821).

Ipomoea involucrata Beauv., Fl. Oware 2: 52, tab. 89 (1817)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: P.N. Monte Alén, Misergue-Churu, *Pérez Viso* 1649 (MA-708487); P.N.

Monte Alén, carretera Monte Alén-Moka, *Velayos & al.* 9478 (MA-708482). Kie Ntem: Nsok Nsomo, Mocomo, *Cabezas & al.* 1281 (MA-883911); alrededores del poblado de Obot Nku-Eseng, a 7 km de Nsok Nsomo, *Barberá & al.* 176 (MA-831709); Nfuiñ, a 29 km de Nsok Nsomo por la pista que va hacia Bata, *Cabezas & al.* 1341 (MA-831826); Nsok Nsomo, camino que va desde Nsok Nsomo a Bata, a unos 3 km de Nsok Nsomo, Mocomo, *Cabezas & al.* 1281 (MA-831836); Akam, carretera hacia Nsok Nsomo, *Fero & Esono* 102 (MA-808306). Litoral: al lado del río Ndote, *Eneme Efua* 260 (WAG); Pista Sendje-Bisun, a 9 km de Sendje, cerca del antiguo poblado de Bisun, *Cabezas & al.* 2086 (MA-884331); río Campo, carretera de la playa al pueblo, *Barberá & al.* 321 (MA-844504). Río Muni: [without locality], *Eneme Efua* 387 (BATA).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 41) Kie Ntem (Guinea 1946: 184j), Litoral (Lejoly & Lisowski 1998: 41); 1999a: 101) and Wele Nzas (Lejoly & Lisowski 1998: 41; 1999a: 118; Guinea 1946: 150).

Ipomoea mauritiana Jacq. in *Collectanea* 4: 216 (1790) [1791]

NE Native

Native to Tropical America & Africa, naturalized in Tropical & Subtropical Asia. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province). Madagascan Region. Also known from Annobón and Bioko.

Litoral: Conisio. Distrito de Kogo, *Obama* 730 (WAG); carretera de Mbini-Bata, puente Sendje sobre el río Wele o Woro, *Fero & al.* 307 (MA-844580, 883912); costa Benito, Etembue, *Guinea* 986 (MA-715818); 987 (MA-715817); Corisco, camino hacia el N a 100 m de la casa de Yniestrosa, *Velayos & al.* 9944 (MA-706846); Benito, *Guinea* 339 (MA-393422). Río Muni: [without locality], *Eneme Efua* 274 (BATA).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 41), Litoral (Lejoly & Lisowski 1998: 41; Guinea 1946: 344a) and Río Muni without any precise locality (Guinea 1946: 350).

Ipomoea pes-caprae subsp. ***brasiliensis*** (L.) Oost. in *Blumea* 3: 533 (1940)

LC Native

Native to Tropical & Subtropical coasts of the world. Sudano-Zambezian Region (Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 42; 1999a: 101; Guinea 1946: 65, 169) and Río Muni without any precise locality (Guinea 1946: 70).

Ipomoea quamoclit L., *Sp. Pl.*: 159 (1753)

NE Naturalized

Native to Mexico and C. America, naturalized worldwide. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Centro Sur: Región del Mafanébú [bosques entre Centro Sur y Wele Nzás], *Guinea* 223 (MA-687712). Litoral: Bata-Asonga, *Carvalho* 5436 (MA-598435, MO, WAG).

Ipomoea triloba L., Sp. Pl. 1: 161 (1753)

LC Naturalized

Native from Mexico to Brazil, naturalized anywhere. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 42).

Neuropeltis acuminata (P.Beauv.) Benth. in Hook. (ed.), Niger Fl. 469 (1849)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Mbubuin, estrada km. 30. Neste local tomamos estrada em direção a Niefang cerca de 5 km, *Carvalho* 5051 (MA-599145, MO, WAG); Bata-Niefang, estrada km. 35, Akora, *Carvalho* 5756 (MA-599106, WAG).

Neuropeltis aenea R.D.Good in J. Bot. 67 (Suppl. 2): 114 (1929)

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bome, *Carvalho* 4972 (MA, MO, WAG); Bata-praderas de Bome, *Carvalho* 5203 (MA-598152, MO, WAG).

Neuropeltis incompta R.D.Good in J. Bot. Brit. & For. 67 (Suppl. 2): 114 (1929)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Kie Ntem: Ngomgom, poblado de la pista que va de Nsok Nsomo a Bata, *Barberá & al.* 48 (MA-831651). Litoral: Bata-Dibolo, estrada kms. 55-56, *Carvalho* 5210 (MA-599742, MO, WAG); Bata-Mbubuin, estrada km. 30. Neste local tomamos estrada en direccao a Niefang, *Carvalho* 5049 (MA-599245, MO, WAG), 5052 (MA-599146, MO, WAG).

Neuropeltis velutina Hallier f. in Bull. Herb. Boissier 5: 374 (1897)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 42).

CRASSULACEAE

Kalanchoe crenata Haw. in Pers., Syn. Pl. 1: 446 (1805)

NE Native

Native to Tropical & S. Africa, Arabian Peninsula. Sudano-Zambezian Region

(Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: inselberg de Bicurga, près du village de Bicurga, *Parmentier, I. 1665* (BRLU, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 42) and Wele Nzas (Lejoly & Lisowski 1998: 42; 1999a: 118).

Kalanchoe pinnata (Lam.) Pers., Syn. Pl. 1: 446 (1805)

NE Cultivada

Native to Madagascar, naturalized anywhere in the Tropical world. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Litoral: Área de Mbini. Poblado de Bilen, Bitica y Mboete, *López Serrano 190419, 190420* (MA).

CUCURBITACEAE

Bambekea racemosa Cogn. in Bull. Jard. Bot. État 5: 116 (1916)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Niefang, estrada Km. 35. Entre los Ríos Sama y Comayá, *Carvalho 5741* (MA-599061, WAG).

Coccinia barteri (Hook.f.) Keay in Kew Bull. 8: 82 (1953)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Niefang, estrada km. 35. Comayá, *Carvalho 5582* (MA-598820, MO, WAG); Bata-Niefang, estrada km. 35. Mboete, *Carvalho 5571* (MA-598567, MO, WAG).

Coccinia mildbraedii Harms in Notizbl. Bot. Gart. Berlin-Dahlem 8: 492 (1923)

NE Introduced/Cultivated

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 42).

Coccinia subhastata Keraudren in Aubrév. (ed.), Fl. Cameroun 6: 131, tab. 25 (1967)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian

Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 42).

Cogniauxia podolaena Baill. in Bull. Mens. Soc. Linn. Paris 1: 423 (1884)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: carretera de Monte Bata hacia Río Campo, *Pérez Viso* 2435 (MA-714565); Oyac Esom, *Pérez Viso* 3438 (MA-713390); Niefang, Bindeng, pista hacia el río Uoro, *Pérez Viso* 2406 (MA-708473); Bata-Monte Alen-Engon, márgenes del Río Lobo cerca de Engón, *Carvalho* 5527 (MA-599460, MO, WAG). Kie Ntem: Akam II, carretera hacia Nsok Nsomo, *Fero & Esono* 116 (MA-808732). Wele Nzas: Eviam, Aconibe-Acurenem, *Pérez Viso* 1831 (MA-745481); Añisok-Mongola, *Pérez Viso* 3750 (MA-706617); Nvua-Nnvam Oveng, Añisok, *Pérez Viso* 2995 (MA-708480).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 42) and Litoral (Lejoly & Lisowski 1998: 42).

Cucumis metulifer E.Mey. ex Naudin in Ann. Sci. Nat., Bot., sér. 4, 11: 10 (1859)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Litoral: Bata: Zona de Lea, *Carvalho* 6375 (MA-620567, WAG).

Cucurbita maxima Duchesne ex Lam., Essai Hist. Nat. Courges: 7 (1786)

NE Cultivada

Native from Bolivia to N. Argentina, Cultivate worldwide. Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Región.

Previously reported from Río Muni without any precise locality (Guinea 1946: 365).

Lagenaria breviflora (Benth.) Roberty in Bull. Inst. Franç. Afrique Noire 16: 795 (1954)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobon and Bioko.

Centro Sur: carretera Ojap, *Guinea* 52-53-315 (MA-714589).

Previously reported from Kie Ntem (Guinea 1946: 184j, 365).

Lagenaria guineensis (G.Don) C.Jeffrey in Kew Bull. 15: 355 (1961) [1962]

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 43).

Lagenaria siceraria (Molina) Standley in Publ. Field Columbian Mus., Bot. Ser. 3: 435 (1930)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Annobón and Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 366).

Luffa acutangula (L.) Roxb., Fl. Ind. ed. 1832, 3: 713 (1832)

NE Cultivada

Native to India, naturalized in the rest of the Paleotropic. Guineo-Congolian Region (Upper Guinea Province). Also known from Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 366).

Luffa cylindrica (L.) Roem., Fam. Nat. Syn. Monogr. 2: 63-64 (1846)

NE Naturalized

Native to the Paleotropic, cultivated and naturalized worldwide. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Annobón and Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 366).

Melothria sphaerocarpa (Cogn.) H.Schaeff. & S.S.Renner in Taxon 60(1): 134 (2011)

NE Native

Native to Tropical America, naturalized in W. Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Oyac Esom, *Pérez Viso* 3433 (MA-714588).

Previously reported from Río Muni without any precise locality (Hepper 1954: 214; Hutchinson & Dalziel 1928: 182; Guinea 1946: 365).

Momordica cabrae (Cogn.) C.Jeffrey in Kew Bull. 15: 356 (1961)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-

Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni without any precise locality (Hepper 1954: 211).

Momordica charantia L., Sp. Pl.: 1009 (1753)

NE Native

Native to Tropical & Subtropical Old World and Australia. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Annobón and Bioko.

Centro Sur: Área de Niefang. Poblado camino de Nkumekien, *López Serrano* 040512, 040513, 040514 (MA). Litoral: Río Campo, desembocadura del río Campo, *Pérez Viso* 2482 (MA-708474); Bata-Senye (Senge), estrada km. 42-43, población de Senge, *Carvalho* 6307 (MA-620656, WAG); Route de Nco vers Misobong au niveau de la grande cascade, *Nguema & Lejoly* 189 (MA-611877); Bata-Bome, *Carvalho* 5123 (MA-599678, MO, WAG); Bata-Niefang, estrada Km. 35. Entrada a la zona de Comayá, *Carvalho* 5709 (MA-599133, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 43; Guinea 1946: 158) and Río Muni without any precise locality (Guinea 1946: 366).

Momordica cissoides Benth. in Hook. (ed.), Niger Fl.: 370 (1849)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Niefang, estrada km. 35. Entre Río Sama e Río Comayá, *Carvalho* 5659 (MA-598523, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 43) and Wele Nzas (Lejoly & Lisowski 1998: 43).

Momordica foetida Schumach., Beskr. Guin. Pl.: 426 (1827)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Centro Sur: Niefang, explotación forestal de Matroguisa, *Pérez Viso* 2244 (MA-714566); carretera Ojap, *Guinea* 4 (MA-702217); P.N. Monte Alén, carretera de Moka a Bicurga, *Pérez Viso* 132 (MA-699538). Wele Nzas: Mbut, km. 30 de la carretera de Enkue, *Pérez Viso* 3668 (MA-708476).

Previously reported from Litoral (Lejoly & Lisowski 1998: 43; Guinea 1946: 158).

Momordica multiflora Hook.f. in Oliv. (ed.), Fl. Trop. Afr. 2: 540 (1871)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Centro Sur: c. 11 km S of Niefang. Mount Alen National Park, *Wilde, J.J.F.E. de 12002* (WAG). Litoral: Bata-Niefang, estrada km. 35. Mboete, Comayá, *Carvalho 5595* (MA-598518, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 43)

Neoachmandra gillettii (De Wild.) W.J.de Wilde & Duyfjes in *Blumea* 55: 294 (2010)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 43)

Raphidiocystis chrysocoma (Schumach.) C.Jeffrey in *Kew Bull.* 15(3): 360 (1963)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Bong, senda que va hacia el lago Atok, *Pérez Viso 1327* (MA-712494)

Raphidiocystis jeffreyana R.Fern. & A.Fern. in *Bol. Soc. Brot. ser. 2*, 36: 143 (1962)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 43)

Ruthalicia longipes (Hook.f.) C.Jeffrey in *Kew Bull.* 15: 361 (1962)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni without any precise locality (Hepper 1954: 214; Guinea 1946: 366)

Sechium edule (Jacq.) Sw., *Fl. Ind. Occid.* 2: 1150 (1800)

NE Cultivada

Native from Mexico to Belize, naturalized in the rest of the Tropics. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 366).

Telfairia occidentalis Hook.f. in Oliv. (ed.), Fl. Trop. Afr. 2: 524 (1871)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 366)

Zehneria capillacea (Schumach.) C.Jeffrey in Kew Bull. 15: 366 (1962)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Bome, entre río Boara a 10 km. Movo, *Carvalho 4719* (MA-597473)

Previously reported from Litoral (Lejoly & Lisowski 1998: 43)

Zehneria gillettii (De Wild.) C.Jeffrey in Kew Bull. 15: 366 (1961 publ. 1962)

DD Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Schaefer 2021: 102).

DICHAPETALACEAE

Dichapetalum acuminatum De Wild., Etudes Fl. Bangala & Ubangi: 221 (1911)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 43; 1999a: 119).

Dichapetalum angolense Chodat in Bull. Herb. Boissier 3: 672 (1895)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Niefang, estrada Km. 35. En dirección de Adjape a zona de Comayá, *Carvalho 5675* (MA-598977, WAG)

Dichapetalum bangii (Didr.) Engl. in Engl. & Prantl (eds.), Nat. Pflanzenfam. 3(4): 349 (1896)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Monte Alen: Alrededores de povoação de Moka, *Carvalho 5606* (MA-598824, WAG).

Dichapetalum congoense Engl. & Ruhland in Bot. Jahrb. Syst. 33: 78 (1902)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province)

Litoral: Bata-Bicomo: Margens del Río Ecucu, *Carvalho 5218* (MA-599736, MO, WAG).

Dichapetalum cymulosum (Oliv.) Engl. in Engl. & Prantl (eds.), Nat. Pflanzenfam. 3(4): 349 (1896)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-San Joaquin de Ndyjacon-Ayamiken, *Carvalho 5087* (MA-615916, MO, WAG); Bata-Machinda, estrada Km. 20, *Carvalho 6038* (MA-609789, WAG); Bata-Bicomo, estrada kms. 14-15, *Carvalho 5149* (MA-599723, MO, WAG); Bata-Niefang, estrada kms. 46-47, entre Adjape y río Sama, *Carvalho 5601* (MA-598826, MO, WAG).

Dichapetalum dewevrei De Wild. & T.Durand in Ann. Mus. Congo Belge. Bot. sér. 3(1)1: 41 (1901)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Akoniquieng: Zona de Central de Radio, *Carvalho 4998* (MA-628477, MO, WAG); Bata-Ntobo, zona de Central de Rádio, *Carvalho 5033* (MA-615917, MO, WAG).

Dichapetalum dewildei Breteler in Meded. Landbouwhoogeschool Wageningen 78(10): 56 (1978)

NE Native

Tropical Africa. Guineo-Congolian Region Nigerian-Cameroonian Province).

Centro Sur: c. 11 km S of Niefang. Mount Alen National Park, *Wilde, J.J.F.E. de 12003* (WAG-35977).

Dichapetalum gabonense Engl. in Engl. & Prantl (eds.), Nat. Pflanzenfam. 3(4): 348 (1896)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Niefang, estrada km 35, povoação de Mboete, *Carvalho 5549* (MA, WAG); Litoral: Bata-Mongo-Zona Forestal de Alosa, *Carvalho 5417* (MA-615915, MO, WAG); Bata-S. Joaquin de Ndyjacon-Ayamiken, *Carvalho 5136* (MA-615913, MO, WAG); Bata-Mongo-Zona Madeireira de Alosa, entre Mongo de Serraço de Alosa, estrada kms. 2-3, *Carvalho 5342* (MA-598289, MO, WAG).

Dichapetalum heudelotii (Planch. ex Oliv.) Baill., Hist. Pl. 5: 140 (1874)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: parc national de Monte Alen, dalle rocheuse de Monte Alen 2, á 1h30 de marche du site ECOFAC de Monte Alen, *Parmentier, I. 1535* (WAG). Litoral: Bata-Niefang, estrada km. 35. Comayá, *Carvalho 5642* (MA-598574, MO, WAG); Bata-Pembe, estrada kms. 19-20, *Carvalho 4849* (MA-597733, MO, WAG); aeródromo de Bata, *Guinea 630* (MA-301352).

Dichapetalum madagascariense Poir. in Lam., Encycl. Suppl. 2: 470 (1812)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Centro Sur: Parc national de Monte Alen, dalle rocheuse d'Engong, 5 km à l'ouest du Village d'Engong, *N.S. Nguema Miyono 444bis* (WAG). Litoral: Bata-Niefang, entre Río Sama e Comayá, *Carvalho 5609* (MA-615914, MO, WAG).

Dichapetalum mundense Engl. in Engl. & Prantl (eds.), Nat. Pflanzenfam. 3(4): 348 (1896)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Alen (15 miles from mouth of River Benito), *Bates 597* (L).

Dichapetalum rudatisii Engl. in Bot. Jahrb. Syst. 46: 582 (1912)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata, arredores de povoação de Akoniquieng, *Carvalho 5007* (MA-598972, MO, WAG).

Dichapetalum tomentosum Engl. in Engl. & Prantl (eds.), Nat. Pflanzenfam. 3(4): 349 (1896)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 158).

Dichapetalum zenkeri Engl. in Engl. & Prantl (eds.), Nat. Pflanzenfam. 3(4): 349, i. c. 138 (1896)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Litoral: Bata-Asonga: Alrededores del poblado de Bomudi, *Carvalho* 5125 (MA-599680, MO, WAG); Bata, entre Asonga e Ngoló km. 3-4, *Carvalho* 5063 (MA-610098, MO, WAG); Bata-Niefang, estrada kms. 15-16, *Carvalho* 4789 (MA-597932, MO, WAG)

Tapura africana Oliv. in Oliv. (ed.), Fl. Trop. Afr. 1: 344 (1868)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 156, 158).

DILLENACEAE

Tetracera alnifolia Willd., Sp.Pl. (ed.4) 2: 1243 (1799)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Litoral: [without locality], *Eneme Efua* 268 (BATA); Mbini, Senye I, salida del poblado hacia Monte Mitra, *Velayos & al.* 13408 (MA-884413, 884414); Bata-río Utonde, *Carvalho* 5129 (MA-599684, MO, WAG); Bata-Pembe: Praderas gramíneas de Eyang-Mbaha. Estrada kms. 20-21, *Carvalho* 5035 (MA-598924, MO, WAG); Bata-Pembe: Pradera de Eyang-Mbaha. Estrada kms. 29-30, *Carvalho* 4832 (MA-597687, MO, WAG); Bata-Bome, *Carvalho* 4770 (MA-597681, MO, WAG). Río Muni: [without locality], *Eneme Efua* 164 (BATA).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 44), Litoral (Guinea 1946: 167, 168j, 178, 184) and Wele Nzas (Guinea 1946: 150).

Tetracera potatoria Afzel. ex G.Don, Gen. Hist. 1: 69 (1831)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 44; 1999a: 102).

DROSERACEAE

Drosera indica L., Sp. Pl.: 282 (1753)

LC Native

Native to Tropical & S. Africa, Madagascar, Tropical & Subtropical Asia. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Litoral: Bata-Bome, estrada kms. 10-11, *Carvalho* 5144 (MA-599674).

Drosera madagascariensis DC., Prodr. (DC.) 1: 318 (1824)

LC Native

Native to tropical Africa and Madagascar. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region.

Previously reported from Litoral (Lejoly & Lisowski 1998: 44).

EBENACEAE

Diospyros barteri Hiern in Trans. Cambridge Philos. Soc. 12: 187 (1873)

VU Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Senterre 2005: 55; Guinea 1946: 146).

Diospyros bipindensis Gürke in Bot. Jahrb. Syst. 26: 70 (1899)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: SO du Parc National de Monte Alén, sur le transect Ecofac de Mosumo à 500 m du début du layon, *Senterre & Ngomo* 592 (MA-724049); P.N. Monte Alén, dalle rocheuse d'Engong, 5 km à l'ouest du Village d'Engong, *Parmentier & Esono* 2894 (BRLU). Kie Ntem: Village Nfeb-Dyong. Distrito Micomiseng, *Obama* 774 (BRLU, WAG). Litoral: Bata-Senge, estrada km.27. Estrada hacia la antigua explotación forestal, *Carvalho* 6320 (MA-642064).

Previously reported from Centro Sur (Senterre 2005: 55) and Litoral (Senterre 2005: 55; Guinea 1946: 157).

Diospyros canaliculata De Willd., Pl. Bequaert. 3: 537 (1926)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 44).

Diospyros cinnabarina (Gürke) F.White in Bull. Jard. Bot. État Bruxelles 26: 242 (1956)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: SO de Parc National de Monte Alén, 200 m au S du transect Ecofac de Mosumo à 1450 m du début du layon, *Senterre & Ngomo* 949 (MA-724044). Litoral: Bata-Senge, estrada km. 27. Antigua explotación forestal de la empresa Exfosa, *Carvalho* 6186 (MA-642122, MO, WAG); Bata-Niefang, estrada Km. 35. En los alrededores del Río Comayá, *Carvalho* 5749 (MA-599055).

Previously reported from Centro Sur (Senterre 2005: 57-58) and Litoral (Senterre 2005: 57-58).

Diospyros cleistantha O.Lachenaud & G.E.Schatz in Pl. Ecol. Evol. 150(2): 218 (2017)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lachenaud *et al.* 2017: 218).

Diospyros conocarpa Gürke & K.Schum. in Bot. Jahrb. Syst. 14: 311 (1892)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Miyobo: carretera Niefang-Mosumu. Senda hacia el río Laña, *Pérez Viso* 2551 (MA-780214); P.N. Monte Alén, transect de Mosumo, *Senterre & Ngomo s.n.* (BRLU). Kie Ntem: Ngomgom, poblado de la pista que va de Nsok Nsomo a Bata, *Barberá & al.* 108 (MA-831681). Litoral: Ayamiken, reserva de Río Campo, *Obama* 114 (BRLU); Bata-Senge, estrada km.27, *Carvalho* 6199 (MA-642360).

Previously reported from Centro Sur (Senterre 2005: 58), Litoral (Lejoly & Lisowski 1998: 44;; Senterre 2005: 58; White 1978: 298), Wele Nzas (Lejoly & Lisowski 1999a: 120; Senterre 2005: 58) and Río Muni without any precise locality (Hepper 1963: 11).

Diospyros crassiflora Hiern in Trans. Cambridge Philos. Soc. 12: 260 (1873)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, transect de Mosumo, *Senterre & Ngomo s.n.* (BRLU); SO de Parc National de Monte Alén, 200 m au S du transect Ecofac de Mosumo à 1620 m du début du layon, *Senterre & Ngomo* 658 (MA-724045).

Previously reported from Centro Sur (Senterre 2005: 58; Guinea 1946: 142), Litoral (Senterre 2005: 58) and Wele Nzas (Senterre 2005: 58).

Diospyros dendo Hiern in Trans. Cambridge Philos. Soc. 12: 195, tab. 10 (1873)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye (Senge), estrada Km 27. Zona forestal de 3 OKUMES, *Carvalho* 6227 (MA-620360, MO, WAG); Bata-Mbini, estrada kms. 23-24. Zona de exploración forestal, *Carvalho* 5268 (MA-598146); Bata-Dibolo, estrada km. 44. cruce para S. Joaquin de Ndyicon. Estrada kms. 63-64, *Carvalho* 4896 (MA-597893, MO, WAG); Bata-Bolondo, estrada Km. 35-36, *Carvalho* 6005 (MA-609842, WAG).

Previously reported from Litoral (Senterre 2005: 58).

Diospyros fragrans Gürke in Bot. Jahrb. Syst. 46: 154 (1912)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, transect de Mosumo, *Senterre & Ngomo s.n.* (BRLU). Litoral: Jandje, *Eneme 482* (BRLU, WAG); Bata-Senge-Mitom-Emangós, estrada km.66-67 después de Emangós, *Carvalho 6493* (MA-642277, WAG); Bata-Senge, estrada km.27, *Carvalho 6143* (MA-642073). Wele Nzaz: inselberg de Akoak Ebanga, *Parmentier & Nguema 188* (BRLU).

Previously reported from Centro Sur (Senterre 2005: 58), Litoral (Senterre 2005: 58), Wele Nzaz (Senterre 2005: 58) and Río Muni without any precise locality (White 1978: 309).

Diospyros gabunensis Gürke in Bot. Jahrb. Syst. 26: 72 (1898)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Monte Bata-Mbubuin, estrada km 30, *Carvalho 5090* (MA-832665, MO, WAG); Bata-Senye (Senge), estrada km. 27, *Carvalho 6130* (MA-619286, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 44; Senterre 2005: 58) and Litoral (Senterre 2005: 58).

Diospyros gracilescens Gürke in Bot. Jahrb. Syst. 46: 155 (1912)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, *Senterre & Obiang s.n.* (BRLU); P.N. Monte Alén, transect de Mosumo, *Senterre & Ngomo s.n.* (BRLU). Litoral: Nco, 20 km ENE vers la riv. Mitong, *Nguema & Lejoly 145* (BRLU).

Previously reported from Centro Sur (Senterre 2005: 58) and Litoral (Senterre 2005: 58).

Diospyros hoyleana F.White in Bull. Jard. Bot. État Bruxelles 26: 245 (1956)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: inselberg de Bicurga, près du village de Bicurga, *Parmentier & Esono 3216* (BRLU); P.N. Monte Alén, *Lisowski 1540* (BRLU). Litoral: c. 11 km S of Bata, along coastal road and then 2 km along track in Southern direction, *de Wilde 11992* (MO, WAG); Jandje, *Eneme 480* (BRLU, WAG); Ndote Nord, *Lisowski 151* (BRLU); Ndote Sud. Espigon, *Lisowski 1083,1* (BRLU); Bata-Bome, *Carvalho 4953* (MA-597718, MO,

WAG), 4797 (MA-711351, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 45; Senterre 2005: 58), Litoral (Lejoly & Lisowski 1998: 45; Senterre 2005: 58), Wele Nzas (Senterre 2005: 58) and Río Muni without any precise locality (Hutchinson 1931: 6).

Diospyros iturensis (Gürke) Letouzey & F.White in *Adansonia*, sér. 2, 9: 277 (1969)
LC Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, *Senterre & Obiang s.n.* (BRLU); P.N. Monte Alén, transect de Mosumo, *Senterre & Obiang s.n.* (BRLU); *Senterre & Ngomo s.n.* (BRLU); SO du Parc National de Monte Alén, río Uolo, *Senterre & al.* 2038 (MA-724046).
Litoral: Ayamiken, reserva de Río Campo, *Obama 121* (BRLU).

Previously reported from Centro Sur (Senterre 2005: 58-59) and Litoral (Lejoly & Lisowski 1998: 45).

Diospyros kamerunensis Gürke in *Bot. Jahrb. Syst.* 26: 69 (1899)
LC Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, *Senterre & Obiang s.n.* (BRLU); P.N. Monte Alén, transect de Mosumo, *Senterre & Ngomo s.n.* (BRLU); SO du Parc National de Monte Alén, 200 m au S du transect Ecofac de Mosumo, *Senterre & Ngomo* 843 (MA-724047).

Previously reported from Centro Sur (Senterre 2005: 59), Litoral (Senterre 2005: 59) and Wele Nzas (Guinea 1946: 146).

Diospyros longiflora Letouzey & F.White in *Adansonia*, sér. 2, 9: 279 (1969)
NT Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 45).

Diospyros mannii Hiern in *Trans. Cambridge Philos. Soc.* 12: 255 (1873)
LC Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, transect de Monte Chocolate, *Lejoly s.n.* (BRLU). Litoral: Handje 3 km vers le SE, layon 3, *Lejoly & Elad s.n.* (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 45; Senterre 2005: 59) and Litoral (Senterre 2005: 59).

Diospyros melocarpa F.White in Bull. Jard. Bot. État Bruxelles 33: 347, fig. 19J–O (1963)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko

Centro Sur: P.N. Monte Alén, *D. Ngomo* 34 (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 45).

Diospyros mespiliformis Hochst. ex A.DC., Prodr. 8: 672 (1844)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province).

Previously reported from Río Muni without any precise locality (Guinea 1946: 343).

Diospyros obliquifolia (Hiern ex Gürke) F.White in Bull. Jard. Bot. État Bruxelles 33: 364 (1963)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, transect de Mosumo, *Senterre & Ngomo s.n.* (BRLU); *Senterre & Obiang s.n.* (BRLU); Engong, *Eneme* 177 (BRLU, WAG). Litoral: Nco, 5 km vers ENE, *Nguema & Lejoly* 169 (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 45; Senterre 2005: 59), Litoral (Senterre 2005: 59; White 1978: 321; 1963: 364) and Wele Nzaz (Senterre 2005: 59).

Diospyros physocalycina Gürke in Bot. Jahrb. Syst. 26: 68 (1899)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Ayamiken, reserva de Río Campo, *Obama* 12 (BRLU).

Previously reported from Litoral (Senterre 2005: 59).

Diospyros piscatoria Gürke in Bot. Jahrb. Syst. 46: 155 (1912)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, transect de Mosumo, *Senterre & Ngomo s.n.* (BRLU); P.N. Monte Alén, *Senterre & Obiang s.n.* (BRLU).

Previously reported from Centro Sur (Senterre 2005: 59), Litoral (Senterre 2005: 59) and Río Muni (Hepper 1963: 10).

Diospyros polystemon Gürke in Bot. Jahrb. Syst. 43: 210 (1909)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Senterre 2005: 59) and Litoral (Senterre 2005: 59).

Diospyros preussii Gürke in Bot. Jahrb. Syst. 14: 313 (1892)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, transect de Mosumo, *Senterre & Obiang s.n.* (BRLU); P.N. Monte Alén, *Senterre & Obiang s.n.* (BRLU); *D. Ngomo 19, 560* (BRLU); SO de Parc National de Monte Alén, río Uolo, *Senterre & al. 2034* (MA-724048). Litoral: Ayamiken, reserva de Río Campo, *Obama 14* (BRLU); *Lejoly s.n.* (BRLU); Apiladero de Jandje (4 km à l'E du village) (Réserve de Ndote), *Eneme & Lejoly 125* (BRLU); Bata-Bicomo, nas margens do río Ecucu no local da 2ª tomada de água, *Carvalho 4917* (MA-716936, MO, WAG); Bata-Niefang, estrada Km. 35, en dirección de Adjape a la zona de Comayá, *Carvalho 5790* (MA-609967, WAG).

Previously reported from Centro Sur (Senterre 2005: 59) and Litoral (Lejoly & Lisowski 1998: 45; Senterre 2005: 59).

Diospyros pseudomespilus F.White in Notizbl. Bot. Gart. Berlin-Dahlem 9: 1050 (1926)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Senterre 2005: 59).

Diospyros sanza-minika A.Chev., Vég. Util. Afr. Trop. Franç. 5: 155 (1909)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, transect de Mosumo, *Senterre & Obiang s.n.* (BRLU); P.N. Monte Alén, *Senterre & Obiang s.n.* (BRLU). Litoral: Près de la frontière gabonaise, chantier forestier à l'est de Cogo, *McPherson 14005* (MO, WAG); Bata-Senge, estrada km. 27, *Carvalho 6177* (MA-642361).

Previously reported from Centro Sur (Senterre 2005: 60) and Litoral (Senterre 2005: 60).

Diospyros suaveolens Gürke in Bot. Jahrb. Syst. 26: 68 (1898)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Senterre 2005: 60).

Diospyros viridicans Hiern in J. Bot. 59: 129 (1921)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, transect de Mosumo, *Senterre & Ngomo s.n.* (BRLU).

Diospyros zenkeri (Gürke) F.White in Bull. Jard. Bot. État 26: 244 (1956)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Senterre 2005: 60).

ERYTHROXYLACEAE

Aneulophus africanus Benth. in Benth. & Hook.f., Gen. Pl. 1: 244 (1862)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: pradera de Ndote, *Eneme Efua 309* (BATA); Bata-Bome, margens do rio Boara, *Carvalho 4706* (MA-597838, MO, WAG), *4712* (MA-597509, MO, WAG).

EUPHORBIACEAE

Acalypha brachystachya Hornem., Hort. Bot. Hafn. 2: 909 (1815)

NE Native

Paleotropical. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Guinea 1946: 142).

Acalypha hispida Burm.f., Fl. Ind. 303, pl. 61, fig. 1. (1768)

NE Cultivated

Probably native to Malaysia, cultivated worldwide and locally naturalized. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Jandje, *Eneme 540* (BATA); Etembue, *Del Val s.n.* (MA-715848)

Previously reported from Litoral (Barberá *et al.* 2013: 6).

Acalypha marginata (Poir.) Spreng., Syst. Veg. (ed. 16) 3: 879 (1826)

NE Cultivated

Native to Réunion and Mauritius. cultivated worldwide and locally naturalized. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 45).

Acalypha ornata Hochst. ex A.Rich. Tent. Fl. Abyss. 2: 247 (1851)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 159).

Acalypha paniculata Miq., Fl. Ned. Ind. 1(2): 406 (1859)

NE Native

Native to Tropical Africa, Arabian Peninsula, India, Sri Lanka and Jawa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 159) and Wele Nzaz (Guinea 1946: 151).

Acalypha wilkesiana Müll.Arg. in Prodr. (DC.) 15(2.2): 817 (1866)

NE Introduced

Native from Bismarck Archipelago to SW. Pacific, naturalized in the Tropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 45).

Alchornea cordifolia (Schumach. & Thonn.) Müll.Arg. in Linnaea 34: 170 (1865)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Moka, senda que sube al repetidor de televisión, *Pérez Viso* 107 (MA-839509); Acurenám, Mbeayop, *Aedo & al.* 5407 (MA-705232); Oyac Esom, *Pérez Viso* 3451 (MA-715225); Niefang, explotación forestal de Matroguisa, *Pérez Viso* 2290 (MA-724002); P.N. Monte Alén, Engong, *Pérez Viso* 343bis (MA-724063); 836 (MA-843998); P.N. Monte Alén, *Ngomo* 134 (BATA). Kie Ntem: Akam, *Fero & Esomo* 68 (MA-808140); 88 (MA-808281); 114 (MA-808946); Nsoc Nsomo, camino que va desde Nsoc Nsomo a Bata, *Cabezas & al.* 1277 (MA-831867); 1285 (MA). Litoral: Área de Machinda. Poblado de Adam-Tum, *López Serrano* 130311, 130312 (MA); Área de Mbini. Poblado de Bolondo y Matondo, *López Serrano* 170401, 170402 (MA); Área de Mbini. Poblado de Miton y Minang, *López Serrano* 120419, 120420, 120421 (MA); Bata, cerca del puerto, *Pérez Viso* 1457 (MA-795903, MO);

Bata, km. 26 carretera Bata-Movo, *Castelo & al. s.n.* (MA-319721); Bata-Kogo, km 67, *Pérez Viso 1841* (MA-723998); Bata-Pembe, estrada kms. 18-19, *Carvalho 5189* (BATA, MA-598209, MO, WAG); Benito, *Guinea 276-553* (MA-723988); Corisco, *Velayos & al. 9960* (MA-705044); desembocadura del río Campo, *Pérez Viso 2140* (MA-724007), *2141* (MA-724008); Ecuco, *Guinea 575-164* (MA-723995); 583 (MA-723990); Ndote Nord, environs du village Jandje, *Lisowski M-51* (BATA); Ndote, *Eneme 246* (BATA); Utonde, camino que va de la orilla del río a la carretera de Bata, *Barberá & al. 262* (MA-843776). Wele Nzaz: Nkolentangan, *Tessmann 167* (K); explotación maderera de Añisok-Mongola, *Pérez Viso 3749* (MA-724005).

Previously reported from Centro Sur (Guinea 1946: 142, 184i; Barberá *et al.* 2013: 7), Kie Ntem (Barberá *et al.* 2013: 7), Litoral (Thiselton-Dyer 1913: 916; Guinea 1946: 156; Barberá *et al.* 2013: 7), Wele Nzaz (Pax & Hoffmann 1914: 232; Thiselton-Dyer 1913: 916; Guinea 1946: 145; Barberá *et al.* 2013: 7) and Río Muni without any precise locality (Pax & Hoffmann 1914: 232; Thiselton-Dyer 1913: 916).

Alchornea floribunda Müll.Arg. in *Flora* 47: 435 (1864)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur; P.N. Monte Alén, carretera que sube desde el hotel de Monte Alén hasta el repetidor de televisión, *Pérez Viso 61* (MA-843999); Bisun, carretera de Niefang a Evinayong, *Pérez Viso 3411* (MA-714010); Monte Alen, subida al mirador, *Velayos & Pérez Viso 9286* (MA-713917); *Cabezas 120* (MA-695653); P.N. Monte Alén, Esamalang, *Pérez Viso 1176* (MA-839511); Niefang, Bindeng, *Pérez Viso 2379* (MA-844002); *2405* (MA-713810); Nfing Ntagan, poblado en la carretera forestal de Niefang a Bata, a continuación de Mosumu, *Pérez Viso 2753bis* (MA-843985); Área de Niefang, poblado de Alan, carretera de Micomesen, *López Serrano 130637, 130638, 130639, 130640* (MA); Niefang, explotación forestal de Matroguisa, *Pérez Viso 2325* (MA-796333). Kie Ntem: alrededores del poblado de Obot Nku-Eseng, a 7 km de Nsok Nsomo, *Barberá & al. 156* (MA-831432); Nfek-ayong (Micomiseng), *Obama 777* (BATA). Wele Nzaz: Nvua-Nnvam Oveng, Añisok, *Pérez Viso 2999* (MA-723999); Eviam, carretera forestal de Bata a Niefang, *Pérez Viso 2619* (MA-716915); Ebo-Ngoo Nsomo, carretera forestal Añisok Mongola-Niefang, *Pérez Viso 3170* (MA-716907); Mbut, km. 30 de la carretera de Enkue, *Pérez Viso 3681* (MA-713820).

Previously reported from Centro Sur (Barberá *et al.* 2013: 8), Kie Ntem (Barberá *et al.* 2013: 8), Litoral (Pax & Hoffmann 1914: 241; Thiselton-Dyer 1913: 916), Wele Nzaz (Pax & Hoffmann 1914: 241; Thiselton-Dyer 1913: 916; Barberá *et al.* 2013: 8) and Río Muni without any precise locality (Hepper 1958: 403).

Alchornea hirtella Benth. in Hook. (ed.), *Niger Fl.*: 507 (1849)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province).

Centro Sur: Parc national de Monte Alen, dalle rocheuse d'Engong, 5km à l'ouest du

Village d'Engong, *N.S. Nguema Miyono* 447 (WAG); P.N. Monte Alén, Engong, camino hacia Lovayat, *Pérez Viso* 853 (MA-843918); P.N. Monte Alén, Engong, senda que va a una gran roca que se ve desde el pueblo, *Pérez Viso* 2682 (MA-716914); P.N. Monte Alén, Esamalang, *Pérez Viso* 584 (MA-713680); P.N. Monte Alén, Bong, senda que va hacia el lago Atok, *Pérez Viso* 1310 (MA-712872). Litoral: Corisco, *Velayos & al.* 9968 (MA-705036). Wele Nzaz: Eviam, *Pérez Viso* 1745 (MA-839505); pista forestal, entre Eviam y Aconibe, *Pérez Viso* 2091 (MA-715199); Eviam, Aconibe-Acurenem, *Pérez Viso* 1761 (MA-687688).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 46; Barberá *et al.* 2013: 8), Litoral (Lejoly & Lisowski 1998: 46; Guinea 1946: 154; Barberá *et al.* 2013: 8), Wele Nzaz (Lejoly & Lisowski 1998: 46; Barberá *et al.* 2013: 8) and Río Muni without any precise locality (Pax & Hoffmann 1914: 241; Hepper 1958: 403).

Aleurites moluccana (L.) Willd. in L., *Sp. Pl.* (ed. 4) 4(1): 590 (1805)

LC Naturalized

Native to Tropical Asia and Australia, naturalized in the rest of the Tropics. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province). Also known from Bioko.

Centro Sur: Evinayong, *Guinea* 439-353 (MA-723996); *s.n.* (MA-723991).

Anthostema aubryanum Baill., *Laness. Pl. util. col. franc.* 815 nomen (1886)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senge, estrada kms 8-9, *Carvalho* 6066 (MA-619123, WAG-143256).

Argomuelleria lancifolia (Pax) Pax in Engl. & Prantl (eds.), *Nat. Pflanzenfam.* ed. 2, 19c: 108 (1931)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Abang, Niefang, *Pérez Viso* 4217 (MA-799884). Wele Nzaz: Nkolentangan, *Tessmann* 359 (K-425611).

Previously reported from Centro Sur (Barberá *et al.* 2013: 9) and Wele Nzaz (Pax & Hoffmann 1914: 52; Thiselton-Dyer 1913: 962; Barberá *et al.* 2013: 9).

Argomuelleria macrophylla Pax in Bot. Jahrb. Syst. 19: 90 (1894)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Santa Cruz, *Pérez Viso* 1197 (MA-724001). Litoral: Distrito de Mbini, a 1.5 km al NE del Patio SOFOGE, *Nguema Miyono*, *N.S.* (BATA); Bebai, Campogebiet [región de Campo], *Tessmann* 563 (K); 624 (K).

Previously reported from Litoral (Pax & Hoffmann 1914: 50; Thiselton-Dyer 1913: 926) Wele Nzas (Lejoly & Lisowski 1998: 46) and Río Muni without any precise locality (Hepper 1958: 405; Hutchinson & Dalziel 1928: 304).

Codiaeum variegatum (L.) Blume, Euphorb. Gen. 80, 111 (1824)

LC Introduced

Native from Malesia to SW. Pacific, naturalized in Africa and America. Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 47).

Croton dybowskii Hutch. in Oliv. (ed.), Fl. Trop. Afr. 6: 755 (1912)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bome, *Carvalho* 5379 (MA-598261, MO, WAG); Bata-Bolondo, nas praderas gramíneas ao longo do Río Boara, *Carvalho* 4760 (MA-597319, MO, WAG).

Croton longiracemosus Hutch. in Oliv. (ed.), Fl. Trop. Afr. 6: 1052 (1913)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Monte Alen, no local chamado Campo, *Carvalho* 5314 (MA-598222, MO, WAG).

Croton mayumbensis J.Léonard in Bull. Jard. Bot. État 26: 390 (1956)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 47). We have not found any herbarium specimen supporting this record, nonetheless the distribution range and ecological requirements of the species makes its presences in the country reliable.

Croton oligandrus Pierre ex Hutch. in Oliv. (ed.), Fl. Trop. Afr. 6: 760 (1912)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Evinayong, *Guinea* 445 bis (MA-701166). Litoral: Bata-Senge-Mitom-Emangës, estrada km 33, *Carvalho* 6469 (MA-620823). Río Muni: [without locality], *Tessmann* 832 (K).

Previously reported from Río Muni without any precise locality (Thiselton-Dyer 1913: 761).

Croton sylvaticus Hochst. in Flora 28: 82 (1845)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 47). We have not found any herbarium specimen supporting this record

Croton wellensii De Wild. in Ann. Soc. Sci. Bruxelles 44(1): 545 (1925)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bikukbinii, Y. Azizet Issembé 46 (WAG); Bata-Senge, estrada km 11-12, *Carvalho 6018* (MA-609805); Bata-Bicomo, Central Hidroelectrica dobre el Río Ecucu, estrada kms 14-15, *Carvalho 4981* (MA-598911, MO, WAG)

Crotonogyne gabunensis Pax in Pl. Ecol. Evol. 151(3): 360 (2018)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Akonangi, *Tessmann 947* (K); P.N. Monte Alén, lago Atok, *Pérez Viso 17 bis* (MA-845601); *1064* (MA-844013); P.N. Monte Alén, Engong, *Pérez Viso 671* (MA-713921), *852* (MA, WAG-331647); *2673d* (MA-808694). Litoral: 3 km ESE d'Okuamos, *Wilks 1733* (LBV, WAG); c. 2 km NE of Elende, Cocoloondo riverside, *Wieringa & Haegens 2267* (WAG-95181); distr. Cogo, village Basilé, *Obama 789* (WAG-140998); Ayamiken, río Campo, *Pérez Viso 2821* (MA-745508); Bata-Senge, estrada km 27, *Carvalho 6164* (MA-619202). Río Muni: [without locality], *Tessmann 1002* (K). Wele Nzaz: Eviam, carretera forestal de Bata a Niefang, *Pérez Viso 2622* (MA-844011); *Pérez Viso 2647* (MA-844010, WAG).

Previously reported from Centro Sur (Breteler 2018: 362), Kie Ntem (Breteler 2018: 360; Thiselton-Dyer 1913: 824; Pax & Hoffmann 1912: 120), Litoral (Breteler 2018: 362) and Río Muni without any precise locality (Thiselton-Dyer 1913: 824).

Crotonogyne neglecta Breteler in Pl. Ecol. Evol. 151(3): 368 (2018)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Nfaman Summit, Bosque National, Midslope, *Leal, M. E. 2281* (MO, WAG).

Previously reported from Centro Sur (Breteler 2018: 368).

Crotonogyne poggei Pax in Bot. Jahrb. Syst. 20: 84 (1894)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 48). We have not found any herbarium specimen supporting this record, nonetheless the distribution range and the ecological requirements of the species makes its presence in the country reliable.

Crotonogynopsis korupensis Kenfack & D.W. Thomas in Novon 24: 249 (2015)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Litoral (Kenfack *et al.* 2015: 251). We have not found any herbarium specimen supporting this record, nonetheless the distribution range and the ecological requirements of the species makes its presence in the country reliable.

Cyrtogonone argentea (Pax) Prain in Bull. Misc. Inform. Kew 1911: 232 (1911)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: road Cogo, *Y. Azizet Issembé* 7 (WAG); Bata-Senge, estrada km 27, *Carvalho* 6173 (MA-619281). Wele Nzas: Nkolentangan, *Tessmann* 28 (K).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 48), Wele Nzas (Lejoly & Lisowski 1998: 48; Thiselton-Dyer 1913: 816) and Río Muni (Pax & Hoffmann 1912: 111; Hepper 1958: 399; Hutchinson & Dalziel 1928: 299).

Dalechampia ipomoeifolia Benth. in Hook. (ed.), Niger Fl.: 500 (1849)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: montagne près de Bikurga, *Lisowski M-1377* (BATA). Litoral: carretera de Mbini-Bata, puente Sendje sobre el río Wele o Woro, *Fero & al.* 303 (MA-844583); Bata-Pembe-Entuba, estrada km 20-21, *Carvalho* 5235 (BATA, MA-599491, MO, WAG); Bata-Pembe, estrada km 33, *Carvalho* 4835 (MA-597724, MO, WAG). Wele Nzas: région d'Anisok, au-dessus du village Nzuamayong, inselberg Akuom, *Lisowski M-650* (BATA).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 48; Barberá *et al.* 2013: 9), Litoral (Barberá *et al.* 2013: 9), Wele Nzas (Lejoly & Lisowski 1998: 48; 1999a: 119; Thiselton-Dyer 1913: 953; Barberá *et al.* 2013: 9) and Río Muni without any precise locality (Hepper 1958: 412-413).

Dichostemma glaucescens Pierre in Bull. Mens. Soc. Linn. Paris 2: 1260 (1896)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Pembe, estrada km 18, *Carvalho 4862* (MA, MO, WAG); Bata-Niefang, estrada km 35, entrada a la zona de Comayá, *Carvalho 5708* (MA-599134, MO, WAG-143136); Bata-Dibolo, estrada km 68-69, *Carvalho 4900* (MA-597897, MO, WAG-142117).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 48) and Litoral (Lejoly & Lisowski 1998: 48).

Discoclaoxylon hexandrum (Müll.Arg.) Pax & K Hoffm. in Mildbr. (ed.), Wiss. Erg. Deut. Zentr.-Afr. Exped., Bot. 2: 452, tab. 78 (1912)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 154).

Discoglypremna caloneura (Pax) Prain in Bull. Misc. Inform. Kew 1911: 317 (1911)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Wele Nzas: Nkolentangan, *Tessmann 97* (K).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 48), Litoral (Thiselton-Dyer 1913: 932; Pax & Hoffmann 1914: 19), Wele Nzas (Thiselton-Dyer 1913: 932; Pax & Hoffmann 1914: 19; Barberá *et al.* 2013: 10) and Río Muni without any precise locality (Léonard 1995: 207; Hepper 1958: 403; Hutchinson & Dalziel 1928: 305).

Elaeophorbia grandifolia (Haw.) Croizat in Bull. Jard. Bot. État 15: 109 (1938)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: inselberg Dumu, *Lejoly 99/327* (MA-621690).

Erythrococca anomala (Juss. ex Poir.) Prain in Ann. Bot. (Usteri) 25: 614 (1911)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 156).

Erythrococca atrovirens (Pax) Prain in Ann. Bot. (Usteri) 25: 623 (1911)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Engong, *Pérez Viso 2666* (MA-845426), 2692 (MA-808876). Litoral: Bata-Micomiseng-Midjimiton, estrada km 157, *Carvalho 6510* (MA-642569); Wele Nzas: Ebo-Ngoo Nsomo, carretera forestal Añisok Mongola-Niefang,

Pérez Viso 3189 (MA-844021).

Previously reported from Centro Sur (Barberá *et al.* 2013: 11), Litoral (Pax & Hoffmann 1914: 83); Thiselton-Dyer 1913: 871; Barberá *et al.* 2013: 11) and Wele Nzas (Barberá *et al.* 2013: 11).

Erythrococca dewevrei (Pax) Prain in Ann. Bot. (Usteri) 25: 626 (1911)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Santa Cruz, *Pérez Viso 1215* (MA-799882).

Previously reported from Centro Sur (Barberá *et al.* 2013: 11).

Erythrococca pallidifolia (Pax & K.Hoffm.) Keay in Kew Bull. 10: 139 (1955)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Área de Niefang. Poblado de Alan. Carretera de Micomesen, *López Serrano 130626, 130627, 130628* (MA).

Erythrococca rivularis (Müll.Arg.) Prain in Ann. Bot. (Usteri) 25: 621 (1911)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Mount John River, Kongui, *Mann 1785* (K).

Previously reported from Litoral (Pax & Hoffmann 1914: 81; Thiselton-Dyer 1913: 868; Prain 1911: 622; Barberá *et al.* 2013: 12).

Erythrococca welwitschiana (Müll.Arg.) Prain in Ann. Bot. (Usteri) 25: 622 (1911)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Kie Ntem: Nfuiñ, a 29 km de Nsoc Nsomo por la pista que va hacia Bata, *Cabezas & al. 1368* (MA-831796). Litoral: Bebai, Campogebiet [región de Campo], *Tessmann 555* (K). Wele Nzas: Nkolentangan, *Tessmann 296* (K); *Lisowski M-706* (BRLU).

Previously reported from Kie Ntem (Barberá *et al.* 2013: 12), Litoral (Thiselton-Dyer 1913: 868; Barberá *et al.* 2013: 12) and Wele Nzas (Pax & Hoffmann 1914: 82; Thiselton-Dyer 1913: 868; Prain 1911: 622; Barberá *et al.* 2013: 12).

Euphorbia cotinifolia L., Sp. Pl.: 453 (1753)

LC Cultivated, maybe naturalized

Native from Mexico to Tropical America, naturalized in Africa, India and China. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 49).

Euphorbia heterophylla L., Sp. Pl.: 453 (1753)

LC Naturalized

Native from Mexico to Tropical America, naturalized in Africa, India and China. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Cape Region.

Previously reported from Litoral (Lejoly & Lisowski 1998: 49).

Euphorbia hirta L., Sp. Pl.: 454 (1753)

NE Naturalized

Native to the Tropics and Subtropics of America, naturalized in the rest of Tropics and Subtropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Annobón and Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 49).

Euphorbia hyssopifolia L., Syst. Nat., ed. 10 2: 1048 (1759)

NE Naturalized

Native to Tropical & Subtropical America, broadly naturalized in Africa, India and Australia. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Annobón.

Previously reported from Litoral (Lejoly & Lisowski 1998: 49).

Euphorbia letestui J. Raynal in Adansonia sér. 2, 6: 576 (1966)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Wele Nzas: dalle rocheuse à 3 km au S de Asoc, *Lejoly* 99/278 (MA-621772).

Euphorbia milii Des Moul. in Bull. Hist. Nat. Soc. Linn. Bordeaux 1: 27 (1826)

LC Cultivada

Native to Madagascar, cultivated and naturalized in Tropical America, Africa, India and China. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 50).

Euphorbia prostrata Aiton in Hortus Kew. 2: 139 (1789)

NE Naturalized

Native from C. USA to Tropical America, naturalized worldwide. Africa and

Madagascar. Also known from Annobón and Bioko.

Centro Sur: Evinayong, *Guinea* 460-155 (MA-723993). Litoral: Benito, *Guinea* 555 (MA-723987).

Euphorbia pulcherrima Willd. ex Klotzsch in Allg. Gartenzeitung (Otto & Dietrich) 2(4): 27 (1834)

LC Cultivada

Native to Mexico, cultivated worldwide. Africa. Also known from Annobón and Bioko.

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 50).

Euphorbia thymifolia L., Sp. Pl.: 452 (1753)

NE Naturalized

Native to Tropical & Subtropical America, naturalized in the rest Tropics and Subtropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón.

Previously reported from Litoral (Lejoly & Lisowski 1998: 50).

Euphorbia trinervia Schumach. & Thonn., Beskr. Guin. Pl. 253 (1827)

NE Native

Tropical & Subtropical Africa and Madagascar. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Ecuco, *Guinea* 597-165 (MA-723994).

Excoecaria guineensis (Benth.) Müll.Arg. in Linnaea 32: 123 (1863)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Pembe-Mbini, estrada kms. 19-20, *Carvalho* 5271 (MA, MO, WAG)

Grossera angustifolia Barberá & Riina in Phytotaxa 221(2): 175 (2015)

NE Endemic

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: carretera Bata-Sendje, km 40, bajo el puente sobre el río Wele, *Cabezas & al.* 2116 (MA-884324); Bata-Senye, estrada km. 40, chegada a Senye, ponto sobre o río Benito, *Carvalho* 4909 (MA-844794, MO, WAG).

Previously reported from Litoral (Barberá *et al.* 2015: 175, 178).

Grossera paniculata Pax in Bot. Jahrb. Syst. 33: 281 (1903)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: P.N. Monte Alén, Santa Cruz, *Pérez Viso* 1202 (MA-833164); 1204 (MA-

713918); P.N. Monte Alén, Nfamam, *Pérez Viso* 987 (MA-713922); P.N. Monte Alén, Enkumekien, *Velayos & Pérez Viso* 9320 (MA-808436); P.N. Monte Alén, Esamalang, *Pérez Viso* 535 (MA-833158); Enkumekie, carretera Niefang a Evinayong, *Pérez Viso* 4091 (MA-799885). Kie Ntem: Eloan, carretera Ebebiyi-Mongomo, *Pérez Viso* 4296 (MA-795896); 4297 (MA-713682). Litoral: Masamabe, a 12 km de Kogo por la carretera de Kogo, *Pérez Viso* 3926 (MA-799892); Bata-Makoga, estrada km 10 da estrada para Niefang, *Carvalho* 5988 (MA-844017); 5990 (MA-844009); Bata-Bicomo, central Hidroelectrica de río Ecucu, estrada kms 28-29, *Carvalho* 4942 (MA-597246, MO, WAG); Bata-Bicomo, estrada kms 12-13, *Carvalho* 4922 (MA-844016, MO, WAG); Bata-Senge-Mitom-Emangós, estrada km 64-65, a 1 km de Emangós que se encuentra a 64 km de Bata, *Carvalho* 6453 (MA-635357); Bata-Senge, estrada km 27, *Carvalho* 6145 (MA-619177); Bata-Niefang, estrada km 35, en los alrededores del río Comayá, *Carvalho* 5751 (MA-599101); Sendje, *Pérez Viso* 3364 (MA-713815). Wele Nzas: Mbut, km. 30 de la carretera de Enkue, *Pérez Viso* 3684 (MA-844006); Añisok-Mongola, *Pérez Viso* 3736 (MA-713814); 3743 (MA-724004).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 50; Barberá *et al.* (2014: 497; 2015: 497), Kie Ntem (Barberá *et al.* (2014: 497; 2015: 497), Litoral (Pax & Hoffmann 1912: 106; Barberá *et al.* (2014: 497; 2015: 497), Wele Nzas (Pax & Hoffmann 1912: 106; Barberá *et al.* (2014: 497; 2015: 497) and Río Muni without any precise locality (Pax & Hoffmann 1912: 106).

Hevea brasiliensis (A.Juss.) Müll.Arg. in *Linnaea* 34: 204 (1865)

LC Cultivada

Native to Tropical America, cultivated and naturalized in the rest of the Tropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: carretera de Niefang a Evinayong, *Cabezas* 96 (MA-695678); Engong, *Eneme Efua* 491 (BATA, BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 50).

Jatropha curcas L., *Sp. Pl.*: 1006 (1753)

LC Naturalized

Native from Mexico to Tropical America, naturalized in the rest of the Tropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Litoral: al lado del mar, *Eneme* 261 (WAG-191765).

Previously reported from Litoral (Lejoly & Lisowski 1998: 50).

Klaineanthus gaboniae Pierre ex Prain in *Bull. Misc. Inform. Kew* 106 (1912)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Dibolo, estrada km 66, cruce para S. Joaquin de Ndyicon, estrada kms 63-64, *Carvalho* 4897 (BRLU, MA-597894, MO, WAG). Centro Sur: Parc National de Monte Alén, entre le transect dit de Monte Alén et la Cabaña Bong, *Senterre & Obing* 2564 (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 51).

Macaranga barteri Müll.Arg. in Flora 47: 535 (1864)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Kie Ntem: Ngomgom, poblado de la pista que va de Nsoc Nsomo a Bata, *Barberá & al.* 102 (MA-831675). Litoral: Mbom, *Wilks* 3571 (WAG). Centro Sur: SE du Parc National de Monte Alén, au N du río Laña, près de la Cabaña Ecofac de Misergue, *Senterre & Obiang* 3176 (BRLU). Wele Nzas: Nkolentangan, *Tessmann* 9 (K).

Previously reported from Kie Ntem (*Barberá et al.* 2013: 13), Wele Nzas (*Pax & Hoffmann* 1914: 329; *Thiselton-Dyer* 1913: 942; *Barberá et al.* 2013: 13) and Río Muni without any precise locality (*Hepper* 1958: 407, 408).

Macaranga gabunica Prain in Bull. Misc. Inform. Kew 1912: 104 (1912)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: estuaire du río Muni, village Mayang, bord de la rivière Mitong, *Lisowski* M-827 (BATA, BRLU); Bata-Dibolo, estrada kms 55-56, *Carvalho* 5212 (MA, MO, WAG).

Previously reported from Litoral (*Barberá et al.* 2013: 13).

Macaranga hurifolia Beille in Bull. Soc. Bot. France 55 (Mém. 8b): 80 (1908)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Centro Sur: Evinayong, *Guinea* 124 (MA-725801), 125 (MA-725800), 126 (MA-725802).

Previously reported from Centro Sur (*Barberá et al.* 2013: 13).

Macaranga klaineana Pierre ex Prain in Bull. Misc. Inform. Kew 1912: 104 (1912)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Bome, *Carvalho* 5409 (MA-795333, MO, WAG-1807807); Bata-Senye-río Benito, estrada km 22, *Carvalho* 4975 (MA-843919, MO, WAG-1807806); Bata-Mbini, estrada km. 24, Anguok, *Carvalho* 5441 (MA-599448, MO, WAG).

Previously reported from Litoral (*Barberá et al.* 2013: 13).

Macaranga magnistipulosa Pax in Bot. Jahrb. Syst. 43 222 (1909)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Wele Nzas: Nkolentangan, Anang, *Tessmann* 249 (K).

Previously reported from Wele Nzas (Pax & Hoffmann 1914: 316; Thiselton-Dyer 1913: 938; Whitmore 2008: 179; Barberá *et al.* 2013: 14).

Macaranga monandra Müll.Arg. in J. Bot. 2: 337 (1864)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Niefang, orillas del río Woro, *Esono & Ndong* 378 (BATA); P.N. Monte Alén, carretera que va desde Moka hasta Engong, *Pérez Viso* 390 (MA-845423); P.N. Monte Alén, río Vog-yii, *Pérez Viso* 3201 (MA-843997); Bicaba, carretera de Niefang a Monte Alén, *Pérez Viso* 3464 (MA-845430). Kie Ntem: Village Nfeb-Dyong. Distrito Micomiseng, *Obama* 779 (BRLU, WAG); Nsoc Nsomo, camino que va desde Nsoc Nsomo a Bata, a unos 3 km de Nsoc Nsomo, Mocomo, *Cabezas & al.* 1246 (MA-831921); Ngomgom, poblado de la pista que va de Nsoc Nsomo a Bata, *Barberá & al.* 62 (MA-831637). Litoral: Sendje, *Pérez Viso* 1617 (MA-808882); carretera de Mbini-Bata, a 10 km del cruce Akoakam, *Fero & al.* 293 (MA-844594); carretera de Mbini, antigua trocha forestal, *Pérez Viso* 3335 (MA-713812); Ndote Sud, *Lisowski M-1133* (BATA, BRLU); Área de Machinda, poblado de Asesok, *López Serrano* 280315, 280316 (MA); Área de Machinda. Poblado de Adam-Tum, *López Serrano* 130305, 130306 (MA); Área de Mbini. Poblado de Bolondo y Matondo, *López Serrano* 170413, 170414 (MA); poblado de Mitom, Mbini, *Obama* 847 (BATA, BRLU). Wele-Nzas; Kukumankok, dalle rocheuse Mongum, *Lejoly* 99/381T1 (BRLU). Río Muni: [without locality], *Eneme Efua* 407 (WAG); [without locality], *Tessmann* 600 (K).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 51; Barberá *et al.* 2013: 14), Kie Ntem (Barberá *et al.* 2013: 14), Litoral (Lejoly & Lisowski 1998: 51; Pax & Hoffmann 1914: 328; Barberá *et al.* 2013: 14) and Río Muni without any precise locality (Pax & Hoffmann 1914: 328; Hepper 1958: 407).

Macaranga occidentalis (Müll.Arg.) Müll.Arg. in DC., Prodr. 15(2): 994 (1866)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Niefang, explotación forestal de Matroguisa, *Pérez Viso* 2320 (MA-839510).

Macaranga saccifera Pax in Bot. Jahrb. Syst. 19: 93 (1894)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzaz: Ngong Mocomo, vers inselberg Acoak Banga, *Lejoly & Elad* 98/035 (BATA, BRLU).

Previously reported from Wele Nzaz (Barberá *et al.* 2013: 14).

Macaranga spinosa Müll.Arg. in *Flora* 47: 466 (1864)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Kie Ntem: Nsoc Nsomo, a 5 km de Nsoc Nsomo por la pista que va hacia Bata, *Cabezas & al.* 1298 (MA-831854); Akam, camino a Oyò, *Fero & Esono* 161 (MA-808930).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 51), Kie Ntem (Barberá *et al.* 2013: 15) and Río Muni without any precise locality (Pax & Hoffmann 1914: 331; Thiselton-Dyer 1913: 944; Hepper 1958: 408; Hutchinson & Dalziel 1928: 306).

Macaranga staudtii Pax in *Bot. Jahrb. Syst.* 23: 526 (1897)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: aire protégée de Ndote-route forestière Engong-Jandje, *Lejoly & Van Asbroeck* 7 (BATA, BRLU).

Previously reported from Litoral (Barberá *et al.* 2013: 15).

Mallotus oppositifolius (Geiseler) Müll.Arg. in *Linnaea* 34: 194 (1865)

LC Native

Tropical Africa and Madagascar. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region. Also known from Bioko.

Litoral: Bebai, Campogebiet [región de Campo], *Tessmann* 616 (K).

Previously reported from Litoral (Guinea 1946: 154; Barberá *et al.* 2013: 15) and Río Muni without any precise locality (Pax & Hoffmann 1914: 159).

Mallotus subulatus Müll.Arg. in *Linnaea* 34: 192 (1865)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 154, 156) and Río Muni without any precise locality (Pax & Hoffmann 1914: 154; Hepper 1958: 402).

Manihot esculenta Crantz in *Inst. Rei Herb.* 1: 167 (1766)

DD Cultivated

Native to Tropical America, cultivated and naturalized in the rest of the Tropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province). Also known from Annobón and Bioko.

Centro Sur: Nsung, entre Monte Alén y Evinayong, *Pérez Viso* 1692 (MA-687727). Litoral: Área de Machinda. Poblado de Adam-Tum, *López Serrano* 130313, 130314 (MA); Área de Machinda. Poblado de Ncon-Nbia, *López Serrano* 290303, 290304, 290305 (MA). Río Muni: [without locality], *Eneme Efua* 218 (BATA).

Previously reported from Litoral (Lejoly & Lisowski 1998: 51).

Manniophyton fulvum Müll.Arg. in J. Bot. 2: 332 (1864)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Área de Niefang. Poblado de Alan. Carretera de Micomesen, *López Serrano* 130609, 130610, 130611, 130612 (MA). Litoral: Área de Mbini. Poblado de Mangola y Bilen, *López Serrano* 180410, 180411 (MA); Área de Mbini, poblado de Bilen, Bitica y Mboete, *López Serrano* 190410, 190411, 190412 (MA); Bata-Mari, estrada km 62-63, *Carvalho* 4950 (MA-597682, MO, WAG-142187); Bata-Nasanga, estrada km 36-37, proximo a Nasanga, *Carvalho* 4892 (MA-597891, MO, WAG-142109); Bata-Mbini-Boete-río Ayú, estrada km 23, entre Boete y río Ayú, *Carvalho* 5970 (MA-609105). Wele Nzaz: Nkolentangan, *Tessmann* 323a (K).

Previously reported from Centro Sur (Guinea 1946: 141, 142, 184i), Litoral (Lejoly & Lisowski 1998: 52), Wele Nzaz (Pax & Hoffmann 1912: 121; Thiselton-Dyer 1913: 819) and Río Muni without any precise locality (Hepper 1958: 400).

Maprounea membranacea Pax & K.Hoffm. in Engl. (ed.), Pflanzenr. V: 178 (1912)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Área de Mbini. Poblado de Bilen, Bitica y Mboete, *López Serrano* 190428, 190429, 190430 (MA); Bata-Nasanga, estrada km 18-19, *Carvalho* 4891 (MA-597890, MO, WAG-142108).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 52), Litoral (Lejoly & Lisowski 1998: 52; Thiselton-Dyer 1913: 100) and Río Muni (Hepper 1958: 416; Hutchinson & Dalziel 1928: 310).

Mareya brevipes Pax in Bot. Jahrb. Syst. 28: 24 (1899)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Niefang, explotación forestal de Matroguisa, *Pérez Viso* 2347 (MA-

843989); 2349 (MA-844005). Kie Ntem: alrededores del poblado de Obot Nku-Eseng, a 7 km de Nsok Nsomo, *Barberá & al.* 154 (MA-831430); Ngomgom, Nsok Nsomo a Bata, *Barberá & al.* 76 (MA-831514). Litoral: Bata-Mongo (Alosa), estrada kms 64-65, *Carvalho 5540* (BATA, BM, MA-598752, MO, WAG); Bebai, Campogebiet [región de Campo], *Tessmann 723* (K). Wele Nzaz: Oveng Esandong, km. 61 carretera Nkue-Mongomo, *Pérez Viso 3101* (MA-799895).

Previously reported from Centro Sur (*Barberá et al.* 2013: 16), Kie Ntem (*Barberá et al.* 2013: 16), Litoral (Lejoly & Lisowski 1998: 52; Thiselton-Dyer 1913: 910; *Barberá et al.* 2013: 16), Wele Nzaz (*Barberá et al.* 2013: 16) and Río Muni without any precise locality (Léonard 1996: 8).

Mareya micrantha (Benth.) Müll.Arg. in DC., Prodr. 15(2): 792 (1866)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Conisio, distrito de Kogo, *Obama 761* (WAG); Bata-Bicomo, central electrica de Nkoantoma e Ayelon, *Carvalho 4773* (MA-597588, MO, WAG).

Previously reported from Litoral (Thiselton-Dyer 1913: 911; Guinea 1946: 158) and Río Muni without any precise locality (Léonard 1996: 11; Hepper 1958: 404; Hutchinson & Dalziel 1928: 303).

Mareyopsis longifolia (Pax) Pax & K.Hoffm. in Engl. (ed.), Pflanzenr., [Heft 68] IV, 147, XIV: 13 (1919)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senge, estrada km 27, antigua explotación de Exfosa, *Carvalho 6123* (MA-619395); Bata-Niefang, estrada km 35, entrada a la zona de Adjape, por Ríos Sama e Comayá, *Carvalho 5692* (MA-599027); Bata-Mbini, estrada km 27 en la carretera hacia Senge, *Carvalho 6092* (MA-619128).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 52) and Litoral (*Barberá et al.* 2013: 17).

Micrococca mercurialis (L.) Benth. in Hook. (ed.), Niger Fl.: 503 (1849)

NE Native

Native to Tropical & S. Africa, Madagascar, Arabian Peninsula, and India to Peninsula Malaysia. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region.

Kie Ntem: Nsok Nsomo, Mocomo, *Cabezas & al.* 1293 (MA-831848). Litoral: Bata-Mbini, estrada kms 7-8, *Carvalho 4923* (MA-597461, MO, WAG-142149; Bata-Pembe, estrada kms. 26-27, chamada Entura en margens de Río Ué, *Carvalho 5184* (MA-599485, MO, WAG).

Previously reported from Kie Ntem (Barberá *et al.* 2013: 17), Litoral (Thiselton-Dyer 1913: 879; Barberá *et al.* 2013: 17) and Wele Nzas (Pax & Hoffmann 1914: 135; Thiselton-Dyer 1913: 879).

Neoboutonia mannii Benth. & Hook.f., Gen. Pl. 3: 317 (1879)

NT Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Monte Alen, *Ngomo & Ndong* 331 (BRLU); Parc National de Monte Alen, *Ngomo* 155 (BRLU). Wele Nzas: Heslentangan, *Tessmann* 133 (K).

Previously reported from Litoral (Guinea 1946: 158), Wele Nzas (Pax & Hoffmann 1914: 75; Thiselton-Dyer 1913: 921) and Río Muni without any precise locality (Pax & Hoffmann 1914: 75; Thiselton-Dyer 1913: 921; Hepper 1958: 404).

Pedilanthus tithymaloides (L.) A.Poit. in Ann. Mus. Hist. Nat. 19: 390 (1812)

NE Naturalized

Native from Florida, Mexico to Tropical America, naturalized in Africa. Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Ayamiken (Reserva de río Campo), *Obama* 126 (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 98).

Plagiostyles africana (Müll.Arg.) Prain in Bull. Misc. Inform. Kew 1912: 107 (1912)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Parc National de Monte Alen, transect de Monte Alen, *Lejoly* 93/352 (BRLU). Kie Ntem: Ngomgom, de Nsoc Nsomo a Bata, *Barberá & al.* 59 (MA-831640). Litoral: Área de Machinda, poblado de Ncon-Nbia (Paka), *López Serrano* 020412, 020413 (MA); Bata-Bome, *Carvalho* 6041 (MA-619179, WAG-143195); Bata-Pembe, estrada kms 19-20, *Carvalho* 4850 (MA-716934, WAG-142046).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 53; Guinea 1946: 141), Litoral (Thiselton-Dyer 1913: 100), Pax & Hoffmann 1914: 421) and Río Muni without any precise locality (Hepper 1958: 414).

Pseudagrostistachys africana (Müll.Arg.) Pax & K.Hoffm. in Engl. (ed.), Pflanzenr., [Heft 57] IV, 147, VI: 97 (1912) subsp. **africana**

VU Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, *Ngomo* 234 (BATA, BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 53; Barberá *et al.* 2013:

17).

Pycnocomma macrophylla Benth. in Hook. (ed.), Niger Fl.: 508 (1849)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 156).

Pycnocomma minor Müll.Arg. in Flora 47: 483 (1864)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Corisco Bay [Bahía de Corisco, Ilobi Island, Islas Elobeyes], *Mann 1841* (K-425666, 425667).

Previously reported from Litoral (Pax & Hoffmann 1914: 59; Thiselton-Dyer 1913: 961; Barberá *et al.* 2013: 18).

Ricinodendron heudelotii (Baill.) Pierre ex Heckel in Ann. Inst. Colon. Marseille 5(2): 40 (1898)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 53), Wele Nzaz (Lejoly & Lisowski 1998: 53; 1999a: 120; Léonard 1961: 399) and Río Muni without any precise locality (Pax & Hoffmann 1911: 46).

Ricinus communis L., Sp. Pl.: 1007 (1753)

NE Cultivada

Native to NE Africa, naturalized worldwide. All Africa. Also known from Annobón and Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 53; Thiselton-Dyer 1913: 946)

Sclerocroton cornutus (Pax) Kruijt & Roebers in Biblioth. Bot. 146: 20 (1996)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Wele Nzaz: inselberg Asoc, *Obama & Lejoly 474* (MA-612113).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 53), Wele Nzaz (Lejoly & Lisowski 1998: 53; 1999a: 120; Thiselton-Dyer 1913: 101) and Río Muni without any precise locality (Hepper 1958: 415).

Shirakiopsis elliptica (Hochst.) Esser in Kew Bull. 56(4): 1018 (2001)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanese Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Litoral: Bikukbinii, *Azizet Issembé* 38 (WAG-137715).

Tetracarpidium conophorum (Müll.Arg.) Hutch. & Dalziel, Fl. W. Trop. Afr. 1: 307 (1928)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Parc National de Monte Alén, *Ngomo* 278 (BRLU). Litoral: Bata-Senye, estrada kms 30-31, *Carvalho* 5153 (MA-844004, MO, WAG); Bata-Bolondo, kms 5-6, *Carvalho* 4757 (MA-844793, MO, WAG); Bata-Senge, estrada km 27, zona forestal de Iboga, *Carvalho* 6407 (MA-634146).

Previously reported from Litoral (Barberá *et al.* 2013: 17) and Río Muni without any precise locality (Thiselton-Dyer 1913: 950; Hepper 1958: 410; Hutchinson & Dalziel 1928: 307).

Tetrorchidium didymostemon (Baill.) Pax & K.Hoffm., Pflanzenr. (Engler) Euphorb.-Addit. VI. 53 (1919).

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Área de Niefang. Poblado de Alan. Carretera de Micomesen, *López Serrano* 130606, 130607, 130608 (MA); P.N. Monte Alén, 5 km au NO de Engong, inselberg, *Lejoly* 99/459 (WAG-271535); P.N. Monte Alén, Enkumekien, *Velayos & Pérez Viso* 9309 (MA-808445); P.N. Monte Alén, Engong, camino hacia Lovayat, *Pérez Viso* 833 (MA-795899, WAG-331624); Bisun, carretera de Niefang a Evinayong, *Pérez Viso* 3410 (MA-808438); 3393 (MA-844799). Kie Ntem: Eloan, carretera Ebebiyi-Mongomo, *Pérez Viso* 4258 (MA-795895, WAG-331652); Nsok Nsomo, a unos 3 km de Nsok Nsomo, Mocomo, *Cabezas & al.* 1245 (MA-831922); Ngomgom, poblado de la pista que va de Nsok Nsomo a Bata, *Barberá & al.* 131 (MA-831664). Litoral: Bata-Pembe, estrada km 27-28, *Carvalho* 5389 (MA-599426, MO, WAG-142770); Área de Machinda. Poblado de Ebenvene, *López Serrano* 260303, 260304, 260305, 260306 (MA); Bikukbinii, *Wilks* 3569 (BRLU, WAG-137740). Wele Nzaz: Alum, entre Mikomeseng y Nkue, *Pérez Viso* 3054 (MA-795901, WAG); Nsung Fandong, a 65 km. de Nkue, *Pérez Viso* 3146 (MA-845428).

Previously reported from Centro Sur (*Lejoly & Lisowski* 1998: 54), Litoral (*Pax & Hoffmann* 1914: 417) and Wele Nzaz (*Lejoly & Lisowski* 1998: 54; 1999a: 120; Thiselton-Dyer 1913: 847).

Tragia benthamii Baker in Bull. Misc. Inform. Kew 1910: 128 (1910)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province). Also known from Bioko.

Litoral: Área de Machinda. Poblado Adamtun, *López Serrano 100503, 100504, 100505* (MA); Bata-Mongo-zona forestal de Alosa, estrada km 57-58, entre Mongo e Serraço de Alosa, *Carvalho 5420* (MA-598450, MO, WAG).

Previously reported from Centro Sur (Barberá *et al.* 2013: 19), Litoral (Thiselton-Dyer 1913: 985; Barberá *et al.* 2013: 19) and Río Muni without any precise locality (Thiselton-Dyer 1913: 985).

Tragia preussii Pax in Bot. Jahrb. Syst. 19: 102 (1894)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Litoral (Guinea 1946: 155).

Tragia tenuifolia Benth. in Hook. (ed.), Niger Fl.: 502 (1849)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Bome, pradera gramínea con longo do río Boara, *Carvalho 4867* (MA-597380, MO, WAG-142071).

Previously reported from Litoral (Lejoly & Lisowski 1998: 54; Barberá *et al.* 2013: 19).

Tragia volubilis L., Sp. Pl.: 980 (1753)

NE Native

Native to Mexico, Tropical America and Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Niefang, explotación forestal de Matroguisa, *Pérez Viso 2289* (MA-844000).

Previously reported from Centro Sur (Barberá *et al.* 2013: 20) and Río Muni without any precise locality (Guinea 1946: 313).

FABACEAE

Abrus canescens Welw. ex Baker in Oliv. (ed.), Fl. Trop. Afr.2: 175 (1871)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 55).

Abrus melanospermus subsp. **tenuiflorus** (Spruce ex Benth.) D.K.Harder in Novon 10(2): 124 (2000)

NE Native

Native to Tropical Africa and Madagascar, naturalized in Tropical America. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region.

Río Muni: Bebui, path to Oko, *Tessmann* 576 (K).

Previously reported from Río Muni without any precise locality (Estrella *et al.* 2010a: 4).

Abrus precatorius L., Syst. Nat. ed. 12: 472 (1767)

NE Native

Native from Tropical & Subtropical Old World to N. & E. Australia, naturalized in Tropical America. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Karroo Namib Region; Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Nfing Ntagan, poblado en la carretera forestal de Niefang a Bata, a continuación de Mosumu, *Pérez Viso* 2743 (MA-712216). Litoral: Ndote Nord, *Lisowski M64* (BRLU).

Previously reported from Centro Sur (Estrella *et al.* 2010a: 4) and Litoral (Estrella *et al.* 2010a: 4).

Acacia farnesiana (L.) Willd., Sp. Pl. ed. 4, 4(2): 1083 (1806)

LC Naturalized

Native to Tropical & Subtropical America, naturalized elsewhere in the Tropics. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Env. de Niefang, dans un village, *Lisowski M-770* (BRLU).

Previously reported from Centro Sur (Estrella *et al.* 2005: 12) and Río Muni without any precise locality (Guinea 1946: 290).

Acacia kamerunensis Gand. in Bull. Soc. Bot. France 60(5): 459 (1913)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Wele Nzaz (Guinea 1946: 149).

Acacia pentagona (Schumach. & Thonn.) Hook.f., Niger Fl.: 331 (1849)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region. Also known from Bioko.

Centro Sur: Niefang, Bindeng, pista hacia el río Uoro, *Pérez Viso 2408* (MA-705393).
Litoral: Bata-Monson-Dibolo, Mbubuin, *Carvalho 4881* (MA-597843, MO, WAG).

Previously reported from Centro Sur (Estrella *et al.* 2005: 12), Litoral (Brenan & Exell 1957: 134); Estrella *et al.* 2005: 12), Wele Nzas (Lejoly & Lisowski 1998: 83; 1999a: 119) and Río Muni without any precise locality (Lock 1989: 73).

Adenanthera pavonina L., Sp. Pl.: 384 (1753)

LC Naturalized

Native from Tropical Asia to N. Australia, naturalized elsewhere in the Tropics. Guineo-Congolian Region (Upper Guinea Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 291).

Adenopodia scelerata (A.Chev.) Brenan in Kew Bull. 41: 76 (1986)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Niefang, estrada Km. 35. En la zona de Adjape Bibak y de Nco, *Carvalho 5909* (MA-609837, WAG).

Previously reported from Litoral (Estrella *et al.* 2005: 12).

Aeschynomene americana L., Sp. Pl.: 713 (1753)

NE Naturalized

Native to Tropical & Subtropical America, naturalized elsewhere in the Tropics. Sudano-Zambezian Region (Sudanian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Wele Nzas: Mbiet, Añisok, *Pérez Viso 3579* (MA-710902).

Previously reported from Wele Nzas (Estrella *et al.* 2010a: 5).

Aeschynomene elaphroxylon (Guill. & Perr.) Taub. in Engl. & Prantl (eds.), Nat. Pflanzenfam. 3(3): 319 (1894)

LC Native

Native to Tropical Africa and Madagascar. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region.

Previously reported from Río Muni without any precise locality (Guinea 1964: 167, 168).

Afzelia africana Sm. ex Pers. in Trans. Linn. Soc. 4: 221 (1798)

VU Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Corisco, camino hacia el N a 100 m de la casa de Yniestrosa, *Velayos & al.* 9929 (MA-712219).

Previously reported from Centro Sur (Guinea 1946: 141), Litoral (Guinea 1946: 154; Estrella *et al.* 2006: 543) and Wele Nzaz (Guinea 1946: 144, 293).

Afzelia bella Harms in Bot. Jahrb. Syst. 49: 425 (1913)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Asonga-Ngoló, estrada nova que parte de Asonga-Ngolo, *Carvalho* 5157 (MA, MO, WAG); Bata-Niefang, estrada km 46-47, entre Adjape á Río Sama, *Carvalho* 5602 (MA-593430, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 26) and Litoral (Estrella *et al.* 2006: 543).

Afzelia bipindensis Harms in Bot. Jahrb. Syst. 49: 426 (1913)

VU Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: village de Mitora, distr. Mbini, *Obama* 846 (WAG). Wele Nzaz: Nkolentangan, *Tessmann* 376 (K).

Previously reported from Litoral (Estrella *et al.* 2006: 543) and Wele Nzaz (Estrella *et al.* 2006: 543).

Afzelia pachyloba Harms in Bot. Jahrb. Syst. 49: 426 (1913)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, transecto Monte Chocolate, *Lejoly* 95T/162 (K).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 26; Estrella *et al.* 2006: 543), Litoral (Guinea 1946: 154) and Wele Nzaz (Guinea 1946: 145).

Aganope gabonica (Baill.) Polhill in Kew Bull. 25(2): 269 (1971)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Río Utonde, praderas gramíneas entre aeropuerto e Río Utonde, *Carvalho* 5227 (MA-599498, MO, WAG); Bata-Bome, *Carvalho* 5196 (MA-598214, MO, WAG).

Previously reported from Litoral (Estrella *et al.* 2010a: 5).

Aganope impressa (Dunn) Polhill in Kew Bull. 25: 269 (1971)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye (Senge), estrada km 27, *Carvalho* 6176 (MA-619244, WAG).

Previously reported from Litoral (Estrella *et al.* 2010a: 5).

Airyantha schweinfurthii subsp. **confusa** (Hutch. & Dalziel) Brummitt in Kew Bull. 22: 381 (1968)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Pembe, estrada kms. 26-27, *Carvalho* 5182 (MA-599486, MO, WAG).

Previously reported from Litoral (Estrella *et al.* 2010a: 6).

Albizia adianthifolia (Schumach.) W.Wight in Bull. Bur. Pl. Industr. U.S.D.A. 137: 12 (1909)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region.

Centro Sur: P.N. Monte Alén, près du village de Monte Alén (Ecofac), *Senterre & al.* 2906 (BRLU). Litoral: Bata-Mongo-Zona Forestal de Alosa, estrada kms. 57-58 entre Mongo e Alosa, *Carvalho* 5421 (MA-598449, MO, WAG). Wele Nzaz: Nkolentangan, *Tessmann* 242a (K); dalle rocheuse à 3 km au S de Asoc, *Lejoly* 99/301T2 (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 83; Guinea 1946: 141), Wele Nzaz (Lejoly & Lisowski 1998: 83; 1999a: 120; Brenan 1953b: 520; Estrella *et al.* 2005: 13) and Río Muni without any precise locality (Lock 1989: 82; Hepper 1958: 503; Guinea 1946: 290).

Albizia ferruginea (Guill. & Perr.) Benth. in London J. Bot. 3: 88 (1844)

NT Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, 11km à l'Est de la Cabaña de Mosumo, *Senterre & Obiang 4098* (BRLU).

Previously reported from Centro Sur (Estrella *et al.* 2005: 13).

Albizia gummifera (J.F.Gmel.) C.A.Sm. in Bull. Misc. Inform. Kew 1930(5): 218 (1930)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province Madagascan Region.

Centro Sur: Evinayong, *Guinea 502-203* (MA-294484).

Previously reported from Centro Sur (Estrella *et al.* 2005: 13).

Albizia lebbeck (L.) Benth. in London J. Bot. 3: 87 (1844)

LC Naturalized

Native to India, naturalized elsewhere in the Tropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Previously reported from Río Muni without any precise locality (Lock 1989: 82).

Albizia zygia (DC.) J.F.Macbr. in Contr. Gray Herb. 59: 3 (1919)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Mbini, Parc National de Monte Alen, entre 0 et 1 km à l'ouest du village de Ale, *Lejoly 93/351* (BRLU). Wele Nzaz: Nkolentangan, *Tessmann 175, 845* (K).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 83; Guinea 1946: 141; Estrella *et al.* 2005: 13) and Wele Nzaz (Guinea 1946: 144; Estrella *et al.* 2005: 13).

Alysicarpus vaginalis (L.) DC., Prodr. 2: 353 (1825)

NE Native

Native to Africa & Tropical Asia, naturalized elsewhere. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón.

Previously reported from Litoral (Guinea 1946: 170).

Amphimas ferrugineus Pierre ex Pellegr. in Notul. Syst. (Paris) 2: 293 (1912)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: Cucumancoc, *Guinea 379bis* (MA-854336).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 26; Estrella *et al.* 2010a: 6).

Amphimas pterocarpoides Harms in Repert. Spec. Nov. Regni Veg. 12: 12 (1913)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Equatorial Guinea (Maesen & Sosef 2016: 34).

Andira inermis (W.Wright) Kunth ex DC., Prodr. 2: 475 (1825) subsp. **inermis**

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 154).

Angylocalyx oligophyllus (Baker) Baker f. in Rendle & Baker f., Cat. Pl. Oban: 26 (1913)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Parque Monte Alén, *Ngomo 57* (BRLU). Wele Nzas: entre Nsuameyong et inselberg Akuom, *Obama & Lejoly 414* (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 55; Estrella *et al.* 2010a: 7) and Wele Nzas (Lejoly & Lisowski 1998: 55).

Angylocalyx talbotii Baker f. ex Hutch. & Dalziel in Bull. Misc. Inform. Kew 1928(10): 402 (1928)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Abang, Niefang, *Pérez Viso 4222* (MA-710769).

Previously reported from Centro Sur (Estrella *et al.* 2010a: 7).

Annea afzelii (Oliv.) Mackinder & Wieringa in Phytotaxa 142(1): 5 (2013)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-zona de Bomodi, *Carvalho* 5473 (MA-593431, MO, WAG).

Previously reported from Litoral (Estrella *et al.* 2006: 550).

Anthonothea acuminata (De Wild.) J.Léonard in Mém. Cl. Sci. Acad. Roy. Belgique (8vo) ser. 2, 30: 218 (1957)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Río Muni: [Without locality], *Tessmann* 815 (K).

Previously reported from Río Muni (Estrella *et al.* 2006: 543).

Anthonothea fragrans (Baker f.) Exell & Hillc. in Pl. Ecol. Evol. 143(1): 81 (2010)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Breteler 2010: 82; Estrella *et al.* 2006: 543).

Anthonothea macrophylla P.Beauv., Fl. Oware 1: 70, pl. 42 (1806)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Enkumekien, *Velayos & Pérez Viso* 9313 (MA-712198); km 40 carretera forestal Bata-Niefang, *Pérez Viso* 2719 (MA-712029); P.N. Monte Alén, esamalang, *Pérez Viso* 3306 (MA-710938). Litoral: Miwala, a 5 km de Kogo, *Pérez Viso* 3937 (MA-711799); Bata-Pembe-Entuba, estrada km 27-28, de Entuba a San Joaquin de Ndyjacón, *Carvalho* 5237 (MA-593427, MO, P, WAG); Bata: Miboman, km 27 carretera Bata-Movo, *Castelo & al. s.n.* (MA-319774). Wele Nzaz: Eviam, carretera forestal de Bata a Niefang, *Pérez Viso* 2585 (MA-711803); Nkolentangan, *Tessmann* 4 (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 27; Estrella *et al.* 2006: 543), Litoral (Breteler 2010: 85; Lejoly & Lisowski 1998: 27; Guinea 1946: 157; Estrella *et al.* 2006: 543), Wele Nzaz (Lejoly & Lisowski 1998: 27; Guinea 1946: 144; Estrella *et al.* 2006: 543) and Río Muni without any precise locality (Guinea 1946: 294).

Anthonothea stipulacea (Benth.) J.Léonard in Bull. Jard. Bot. État Bruxelles 25: 203 (1955)

NT Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Senye (Senge), estrada km. 27, *Carvalho* 6078 (MA-619122, WAG), 6394

(MA-620915, WAG).

Previously reported from Litoral (Breteler 2010: 92; Lejoly & Lisowski 1998: 27; Estrella *et al.* 2006: 544).

Aphanocalyx cynometroides Oliv. in Hooker's Icon. Pl. 11: 53, pl. 1066 (1870)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Mount John, River Konqui, *Mann 1810* (BR, K).

Previously reported from Litoral (Wieringa 1999: 123; Estrella *et al.* 2006: 544).

Aphanocalyx heitzii (Pellegr.) Wieringa in Wageningen Agric. Univ. Pap. 99(4): 179 (1999)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: P.N. Monte Alén, cerca de Misergue, alrededores del río Laña, *Pérez Viso 191* (MA-689856)

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 31; Estrella *et al.* 2006: 544) and Litoral (Wieringa 1999: 183)

Aphanocalyx ledermanii (Harms) Wieringa in Wageningen Agric. Univ. Pap. 99(4): 131, fig. 10.3, pl. 1d (1999)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Ndote Sud, Etembue, *Lisowski M-511* (BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 32; Estrella *et al.* 2006: 544).

Aphanocalyx margininervatus J.Léonard in Bull. Jard. Bot. État Bruxelles 21: 127 (1951)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: P. N. Monte Alén, transecto Monte Chocolate, *Lejoly 95T/L3.A24* (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 27; Estrella *et al.* 2006: 544) and Litoral (Wieringa 1999: 139).

Aphanocalyx microphyllus (Harms) Wieringa in Wageningen Agric. Univ. Pap. 99(4): 140 (1999) subsp. **microphyllus**

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-

Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, alrededores del lago Atok, *Pérez Viso 21* (MA-711775).
Litoral: Bata-Senye (Senge), estrada km 24, *Carvalho 6405* (MA-620769), 6526 (MA-620924).

Previously reported from Centro Sur (Estrella *et al.* 2006: 544) and Litoral (Estrella *et al.* 2006: 544).

Arachis hypogaea L., Sp. Pl.: 741 (1753)

NE Introduced

Native to Brazil, cultivated and naturalized worldwide, especially in the Tropics.
Cultivated in Africa. Also known from Annobón and Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 55) and Río Muni without any precise locality (Guinea 1946: 297).

Aubrevillea platycarpa Pellegr. in Bull. Soc. Bot. France 80: 467 (1933)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: SO du Parc National de Monte Alén, 200m au S du transect Ecofac de Mosumo, *Senterre & Ngomo 901* (BRLU); P.N. Monte Alén, 3,7 km à l'Ouest de Aconangui, *Senterre & Obiang 3865* (BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 83; Estrella *et al.* 2005: 13).

Baikiaea insignis Benth. in Trans. Linn. Soc. London 24: 314 (1866)

LC Native

Native to Tropical Africa, naturalized in India. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Wele Nzaz (Guinea 1946: 144) and Río Muni without any precise locality (Guinea 1946: 293)

Baikiaea robynsii Ghesq. in Rev. Zool. Bot. Afr. 32: 246 (1939)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Mbini, Sendje, *Lisowski M-584* (BRLU); Río Benito, *Guinea 46-206* (MA-294495), 47 (MA-294495).

Previously reported from Litoral (Lejoly & Lisowski 1998: 27; Estrella *et al.* 2006: 544).

Baphia bequaertii De Wild. in Repert. Spec. Nov. Regni Veg. 13: 116 (1914)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bebai, Campogebiet, *Tessmann* 492 (K).

Previously reported from Litoral (*Estrella et al.* 2010a: 7).

Baphia buettneri Harms in Bot. Jahrb. Syst. 26: 281 (1899) subsp. **buettneri**

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Senye (Senge)-Mitom-Emangës, estrada kms. 62-63, Emangós, *Carvalho* 6440 (MA-620866, WAG); Ayamiken, *Lisowski M-964* (BRLU). Wele Nzas: Eviam, Aconibe-Acurenam, *Pérez Viso* 1824 (MA-711359).

Previously reported from Litoral (*Lejoly & Lisowski* 1998: 55; *Estrella et al.* 2010a: 7) and Wele Nzas (*Estrella et al.* 2010a: 7).

Baphia buettneri subsp. **hylophila** (Harms) Soladoye in Kew Bull. 40: 378 (1985)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Niefang, entre Río Sama e Comayá, *Carvalho* 5612 (BRLU, MA-598560, MO, WAG). Wele Nzas: Nkoletangan, *Tessmann* 277 (K).

Previously reported from Litoral (*Estrella et al.* 2010a: 7) and Wele Nzas (*Estrella et al.* 2010a: 7).

Baphia cuspidata Taub. in Bot. Jahrb. Syst. 23: 176 (1896)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Pembe, estrada km. 23, *Carvalho* 5232 (MA-599492, MO, WAG); Bata-Pembe, estrada kms. 28-29, *Carvalho* 5172 (MA-599474, MO, WAG); Bata-Bome, estrada km. 19-20, *Carvalho* 4879 (MA-597450, MO, WAG).

Previously reported from Litoral (*Estrella et al.* 2010a: 8).

Baphia dubia De Wild., Pl. Bequaert. 3(2): 276 (1925)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Río Muni: [without locality]. *Tessmann* 1016 (K).

Previously reported from Río Muni without any precise locality (*Estrella et al.* 2010a: 8).

Baphia laurifolia Baill. in Adansonia 6: 213 (1866)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye (Senge), estrada km 24, *Carvalho* 6527 (MA-620925); Bata-Bome, *Carvalho* 4971 (MA-610090, MO, WAG); Bata-Sendje, estrada km. 18-19, *Carvalho* 5712 (MA-599253); Bata-Bome, río Boara, *Carvalho* 4823 (MA-597745, MO, WAG).

Previously reported from Litoral (Estrella *et al.* 2010a: 8) and Río Muni (Estrella *et al.* 2010a: 8).

Baphia leptostemma Baill. in Adansonia 6: 214 (1866) subsp. **leptostemma**

VU Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Bong, senda que va hacia el lago Atok, *Pérez Viso* 1313 (MA-712208). Litoral: Bata-Ayamiken, estrada kms. 56-57, *Carvalho* 4932 (MA-597880, MO, WAG).

Previously reported from Centro Sur (Estrella *et al.* 2010a: 9) and Litoral (Estrella *et al.* 2010a: 9).

Baphia maxima Baker in Oliv. (ed.), Fl. Trop. Afr. 2: 250 (1871)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Ayamiken, *Lisowski* M-946 (BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 55; Estrella *et al.* 2010a: 9).

Baphia nitida Lodd. in Bot. Cab., pl. 367 (1820)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Elendé, *Lisowski* M-1050 (BRLU).

Previously reported from Litoral (Guinea 1946: 157; Estrella *et al.* 2010a: 9).

Baphia pilosa Baill. in Adansonia 6: 216 (1866)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Pembe, estrada km. 28-29, *Carvalho* 5233 (MA-599493, MO, WAG); Bata-Pembe, estrada kms. 35, zona del antiguo Serradero de A.L.E.N.A., *Carvalho* 5174 (MA-599472, MO, WAG); Bata-Senye, estrada kms. 20-21, proximo a Nkoekie, *Carvalho* 5005 (MA-598934, MO, WAG).

Previously reported from Litoral (Estrella *et al.* 2010a: 9).

Baphia spathacea Hook.f. in Oliv. (ed.), Fl. Trop. Afr. 2: 250 (1871)

EN Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Enkumekien, *Pérez Viso 1581* (MA-711800).

Previously reported from Centro Sur (Estrella *et al.* 2010a: 9) and Litoral (Lejoly & Lisowski 1998: 55).

Baphiopsis parviflora Benth. ex Baker in Oliv. (ed.), Fl. Trop. Afr. 2: 256 (1871)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 27).

Bauhinia monandra Kurz in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 42(2): 73 (1873)

NE Naturalized

Native to Madagascar, elsewhere naturalized in the Tropics and Subtropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Evinayong, *Guinea 289* (MA-712044).

Previously reported from Centro Sur (Estrella *et al.* 2006: 544).

Bauhinia purpurea L., Sp. Pl.: 375 (1753)

LC Introduced

Native to India, elsewhere naturalized in the Tropics and Subtropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 27).

Berlinia auriculata Benth. in Trans. Linn. Soc. London 25: 309 (1866)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Corisco, *Pérez Viso 1874* (MA-711281); desembocadura del río Campo, *Pérez Viso 2172* (MA-711535).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 28), Litoral (Estrella *et al.* 2006: 544) and Wele Nzas (Lejoly & Lisowski 1998: 28).

Berlinia bracteosa Benth. in Trans. Linn. Soc. London 25: 309 (1866)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Evinayong, *Guinea* 409 (MA-294487), 412 (MA-294487), 944 (MA-712038), 1041 (MA-712039). Kie Ntem: carretera que va de Nsok Nsomo a Nfuin, a unos 9 km de Nsok Nsomo, *Barberá & al.* 196 (MA-831442). Litoral: près de la frontière gabonaise, chantier forestier à l'est de Cogo, *McPherson* 14021 (MO, WAG); Binguro, km. 54 de la carretera de Bata a Kogo, *Pérez Viso* 2889 (MA-711539).

Previously reported from Centro Sur (Guinea 1946: 141, 294; Estrella *et al.* 2006: 544), Litoral (Estrella *et al.* 2006: 544) and Wele Nzas (Guinea 1946: 144).

Berlinia bruneelii (De Wild.) Torre & Hillc. in Bol. Soc. Brot. ser. 2, 29: 40 (1955)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: Nkolentangan, *Tessmann* 333 (K).

Previously reported from Wele Nzas (Estrella *et al.* 2006: 544).

Berlinia confusa Hoyle in Bull. Misc. Inform. Kew 1934(5): 184 (1934)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Utonde, estrada kms 21-22, Ebeevang, *Carvalho* 4731 (MA-593452, MO, WAG)

Previously reported from Litoral (Guinea 1946: 157; Estrella *et al.* 2006: 545), Wele Nzas (Guinea 1946: 144) and Río Muni without any precise locality (Guinea 1946: 294).

Berlinia congolensis (Baker f.) Keay in Kew Bull. 9: 271 (1954)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senge, estrada km 24, *Carvalho* 6317 (MA-620650).

Previously reported from Litoral (Estrella *et al.* 2006: 545).

Berlinia grandiflora (J.Vahl) Hutch. & Dalziel in Bull. Misc. Inform. Kew 1928: 398 (1928)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Evinayong, *Guinea* 1178 (MA-301347). Litoral: Bata-Senge, estrada km

18, *Carvalho* 6336 (MA-620555, WAG); Bata-Mongo-Nosok, entre Mongo y Nosok, *Carvalho* 5065 (MA-593443, MO, WAG).

Previously reported from Centro Sur (Estrella *et al.* 2006: 545) and Litoral (Estrella *et al.* 2006: 545).

Bikinia grisea Wieringa in Wageningen Agric. Univ. Pap. 99(4): 218 (1999)
LC Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Wieringa 1999: 222) and Wele Nzaz (Estrella *et al.* 2006: 545).

Bikinia letestui (Pellegr.) Wieringa in Wageningen Agric. Univ. Pap. 99(4): 222 (1999)
subsp. **letestui**
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P. N. Monte Alen, cabaña de Mosumo, *Senterre & Obiang* 4017 (BRLU).
Litoral: Bata-Bolondo, estrada kms 22-23, area de exploración florestal de Exfosa, *Carvalho* 5265 (MA-593425, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 32; Wieringa 1999: 228; Estrella *et al.* 2006: 545) and Litoral (Wieringa 1999: 228; Estrella *et al.* 2006: 545).

Bikinia pellegrinii (A.Chev.) Wieringa in Wageningen Agric. Univ. Pap. 99(4): 234 (1999)
LC Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Monte Alen, Moka, *Wilks* 3523 (BRLU, WAG). Kie Ntem: alrededores del poblado de Obot Nku-Eseng, a 7 km de Nsok Nsomo, *Barberá & al.* 163 (MA-831696).

Previously reported from Centro Sur (Wieringa 1999: 240; Estrella *et al.* 2006: 545) and Litoral (Lejoly & Lisowski 1998: 32).

Bobgunnia fistuloides (Harms) J.H. Kirkbr. & Wiersema in Brittonia 49(1): 3 (1997)
LC Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Mongo-Zona Florestal de Alosa, estrada km. 42, *Carvalho* 5416 (MA-599431, MO, WAG). Litoral: Bata-Pembe, estrada kms. 27-28, *Carvalho* 5390 (MA-599440, MO, WAG); Bata-Pembe, estrada kms 29-30, Ntuva, *Carvalho* 5284 (MA-593426, MO, WAG). Wele Nzaz: Nkolentangan, *Tessmann* 82 (K).

Previously reported from Centro Sur (Estrella *et al.* 2010a: 38), Litoral (Estrella *et al.*

2010a: 38) and Wele Nzas (Estrella *et al.* 2010a: 38).

Brachystegia cynometroides Harms in Bot. Jahrb. Syst. 26: 267 (1899)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 28) and Wele Nzas (Guinea 1946: 145).

Brachystegia mildbraedii Harms in Notizbl. Bot. Gart. Berlin-Dahlem 8(72): 151 (1922)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Okorobikó, cerca del río Uele, *Sabater Pi s.n.* (K); Monte Bata, cruce con la carretera a Río Campo, *Wilks 3535* (WAG).

Previously reported from Litoral (Estrella *et al.* 2006: 545).

Caesalpinia pulcherrima (L.) Sw., Observ. Bot.: 166 (1791)

LC Naturalized

Native from SE. Mexico to Central America, naturalized elsewhere in the Tropics and Subtropics. All Africa. Also known from Annobón and Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 28) and Río Muni without any precise locality (Guinea 1946: 296).

Cajanus cajan (L.) Huth in Helios 11: 133 (1893)

NE Naturalized

Native to India, cultivated and naturalized elsewhere in the Tropics. Africa. Also known from Annobón and Bioko.

Litoral: Área de Mbini, poblado de Bolondo y Matondo, *López Serrano 170410, 170411, 170412* (MA); Área de Machinda, poblado de Ayamiken, *López Serrano 190310, 190311, 190312* (MA).

Calliandra surinamensis Benth. in London J. Bot. 3: 105 (1844)

LC Naturalized

Native to S. Tropical America, naturalized in Tropical Africa and Australia. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Eyan Bot, km. 12 de la carretera del puerto a Kogo, *Pérez Viso 3562* (MA-705390).

Previously reported from Litoral (Lejoly & Lisowski 1998: 84; Estrella *et al.* 2005: 13).

Calopogonium mucunoides Desv. in Ann. Sci. Nat., Paris 9: 423 (1826)

NE Naturalized

Native from S. Mexico to Tropical America, cultivated and naturalized elsewhere in the Tropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Bindung, km. 17 de la carretera de Niefang, *Pérez Viso* 3786 (MA-711426); Niefang, Bindeng, pista hacia el río Uoro, *Pérez Viso* 2400 (MA-710936); Engong, *Eneme* 488 (BRLU). Kie Ntem: alrededores del poblado de Obot Nku-Eseng, a 7 km de Nsok Nsomo, *Barberá & al.* 187 (MA-831451); Engokua, Ebebiyin, *Pérez Viso* 4348 (MA-710940). Litoral: Utonde, carretera de Utonde a Bata, *Barberá & al.* 283 (MA-844243); carretera de Mbini, *Pérez Viso* 3338 (MA-711000); Sendje, *Pérez Viso* 3372 (MA-710763); Bata-Pembe-Río Mbía, estrada kms. 31-32, *Carvalho* 5281 (MA-597975, MO, WAG). Wele Nzas: Añisok, *Pérez Viso* 4169 (MA-712189); Mbiet, Añisok, *Pérez Viso* 3578 (MA-710903).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 55; Estrella *et al.* 2010a: 10), Litoral (Lejoly & Lisowski 1998: 55; Estrella *et al.* 2010a: 10), Kien Ntem (Estrella *et al.* 2010a: 10) and Wele Nzas (Estrella *et al.* 2010a: 10).

Calpocalyx dinklagei Harms in Engl. & Prantl (eds.), Nat. Pflanzenfam. Nachtr. 1: 191 (1897)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, transect de Monte Alén, km 0 à 1, *Lejoly* 95/188 (BRLU). Litoral: Bata-Pembe, estrada kms. 28-29, *Carvalho* 5384 (MA-599422, MO, WAG); Bata-Niefang, estrada km. 35. zona de Comayá, *Carvalho* 5682 (MA-598989, WAG). Wele Nzas: Eviam, carretera forestal de Bata a Niefang, *Pérez Viso* 2584 (MA-705940).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 84; Estrella *et al.* 2005: 13), Litoral (Estrella *et al.* 2005: 13), Wele Nzas (Guinea 1946: 144; Estrella *et al.* 2005: 13) and Río Muni without any precise locality (Lock 1989: 88; Hepper 1958: 488; Guinea 1946: 291).

Calpocalyx heitzii Pellegr. in Bull. Soc. Bot. France 84: 643 (1938)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Emangos, *Obama* 837 (BRLU); Bikukbinii [Bicubini], *C. Wilks* 3564 (BRLU).

Previously reported from Litoral (Estrella *et al.* 2005: 14).

Calpocalyx klainei Pierre ex Harms in Bull. Soc. Bot. France 58, Mém. 8: 156 (1912)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Sendje, estrada Km. 23-24, *Carvalho* 5687 (MA-598984, WAG); Bata-Senye (Senge), estrada km. 27, *Carvalho* 6128 (MA-619195, WAG).

Previously reported from Litoral (Estrella *et al.* 2005: 14) and Río Muni without any

precise locality (Guinea 1946: 291).

Calpocalyx ngouniensis Pellegr. in Bull. Soc. Bot. France 87: 261 (1941)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: SO du Parc National de Monte Alén, río Uolo pour aller aux cataractas, *Senterre & al.* 2346 (BRLU), 2352 (BRLU); Litoral: Bata-Bicomo, Central electrica, bosque secundario entre Nkoantoma e Ayelon, *Carvalho* 4775 (MA-597586, MO, WAG)

Previously reported from Litoral (*Estrella et al.* 2005: 14).

Camoensia brevicalyx Benth. in Trans. Linn. Soc. London 25: 302 (1865)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Río Muni: [Without locality], *Mann* 1842 (K).

Previously reported from Río Muni (*Estrella et al.* 2010a: 11).

Camoensia scandens (Welw.) J.B.Gillett in Kew Bull. 17(1): 166 (1963)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Guinea 1946: 296)

Canavalia ensiformis (L.) DC., Prodr. 2: 404 (1825)

NE Naturalized

Native to Tropical & Subtropical America, naturalized elsewhere in the Tropics. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata, *Lejoly* 97/108 (BRLU).

Previously reported from Litoral (*Lejoly & Lisowski* 1998: 56; Guinea 1946: 65; *Estrella et al.* 2010a: 11) and Río Muni without any precise locality (Guinea 1946: 70, 299).

Canavalia rosea (Sw.) DC., Prodr. 2: 404 (1825)

LC Native

Tropical coasts of Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Annobón and Bioko.

Litoral: Corisco, playa al S.O. de la isla, *Pérez Viso* 1976 (MA-712209); costa, *Guinea* 981 (MA-712061); Bata-Desembocadura del Río Ecucu, *Carvalho* 5220 (MA-599637, MO, WAG); Benito, *Guinea* 560 (MA-294514, 294515).

Previously reported from Litoral (Lejoly & Lisowski 1998: 56; 1999a: 101; *Guinea* 1946: 169; Estrella *et al.* 2010a: 11) and Río Muni without any precise locality (*Guinea* 1946: 299).

Cassia mannii Oliv. in Oliv. (ed.), *Fl. Trop. Afr.* 2: 272 (1871)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (*Guinea* 1946: 154).

Cathormion altissimum (Hook.f.) Hutch. & Dandy in *Bull. Misc. Inform. Kew* 1928: 401 (1928)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (*Guinea* 1946: 141).

Centrosema pubescens Benth., *Comm. Legum. Gen.*: 55 (1837)

NE Naturalized

Native from Mexico to Tropical America, cultivated and naturalized in the rest of the Tropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Bindung, km 17 de la carretera de Niefang, *Pérez Viso* 3797 (MA-710899). Litoral: Miwala, a 5 km de Kogo, *Pérez Viso* 3945 (MA-712197); Bata, cerca del puerto, *Pérez Viso* 1442 (MA-712191).

Previously reported from Centro Sur (Estrella *et al.* 2010a: 11) and Litoral (Lejoly & Lisowski 1998: 56; Estrella *et al.* 2010a: 11).

Chamaecrista kirkii (Oliv.) Standl. in *Smithsonian Misc. Collect.* 68(5): 5 (1917)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Acurenam, *Del Val s.n.* (MA-712030); P.N. Monte Alén, Misergue, senda hacia el río Laña, *Pérez Viso* 1151 (MA-711260); Niefang, Bindeng, pista hacia el río Uoro, *Pérez Viso* 2409 (MA-710935); P.N. Monte Alén, *Pérez Viso* 3296 (MA-710959); Mosumu, *Pérez Viso* 3476 (MA-711785); P.N. Monte Alén, Moka, carretera que une Moka con Engong, *Pérez Viso* 298 (MA-689411). Kie Ntem: Nfuiñ, a 29 km de Nsoc Nsomo por la pista que va hacia Bata, *Cabezas & al.* 1320 (MA-831956); Engokua, Ebebiyin, *Pérez Viso* 4352 (MA-711261). Litoral: Río Benito, *Del Val s.n.*

(MA-712032); Bata-Bome, *Carvalho 5103* (MA-599725, MO, WAG); Bata-Senye (Senge)-Mitom-Emangës, estrada km 52, Emangós, *Carvalho 6398* (MA-620828, WAG). Wele Nzaz: Nsok, Esumn, *Del Val s.n.* (MA-696925, 696926).

Previously reported from Centro Sur (Estrella *et al.* 2006:546), Kie Ntem (Estrella *et al.* 2006:546), Litoral (Lejoly & Lisowski 1998: 28; Estrella *et al.* 2006:546) and Wele Nzaz (Estrella *et al.* 2006: 546).

Chamaecrista mimosoides (L.) Greene in Pittonia 4: 27 (1899)

LC Native

Native to Tropical & S. Africa, Tropical Asia to N. Australia. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Karroo Namib Region; Cape Region; Madagascan Region. Also known from Bioko.

Litoral: Bata, servicio agronómico, *Guinea 1056* (MA-712218); *1058* (MA-712215); Bata, Asonga, *Castelo & Juste s.n.* (MA-712105); Río Benito, camino de Nkogosi, *Del Val s.n.* (MA-712052, 712053, 712054, 712055); Ayamiken, Río Campo, *Pérez Viso 2832bis* (MA-712016); Bome, *Pérez Viso 1728* (MA-711264); Diádive, *Guinea 196-748* (MA-294480).

Previously reported from Litoral (Lejoly & Lisowski 1998: 28; Guinea 1946: 295; Estrella *et al.* 2006:546), Wele Nzaz (Lejoly & Lisowski 1998: 28) and Río Muni without any precise locality (Guinea 1946: 295).

Clitoria ternatea L., Sp. Pl.: 753 (1753)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 299).

Copaifera religiosa J.Léonard in Bull. Jard. Bot. État Bruxelles 19: 398 (1949)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Nsork, Obamicu, *Nguema, Esono & Lejoly 243* (BRLU).

Previously reported from Centro Sur (Estrella *et al.* 2006: 546).

Crotalaria pallida Aiton, Hort. Kew. 3: 20 (1789)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province,

Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Litoral: Corisco, *Pérez Viso 1910* (MA-712196); *Velayos & al. 9977* (MA-711278).

Previously reported from Litoral (Estrella *et al.* 2010a: 13).

Crotalaria retusa L., Sp. Pl.: 715 (1753)

NE Naturalized

Native to W. Indian Ocean, Tropical & Subtropical Asia and N. Australia, naturalized in Tropical America and Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Evinayong, *Guinea 89* (MA-294511); Adjap, *Guinea 23* (MA-294510).

Litoral: Mbini, nuevo puente Mbini-Bolondo, sobre el río Wele, *Fero & al. 287* (MA-844599); Evinayong, km. 5 de la carretera de Kogo, *Pérez Viso 3858* (MA-712187); Bata, cerca del puerto, *Pérez Viso 1458* (MA-712183); Mokomo, km. 19 de la carretera de Kogo, *Pérez Viso 3889* (MA-710906); carretera de Mbini, *Pérez Viso 3359* (MA-710768). Wele Nzaz: Nsok, *Del Val s.n.* (MA-696904, 696906).

Previously reported from Centro Sur (Estrella *et al.* 2010a: 13), Litoral (Lejoly & Lisowski 1998: 56; Estrella *et al.* 2010a: 13) and Wele Nzaz (Estrella *et al.* 2010a: 13).

Crudia gabonensis Pierre ex De Wild., Miss. Ém. Laurent: 98 (1905)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Ngong, *Senterre & Obiang 4141* (BRLU). Litoral: Bata-Niefang, estrada km. 35, de Adjape y Comayá, entre los ríos Sama y Comayá, *Carvalho 5829* (MA-610054).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 29) and Litoral (Estrella *et al.* 2006: 546).

Crudia klainei Pierre ex De Wild. in Bull. Jard. Bot. État Bruxelles 7: 250 (1920)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Mbini, *Nguema & Obiang 10* (WAG); Elende, *Wieringa & Haegens 2264* (WAG).

Crudia ledermannii Harms in Bot. Jahrb. Syst. 45: 297 (1910)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Monte Alén, *Lejoly 95T/L3.465/756* (WAG).

Crudia senegalensis Planch. ex Benth. in Trans. Linn. Soc. London 25(2): 314 (1865)
NE Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 29).

Crudia zenkeri Harms ex De Wild., Miss. Ém. Laurent: 97 (1905)
LC Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: P. N. Monte Alén, *Senterre & Ngomo 677* (BRLU); Monte Alén, *Obiang 258* (WAG).

Cryptosepalum staudtii Harms in Bot. Jahrb. Syst. 26: 267 (1899)
NT Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Wele Nzas: Nkolentangan, *Tessmann 307* (K).

Previously reported from Wele Nzas (Estrella *et al.* 2006:546) and Río Muni without any precise locality (Hepper 1958: 480; Guinea 1946: 295).

Cylicodiscus gabunensis (Taub.) Harms in Engl. & Prantl (eds.), Nat. Pflanzenfam. Nachtr. 1: 192 (1897)
LC Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Niefang, explotación forestal de Matroguisa, *Pérez Viso 2345* (MA-705388). Wele Nzas: entre Eviam y Aconibe, *Pérez Viso 2084* (MA-705389).

Previously reported from Centro Sur (Guinea 1946: 141; Estrella *et al.* 2005: 14), Wele Nzas (Lejoly & Lisowski 1998: 84; Guinea 1946: 144; Estrella *et al.* 2005: 14) and Río Muni without any precise locality (Lock 1989: 88; Guinea 1946: 291).

Cynometra mannii Oliv. in Oliv. (ed.), Fl. Trop. Afr. 2: 317 (1871)
LC Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón.

Litoral: Baga, *Eneme 338* (WAG); Bata-Bolondo, estrada Km. 16-17, *Carvalho 5936* (MA-609952); Bata-Bolondo, nas margen del río Boara, *Carvalho 4759* (MA-593451, MO, WAG); Río Benito, *Guinea 231* (MA-294479).

Previously reported from Litoral (Lejoly & Lisowski 1998: 29; Estrella *et al.* 2006:547) and Wele Nzas (Guinea 1946: 144).

Cynometra schlechteri Harms in Bot. Jahrb. Syst. 30: 77 (1901)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Yanaboté, *Issembe 23* (WAG).

Dalbergia adamii subsp. **erectipilis** O.Lachenaud, Fl. Gabon 49: 106 (2016)

DD Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province)

Centro Sur: Bata-Niefang, estrada Km. 61, zona de Abang, *Carvalho 5706* (MA-599136, MO, WAG)

Previously recorded from Centro Sur (Lachenaud 2016a: 106).

Dalbergia afzeliana G.Don, Gen. Hist. 2: 375 (1832)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye (Senge), estrada km 40. puente del río Benito, *Carvalho 5155* (MA-599632, MO, WAG), *6428* (MA-620505). Wele Nzaz: región de Añisok, Nzuamayong, inselberg Akoum, *Lisowski M-641* (BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 56; Estrella *et al.* 2010a: 13) and Wele Nzaz (Lejoly & Lisowski 1998: 56; Estrella *et al.* 2010a: 13).

Dalbergia bakeri Welw. ex Baker in Oliv. (ed.), Fl. Trop. Afr. 2: 235 (1871)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Ndote Sud, Etembué, *Lisowski M-542* (BRLU).

Previously reported from Litoral (Lachenaud & van der Maesen 2016: 170; Lejoly & Lisowski 1998: 56; Estrella *et al.* 2010a: 14) and Wele Nzaz (Lachenaud & van der Maesen 2016: 170).

Dalbergia crispa Hepper in Kew Bull. 11: 132, fig. 9A (1956)

VU Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Litoral: Bata-Senye (Senge), estrada km 40, sobre el puente del río Benito, *Carvalho 6427* (MA-620506); Bata-Pembe-San Joaquin de Ndyjacon, estrada kms. 22-23, *Carvalho 5245* (MA-598161, MO, WAG).

Previously reported from Centro Sur (Estrella *et al.* 2010a: 14).

Dalbergia ecastaphyllum (L.) Taub. in Engl. & Prantl (eds.), Nat. Pflanzenfam. 3(3): 335 (1894)

LC Native

Native to Tropical & Subtropical America and from W. Tropical Africa to Angola, naturalized in India. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Litoral: río Campo, playa cerca de la desembocadura del río, *Barberá & al.* 289 (MA-844237); Utonde, *Barberá & al.* 231 (MA-843807); 241 (MA-843797); Corisco, *Pérez Viso* 1929 (MA-712200); 1973 (MA-712107); Utonde, *Guinea 806bis* (MA-712066); 808 (MA-712065); 174-808 (MA-294498); desembocadura del río Campo, *Pérez Viso* 2139 (MA-710900); Bata, desembocadura do Río Ecucu, *Carvalho* 5104 (MA-599724, MO, WAG); Etembue, Espigon (réserve de Ndote), *Obama & Lejoly* 610 (MA-612190); Bata-Pembe, estrada kms. 30, chegada s povoapao de Pembe. Margens de Río Utonde, *Carvalho* 5401 (MA-598321, MO, WAG); Río Ecucu, *Guinea* 113-761 (MA-294496); 484-762 (MA-294497).

Previously reported from Litoral (Lejoly & Lisowski 1998: 56; 1999a: 102; Guinea 1946: 154, 298; Estrella *et al.* 2010a: 14).

Dalbergia fouilloyana Pellegr. in Bull. Soc. Bot. France 93: 110 (1946)

VU Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Previously recorded from Río Muni (Lachenaud 2016a: 118).

Dalbergia heudelotii Stapf in J. Linn. Soc., Bot. 37: 95 (1905)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 57).

Dalbergia hostilis Benth. in J. Linn. Soc., Bot. 4(Suppl.): 33 (1860)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Río Muni: *Tessmann* 873 (K).

Previously reported from Wele Nzas (Lachenaud & van der Maesen 2016: 185) and Río Muni without any precise locality (Estrella *et al.* 2010a: 15).

Dalbergia lactea Vatke in Oesterr. Bot. Z. 29: 251 (1879)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian

Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Mbubuin-San Joaquin de Ndyjacon, estrada km 35, Mbubuin, *Carvalho* 4966 (MA-599207, MO, WAG).

Previously reported from Litoral (Estrella *et al.* 2010a: 15).

Dalbergia lancistipula O.Lachenaud in Fl. Gabon 49: 124 (2016)

EN Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Previously recorded from Rio Muni (Lachenaud 2016a: 124).

Dalbergia louisii Cronquist in Bull. Jard. Bot. État Bruxelles 22: 217 (1952)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Lachenaud 2016a: 130).

Dalbergia mayumbensis Baker f. in J. Bot. 66 (Suppl. 1): 124 (1928)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Lachenaud 2016a: 134).

Dalbergia micheliana De Wild. in Ann. Mus. Congo, Bot., ser. V, 1: 148 (1904)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lachenaud & van der Maesen 2016: 175) and Wele Nzaz (Lachenaud & van der Maesen 2016: 175).

Dalbergia oblongifolia G.Don, Gen. Hist. 2: 375 (1832)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Litoral: Bata-Senye (Senge), estrada km 27, *Carvalho* 6153 (MA-619187). Wele Nzaz: inselberg Dumu, *Lejoly* 99/325 (WAG)

Previously reported from Centro Sur (Estrella *et al.* 2010a: 15) and Wele Nzaz (Estrella *et al.* 2010a: 15).

Dalbergia rufa G.Don, Gen. Hist. 2: 375 (1832)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bicomo, zona de Central Hidroeléctrica proxima Río Ecucu, *Carvalho* 5216 (MA-599739, MO, WAG); Bata-Pembe, estrada kms. 25-26, praderas de Pembe, *Carvalho* 5225 (MA-599500, MO, WAG); Bata-Bome, *Carvalho* 4940 (MA-597245, MO, WAG). Wele Nzas: inselberg Dumu, *Lejoly* 99/341 (MA-621694).

Previously reported from Litoral (Lejoly & Lisowski 1998: 57; Estrella *et al.* 2010a: 16) and Wele Nzas (Estrella *et al.* 2010a: 16).

Dalbergia saxatilis Hook.f. in Hook. (ed.), Niger Fl.: 314 (1849)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Niefang, Bindeng, pista hacia el río Uoro, *Pérez Viso* 2410 (MA-711272).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 57; Estrella *et al.* 2010a: 16) and Wele Nzas (Lejoly & Lisowski 1998: 57; 1999a: 119).

Dalbergia semiapplanata O.Lachenaud in Symb. Bot. Upsal. 38: 188 (2016)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lachenaud & van der Maesen 2016: 190).

Dalbergia stenopetala O.Lachenaud in Fl. Gabon 49: 148 (2016)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province)

Previously recorded from Rio Muni (Lachenaud 2016a: 148).

Dalbergia xylocarpa O.Lachenaud in Symb. Bot. Upsal. 38: 190 (2016)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Punta Mbonda: Nas praderas graminosas de Punta Mbonda, *Carvalho* 4745 (MA-597962, MO, WAG).

Previously reported from Litoral (Lachenaud & van der Maesen 2016: 192).

Dalbergiella gossweileri Baker f. in J. Bot. 66 (Suppl. 1): 127 (1928)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Añisok-Mongola, *Pérez Viso 1490* (MA-712186). Litoral: Bata-Mongo-Explorapao Florestal de Alosa, *Carvalho 5432* (MA-598439, MO, WAG).

Previously reported from Centro Sur (Estrella *et al.* 2010a: 16) and Litoral (Estrella *et al.* 2010a: 16).

Dalhousiea africana S.Moore in J. Bot. 18: 2 (1880)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Añisok, *Pérez Viso 1366* (MA-711002). Litoral: Bata-Senye (Senge), estrada km 27, *Carvalho 6243* (MA-620272, WAG); Bata-Niefang-Biyobo, río Benito junto al poblado de Biyobo de Niefang, *Carvalho 5898* (MA-599794); Bata-Mongo (Alosa), estrada kms. 88-89 desde Bata, *Carvalho 5498* (MA-599385, MO, WAG). Wele Nzaz: Mofú, cerca de Oven, *Pérez Viso 2114* (MA-712202).

Previously reported from Litoral (Estrella *et al.* 2010a: 16) and Wele Nzaz (Estrella *et al.* 2010a: 16).

Daniellia klainei Pierre ex A.Chev., Bois du Gabon: 172 (1917)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P. N. Monte Alén, Monte Chocolate, *Lejoly 95T/160* (BRLU). Río Muni: [without any precise locality], *Esono & Obiang 533* (MA-804250).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 29; Estrella *et al.* 2006: 547); Estrella *et al.* (2010b: 306) and Río Muni without any precise locality (Guinea 1946: 293).

Daniellia oblonga Oliv. in Oliv. (ed.), Fl. Trop. Afr. 2: 300 (1871)

VU Native

Tropical Africa. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Centro Sur: P. N. Monte Alén, *Senterre & al. 2214* (BRLU).

Previously reported from Centro Sur (Estrella *et al.* 2010b: 308).

Desmodium adscendens (Sw.) DC., Prodr. 2: 332 (1825)

LC Native

Native to Tropical America and Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland

Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: carretera forestal Bata-Niefang, Nhogo Ebaiñ, *Pérez Viso 2670bis* (MA-711601); Engong, *Pérez Viso 1723* (MA-710901); P.N. Monte Alén, Engong, camino de el Lago, *Velayos & al. 9490* (MA-710898); carretera de Niefang a Evinayong, km. 15, poblado cerca de Ndong, *Cabezas 86* (MA-695670). Kie Ntem: Nfuiñ, a 29 km de Nsoc Nsomo por la pista que va hacia Bata, *Cabezas & al. 1330* (MA-831966). Litoral: Área de Machinda. Poblado de Njacom, *López Serrano 120305* (MA); río Campo, carretera de la playa al pueblo, *Barberá & al. 300* (MA-844525); Corisco, *Pérez Viso 1994* (MA-711424); 1927 (MA-712199); Bata, *Guinea 1066* (MA-712037); Corisco, camino hacia el N a 100 m de la casa de Yniestrosa, *Velayos & al. 9926* (MA-711279); cortina litoral Benito, *Guinea 201-1008* (MA-294519), Wele Nzas: Akok, carretera Acurenam-Aconibe, *Pérez Viso 2014* (MA-712106).

Previously reported from Centro Sur (Estrella *et al.* 2010a: 17) and Wele Nzas (Estrella *et al.* 2010a: 17).

Desmodium incanum DC., Prodr. 2: 332 (1825)

NE Naturalized

Native to Tropical & Subtropical America, naturalized elsewhere in the Tropics. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Previously reported from Litoral (Guinea 1946: 157, 159; Estrella *et al.* 2010a: 17).

Desmodium ramosissimum G.Don, Gen. Hist. 2: 294 (1832)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: P.N. Monte Alén, Esamalang, *Pérez Viso 3297* (MA-710958). Litoral: Bata, cerca del puerto, *Pérez Viso 1446* (MA-712190); Ondo, km. 10 de la carretera del puerto de Bata, *Pérez Viso 3505* (MA-710905); Bata-praderas de Bome, *Carvalho 5857* (MA-609969, WAG); Bata-Asonga, *Carvalho 4650* (MA-597918, MO, WAG); Playa Benito, *Guinea 225-529* (MA-294520). Wele Nzas: Nsum Esangüi, *Pérez Viso 3627* (MA-711420).

Previously reported from Centro Sur (Estrella *et al.* 2010a: 16), Litoral (Lejoly & Lisowski 1998: 57; Estrella *et al.* 2010a: 18) and Wele Nzas (Estrella *et al.* 2010a: 18).

Desmodium salicifolium (Poir.) DC., Prodr. 2: 337 (1825)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region

(Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón.

Wele Nzas: Nkolentagan, *Tessmann* 286 (K).

Previously reported from Wele Nzas (Estrella *et al.* 2010a: 19).

Desmodium setigerum (E.Mey.) Benth. in Harv. & Sond. (eds.), Fl. Cap. 2: 229 (1862)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanien Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Litoral: Ayamiken, Río Campo, *Pérez Viso* 2827bis (MA-712015)

Previously reported from Litoral (Estrella *et al.* 2010a: 19)

Desmodium tortuosum (Sw.) DC., Prodr. 2: 332 (1825)

NE Naturalized

Native from Mexico to Tropical America, naturalized elsewhere in the Tropics. Sudano-Zambezian Region (Sudanien Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón.

Litoral: Bata, *Lisowski M-107* (BRLU), 286 (BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 57; Estrella *et al.* 2010a: 19).

Desmodium triflorum (L.) DC., Prodr. 2: 334 (1825)

LC Native

Native to the Tropics & Subtropics. Sudano-Zambezian Region (Sudanien Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Centro Sur: Ngong, praderas de Akwaosí, *Cabezas* 177 (MA-695776); P.N. Monte Alén, alrededores del lago Atok, *Pérez Viso* 30 (MA-691265). Litoral: Bata, cerca del puerto, *Pérez Viso* 1453 (MA-712111); Benito, *Guinea* 1008 (MA-712027); Bata, entre Asonga e o Aeroporto, *Carvalho* 4633 (MA-597321, MO, WAG).

Previously reported from Centro Sur (Estrella *et al.* 2010a: 19), Litoral (Lejoly & Lisowski 1998: 57; Estrella *et al.* 2010a: 19) and Río Muni without any precise locality (Guinea 1946: 297).

Desmodium velutinum (Willd.) DC., Prodr. 2: 328 (1825)

NE Native

Native to Tropical & Subtropical Old World. Sudano-Zambezian Region (Sudanien

Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Annobón and Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 297).

Detarium macrocarpum Harms in Bot. Jahrb. Syst. 30: 78 (1901)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzaz (Guinea 1946: 144) and Río Muni without any precise locality (Guinea 1946: 293).

Detarium microcarpum Guill. & Perr., Fl. Seneg. Tent. 1: 271 (1832)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Río Muni: Neu Kamerun, Basuma Uham, *Tessmann 2501* (K).

Dialium angolense Welw. ex Oliv. in Oliv. (ed.), Fl. Trop. Afr. 2: 283 (1871)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzaz: Nkolentangan, *Tessmann 43* (K).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 29), Wele Nzaz (Estrella *et al.* 2006: 548) and Río Muni without any precise locality (Estrella *et al.* 2006: 548).

Dialium bipindense Harms in Bot. Jahrb. Syst. 53: 470 (1915)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P. N. Monte Alén, cabaña de Misergue, *Senterre & Obiang 3163* (BRLU)

Previously reported from Centro Sur (Estrella *et al.* 2006: 548).

Dialium dinklagei Harms in Bot. Jahrb. Syst. 26: 275 (1899)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P. N. Monte Alén, Monte Alén, *Senterre & al. 2841* (BRLU).

Previously reported from Centro Sur (Estrella *et al.* 2006: 548).

Dialium guineense Willd. in Arch. Bot. (Leipzig) 1: 30, pl. 6 (1796)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P. N. Monte Alén, transecto de Monte Chocolate, *Senterre & Ngomo 3451* (BRLU). Wele Nzaz: Nkolentangan, *Tessmann 355* (K).

Previously reported from Centro Sur (Estrella *et al.* 2006: 548), Wele Nzaz (Guinea 1946: 144; Estrella *et al.* 2006: 548) and Río Muni without any precise locality (Guinea 1946: 295).

Dialium tessmannii Harms in Bot. Jahrb. Syst. 45: 303 (1910)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Campo región, Bebao, *Tessmann 730* (K).

Previously reported from Litoral (Estrella *et al.* 2006: 548) and Río Muni without any precise locality (Guinea 1946: 295).

Dichrostachys cinerea (L.) Wight & Arn., Prodr. Fl. Ind. Orient. 1: 271 (1834)

LC Naturalized

Native to India and Sri Lanka, naturalized in Africa, Australia and Asia. Elsewhere in Africa.

Previously reported from Río Muni without any precise locality (Guinea 1946: 291).

Didelotia africana Baill. in Adansonia 5: 367, tab. 8 (1865)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P. N. Monte Alén, Mosumo, confluencia del Laña y el Uele, *Lejoly 95T/181* (BRLU). Litoral: Elong-Long, *Wilks 3511a* (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 29; Estrella *et al.* 2006: 548), Litoral (Estrella *et al.* 2006: 548) and Río Muni without any precise locality (Guinea 1946: 294).

Didelotia brevipaniculata J.Léonard in Mém. Cl. Sci. Acad. Roy. Belgique (8vo) 30(2): 267 (1957)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P. N. Monte Alén, transecto del Monte Chocolate, *Lejoly 165* (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 34; Estrella *et al.* 2006: 548).

Didelotia engleri Dinkl. & Harms in Bot. Jahrb. Syst. 30: 80 (1901)

EN Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Previously reported from Río Muni without any precise locality (Guinea 1946: 295)

Didelotia letouzeyi Pellegr. in Bull. Soc. Bot. France 100(7-9): 266 (1953)

NT Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Mbini, *Obama* 882 (BRLU, WAG).

Previously reported from Litoral (Estrella *et al.* 2006: 548).

Didelotia unifoliolata J.Léonard in Bull. Jard. Bot. État Bruxelles 22: 205 (1952)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Nco, *Lejoly* 95T/L3.1108 (BRLU).

Previously reported from Litoral (Estrella *et al.* 2006: 548).

Dioclea hexandra (Ralph) Mabb. in Taxon 29: 605 (1980)

NE Native

Native to Tropical Old World. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Niefang, explotación forestal de Matroguisa, *Pérez Viso* 2309 (MA-711544); P.N. Monte Alén, Moka, carretera que une Moka con Engong, *Pérez Viso* 293 (MA-689412). Kie Ntem: Nsoc Nsomo, camino que va desde Nsoc Nsomo a Bata, Mocomo, *Cabezas & al.* 1234 (MA-831933). Litoral: río Campo, *Barberá & al.* 295 (MA-844231); Ndote Nord. c. Jandje, *Lisowski* M-52 (BRLU). Río Muni: Bimbile, *Guinea* 208 (MA-294501).

Previously reported from Centro Sur (Estrella *et al.* 2010a: 20), Litoral (Lejoly & Lisowski 1998: 57; Guinea 1946: 154; Estrella *et al.* 2010a: 20) and Wele Nzas (Estrella *et al.* 2010a: 20).

Distemonanthus benthamianus Baill., Hist. Pl. 2: 135 (1870)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Corisco bay, *Mann* 1844 (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 30; Guinea 1946: 141), Litoral (Estrella *et al.* 2006: 548), Wele Nzaz (Lejoly & Lisowski 1998: 30; Guinea 1946: 144) and Río Muni without any precise locality (Hepper 1958: 449; Hutchinson & Dalziel 1928: 336; Guinea 1946: 295).

Duparquetia orchidacea Baill. in Adansonia 6: 189, pl. 4 (1865)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: carretera de Monte Bata hacia Río Campo, *Pérez Viso* 2425 (MA-712182); km. 40 carretera forestal Bata-Niefang, *Pérez Viso* 2718bis (MA-711777); Bisun, carretera de Niefang a Evinayong, *Pérez Viso* 3412 (MA-710772). Kie Ntem: carretera que va de Nsok Nsomo a Añisok, a unos 30 km de Nsok Nsomo, *Barberá & al.* 210 (MA-831753); Ngomgom, poblado de la pista que va de Nsok Nsomo a Bata, *Barberá & al.* 104 (MA-831677). Litoral: carretera Bata-Mbini, proximidades del poblado Ngabe, ca. 35 km de Bata, *Fero & al.* 279 (MA-844607); près de la frontière gabonaise, chantier forestier à l'est de Cogo, *McPherson* 14028 (MO, WAG); Bata-Ayamiken, estrada kms 18-19, *Carvalho* 4804 (MA-593453, MO, WAG). Wele Nzaz: Alum, entre Mikomeseng y Nkue, *Pérez Viso* 3044 (MA-710778).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 30), Lejoly & Lisowski 1998: 30; Estrella *et al.* 2006: 548).

Englerodendron conchyliophorum (Pellegr.) Breteler in Adansonia sér. 3, 28(1): 109 (2006)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata, estrada km 13 da estrada Bata-Mbini zona forestal de Acan-Bot-Esaveng, *Carvalho* 6046 (MA-711346, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 31) and Litoral (Estrella *et al.* 2006: 551).

Entada gigas (L.) Fawc. & Rendle, Fl. Jamaica 4(2): 124, fig. 38 (1920)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Bong, senda que va hacia el lago Atok, *Pérez Viso* 1318 (MA-705833). Litoral: Utonde, *Guinea* 776 (MA-706064); Mbonde, *Guinea* 775 (MA-706063); Ecuco, *Guinea* 777 (MA-706062); Miwala, a 5 km de Kogo, *Pérez Viso* 3956 (MA-705845); Bata-Mbini, estrada kms. 23-24, *Carvalho* 5302 (MA-598258, MO, WAG). Wele Nzaz: cerro cúpula de Cucumancoc [Kukumankok], *Guinea* 11 374 (MA-294490)

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 84; Estrella *et al.* 2005:

14), Litoral (Guinea 1946: 154, 178; Estrella *et al.* 2005: 14), Wele Nzaz (Lejoly & Lisowski 1998: 84; 1999a: 119; Guinea 1946: 179, 184k; Estrella *et al.* 2005: 14) and Río Muni without any precise locality (Lock 1989: 91; Cufodontis 1955a: 210; Guinea 1946: 291)

Entada mannii (Oliv.) Tisser. in Bull. Soc. Bot. France 99: 257 (1953)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni without any precise locality (Lock 1989: 92).

Entada rheedii Spreng., Syst. Veg. 2: 325 (1825)

NE Native

Native to Tropical & Subtropical Old World. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Wele Nzaz: Nsuameyang, *Del Val s.n.* (MA-705840, 705841, 705842, 705843, 705844).

Previously reported from Wele Nzaz (Estrella *et al.* 2005: 14) and Río Muni without any precise locality (Lock 1989: 92).

Eriosema glomeratum (Guill. & Perr.) Hook.f. in Hook. (ed.), Niger Fl.: 313 (1849)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Annobón and Bioko.

Kie Ntem: Nsok Nsomo, a 7 km de Nsok Nsomo por la pista que va hacia Bata, *Cabezas & al.* 1299 (MA-831852). Litoral: Ecuco, *Guinea* 490 (MA-294508); 488-485 (MA-294503); Diádive, *Guinea s.n.* (MA-294507); Bolondo, *Guinea s.n.* (MA-294506).

Wele Nzaz: inselberg Piedra Nzaz, *Lejoly* 99/210 (MA-621843).

Previously reported from Litoral (Lejoly & Lisowski 1998: 58; Guinea 1946: 178; Estrella *et al.* 2010a: 20) and Wele Nzaz (Estrella *et al.* 2010a: 20).

Eriosema macrostipulum Baker f. in J. Bot. 33: 142 (1895)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Río Muni: Neu Kamerún, Basuma Uhan, *Tessmann* 2574 (K).

Previously reported from Río Muni without any precise locality (Estrella *et al.* 2010a: 21).

Eriosema parviflorum E.Mey., Comm. Pl. Afr. Austr.: 130 (1836) subsp. **parviflorum**
VU Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Centro Sur: P.N. Monte Alén, Engong, *Pérez Viso* 359 (MA-710941); Monte Alén, praderas pasado el mirador, *Cabezas* 135 (MA-695700). Kie Ntem: carretera que va de Nsok Nsomo a Nfuin, a unos 9 km de Nsok Nsomo, *Barberá & al.* 195 (MA-831443); Eloan, carretera Ebebiyi-Mongomo, *Pérez Viso* 4267 (MA-712188). Litoral: costa de Bata, Obobiven, *Del Val s.n.* (MA-712058, 712059, 712060, 712062); Etembue, *Guinea* 49 (MA-712033); Eyan Bot, km. 12 de la carretera del puerto a Kogo, *Pérez Viso* 3542 (MA-711602); Bata-Asonga, pradera frontal fs caracolas da Cooperacion, *Carvalho* 4660 (MA-597284, MO, WAG); Río Ecuco, *Guinea* 186 (MA-294509); Aeródromo, *Guinea s.n.* (MA-294505). Río Muni: [without locality], *Nosti & Abad s.n.* (MA-687698). Wele Nzaz: Cucumancoc, *Guinea s.n.* (MA-294504).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 58; Estrella *et al.* 2010a: 21), Litoral (Lejoly & Lisowski 1998: 58; Guinea 1946: 177; Estrella *et al.* 2010a: 21) and Wele Nzaz (Lejoly & Lisowski 1998: 58; 1999a: 118; Estrella *et al.* 2010a: 21).

Eriosema psoraloides (Lam.) G.Don, Gen. Hist. 2: 348 (1832)

NE Native

Native to Tropical & S. Africa and Madagascar. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region.

Litoral: Bome, *Pérez Viso* 1730 (MA-711263); Bata, entre Asonga e o Aeroporto, *Carvalho* 4641 (MA-597917, MO, WAG).

Previously reported from Litoral (Estrella *et al.* 2010a: 21).

Erythrina excelsa Baker in Oliv. (ed.), Fl. Trop. Afr. 2: 183 (1871)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Guinea 1946: 154) and Wele Nzaz (Guinea 1946: 145).

Erythrina senegalensis DC., Prodr. 2: 413 (1825)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Wele Nzas: Kukumankok, *Lejoly* 99/385 (BRLU).

Previously reported from Wele Nzas (Estrella *et al.* 2010a: 22).

Erythrina tholloniana Hua in Bull. Soc. Linn. Paris ser. 2, 1: 53 (1898)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 299).

Erythrophleum ivorense A.Chev., Bois Côte Ivoire: 178 (1909)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Evinayong, *Guinea* 70 (MA-294489), 210 (MA-294489). Wele Nzas: Nkolentangan, *Tessmann* 217a (K).

Previously reported from Centro Sur (Estrella *et al.* 2006: 549), Litoral (Lejoly & Lisowski 1998: 30), Wele Nzas (Lejoly & Lisowski 1998: 30; Estrella *et al.* 2006: 549) and Río Muni (Hepper 1958: 484).

Erythrophleum suaveolens (Guill. & Perr.) Brenan in Taxon 9: 194 (1960)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Centro Sur: Evinayong, *Guinea* 70 (MA-294489). Litoral: Bata-Pembe, estrada kms. 133-34, bosque primario das margens do rio Otong Eyang, *Carvalho* 4851 (MA-597914, MO, WAG); Adyap ("Adjap"), *Guinea* 837-191 (MA-294488).

Previously reported from Centro Sur (Guinea 1946: 141), Kie Ntem (Estrella *et al.* 2006: 549), Litoral (Estrella *et al.* 2006: 549), Wele Nzas (Guinea 1946: 144) and Río Muni without any precise locality (Guinea 1946: 291).

Eurypetalum tessmannii Harms in Bot. Jahrb. Syst. 45: 295 (1910)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Ndote Sud, *Lisowski* M-570, M-1071 (BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 30; Estrella *et al.* 2006: 549) and Río Muni without any precise locality (Guinea 1946: 293).

Fillaeopsis discophora Harms in Bot. Jahrb. Syst. 26: 259 (1899)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Guinea 1946: 144) and Río Muni (Guinea 1946: 291).

Gilbertiodendron brachystegioides (Harms) J.Léonard in Bull. Jard. Bot. État Bruxelles 24: 58 (1952)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Río Muni without any precise locality (Guinea 1946: 294).

Gilbertiodendron demonstrans (Baill.) J.Léonard in Bull. Jard. Bot. État Bruxelles 22: 190 (1952)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Río Campo, cerca de Bongoro, *Pérez Viso* 2227 (MA-712206).

Previously reported from Litoral (Estrella *et al.* 2006: 549).

Gilbertiodendron dewevrei (De Wild.) J.Léonard in Bull. Jard. Bot. État Bruxelles 22: 190 (1952)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Sendje-Ogamnsok, *Lejoly* 01/64 (BRLU).

Previously reported from Litoral (Estrella *et al.* 2006: 549) and Río Muni without any precise locality (Guinea 1946: 294).

Gilbertiodendron diphyllum (Harms) Estrella & Devesa in S. African J. Bot. 78: 261 (2012)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Centro Sur: P.N. Monte Alén, cataratas del río Laña, Mosumu, *Pérez Viso* 1612 (MA-711534). Litoral: c. 2 km NE of Elende, Cocoloondo riverside, at steep hillside, *Wieringa & Haegens* 2265 (WAG); Bata-Bicomo, central Hidroeléctrica sobre el río Ecucu, *Carvalho* 4985 (MA-593441, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 32; Estrella *et al.* 2006: 552) and Litoral (Lejoly & Lisowski 1998: 32; Estrella *et al.* 2006: 552).

Gilbertiodendron grandiflorum (De Wild.) J.Léonard in Bull. Jard. Bot. État Bruxelles 22: 190 (1952)

NT Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 30) and Río Muni without any precise locality (Guinea 1946: 294).

Gilbertiodendron imenoense (Pellegr.) J.Léonard in Bull. Jard. Bot. État Bruxelles 24: 58 (1954).

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 30).

Gilbertiodendron scutatum Wieringa & Estrella in Kew Bull. 70(2): 29/36 (2015)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bicubini, *Wilks* 3565 (BRLU, WAG).

Previously reported from Litoral (Estrella *et al.* 2006: 549).

Gilbertiodendron ogoouense (Pellegr.) J.Léonard in Bull. Jard. Bot. État Bruxelles 22: 191 (1952)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Handje, Engong, *Lejoly & Elad* 98/209 (BRLU). Litoral: Ndote, *Wilks* 3582 (BRLU).

Previously reported from Centro Sur (Estrella *et al.* 2006: 549).

Gilbertiodendron stipulaceum (Benth.) J.Léonard in Robyns (ed.), Fl. Congo Belge 3: 436 (1952)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Mayong, estuario del Muni, *Lisowski* M-805 (WAG).

Previously reported from Litoral (Guinea 1946: 294) and Río Muni without any precise locality (Oliver (1871: 296; Estrella *et al.* 2006: 549).

Griffonia physocarpa Baill. in Adansonia 6: 188, pl. 2 fig. 2-5 (1865)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Bata-Niefang-Mogom, estrada km. 6 de Niefang a Mogom, *Carvalho* 5670 (MA-598982). Litoral: Bata-Niefang, estrada Km. 35. Entrada a la zona de Adjape, por Ríos Sama e Comayá, *Carvalho* 5691 (MA-599028, WAG); Bata-Pembe: pradera de Eyang-Mbaha, estrada kms. 25-26, *Carvalho* 4831 (MA-593454, MO, WAG).

Previously reported from Centro Sur (Estrella *et al.* 2006: 550), Litoral (Estrella *et al.* 2006: 550) and Wele Nzas (Guinea 1946: 149).

Griffonia tessmannii (De Wild.) Compère in Bull. Jard. Bot. État Bruxelles 32: 203 (1962)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P. N. Monte Alén, Mosumo, *Senterre & Ngomo* 176 (BRLU).

Previously reported from Centro Sur (Estrella *et al.* 2006: 550) and Río Muni without any precise locality (Guinea 1946: 295).

Guibourtia demeusei (Harms) J.Léonard in Bull. Jard. Bot. État Bruxelles 19: 403 (1949)

NT Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Monte Bata, *Senterre & Obiang* 4306 (BRLU)

Previously reported from Litoral (Estrella *et al.* 2006: 550) and Wele Nzas (Guinea 1946: 144)

Guibourtia ehie (A.Chev.) J.Léonard in Bull. Jard. Bot. État Bruxelles 19: 404 (1949)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Pembe, estrada kms 26-27, chamada entura en margens de río Ué, *Carvalho* 5183 (MA-593444, MO, WAG).

Previously reported from Litoral (Estrella *et al.* 2006: 550).

Guibourtia tessmannii (Harms) J.Léonard in Bull. Jard. Bot. État Bruxelles 19: 404 (1949)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P. N. Monte Alén, Esamalán, *Senterre & al.* 2122 (BRLU).

Previously reported from Centro Sur (Estrella *et al.* 2006: 550) and Río Muni without

any precise locality (Hepper 1958: 466; Guinea 1946: 293).

Guilandina bonduc L., Sp. Pl.: 381 (1753)

LC Native

Native to the Tropics and Subtropics. Sudano-Zambezian Region (Sudanian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Litoral: Corisco, *Pérez Viso* 1919 (MA-711591); cabo San Juan, *Guinea* 226 (MA-294482), 881-428 (MA-711273), 882-427 (MA-711276), 883-425 (MA-711274), 884-426 (MA-711275), 878 (MA-294483).

Previously reported from Litoral (Lejoly & Lisowski 1998: 28; Estrella *et al.* 2006: 545; Guinea 1946: 295) and Río Muni without any precise locality (Guinea 1946: 295).

Hylodendron gabunense Taub. in Engl. & Prantl (eds.), Nat. Pflanzenfam. 3(3): 386 (1894)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P. N. Monte Alén, *Ngomo* 257 (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 31; Guinea 1946: 141; Estrella *et al.* 2006: 550), Litoral (Guinea 1946: 154) and Río Muni without any precise locality (Guinea 1946: 294).

Hymenostegia felicitis (A.Chev.) J.Léonard in Bull. Jard. Bot. État Bruxelles 21: 444 (1951)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P. N. Monte Alén, Nkumenikie, *Lejoly* 95T/L4.44 (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 31; Estrella *et al.* 2006: 550).

Hymenostegia floribunda (Benth.) Harms in Engl. & Prantl (eds.), Nat. Pflanzenfam. Nachtr. 1: 193 (1897)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P. N. Monte Alén, Nkumenikie, *Demet & al.* 118 (BRLU), 207 (BRLU). Litoral: *Mann* 1719 (K); Montes de Cristal, 15 km ENE d'Okuamkos, *Wilks* 1820 (WAG).

Previously reported from Centro Sur (Estrella *et al.* 2006: 551), Litoral (Léonard 1951: 441) and Río Muni without any precise locality (Guinea 1946: 292; Estrella *et al.* 2006: 551).

Hymenostegia klainei Pierre ex Pellegr. in Notul. Syst. (Paris) 4: 55 (1923)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 31).

Hymenostegia normandii Pellegr. in Bull. Soc. Bot. France 89: 246 (1943)

NT Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Monte Alén, *Demet & al.* 207 (BRLU).

Previously reported from Centro Sur (Estrella *et al.* 2006: 551).

Hymenostegia pellegrinii (A.Chev.) J.Léonard in Bull. Jard. Bot. État Bruxelles 21: 443 (1951)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: inselberg de Akoak Ebanga, Nsork, *Parmentier & Esono* 3523 (BRLU).

Previously reported from Centro Sur (Estrella *et al.* 2006: 551).

Indigofera capitata Kotschy in Sitzungsber. Kaiserl. Wiss., Wien, Math.-Naturwiss. Cl., Abt. 1, 51(2): 365 (1865)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón.

Centro Sur: inselberg de Akoum, a 6 km de Nzameyong, *Parmentier & Nguema* 355 (BRLU). Litoral: carretera de Bata-Bome, al final del vallado de las instalaciones de la Empresa Hess, *Fero & Barberá* 321 (MA-844566); Bata-Pembe, estrada kms. 33-34, de Pembe ou de Eyang Mbaha, *Carvalho* 4812 (MA-597735, MO, WAG); Bolondo, *Guinea* 668-669 (MA-294513); Diádive, *Guinea* 197-749 (MA-294512).

Previously reported from Centro Sur (Estrella *et al.* 2010a: 23).

Indigofera hirsuta L., Sp. Pl.: 751 (1753)

NE Native

Native to the Tropics & Subtropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region.

Litoral: Bata-Zona de Bomudi, *Carvalho 5334* (MA-598174, MO, WAG).

Previously reported from Litoral (Estrella *et al.* 2010a: 24).

Indigofera spicata Forssk., Fl. Aegypt.-Arab.: 138 (1775)

NE Native

Native to Africa, Arabian Peninsula and Madagascar. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Bata, Asonga, *Pérez Viso 1413* (MA-712192).

Previously reported from Litoral (Lejoly & Lisowski 1998: 58; Estrella *et al.* 2010a: 24).

Indigofera suffruticosa Mill., Gard. Dict. ed. 8 n° 2 (1768)

NE Naturalized

Native to Tropical & Subtropical America, cultivated and naturalized elsewhere in the Tropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Litoral: Utonde, carretera de Utonde a Bata, *Barberá & al. 282* (MA-844244); Bata-Bicombo, *Carvalho 4944* (MA-597248, MO, WAG). Wele Nzaz: Ebo-Ngoo Nsomo, carretera forestal Añisok Mongola-Niefang, *Pérez Viso 3161* (MA-711588).

Previously reported from Litoral (Lejoly & Lisowski 1998: 58; Estrella *et al.* 2010a: 24) and Wele Nzaz (Estrella *et al.* 2010a: 24).

Inga edulis Mart. in Flora 20(2, beibl.): 113 (1837)

LC Naturalized

Native to Tropical America, naturalized in Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province). Also known from Bioko.

Centro Sur: Nsung, entre Monte Alén y Evinayong, *Pérez Viso 1678* (MA-706314). Kie Ntem: alrededores del poblado de Obot Nku-Eseng, a 7 km de Nsok Nsomo, *Barberá & al. 147* (MA-831424). Litoral: Ayamiken, *Obama 179* (BRLU); reserva de Río Campo, *Lisowski M-997* (BRLU). Río Muni: [without locality], *Eneme 219* (WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 85; Estrella *et al.* 2005: 15), Litoral (Lejoly & Lisowski 1998: 85) and Río Muni without any precise locality (Lock 1989: 86).

Isomacrobium graciliflorum (Harms) Aubrév. & Pellegr. in Bull. Soc. Bot. France 104: 498 (1958)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: Nkolentangan, *Tessmann* B57 (K); Ebo-Ngoo Nsomo, carretera forestal Añisok Mongola-Niefang, *Pérez Viso* 3197 (MA-710770).

Previously reported from Wele Nzas (Estrella *et al.* 2006: 551) and Río Muni without any precise locality (Guinea 1946: 294).

Isomacrolobium isopetalum (Harms) Aubrév. & Pellegr. in Bull. Soc. Bot. France 104: 498 (1958)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P. N. Monte Alén, *Senterre & Obiang* 3859 (WAG).

Julbernardia letouzeyi Villiers in Adansonia sér. 2, 16(1): 158 (1976)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Bicurga, *Lejoly* 99/503 (WAG).

Previously reported from Centro Sur (Estrella *et al.* 2006: 551).

Julbernardia pellegriniana Troupin in Bull. Jard. Bot. État Bruxelles 20: 311 (1950)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Río Campo, Anguma, *Issembe* 16 (WAG).

Previously reported from Litoral (Estrella *et al.* 2006: 551).

Julbernardia seretii (De Wild.) Troupin in Bull. Jard. Bot. État Bruxelles 20: 312, fig. 32 (1950)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Monte Alén, Moka, *Wilks* 3525 (WAG); Niefang, Nkoasas, *Wilks & Obiang* 3503 (WAG). Wele Nzas: Inselberg de Piedra Nzas, Aconibe, *Parmentier & Nguema* 19 (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 31), Litoral (Estrella *et al.* 2006: 551) and Wele Nzas (Estrella *et al.* 2006: 551).

Leonardoxa africana (Baill.) Aubrév. in Adansonia sér. 2, 8: 179 (1968) subsp.

africana

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Wele Nzas (Guinea 1946: 144) and Río Muni without any precise locality (Hepper 1958: 459; Guinea 1946: 293)

Leonardoxa africana subsp. **gracilicaulis** Mckey in *Adansonia* sér. 3, 22: 102 (2000)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: P.N. Monte Alén, Bong, senda que va hacia el lago Atok. *Pérez Viso 1311* (MA-712110). Litoral: Corisco, playa al S.O. de la isla, *Pérez Viso 1983* (MA-712110). Wele Nzas: Nkolentangan, *Tessmann 284* (K).

Previously reported from Centro Sur (Estrella *et al.* 2006: 551), Litoral (Estrella *et al.* 2006: 551) and Wele Nzas (Estrella *et al.* 2006: 551).

Leptoderris aurantiaca Dunn in Bull. Misc. Inform. Kew 1914(7): 245 (1914)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral Bata-Pembe-Entuba, estrada km. 27-28, entuba a San Joaquin de Ndyjacón, *Carvalho 5239* (MA-599503, MO, WAG).

Previously reported from Litoral (Estrella *et al.* 2010a: 25).

Leptoderris brachyptera (Benth.) Dunn in Bull. Misc. Inform. Kew 1910: 388 (1910)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Centro Sur montagne pres Bicurga, *Lisowski M-1486* (BRLU). Wele Nzas: Bebai, *Tessmann 87* (K).

Previously reported from Centro Sur (Estrella *et al.* 2010a: 25) and Wele Nzas (Estrella *et al.* 2010a: 25).

Leptoderris fasciculata (Benth.) Dunn in Bull. Misc. Inform. Kew 1910(10): 390 (1910)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Wele Nzas: Nkolentangan, *Tessmann 87* (K).

Previously reported from Wele Nzas (Estrella *et al.* 2010a: 26).

Leptoderris ledermannii Harms in Notizbl. Bot. Gart. Berlin-Dahlem 9: 295 (1925)

EN Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Litoral: Bata-Senge, estrada km. 22-24, *Carvalho 5744* (MA-599058, WAG); Bata-Pembe, estrada kms. 28-29, cerca do cruzamento para San Joaquín de Ndyjacon. Zona de povoapao de Mbaha, *Carvalho 5194* (MA-598213, MO, WAG).

Previously reported from Litoral (Estrella *et al.* 2010a: 26). According to Breteler (2016: 217), these specimens probably are *L. aurantiaca*.

Leptoderris oxytropis Harms in Notizbl. Bot. Gart. Berlin-Dahlem 8: 154 (1922)
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Río Muni without any precise locality (Guinea 1946: 298).

Leptoderris pycnantha Harms in Notizbl. Bot. Gart. Berlin-Dahlem (Append.) 8: 154 (1922)
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province)

Wele Nzaz: Nkolentangan, Makonanam, *Tessmann 95* (K).

Previously reported from Wele Nzaz (Estrella *et al.* 2010a: 26).

Leptoderris velutina Dunn in Bull. Misc. Inform. Kew 1914: 246 (1914)
NE Autoctona
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Wele Nzaz: Bebai, *Tessmann 519* (K).

Previously reported from Wele Nzaz (Estrella *et al.* 2010a: 27).

Leptospron adenanthum (G.Mey.) A.Delgado in Amer. J. Bot. 98(10): 1710 (2011)
LC Native
Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Litoral: Bata, *Lisowski M-250* (BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 61; Estrella *et al.* 2010a: 40).

Leucaena leucocephala (Lam.) De Wit in Taxon 10(2): 53 (1961) subsp. **leucocephala**
NE Naturalized
Native to Mexico and C. America, naturalized elsewhere in the Tropics. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province,

Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Litoral: Ayamiken, Río Campo, km 38 de la carretera que sale a la derecha de Adjakom, *Pérez Viso* 2785 (MA-706057).

Previously reported from Litoral (Lejoly & Lisowski 1998: 85; Estrella *et al.* 2005: 15) and Río Muni without any precise locality (Lock 1989: 93; Guinea 1946: 290, 291).

Leucomphalos capparideus Benth. ex Planch. in Hooker's Icon. Pl. 8, tab. 784 (1848)
LC Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province). Also known from Bioko.

Wele Nzaz: inselberg de Akoak Ebanga, Nsork, *Parmentier & Nguema* 186 (BRLU).

Previously reported from Wele Nzaz (Estrella *et al.* 2010a: 27).

Librevillea klainei (Pierre ex Harms) Hoyle in Bol. Soc. Brot. ser. 2, 29: 18 (1955)
LC Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Distrito de Mbini, al O del Patio SOFOGE, *Nguema & Obiang* 12 (WAG), 11 (WAG); Bata- Mbini, estrada km 24 en el poblado de Anguok, *Carvalho* 6366 (MA-620604, MO, WAG); Etembue, Espigon (réserve de Ndote), *Obama & Lejoly* 606 (MA-612195)

Previously reported from Litoral (Lejoly & Lisowski 1998: 31; Estrella *et al.* 2006: 551) and Río Muni without any precise locality (Guinea 1946: 294)

Lonchocarpus sericeus (Poir.) Kunth ex DC., Prodr. 2: 260 (1825)
LC Native
Native to Tropical America and Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province). Also known from Annobón and Bioko.

Litoral: Corisco, *Pérez Viso* 1918 (MA-712194); Río Benito en la Punta Djoni, *Del Val s.n.* (MA-712034, 712035, 712049, 712050); Elobey Chico, *Poremski, Biedinger & Nguema* 3485 (BRLU); Bata-Asonga, *Carvalho* 5433 (MA-598438, MO, WAG); Playa de Río Benito, *Guinea* 224-529 (MA-294499).

Previously reported from Litoral (Lejoly & Lisowski 1998: 58; 1999a: 102; Guinea 1946: 154; Estrella *et al.* 2010a: 27) and Río Muni without any precise locality (Guinea 1946: 298).

Machaerium lunatum (L.f.) Ducke in Arch. Jard. Bot. Rio de Janeiro 4: 310 (1925)
LC Native
Native to Tropical America and Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-

Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Entre Asonga e cidade de Bata. Margen del Río Eyubu, *Carvalho 5887* (MA-609920).

Previously reported from Litoral (Guinea 1946: 154; Estrella *et al.* 2010a: 27) and Río Muni without any precise locality (Guinea 1946: 298).

Microcharis welwitschii (Baker) Schrire in *Bothalia* 22(2): 167 (1992)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: inselberg de Akoum, *Deman & Esono 250* (BRLU); inselberg de Piedra Nzas, *Lejoly 99/180* (BRLU); inselberg de Akoak Ebanga, Nsork, *Parmentier & Esono 3477* (BRLU).

Previously reported from Centro Sur (Estrella *et al.* 2010a: 28), Kie Ntem (Estrella *et al.* 2010a: 28) and Wele Nzas (Estrella *et al.* 2010a: 28).

Millettia barteri (Benth.) Dunn in *J. Bot.* 49: 221 (1911)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Wele Nzas: Nkolentangan, *Tessmann 102* (K).

Previously reported from Wele Nzas (Estrella *et al.* 2010a: 28).

Millettia dinklagei Harms in *Bot. Jahrb. Syst.* 26: 287 (1899)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Centro Sur: P. N. Monte Alén, *Nguema & Parmentier 464* (BRLU). Litoral: Bata-Niefang, estrada km. 35, empresa de madera de ABM en Comayá, *Carvalho 5645* (MA-598571, MO, WAG).

Previously reported from Centro Sur (Estrella *et al.* 2010a: 29) and Litoral (Estrella *et al.* 2010a: 29).

Millettia drastica Welw. ex Baker in *Oliv. (ed.), Fl. Trop. Afr.* 2: 128 (1871)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bebai, *Tessmann 464, 834* (K).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 59; Estrella *et al.* 2010a: 29).

Millettia griffoniana Baill. in Adansonia 6: 222 (1866)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, cerca de Mosumu, alrededores de las cataratas del río Laña, *Pérez Viso* 217 (MA-711257). Litoral: Elende, río Cocoloondo, *Wieringa & Haegens* 2272 (WAG); Bata-Mbini, estrada km. 10, margens do Río Boara, *Carvalho* 5143 (MA-599721, WAG).

Previously reported from Centro Sur (Estrella *et al.* 2010a: 29) and Litoral (Estrella *et al.* 2010a: 29).

Millettia harmsiana De Wild. in Ann. Mus. Congo Belge, Bot. sér. 5, 1(2): 139 (1904)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: Nkolentangan, *Tessmann* 136 (K).

Previously reported from Wele Nzas (Estrella *et al.* 2010a: 29).

Millettia hypolampra Harms in Bot. Jahrb. Syst. 33: 168 (1902)

NT Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Mbini-Boete-río Ayé, estrada km. 23, entre Boete y Río Ayé, *Carvalho* 5969 (MA-609126, WAG); Bata-Niefang, estrada km. 35, Adjape a Comayá, *Carvalho* 5802 (MA-610012).

Previously reported from Litoral (Estrella *et al.* 2010a: 29).

Millettia laurentii De Wild. in Bull. Soc. Belge Études Colon. 30: 378 (1904)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Wele Nzas: Nkolentangan, *Tessmann* 228 (K).

Previously reported from Wele Nzas (Estrella *et al.* 2010a: 30).

Millettia macrophylla Benth. in Hooker's Icon. Pl. 8, tab. 788-789 (1848)

NT Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Wele Nzas (Guinea 1946: 145) and Río Muni (Guinea 1946: 297).

Millettia macroura Harms in Bot. Jahrb. Syst. 26: 289 (1899)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 59).

Millettia mannii Baker in Oliv. (ed.), Fl. Trop. Afr. 2: 127 (1871)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Nsung, entre Monte Alén y Evinayong, *Pérez Viso 1691* (MA-712193); P.N. Monte Alén, Esamalang, *Pérez Viso 192* (MA-711543), *3310* (MA-710764); Monte Alén, *Ngomo 104* (BRLU). Kie Ntem: Nsoc Nsomo, camino que va desde Nsoc Nsomo a Bata, a unos 3 km de Nsoc Nsomo, Mocomo, *Cabezas 1292* (MA-831847). Litoral: Bebai, *Tessmann 412* (K); Ayamiken, *Lisowski M-422* (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 59; Estrella *et al.* 2010a: 30), Litoral (Lejoly & Lisowski 1998: 59; Estrella *et al.* 2010a: 30) and Wele Nzas (Estrella *et al.* 2010a: 30).

Millettia soyauxii Taub. in Bot. Jahrb. Syst. 23: 185 (1896)

DD Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province)

Previously recorded from Equatorial Guinea (Lachenaud 2016b: 257).

Millettia thonningii (Schumach. & Thonn.) Baker in Oliv. (ed.), Fl. Trop. Afr. 2: 128 (1871)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 158) and Río Muni without any precise locality (Guinea 1946: 297).

Millettia warneckei Harms in Bot. Jahrb. Syst. 30: 87 (1901)

VU Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Litoral: Bata-Niefang, estrada km. 35, Comayá, *Carvalho 5578* (MA-598562, MO, WAG).

Previously reported from Litoral (Estrella *et al.* 2010a: 31).

Millettia zechiana Harms in Bot. Jahrb. Syst. 40: 36 (1907)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Centro Sur: Engong, *Eneme* 490 (BRLU). Litoral: desembocadura del río Campo, *Pérez Viso* 2153 (MA-712204)

Previously reported from Centro Sur (Estrella *et al.* 2010a: 31) and Litoral (Estrella *et al.* 2010a: 31)

Mimosa pudica L., Sp. Pl.: 518 (1753)

LC Naturalized

Native to Tropical America, naturalized elsewhere in the Tropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Niefang, explotación forestal de Matroguisa, *Pérez Viso* 2294 (MA-706182); km. 40 carretera forestal Bata-Niefang, *Pérez Viso* 2717 (MA-706179). Kie Ntem: Nsok Nsomo, camino que va desde Nsok Nsomo a Bata, Mocomo, *Cabezas & al.* 1286 (MA-831841); Akam, carretera hacia Nsok-Nsomo, *Fero & Esono* 108 (MA-808736). Litoral: Área de Machinda, poblado de Ebenvene, *López Serrano* 260310, 260311 (MA); Utonde, camino que va de la orilla del río a la carretera de Bata, *Barberá & al.* 261 (MA-843777); Miboman, a 22 km. de Bata, *Castroviejo* 9160 (MA-706183).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 85; Estrella *et al.* 2005: 15) and Litoral (Lejoly & Lisowski 1998: 85; Estrella *et al.* 2005: 15).

Mucuna flagellipes Vogel ex Hook.f. & Benth. in Hook. (ed.), Niger Fl.: 307 (1849)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Asok, *Pérez Viso* 417 (MA-833163); P.N. Monte Alén, Conengüi, cerca del río Nvog Yii, *Pérez Viso* 148 (MA-710954). Kie Ntem: carretera que va de Nsok Nsomo a Nfuin, a unos 9 km de Nsok Nsomo, *Barberá & al.* 197 (MA-831441). Litoral: Ayamiken, *Lisowski* M-939 (BRLU). Wele Nzas: Nkolentangan, *Tessmann* 381 (K).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 59; Guinea 1946: 184i; Estrella *et al.* 2010a: 31), Litoral (Lejoly & Lisowski 1998: 59; Estrella *et al.* 2010a: 31), Wele Nzas (Estrella *et al.* 2010a: 31) and Río Muni without any precise locality (Guinea 1946: 299).

Mucuna pruriens (L.) DC., Prodr. 2: 405 (1825)

LC Native

Native to Tropical & Subtropical Old World. Sudano-Zambezian Region (Sudanian

Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Litoral: Utonde, carretera de Utonde a Bata, *Barberá & al.* 281 (MA-844245); Bata-Asonga, alrededores de la Catedral de Bata, *Carvalho* 5411 (MA-599436, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 59; Estrella *et al.* 2010a: 32) and Río Muni without any precise locality (Guinea 1946: 299).

Mucuna sloanei Fawc. & Rendle in J. Bot. 55(650): 36 (1917)

NE Native

Native to Tropical America and Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Litoral: Reserva de Río Campo, *Lisowski M-1004* (BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 59; Guinea 1946: 154; Estrella *et al.* 2010a: 32).

Neochevalierodendron stephanii (A.Chev.) J.Léonard in Bull. Jard. Bot. État Bruxelles 21: 429 (1951)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Bome, río Boara, km. 10 de estrada madeireira con Mbini, *Carvalho* 4869 (MA-593455, MO, WAG).

Previously reported from Litoral (Estrella *et al.* 2006: 552).

Neustanthus phaseoloides (Roxb.) Benth., Pl. Jungh. 2: 235 (1852)

NE Naturalized

Native to Tropical & Subtropical Asia, cultivated and naturalized elsewhere in the Tropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bindung, km. 17 de la carretera de Niefang, *Pérez Viso* 3785 (MA-711425), 3801 (MA-710942); P.N. Monte Alén, Moka, carretera que une Moka con Engong, *Pérez Viso* 292 (MA-689413). Litoral: Ayamiken, *Lisowski M-407* (BRLU).

Previously reported from Centro Sur (Estrella *et al.* 2010a: 36) and Litoral (Lejoly & Lisowski 1998: 60; Estrella *et al.* 2010a: 36).

Newtonia duparquetania (Baill.) Keay in Kew Bull. 8: 488 (1954)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: SE du Parc National de Monte Alén, transect Ecofac de Nkuméké, *Senterre*

& Obiang 3641 (BRLU). Litoral: Etembue, réserve de Ndote, *Eneme & Lejoly* 43 (BRLU); Ndote Sud, Espigon, *Lisowski M-569* (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 85; Estrella *et al.* 2005: 15) and Litoral (Lejoly & Lisowski 1998: 85; Estrella *et al.* 2005: 15).

Newtonia glandulifera (Pellegr.) G.C.C. Guilbert & Boutique in Robyns (ed.), Fl. Congo Belge 3: 215 (1952)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, transect de Monte Chocolate, *Lejoly 95T/L33768* (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 85; Estrella *et al.* 2005: 16).

Newtonia grandifolia Villiers in Bull. Jard. Bot. Natl. Belg. 58: 544 (1988)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: SO du Parc National de Monte Alén, transect Ecofac de Mosumo, *Senterre & Ngomo 846* (BRLU). Wele Nzaz: Parc National de Nsork, Obamicu, *Nguema & al. 244* (BRLU).

Previously reported from Centro Sur (Estrella *et al.* 2005: 16) and Litoral (Estrella *et al.* 2005: 16).

Newtonia griffoniana (Baill.) Baker f. in J. Bot. 66 (Suppl. 1): 154 (1928)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: SO du Parc National de Monte Alén, transect Ecofac de Mosumo, *Senterre & Ngomo 672* (BRLU); P.N. Monte Alén, carretera que sube desde el hotel de Monte Alén, *Pérez Viso 86* (MA-705394)

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 85; Estrella *et al.* 2005: 16), Litoral (Villiers 1990: 130), Wele Nzaz (Guinea 1946: 144) and Río Muni without any precise locality (Guinea 1946: 291).

Newtonia leucocarpa (Harms) G.C.C. Gilbert & Boutique in Robyns (ed.), Fl. Congo Belge 3: 214 (1952)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: SE du Parc National de Monte Alén, au N du río Laña, cabaña Ecofac de

Misergue, *Senterre & Obiang 3170* (BRLU).

Previously reported from Centro Sur (Estrella *et al.* 2005: 16).

Oddoniodendron micranthum (Harms) Baker f., Legum. Trop. Afr.: 691 (1930)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Monte Alén, *Senterre & Ngomo 3545* (BRLU).

Previously reported from Centro Sur (Estrella *et al.* 2006: 552).

Ormocarpum klainei Tisser. in Bull. Mus. Natl. Hist. Nat., Ser. 2 3: 334, 335 (1931)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Cortina litoral, río Benito, *Guinea 454* (MA-710891).

Ormocarpum megalophyllum Harms in Bot. Jahrb. Syst. 26: 292 (1899)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: carretera de Mbini, *Pérez Viso 3358* (MA-710999); Bata-Mbubuin, estrada km. 30, seja chegada a povoação de Mbubuin, *Carvalho 5117* (MA-610100, MO, WAG).

Previously reported from Litoral (Estrella *et al.* 2010a: 32).

Ormocarpum verrucosum P.Beauv., Fl. Oware 1: 96, tab. 58 (1806)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Ndote Nord, Jandje, *Lisowski M-48* (BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 59; 1999a: 102; Estrella *et al.* 2010a: 32).

Ostryocarpus riparius Hook.f. in Hook. (ed.), Niger Fl.: 316 (1849)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Elende, Cocooloondo, *Wieringa & Haegens 2271* (WAG).

Previously reported from Litoral (Estrella *et al.* 2010a: 33) and Río Muni without any precise locality (Hepper 1958: 519; Guinea 1946: 298).

Pachyelasma tessmannii (Harms) Harms in Bot. Jahrb. Syst. 49: 430 (1913)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Río Muni without any precise locality (Guinea 1946: 295; Hepper 1958: 484).

Parkia bicolor A.Chev. in Bull. Soc. Bot. France 55, Mém. 8: 34 (1908)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Pembe, alrededores de povoação de Ebenvang, *Carvalho 5478* (MA-599465, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 86), Litoral (Lejoly & Lisowski 1998: 86; Estrella *et al.* 2005: 16), Wele Nzaz (Lejoly & Lisowski 1998: 86; Guinea 1946: 144) and Río Muni without any precise locality (Guinea 1946: 291).

Parkia biglobosa (Jacq.) R.Br. ex G.Don, Loud., Hort. Brit.: 277 (1830)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 291).

Parkia filicoidea Welw. ex Oliv. in Oliv. (ed.), Fl. Trop. Afr. 2: 324 (1871)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Centro Sur: Mafanebú, *Guinea 202* (MA-294485).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 86; Estrella *et al.* 2005: 17).

Pentaclethra eetveldeana De Wild. & T.Durand in Bull. Herb. Boissier ser. 2, 1: 20 (1900)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Carretera de Niefang a Evinayong, km 15, poblado cerca de Ndong, *Cabezas 90* (MA-695674). Litoral: Bata-Bome, entre o río Boara e 10 km, proximidades da povoação Aman, *Carvalho 4708* (MA-597840, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 86; Estrella *et al.* 2005: 17).

Pentaclethra macrophylla Benth. in J. Bot. (Hooker) 4(30): 330 (1841)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Kie Ntem: Akam, *Fero & Esono* 42 (MA); 47 (MA-808153). Litoral: Corisco, Endote, *Pérez Viso* 1960 (MA-706188); Corisco, camino hacia el N a 100 m de la casa de Yniestrosa, *Velayos & al.* 9934 (MA-706185); Bata-Pembe, estrada kms. 17-18, Sandums, *Carvalho* 5513 (MA-598757, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 86; Guinea 1946: 141, 184e), Litoral (Lejoly & Lisowski 1998: 86; Estrella *et al.* 2005: 17), Wele Nzaz (Guinea 1946: 144) and Río Muni without any precise locality (Lock 1989: 99; Guinea 1946: 291).

Phaseolus lunatus L., Sp. Pl.: 724 (1753)

LC Naturalized

Native from Mexico to Colombia, cultivated and naturalised worldwide, especially in the Tropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Litoral: Bata-Mbini, entre a Missao a Nume en litoral marítimo, *Carvalho* 6016 (MA-609813).

Previously reported from Litoral (Lejoly & Lisowski 1998: 60; Estrella *et al.* 2010a: 33) and Río Muni without any precise locality (Guinea 1946: 299).

Physostigma cylindrospermum (Welw. ex Baker) Holmes in Pharm. J. ser. 3, 9: 913 (1879)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Niefang, estrada km. 35, Comayá, *Carvalho* 5632 (MA-598580, MO, WAG).

Previously reported from Litoral (Estrella *et al.* 2010a: 34).

Physostigma venenosum Balf. in Trans. Roy. Soc. Edinburgh 22: 310 (1861)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Moka, carretera que une Moka con Engong, *Pérez Viso* 395 (MA-711357); P.N. Monte Alén, Enkumekien, *Pérez Viso* 1550 (MA-711545); Bata-Niefang-Monte Alen, estrada kms. 85-86, *Carvalho* 5424 (MA-598447, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 60; Estrella *et al.* 2010a: 34), Litoral (Guinea 1946: 155) and Río Muni (Hepper 1958: 564; Cufodontis 1955b:

329).

Piliostigma reticulatum (DC.) Hochst. in Flora 29: 599 (1846)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 295).

Piptadeniastrum africanum (Hook.f.) Brenan in Kew Bull. 10: 179 (1955)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Mafanebú, *Guinea* 205 (MA-294486). Litoral: Sendje à Ongamnsok, *Lejoly* 01/76 (BRLU); Bata-Pembe, estrada kms. 18-19, *Carvalho* 5160 (MA-599482, MO, WAG). Wele Nzaz: Nkolentangan, *Tessmann* 235 (K).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 86; Guinea 1946: 64b, 116, 141; Estrella *et al.* 2005: 17), Litoral (Lejoly & Lisowski 1998: 86; Estrella *et al.* 2005: 17), Wele Nzaz (Lejoly & Lisowski 1998: 86; Guinea 1946: 144; Estrella *et al.* 2005: 17) and Río Muni without any precise locality (Guinea 1946: 291)

Plagiosiphon emarginatus (Hutch. & Dalziel) J.Léonard in Bull. Jard. Bot. État Bruxelles 21: 426 (1951)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Litoral: Bata-Bicomo: margens del río Ecucu, *Carvalho* 5208 (MA-593442, MO, WAG), 5457 (MA-593428, MO, WAG); Bata-Senye (Senge), antigua explotación forestal de Exfosa, *Carvalho* 6094 (MA-619126, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 32) and Litoral (Estrella *et al.* 2006: 553).

Plagiosiphon gabonensis (A.Chev.) J.Léonard in Bull. Jard. Bot. État Bruxelles 21: 426 (1951)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: P. N. Monte Alén, río Uele, *Senterre & Nguema* 3031 (BRLU).

Previously reported from Centro Sur (Estrella *et al.* 2006: 553).

Plagiosiphon longitubus (Harms) J.Léonard in Bull. Jard. Bot. État Bruxelles 21: 427 (1951)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Monts du Cristal, 10 km al N de Okuamkas, *Wilks 1802* (WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 32; Estrella *et al.* 2006: 553).

Plagiosiphon multijugus (Harms) J.Léonard in Bull. Jard. Bot. État Bruxelles 21: 427 (1951)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: P. N. Monte Alén, confluencia del Laña y el Uele, *Lejoly 95/179* (BRLU)

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 33; Estrella *et al.* 2006: 553).

Platysepalum violaceum Welw. ex Baker in Oliv. (ed.), Fl. Trop. Afr. 2: 131 (1871)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Kie Ntem: Nfuiñ, a 29 km de Nsoc Nsomo por la pista que va hacia Bata, *Cabezas & al. 1336* (MA-831821). Litoral: Bebai, Campogebiet, *Tessmann 511* (K). Wele Nzas: inselberg de Mfui, 50 km à l'E de Añisok, *Obama & Lejoly 384* (MA-612040); inselberg de Piedra Nzas, *Lejoly 99/181* (BRLU).

Previously reported from Kie Ntem (Estrella *et al.* 2010a: 34), Litoral (Estrella *et al.* 2010a: 34) and Wele Nzas (Lejoly & Lisowski 1998: 60; 1999a: 119; Estrella *et al.* 2010a: 34).

Prioria buchholzii (Harms) Breteler in Wageningen Agric. Univ. Pap. 99(3): 24 (1999)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: Nkolentangan, *Tessmann 105* (K).

Previously reported from Wele Nzas (Estrella *et al.* 2006: 553) and Río Muni without any precise locality (Breteler 1999: 26).

Prioria joveri (Normand ex Aubrév.) Breteler in Wageningen Agric. Univ. Pap. 99(3): 31 (1999)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: P. N. Monte Alén, transecto del Monte Chocolate, *Lejoly 95/170bis* (BRLU). Litoral: Sendje, *Normand s.n.* (WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 30; Estrella *et al.* 2006:

553) and Litoral (Breteler 1999: 33).

Prioria mannii (Baill.) Breteler in Wageningen Agric. Univ. Pap. 99(3): 33 (1999)

NT Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Kongui river, *Mann* 1822 (K).

Previously reported from Litoral (Lejoly & Lisowski 1998: 32; Breteler 1999: 35; Guinea 1946: 154, 156; Estrella *et al.* 2006: 553), Wele Nzas (Guinea 1946: 148) and Río Muni (Hepper 1958: 466; Hutchinson & Dalziel 1928: 336; Guinea 1946: 293).

Pterocarpus mildbraedii Harms in Notizbl. Bot. Gart. Berlin-Dahlem 8: 152 (1922)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni without any precise locality (Hepper 1958: 517).

Pterocarpus santalinoides L'Hér. ex DC., Prodr. 2: 419 (1825)

LC Native

Native to Tropical America and W. Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 157).

Pterocarpus soyauxii Taub. in Hooker's Icon. Pl. 24, tab. 2369 (1895)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P. N. Monte Alén, río Uolo, Mosumo, *Senterre & Ngomo* 471 (BRLU). Kie Ntem: carretera que va de Nsok Nsomo a Nfuin, a unos 9 km de Nsok Nsomo, *Barberá & al.* 200 (MA-831743). Litoral: Bata-Bolondo, estrada km 24 en los alrededores de Aguak, *Carvalho* 6338 (MA-620517); Bata-Senye (Senge), estrada km. 13, *Carvalho* 6121 (MA-619393). Wele Nzas: Región de Añisoc, Temelón, *Lisowski* 773 (BRLU).

Previously reported from Centro Sur (Estrella *et al.* 2010a: 35), Litoral (Lejoly & Lisowski 1998: 60; Estrella *et al.* 2010a: 35) and Wele Nzas (Lejoly & Lisowski 1998: 60; Estrella *et al.* 2010a: 35).

Pterocarpus tessmannii Harms in Verh. Bot. Vereins Prov. Brandenburg 48: 171 (1907)

NT Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Kie Ntem: carretera de Nfaman a Djiploho, *Barberá & al.* 213 (MA-831756). Wele Nzas: Nkolentangan, *Tessmann* 253 (K).

Previously reported from Wele Nzas (Estrella *et al.* 2010a: 35).

Rhynchosia mannii Baker in Oliv. (ed.), Fl. Trop. Afr. 2: 217 (1871)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Kie Ntem: Ebon-Oyac, Ebebiyin, *Pérez Viso* 4319 (MA-710939). Litoral: Bata, Asonga, *Castelo & Juste s.n.* (MA-712104); Bata-Mongo (Alosa), estrada kms. 77-78, *Carvalho* 5517 (MA-599450, MO, WAG). Wele Nzas: inselberg Dumu, *Lejoly* 99/356 (BRLU).

Previously reported from Centro Sur (Guinea 1946: 184i; Estrella *et al.* 2010a: 36), Kie Ntem (Estrella *et al.* 2010a: 36), Litoral (Estrella *et al.* 2010a: 36) and Wele Nzas (Estrella *et al.* 2010a: 36).

Rhynchosia preusii (Harms) Taub. ex Harms in Engl. & Drude, Veg. Erde 9(3,1): 671 (1915)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Mbubuin-San Joaquin de Ndyjacon, estrada km 35, Mbubuin, *Carvalho* 4964 (MA-599204, MO, WAG); Bata-Pembe-San Joaquin de Ndyjacon, estrada kms. 28-29, *Carvalho* 5246 (MA-598180, MO, WAG). Wele Nzas: El Bimbile, *Guinea* 204-180 (MA-294502).

Previously reported from Litoral (Lejoly & Lisowski 1998: 60; Estrella *et al.* 2010a: 37) and Wele Nzas (Estrella *et al.* 2010a: 37).

Rothia hirsuta (Guill. & Perr.) Baker in Oliv. (ed.), Fl. Trop. Afr. 2: 7 (1871)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Karroo Namib Region.

Samanea saman (Jacq.) Merr. in J. Washington Acad. Sci. 6(2): 47 (1916)

LC Naturalized

Native to Tropical America, cultivated and naturalized elsewhere in the Tropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province). Also known from Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 289).

Scorodophloeus zenkeri Harms in Bot. Jahrb. Syst. 30: 78 (1901)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, transecto del Monte Chocolate, *Lejoly 95/173T19* (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 33; Guinea 1946: 142, 292; Estrella *et al.* 2006: 553) and Wele Nzas (Guinea 1946: 144).

Senna alata (L.) Roxb., Fl. Ind. 2: 349 (1832)

LC Naturalized

Native to Tropical America, naturalized in the rest of the Tropics. Specially in Sudano-Zambezian Region and Guineo-Congolian Region. Also known from Bioko.

Kie Ntem: Nfuiñ, a 29 km de Nsoc Nsomo por la pista que va hacia Bata, *Cabezas & al. 1300* (MA-831777); Engokua, Ebebiyin, *Pérez Viso 4350* (MA-711262). Litoral: Área de Machinda, poblado de Ayamiken, *López Serrano 190301, 190302* (MA); Área de Machinda, poblado de Mbuibuiñ cdo, *López Serrano 270303, 270304, 270305* (MA).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 33), Kie Ntem (Estrella *et al.* 2006: 553), Litoral (Lejoly & Lisowski 1998: 33) and Río Muni without any precise locality (Guinea 1946: 295).

Senna bicapsularis (L.) Roxb., Fl. Ind. 2: 342 (1832)

LC Naturalized

Native to Tropical W. America, naturalized in the rest of the Tropics. Africa.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 33) and Wele Nzas (Lejoly & Lisowski 1998: 33).

Senna hirsuta (L.) H.S.Irwin & Barneby in Phytologia 44(7): 499 (1979)

NE Naturalized

Native to Tropical & Subtropical America, naturalized in the rest of the Tropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bindung, km. 17 de la carretera de Niefang, *Pérez Viso 3790* (MA-711427); Niefang, Bindeng, alrededores de las instalaciones de Matroguisa, *Pérez Viso 2367* (MA-711258). Litoral: Bata-Niefang, estrada km. 61, Abang, *Carvalho 5705* (MA-599137, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 33; Estrella *et al.* 2006: 553) and Litoral (Estrella *et al.* 2006: 553).

Senna obtusifolia (L.) H.S.Irwin & Barneby in Mem. New York Bot. Gard. 35: 252 (1982)

LC Native

Native to Tropical & Subtropical America, naturalized in the rest of the Tropics. Africa. Also known from Annobón and Bioko.

Centro Sur: Niefang, Bindeng, alrededores de las instalaciones de Matroguisa, *Pérez Viso 2368* (MA-711259). Litoral: Región de Río Campo, *Tessmann 694* (K). Wele

Nzas: Nkolentangan, *Tessmann* 324 (K).

Previously reported from Centro Sur (Estrella *et al.* 2006: 554), Litoral (Estrella *et al.* 2006: 554) and Wele Nzas (Estrella *et al.* 2006: 554).

Senna occidentalis (L.) Link, Handbuch 2: 140 (1829)

LC Naturalized

Native to Tropical & Subtropical America, naturalized in the rest of the Tropics. Africa. Also known from Annobón and Bioko.

Litoral: Área de Mbini. Poblado de Mbomo y Bikubini, *López Serrano* 160401, 160402 (MA); Área de Machinda, poblado de Ncon-Nbia, *López Serrano* 290326, 290327 (MA); Bata, Asonga, km carretera al aeropuerto, *Castelo & al. s.n.* (MA-319751); Bata, Miboman, km. 27 carretera Bata-Movo, *Castelo & al. s.n.* (MA-319728). Wele Nzas: Akok, carretera Acurenam-Aconibe, *Pérez Viso* 2401 (MA-691423, 711592)

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 33; Estrella *et al.* 2006: 554), Litoral (Lejoly & Lisowski 1998: 33; Estrella *et al.* 2006: 554) and Río Muni without any precise locality (Guinea 1946: 295).

Senna septemtrionalis (Viv.) H.S.Irwin & Barneby in Mem. New York Bot. Gard. 35: 365 (1982)

LC Naturalized

Native to Tropical & Subtropical America, naturalized in the rest of the Tropics. Africa. Also known from Annobón and Bioko.

Wele Nzas: [without locality], *Guinea* 185-209 (MA-712064); Bimvile, *Guinea* 182 (MA-294481), 184 (MA-294481).

Previously reported from Wele Nzas (Estrella *et al.* 2006: 554).

Senna siamea (Lam.) H.S.Irwin & Barneby in Mem. New York Bot. Gard. 35(1): 98 (1982)

LC Naturalized

Native to Sri Lanka, Indo-China, naturalized in the rest of the Tropics. Africa.

Previously reported from Litoral (Lejoly & Lisowski 1998: 33).

Senna spectabilis (DC.) H.S.Irwin & Barneby in Mém. New York Bot. Gard. 35: 600 (1982)

LC Naturalized

Native to Tropical & Subtropical America, naturalized in the rest of the Tropics. Africa. Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 28).

Sindora klaineana Pierre ex Pellegr. in Bull. Mus. Natl. Hist. Nat. 25: 653 (1919)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Bome, *Carvalho* 5197 (MA- 593429, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 33; Estrella *et al.* 2006: 555).

Sindoropsis letestui (Pellegr.) J.Léonard in Mém. Cl. Sci. Acad. Roy. Belgique (8vo) ser. 2, 30(2): 82 (1957)
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: distrito de Mbini, de 5 a 7 km aprox. al O del patio SOFOGE, *Nguema & Obiang* 13 (WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 34) and Litoral (Estrella *et al.* 2006: 555).

Stachyothyrsus staudtii Harms in Engl. & Prantl (eds.), Nat. Pflanzenfam. Nachtr. 1: 198 (1897)
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: Nkolentangan, *Tessmann* 270 (K).

Previously reported from Wele Nzas (Guinea 1946: 144; Estrella *et al.* 2006: 555) and Río Muni without any precise locality (Léonard & Voorhoeve 1964: 422; Guinea 1946: 295).

Stemonocoleus micranthus Harms in Bot. Jahrb. Syst. 38: 77, fig. 7 (1907)
LC Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 34) and Wele Nzas (Guinea 1946: 144).

Stylosanthes erecta P.Beauv., Fl. Oware 1: 28, tab. 77 (1805)
NE Native
Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Litoral: Río Campo, *Barberá & al.* 291 (MA-844235); playa de Utonde, *Barberá & al.* 222 (MA-843816); desembocadura del río Campo, *Pérez Viso* 2160 (MA-712203); Bata, *Guinea & Gómez Moreno* 1059 (MA-700868), 1061 (MA-700865); Ecuco, *Guinea* 187-605 (MA-294517), 199-755 (MA-294518), 489-755 (MA-294516).

Previously reported from Litoral (Lejoly & Lisowski 1998: 60; 1999a: 101; Estrella *et al.* 2010a: 38).

Tephrosia vogelii Hook.f. in Hook. (ed.), Niger Fl.: 296 (1849)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Litoral: Bata-Pembe-San Joaquin de Ndyjacon, estrada kms. 21-22, *Carvalho* 5247 (MA-598181, MO, WAG). Wele Nzas: Nkolentangan, *Tessmann* 85 (K).

Previously reported from Litoral (Lejoly & Lisowski 1998: 60; Estrella *et al.* 2010a: 38), Wele Nzas (Estrella *et al.* 2010a: 38) and Río Muni without any precise locality (Guinea 1946: 297; Estrella *et al.* 2010a: 38).

Tessmannia africana Harms in Bot. Jahrb. Syst. 45: 295, fig. 2 (1910)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: Nkolentangan, *Tessmann* 377 (K).

Previously reported from Wele Nzas (Estrella *et al.* 2006: 555) and Río Muni without any precise locality (Hepper 1958: 455; Guinea 1946: 293).

Tessmannia anomala (Micheli) Harms in Engl. & Drude, Veg. Erde 9(3, 1): 457 (1915)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P. N. Monte Alén, *Lejoly* 95T/L2.128 (BRLU)

Previously reported from Centro Sur (Estrella *et al.* 2006: 555).

Tetraberlinia bifoliolata (Harms) Hauman in Bull. Séances Inst. Roy. Colon. Belge 23: 477 (1952)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: près de la frontière gabonaise, chantier forestier à l'est de Cogo, *McPherson* 14014 (MO, WAG); Bata-Senye (Senge), estrada km 15, cerca de Enigayong, *Carvalho* 6316 (MA-620649, WAG); Nco, 20 km vers la riv. Mitong, *Nguema & Lejoly* 152 (MA-611891); Bata-Senye (Senge), estrada km. 27, hacia la zona forestal de IBOGA, *Carvalho* 6396 (MA-620913); Bata-Bolondo, estrada km 15 e nos arredores da povoacao Macomo, *Carvalho* 4750 (MA-593450, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 34; Estrella *et al.* 2006: 555), Litoral: Wieringa 1999: 265) and Río Muni without any precise locality (Troupin

1950: 320).

Tetraberlinia longiracemosa (A.Chev.) Wieringa in Wageningen Agric. Univ. Pap. 99(4): 272, fig. 14.4, pl. 5c (1999)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Sendje, estrada km. 22, *Carvalho* 5714 (MA-599249, MO, WAG).

Previously reported from Litoral (Estrella *et al.* 2006: 555).

Tetraberlinia moreliana Aubrév., Fl. Gabon 15: 302 (1968)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P. N. Monte Alén, cabaña de Mosumo, *Senterre & Obiang* 4106 (BRLU).

Litoral: Mayang, ribera del Mitong, *Lisowski* M-849 (BRLU).

Previously reported from Centro Sur (Estrella *et al.* 2006: 555) and Litoral (Estrella *et al.* 2006: 555).

Tetraberlinia polyphylla (Harms) J.Léonard in Bull. Jard. Bot. État Bruxelles 35: 106 (1965)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 34).

Tetrapleura tetraptera (Schumach. & Thonn.) Taub. in Bot. Centralbl. 47: 395 (1891)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Kie Ntem: Nsoc Nsomo, a 5 km de Nsoc Nsomo por la pista que va hacia Bata, *Cabezas & al.* 1297 (MA-831853); Akam, *Fero & Esono* 54 (MA-808947). Litoral: près de la frontière gabonaise, chantier forestier à l'est de Cogo, *McPherson* 13989 (MO, K, WAG); Bata-Senye (Senge)-Mitom-Emangës, estrada kms.70-71 en dirección a Cogo, *Carvalho* 6487 (MA-620711); Bata-Senye, estrada km. 29, *Carvalho* 5039 (MA-598927, MO, WAG). Wele Nzaz: Nkolentangan, *Tessmann* 84 (K).

Previously reported from Centro Sur (Guinea 1946: 141, 184e; Estrella *et al.* 2005: 17), Litoral (Guinea 1946: 154; Estrella *et al.* 2005: 17), Wele Nzaz (Lejoly & Lisowski 1998: 86; Guinea 1946: 144; Estrella *et al.* 2005: 17) and Río Muni without any precise locality (Guinea 1946: 291).

Vigna gracilis (Guill. & Perr.) Hook.f. in Hook. (ed.), Niger Fl.: 311 (1849)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Engong, *Pérez Viso* 361 (MA-711542). Kie Ntem: Nfuiñ, a 29 km de Nsoc Nsomo por la pista que va hacia Bata, *Cabezas & al.* 1325 (MA-831961); Nsoc Nsomo, camino que va desde Nsoc Nsomo a Bata, Mocomo, *Cabezas & al.* 1284 (MA-831839). Litoral: Mbini, *Lisowski* M-956, M-960 (BRLU). Wele Nzas: inselberg de Piedra Nzas, *Lejoly* 99/161 (BRLU).

Previously reported from Centro Sur (Estrella *et al.* 2010a: 40), Litoral (Lejoly & Lisowski 1998: 61; 1999a: 101; Estrella *et al.* 2010a: 41) and Wele Nzas (Lejoly & Lisowski 1998: 61; 1999a: 120; Estrella *et al.* 2010a: 38).

Vigna juruana (Harms) Verdc. in Kew Bull. 24: 540 (1970)

DD Naturalized

Native to Central & S. Tropical America, naturalized in W. Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: playa de Utonde, *Barberá & al.* 228 (MA-843810); Corisco, playa al S.O. de la isla, *Pérez Viso* 1983 (MA-712210); Bata-Asonga, *Carvalho* 5444 (MA-599444, MO, WAG).

Previously reported from Litoral (Estrella *et al.* 2010a: 41).

Vigna marina (Burm.) Merr., Interpr. Herb. Amboin.: 285 (1917)

LC Native

Native to Tropical & Subtropical Old World, naturalized in Tropical America. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Litoral: Bata, *Nguema* 1152 (BRLU); Baga, *Eneme & Lejoly* 88 (BRLU).

Previously reported from Litoral (Lejoly & Lisowski 1998: 61; 1999a: 101; Guinea 1946: 159; Estrella *et al.* 2010a: 41).

Zornia latifolia Sm. in Rees, Cycl. 39: Zornia n° 4 (1819)

NE Naturalized

Native to Tropical & Subtropical America, naturalized in W. Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Corisco, *Pérez Viso* 1990 (MA-715522); Corisco, camino hacia el N a 100 m de la casa de Yniestrosa, *Velayos & al.* 9920 (MA-711277); Bata, *Nguema* 1159 (BRLU); Bata-Pembe, pradera de Pembe, *Carvalho* 5586 (MA-598816, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 61; Estrella *et al.* 2010a: 43).

GELSEMIACEAE (LOGANIACEAE IN FL. GUINEA)

Mostuea batesii Baker in Oliv. (ed.), Fl. Trop. Afr. 4: I. 506 (1904)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Mount Alen, *de Wilde 12042* (WAG). Litoral: Bata-Bicomo, márgenes del Río Ecucu junto a la central hidroeléctrica, *Carvalho 5380* (MA-599428, MO, WAG).

Not previously reported from Río Muni.

Mostuea brunonis Didr. in Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn 87 (1853)

NE Native

Native to Tropical Africa and Madagascar. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region.

Litoral: Bata-Senye (Senge)-Cogo, Mitomo, Emangós, *Carvalho 6355* (MA-620809).

Previously reported from Litoral (Lejoly & Lisowski 1998: 72; Leeuwenberg 1961a: 14) and Río Muni without any precise locality (Leeuwenberg 1961a: 19).

Mostuea hirsuta (T.Anderson ex Benth. & Hook.f.) Baill. in Oliv. (ed.), Fl. Trop. Afr. 4(1): 509 (1903)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Ayene concentrado, *Cabezas 108* (MA-695686).

Previously reported from Litoral (Lejoly & Lisowski 1998: 72), Wele Nzas (Lejoly & Lisowski 1998: 72; Leeuwenberg 1961a: 9) and Río Muni without any precise locality (Hepper 1963: 45).

Mostuea neurocarpa Gilg in Bot. Jahrb. Syst. 28: 116 (1901)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Bata-Monte Alen, subida al Monte Alen, *Carvalho 5309* (MA-598226, MO, WAG). Litoral: Bata-Bicomo, estrada km 39-40, *Carvalho 4935* (MA).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 72) and Wele Nzas (Lejoly & Lisowski 1998: 72).

GENTIANACEAE

Anthocleista laxiflora Baker in Bull. Misc. Inform. Kew 1895: 99 (1895)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Banks of Kougué R, *Mann 1802* (K, WAG).

Previously reported from Litoral (Leeuwenberg 1961b: 35).

Anthocleista nobilis G.Don, Gen. Hist. 4: 68 (1837)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Guinea 1946: 184i) and Wele Nzas (Guinea 1946: 147). We have not found any herbarium specimen supporting these records, the distribution range and the ecological features of the species makes its presence in the country reliable.

Anthocleista schweinfurthii Gilg in Bot. Jahrb. Syst. 17: 579 (1893)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Près de la frontière gabonaise; chantier forestier a l'est de Cogo, *McPherson 13991* (MO, WAG).

Not previously reported from Río Muni.

Anthocleista vogelii Planch. in Hooker's Icon. Pl. 8: t. 793 (1848)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Área de Mbini. Poblado de Miton y Minang, *López Serrano 120401, 120402, 120403 120404* (MA); Bata-Mbini-Boete-Etembue, estrada km. 12 de Boete, próximo al Río Ayú, *Carvalho 5927* (MA-609911, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 72), Litoral (Lejoly & Lisowski 1998: 72) and Río Muni without any precise locality (Hutchinson 1931: 18).

Congolanthus longidens (N.E.Br.) A. Raynal in Adansonia, sér. 2 8: 56 (1968)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bome, *Carvalho 5567* (MA, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 63; 1999a: 110).

Exochaenium grande (E.Mey.) Griseb. in DC. Prodr. 9: 55 (1845)

DD Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara Zululand Region; Karoo Namib Region; Cape Region.

Previously recorded from Equatorial Guinea (Maas & Maas-van de Kamer (2020: 66)

Neurotheca corymbosa Hua in Bull. Soc. Bot. France 48: 267 (1901 [1902])

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Etembue, Espigon (réserve de Ndote), *Obama & Lejoly* 590 (MA-612199); Bata-Bome, *Carvalho* 4673 (MA-597458, MO, WAG); pradera de Ndote, *Eneme Efua* 289 (MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 63; 1999a: 110).

Neurotheca loeselioides (Spruce ex Progel) Baill., Hist. Pl. 10: 132 (1888)

NE Native

Native to Tropical America and Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: c. 11 km S of Bata, *de Wilde* 11986 (BATA, WAG); Bata-Asonga, *Carvalho* 4648 (MA-597923, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 64; 1999a: 110).

Oreonesion testui A.Raynal in Adansonia, sér. 2 5: 272 (1965)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Wele Nzas: cerro cúpula de Cucumancoc [Kukumankok], *Guinea* 360-503 (MA-715232); cerro cúpula de Asoc. Guinea Ecuatorial española, *Guinea* 345-504 (MA-715231); inselberg de Mfui, 50 km à l'E de Añisok, *Obama & Lejoly* 387 (MA-612041).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 64; 1999a: 110, 118).

GESNERIACEAE

Epithema tenue C.B.Clarke in DC., Monogr. Phan. 5: 181 (1883)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: near ECOFAC-Hotel, base of Mount Alen, *de Wilde* 12008 (MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 64).

Streptocarpus strigosus (Hook.f.) Nishii & Mich.Möller in Taxon 64(6): 1261 (2015)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: near ECOFAC-Hotel, base of Mount Alen, *de Wilde 12020* (WAG); Mount Alen, *de Wilde 12034* (MO, WAG). Litoral: Monts de Cristal, 12 km ENE de Okuamkos, *Wilks 1751* (MO, WAG).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 64).

GOODENIACEAE

Scaevola plumieri (L.) Vahl, Symb. Bot. 2: 36 (1791)

LC Native

Native to the Tropics & Subtropics. Sudano-Zambezian Region (Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region.

Litoral: Bata-Bome, *Carvalho 6040* (MA-619178, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 64; 1999a: 101; Guinea 1946: 167, 169) and Río Muni without any precise locality (Guinea 1946: 367).

HALORAGACEAE

Laurembergia repens subsp. **brachypoda** (Welw. ex Hiern) Oberm. in Bothalia 11(1-2): 117 (1973)

LC Native

Native to Africa. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Karroo Namib Region; Cape Region; Madagascan Region.

Previously reported from Litoral (Lejoly & Lisowski 1998: 65). We have not found any herbarium specimen supporting this record. The distribution range and the ecological requirements of the species makes its presence in the country reliable

HUMIRIACEAE

Sacoglottis gabonensis (Baill.) Urb., Fl. Bras. (Martius) 12(2): 449 (1877)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Monts de Cristal, 3 km NNE de Okuamkos, Mitemele, *Wilks 1748* (WAG); Bata-Bolondo, río Boara, *Carvalho 4761* (MA-597674, MO, WAG); Miboman, km 27, carretera Bata-Movo, *Castelo & al. s.n.* (MA-319768); savane of Baga Espigon, *Eneme Efua 343* (BATA, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 66) and Río Muni, without

any precise locality (Guinea 1946: 300).

HYPERICACEAE

Harungana madagascariensis Lam. ex Poir. in Lam., *Encycl.* 6: 314 (1804)

LC Native

Native to Tropical Africa and Madagascar. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Centro Sur: Parque nacional del monte Alén, senda que sube al repetidor de televisión, *Pérez Viso 106* (MA-703176). Kie Ntem: Akam II, carretera hacia Nsok Nsomo, *Fero & Esono 123* (MA-808725, 831747). Litoral: Conisio, distrito de Kogo, *Obama 752* (WAG); río Campo, carretera de la playa al pueblo, *Barberá & al. 315* (MA-844509); Bata-Senge, estrada km 9 a Mbini, *Carvalho 6426* (MA-725177, WAG); km 24 carretera Bata-Movo, *Castelo & al. s.n.* (MA-319723). Río Muni: [without locality], *Eneme Efua 252* (WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 66; Guinea 1946: 184i), Litoral (Lejoly & Lisowski 1998: 66) and Wele Nzas (Guinea 1946: 145).

Psorospermum membranaceum C.H.Wright in Bull. Misc. Inform. Kew 301 (1898)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Pembe-Mbini, estrada kms. 22-23, praderas gramíneas de Pembe, *Carvalho 5272* (MA-598016, MO, WAG); Bata-Anguoc-Mbini, estrada km. 28, entrada de Exfosa, *Carvalho 5535* (MA-598905).

Not previously reported from Equatorial Guinea.

Psorospermum staudtii Engl. in Bot. Jahrb. Syst. 55: 383 (1919)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Monte Alén National Park, Monte Mitra, *Leal 821* (MO).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 67) and Litoral (Lejoly & Lisowski 1998: 67).

Psorospermum tenuifolium Hook.f. in Hook. (ed.), *Niger Fl.*: 242, tab. 21 (1849)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Moka-Monte Alén, monte de uma antena, *Carvalho 5116* (MA, MO, WAG); P.N. Monte Alén, lago Atok, *Pérez Viso 1104* (MA-715592); P.N. Monte Alén, Bong, senda que va hacia el lago Atok, *Pérez Viso 250* (MA-713058); Achimelan, km.

23 de la carretera de Kogo, *Pérez Viso* 3316 (MA-703179). Litoral: Bata-Bome, praderas de Bome, *Carvalho* 5496 (MA-599383, MO, WAG). Río Muni: [without locality], *Eneme Efua* 393 (BATA, WAG). Wele Nzas: Inselberg d'Asoc, à côté de la route près du village d'Asoc, à 15 km de Mongomo, *Parmentier* 3703 (WAG); inselberg de Dumu, près du village de Dumun, *Parmentier*, 3658 (WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 67) and Wele Nzas (Lejoly & Lisowski 1998: 67; 1999a: 119).

Vismia guineensis (L.) Choisy, Prodr. Monogr. Hyperic. 36 (1821)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Pembe, estrada kms 28-29, povoação de Mbaha, *Carvalho* 5195 (MA, MO, WAG); Bata-Bome, *Carvalho* 4941 (MA-597244, MO, WAG).

Not previously reported from Equatorial Guinea.

Vismia rubescens Oliv. in Oliv. (ed.), Fl. Trop. Afr. 1: 160 (1868)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Wele Nzas: Eviam, carretera forestal de Bata a Niefang, *Pérez Viso* 2587 (MA-780336).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 67), Litoral (Lejoly & Lisowski 1998: 67 and Río Muni without any precise locality (Hepper 1954: 288).

HYPOXIDACEAE

Curculigo pilosa (Schumach. & Thonn.) Engl. in Engl. & Drude, Veg. Erde 9(2): 353 (1908)

NE Native

Native to Tropical Africa and Madagascar. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bome, detrás de las instalaciones de la Empresa Hess, *Fero & Barberá* 330 (MA-844556); Corisco, Endote, *Pérez Viso* 1939 (MA-715831); Utonde, *Guinea* 722 (MA-715827, 715828); 723 (MA-689163); Bome, *Pérez Viso* 1734 (MA-689159); Corisco, *Velayos & al.* 9957 (MA-706854); Bata-Utonde, estrada kms. 25-26, pradera gramínea de Eyang-Mbaha ou de Pembe, *Carvalho* 4732 (MA-597905, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 157; Guinea 1945: 471-472; 1946: 172, 178, 257-258, 478) and Río Muni without any precise locality (Hepper 1968a: 174).

Hypoxis angustifolia Lam., Encycl. 3: 182 (1789)

NE Native

Native to Tropical & S. Africa and Madagascar. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region.

Centro Sur: P.N. Monte Alén, Mosumu, alrededores de las cataratas del río Laña, *Pérez Viso 231* (MA-702665); *1268* (MA-687153). Litoral: Bata-Senye, estrada km. 40 no local da ponte sobre el Río Benito, *Carvalho 5028* (MA-599215).

Not previously reported from Equatorial Guinea.

ICACINACEAE

Alsodeiopsis mannii Oliv. in J. Linn. Soc., Bot. 10: 43 (1869)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Wele Nzas: entre Nsuameyong et inselberg Akuom, *Obama & Lejoly 427* (MA-612117).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 67; 1999a: 120) and Río Muni without any precise locality (Hepper 1958: 638).

Alsodeiopsis poggei Engl. in Bot. Jahrb. Syst. 17: 71 (1893)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 67). We have not found any herbarium specimen supporting this record, nonetheless the distribution range and ecological features of the species makes its presence in the studied region reliable

Alsodeiopsis staudtii Engl. in Bot. Jahrb. Syst. 24: 479 (1898)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Engong, *Eneme Efua 447* (BATA, WAG). Litoral: Bata-Bolondo, estrada km 22-23, área da exploração florestal de EXFOSA, *Carvalho 5264* (MA, MO, WAG); Bata-Anguoc-Mbini, estrada km. 28, entrada de EXFOSA, *Carvalho 5536* (MA-598904, MO, WAG); Bata-Sendje (Senye), estrada km. 40, a jussante da ponte sobre Río Benito, *Carvalho 5319* (MA-598217, MO, WAG); Bata-Senye, estrada km 40, nas margens do río Benito, ponte sobre este río, *Carvalho 5080* (MA, MO, WAG); *Carvalho 5023* (MA, MO, WAG). Río Muni: [without locality], *Eneme Efua 192* (WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 67) and Litoral (Lejoly & Lisowski 1998: 67).

Icacina mannii Oliv. in Oliv. (ed.), Fl. Trop. Afr.1: 357 (1868)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Conisio, distrito de Kogo, *Obama* 734 (WAG); Ondo, km. 8 de la carretera del puerto, *Pérez Viso* 3819 (MA-795904).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 68; Guinea 1946: 141) and Río Muni without any precise locality (Hepper 1958: 641).

Iodes africana Welw. ex Oliv. in Oliv. (ed.), Fl. Trop. Afr.1: 358 (1868)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Pembe, estrada kms 24-25, *Carvalho* 5585 (MA); Bata-Senye, estrada km 27, *Carvalho* 5164 (MA, MO, WAG); Bata-Senge, estrada km. 24, *Carvalho* 5626 (MA-598784, MO, WAG); Bata-Bicomo, central electrica entre Nkoantoma e Ayelon, *Carvalho* 4776 (MA-597585, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 68).

Iodes kamerunensis Engl. in Bot. Jahrb. Syst. 24: 481 (1898)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Bata-Monte Alen-Engon, estrada km. 97 entre Moka e Angon, *Carvalho* 5524 (MA-599459, MO, WAG).

Not previously reported from Equatorial Guinea.

Pyrenacantha anhydathoda (Villiers) Byng & Utteridge in Bot. J. Linn. Soc. 176: 292 (2014)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Niefang, estrada km 35, Adjape, río Sama, *Carvalho* 5872 (MA-593436, WAG).

Not previously reported from Equatorial Guinea.

Pyrenacantha lobata (Pierre) Byng & Utteridge in Bot. J. Linn. Soc. 176: 292 (2014)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senge-Mitom-Emangós, estrada kms. 58-59, entre Mitom y Emangós, *Carvalho* 6471 (MA-634137); Bata-Mbini, estrada km. 10, *Carvalho* 4963 (MA-599209).

Previously reported from Wele Nzas (Guinea 1946: 150).

Pyrenacantha soyauxii (Engl.) Byng & Utteridge in Bot. J. Linn. Soc. 176: 292 (2014)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 67). We have not found any herbarium specimen supporting this record, nonetheless the distribution range and ecological features of the species makes its presence in the studied region reliable.

Pyrenacantha thomsoniana (Baill.) Byng & Utteridge in Bot. J. Linn. Soc. 176: 292 (2014)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Guinea 1946: 149-150). We have not found any herbarium specimen supporting this record, nonetheless the distribution range and ecological features of the species makes its presence in the studied region reliable.

Rhaphiostylis beninensis (Hook.f. ex Planch.) Planch. ex Benth., Niger Fl. 259 (1849)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Litoral: Bata-Senge, estrada km 27, antigua explotación forestal de EXFOSA, *Carvalho* 6138 (MA-642359); Bata-Mongo-Nosok, entre Mongo e Nosok, *Carvalho* 5066 (MA-610093, MO).

Not previously reported from Equatorial Guinea.

Rhaphiostylis ferruginea Engl. in Bot. Jahrb. Syst. 43: 181 (1909)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata, praderas do aeroporto, entre o río Boara e o km 10, *Carvalho* 4920 (MA, MO, WAG).

Previously reported from Río Muni without any precise locality (Hepper 1958: 639).

Vadensea oblongifolia (Engl.) Jongkind & O.Lachenaud in Phytotaxa 405(5): 240 (2019)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: SO du PNMA, 2 km NE du site de traversée du río Wele pour aller aux cataratas, *Senterre 2201* (BRLU); 2253 (BRLU).

Previously reported from Río Muni without any precise locality (Jongkind & Lachenaud 2019: 240).

Vadensea tenuifolia (Oliv.) Jongkind & O.Lachenaud in *Phytotaxa* 405(5): 242 (2019)
NE Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 158) and Río Muni without any precise locality (Hepper 1958: 639). We have not found any herbarium specimen supporting these records, nonetheless the distribution range and ecological features of the species makes its presence in the studied region reliable.

Vadensea testui Jongkind & O.Lachenaud in *Phytotaxa* 405(5): 242 (2019)
VU Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Wele Nzaz: Parc national de Nsork, Obamicu, *Lejoly & Esono 98/41* (BRLU).

Previously reported from Wele Nzaz (Jongkind & Lachenaud 2019: 245).

Vadensea vogelii (Miers) Jongkind & O.Lachenaud in *Phytotaxa* 405(5): 245 (2019)
VU Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 68) and Litoral (Lejoly & Lisowski 1998: 68). We have not found any herbarium specimen supporting these records.

IRVINGIACEAE

Desbordesia glaucescens (Engl.) Tiegh. in *Ann. Sci. Nat., Bot., sér. 9* 1: 290 (1905)
LC Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Harris 1995: 151; Guinea 1946: 141), Wele Nzaz (Guinea 1946: 145, 302) and Río Muni without any precise locality (Hepper 1958: 694; Guinea 1946: 302). We have not found any herbarium specimen supporting these records, nonetheless the distribution range and ecological features of the species makes its presence in the studied region reliable.

Irvingia excelsa Mildbr. in *Notizbl. Königl. Bot. Gart. Berlin, Append.* xxvii. 25 (1913)
LC Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Kie Ntem (Guinea 1946: 302). We have not found any herbarium specimen supporting this record, nonetheless, the distribution range and ecological features of the species makes its presence in the studied region reliable.

Irvingia gabonensis (Aubry-Lecomte ex O'Rorke) Baill., Bot. Méd. li. 881 (1884)

NT Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Alosa, Niefang, *Castelo & Juste s.n.* (MA-854338); carretera de Niefang a Evinayong, *Cabezas 97* (MA-695679). Litoral: Corisco, camino hacia el N a 100 m de la casa de Yniestrosa, *Velayos & al. 9942* (MA-706845); Bata-Mbini, estrada km 13, zona forestal de Acan-Bot Esaveng, *Carvalho 6059* (MA-618934, WAG). Río Muni: cultivada, *Eneme Efua 485* (WAG-1616550).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 68; Guinea 1946: 141), Litoral (Lejoly & Lisowski 1998: 68; Harris 1995: 177), Wele Nzas (Guinea 1946: 145) and Río Muni without any precise locality (Guinea 1946: 302).

Irvingia grandifolia (Engl.) Engl. in Bot. Jahrb. Syst. 46: 288 (1911)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bikurbinii, *Wilks 3567* (WAG-1615382).

Not previously reported from Equatorial Guinea.

Klainedoxa gabonensis Pierre ex Engl. in Engl. & Prantl (eds.), Nat. Pflanzenfam. 3(4): 227 (1896)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Engong, *Eneme Efua 448* (WAG-1615166).

Previously reported from Centro Sur (Guinea 1946: 64b, 141), Litoral (Lejoly & Lisowski 1998: 69; Guinea 1946: 154) and Río Muni without any precise locality (Guinea 1946: 302).

Klainedoxa trillesii Pierre ex Tiegh. in Ann. Sci. Nat., Bot., sér. 9 1: 301 (1905)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 69) and Río Muni without any precise locality (Guinea 1946: 302). We have not found any herbarium specimen supporting these records.

IXONANTHACEAE

Phyllocosmus africanus (Hook.f.) Klotzsch in Abh. Königl. Akad. Wiss. Berlin 1857: 233 (1857)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Ecobenam, na finca dos curas claretianos, *Carvalho 5547* (MA, MO, WAG).

Previously reported from Centro Sur (Guinea 1946: 141).

Phyllocosmus sessiliflorus Oliv. in Oliv. (ed.), Fl. Trop. Afr.1: 273 (1868)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Río Muni: Concession B.V., *Azizet Issembé 8* (WAG-1060090).

Not previously reported from Río Muni.

LAMIACEAE

Achyropermum ciliatum Gürke in Bot. Jahrb. Syst. 36: 128 (1905)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 69). We have not found any herbarium specimen supporting this record, nonetheless the distribution range and ecological requirements of the species makes its presence in the country reliable.

Achyropermum oblongifolium Baker in Fl. Trop. Afr. 5: 464 (1900)

DD Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Paton *et al.* 2022: 7)

Achyropermum tisserantii Letouzey in Adansonia, n.s., 7: 175 (1967)

DD Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Paton *et al.* 2022: 8).

Aeollanthus suaveolens Mart. ex Spreng. in Syst. Veg., 2: 750 (1825)

DD Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province,

Congolian Province).

Previously recorded from Rio Muni (Paton *et al.* 2022: 11).

Clerodendrum buettneri Gürke in Bot. Jahrb. Syst. 18: 174 (1893)

DD Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Paton *et al.* 2022: 22).

Clerodendrum capitatum (Willd.) Schumach. & Thonn., Beskr. Guin. Pl.: 287 (1827)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, 3 km à l'O de la station Ecofac, *Lejoly* 99/406 (MA-621684).

Not previously reported from Río Muni.

Clerodendrum dusenii Gürke in Bot. Jahrb. Syst. 28: 293 (1900)

DD Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously recorded from Rio Muni (Paton *et al.* 2022: 24).

Clerodendrum formicarum Gürke in Bot. Jahrb. Syst. 18: 179 (1894)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni without any precise locality (Hepper 1963: 444). We have not found any herbarium specimen supporting this record, nonetheless, the distribution range and ecological features of the species makes its presence in the studied region reliable.

Clerodendrum fuscum Gürke Bot. in Jahrb. Syst. 18: 175 (1894)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, 3 km à l'O de la station Ecofac, *Lejoly* 99/388 (MA-621688). Litoral: Corisco Bay, *Mann* 1757 (K).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 135). We have not found any herbarium specimen supporting this record.

Clerodendrum speciosissimum C. Morren in Hort. Belge 3: 322, pl. 68 (1836)

NE Naturalized

Native from Malesia to Vanuatu, elsewhere cultivated and naturalized in the Tropics. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 135). We have not found any herbarium specimen supporting this record.

Clerodendrum splendens G. Don. in Edinburgh Philos. J. 11: 349 (1824)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: distrito de Evinayong, carretera Evinayong-Aconibe km 5, poblado de San José, *Gómez Marín & al.* 125 (MA-856955); Bata-Niefang, estrada km. 61, zona da povoação chamada Edum, *Carvalho* 5704 (MA-599138, WAG). Litoral: Utonde, Adjap, *Guinea* 824-322 (MA-727724); Bata-Niefang, estrada km. 35, entre la zona de Adjape y Río Sama, *Carvalho* 5984 (MA-609791, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 135; Guinea 1946: 184i), Litoral (Lejoly & Lisowski 1998: 135; Guinea 1946: 158), Wele Nzas (Lejoly & Lisowski 1998: 135; Guinea 1946: 147) and Río Muni without any precise locality (Hepper 1963: 444).

Clerodendrum umbellatum Poir. in Lam., Encycl. 5: 166 (1804)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Engong, camino hacia Lovayat, *Pérez Viso* 832 (MA-713702).

Previously reported from Litoral (Guinea 1946: 158).

Clerodendrum volubile P. Beauv., Fl. Oware 1: 52, tab. 32 (1805)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bolondo, *Guinea* 685-314 (MA-727710); Ecuco, *Guinea* 345-582 (MA-727709).

Previously reported from Centro Sur (Guinea 1946: 184i), Litoral (Guinea 1946: 178),

Wele Nzas (Guinea 1946: 147, 150) and Río Muni without any precise locality (Hepper (1963: 444).

Hoslundia opposita Vahl, Enum. Pl. (Vahl) 1: 212 (1804)

NE Native

Native to Tropical & S. Africa and Madagascar. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Bata-Niefang-Monte Alén, estrada km. 90-91, *Carvalho* 5912 (MA-609866).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 69) and Wele Nzas (Lejoly & Lisowski 1998: 69).

Hyptis lanceolata Poiret, Encycl., Suppl. 3: 114 (1813)

NE Naturalized

Native to Tropical America, naturalized in Tropical Africa. Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Mosumo, *Aedo & al.* 5102 (MA-713766); pr. Acurenam, Mbeayop, *Aedo & al.* 5391 (MA-705240); Monte Alén, subida al mirador, *Cabezas* 131b (MA-698134); Monte Alén, praderas pasado el mirador, *Cabezas* 133 (MA-695702); Evinayong, *Guinea* 311-849 (MA-514646). Río Muni: [without locality], *Eneme Efua* 233 (BATA, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 69); Morales 1993: 288) and Litoral (Lejoly & Lisowski 1998: 69).

Mesosphaerum pectinatum (L.) Kuntze in Revis. Gen. Pl. 2: 525 (1891)

DD Naturalized

Native to Tropical Meso & South America, widely naturalized through the Paleotropics.

Previously recorded from Río Muni (Paton *et al.* 2022: 69).

Mesosphaerum suaveolens (L.) Kuntze, Revis. Gen. Pl. 2: 525 (1891)

NE Naturalized

Native to Tropical America, naturalized in the rest of the Tropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bicomo, estrada km. 5-6, *Carvalho* 4780 (MA-597582, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 69).

Ocimum americanum L., Cent. Pl. 1: 15 (1755)

NE Naturalized

Native to the Tropics and Subtropics of the Old World, naturalized elsewhere in the Tropics and Subtropics. Africa. Also known from Bioko.

Litoral: Área de Machinda, poblado de Mbuibuiñ, *López Serrano 270301* (MA).

Previously reported from Litoral (Lejoly & Lisowski 1998: 69).

Ocimum gratissimum L., Sp. Pl. 2: 1197 (1753)

NE Native

Native to Tropical and Subtropical Old World, naturalized in Tropical America. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Litoral: Área de Machinda. Poblado de Adam-Tum, *López Serrano 110516, 110517* (MA); Área de Mbini. Poblado de Mbomo y Bikubini, *López Serrano 160407, 160408* (MA); Área de Machinda. Poblado de Ayamiken, *López Serrano 190303, 190304, 190305* (MA). Río Muni: [without locality], *Eneme Efua 228* (WAG); Ase, Servicio Agronómico, *Guinea 920* (MA-514821).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 70) and Litoral (Lejoly & Lisowski 1998: 70).

Platostoma africanum P.Beauv., Fl. Oware 2: 61 pl. 95 fig. 2 (1818)

NE Native

Native to Tropical Africa and India. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province, Somalo-Ethiopian Province). Also known from Bioko.

Centro Sur: Miyobo, carretera Niefang-Mosumu, senda hacia el río Laña, *Pérez Viso 2521* (MA-833155); P.N. Monte Alén, Mosumu, *Pérez Viso 647* (MA-713764). Litoral: Conisio, distrito de Kogo, *Obama 714* (WAG); Bata-Bome, río Boara, *Carvalho 4716* (MA-597506, MO, WAG); Bata-Bome, *Carvalho 5105* (MA-599743, MO, WAG).

Not previously reported from Río Muni.

Plectranthus decurrens (Gürke) J.K.Morton in J. Linn. Soc., Bot. 58: 267 1962

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Eviam, carretera forestal de Bata a Niefang, *Pérez Viso 2634* (MA-833154).

Not previously reported from Río Muni.

Plectranthus epilithicus B.J.Pollard in Kew Bull. 60: 145 (2005)

NE Native

Tropical Africa. Guinea Also known from Bioko.o-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Niefang, estrada km 35, entre los ríos Sama y Comayá, *Carvalho* 5833 (MA-609819, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 70) and Wele Nzas (Lejoly & Lisowski 1998: 70).

Plectranthus inselbergi B.J.Pollard & A.J.Paton in Kew Bull. 61: 225 (2006)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Wele Nzas: Cucumancoc, *Guinea* 380 (MA-514610).

Previously reported from Wele Nzas (Morales 2011: 215).

Plectranthus monostachyus (P.Beauv.) B.J.Pollard in Kew Bull. 56(4): 980 (2001)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: P.N. Monte Alén, Enkumekien, *Pérez Viso* 1538 (MA-711801); Evinayong, Servicio Agronómico, *Guinea* 341 (MA-514611); 472 (MA-514818); cerro cúpula de Asoc, *Guinea* 2 (MA-513548, 514822); Mafanebú, entre Evinayong y Nsoc, *Guinea* 292 (MA-514601); carretera de Monte Bata hacia río Campo, *Pérez Viso* 2436 (MA-713765). Litoral: Etembué costa, entre Río Benito y Cabo San Juan, *Guinea* 326 (MA-514823); Bata-Asonga, pradera frontal las caracolas da Cooperación Española en Asonga, *Carvalho* 4680 (MA-597451, MO, WAG); Bata-Sendje , estrada km. 40, a jussante da ponte sobre Río Benito, *Carvalho* 5318 (MA-598218, MO, WAG); Corisco, *Velayos & al.* 9964 (MA-705040); Conisio. Distrito de Kogo, *Obama* 731 (WAG); Corisco, Endote, *Pérez Viso* 1945 (MA-713776); Pradera de Ndote, *Eneme Efua* 303 (BATA, WAG). Wele Nzas: Asok, *Del Val s.n.* (MA-877730, 877732, 877734, 877736); Nvua-Nnvam Oveng, Añisok, *Pérez Viso* 3011 (MA-713763).

Previously reported from Centro Sur (Morales 1993: 290), Litoral (Lejoly & Lisowski 1998: 70; *Guinea* 1946: 159, 176b), Wele Nzas (Lejoly & Lisowski 1998: 70; *Guinea* 1946: 179, 184k) and Río Muni without any precise locality (Morales 1993: 290).

Plectranthus occidentalis B.J.Pollard in Kew Bull. 60: 146 (2005)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Mafanebú, entre Evinayong y Nsoc, *Guinea* 219 (MA-514601); 221 (MA-514600). Wele Nzas: cerro cúpula de Cucumancoc [Kukumankok], *Guinea* 351-352-18 (MA-514644).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 70), Litoral (Lejoly &

Lisowski 1998: 70), Wele Nzas (Lejoly & Lisowski 1998: 70; 1999a: 118; Morales 1993: 290) and Río Muni without any precise locality (Morales 1993: 290).

Premna angolensis Gürke in Bot. Jahrb. Syst. 18: 165 (1894)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Conisio, distrito de Kogo, *Obama* 740 (WAG).

Not previously reported from Río Muni.

Premna lucens A.Chev. in Bull. Soc. Bot. France lvi. Mem. V (1911)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 136). We have not found any herbarium specimen supporting this record.

Rotheca violacea (Gürke) Verdc. in Kew Bull. 55(1): 154 (2000)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Engong, camino hacia el lago Atok, *Pérez Viso* 774 (MA-713706).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 136).

Tectona grandis L.f., Suppl. Pl. 151 (1781)

NE Naturalized

Native to Tropical Asia cultivated and naturalized elsewhere in the Tropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Mongo-Zona Madeireira de Alosa, estrada km. 56-57, *Carvalho* 5340 (MA-598313, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 136).

Vitex agelaeifolia Mildbr. ex W.Piep. in Beibl. Bot. Jahrb. Syst. 141: 55 (1928)

DD Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Río Muni (Paton *et al.* 2022: 91)

Vitex doniana Sw., Hort. Brit. 1826: 323 (1826)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Litoral: pradera de Ndote, *Eneme Efua* 306 (WAG); c. 11 km S of Bata, along coastal road and then 2 km along track in Southern direction, *de Wilde* 11998 (MO, WAG); Bata-Senge, estrada km 40, sobre el puente del río Benito, *Carvalho* 6430 (MA-620448); Bata-Bome, praderas en margens de Río Boará, *Carvalho* 5047 (MA-599230, MO, WAG); 4713 (MA-597507, MO, WAG); Bata-Bolondo, nas praderas gramíneas do antigo campo de aviação de Bolondo, *Carvalho* 4753 (MA-597316, MO, WAG). Río Muni: [without locality], *Eneme Efua* 454 (BATA, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 136; 1999a: 102).

Vitex grandifolia Gürke in Bot. Jahrb. Syst. 18: 169 (1894)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Esamalang, camino hacia Mondung, *Pérez Viso* 1121 (MA-727726). Litoral: Monts de Cristal. 10 km ENE d'Okuamkos, *Wilks* 1814 (WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 136) and Litoral (Lejoly & Lisowski 1998: 136).

Vitex rivularis Gürke in Bot. Jahrb. Syst. 33: 297 (1903)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Niefang, estrada km. 35, entrada madeireira forestal ABM en Comayá, *Carvalho* 5583 (MA-598819, MO, WAG).

Not previously reported from Río Muni.

Vitex thyrsoflora Baker in Bull. Misc. Inform. Kew 1895: 152 (1895)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Río Muni (Paton *et al.* 2022: 106)

LECYTHIDACEAE

Brazzeia soyauxii (Oliv.) Tiegh. in Ann. Sci. Nat., Bot., sér. 9 1: 356 (1905)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Wele Nzaz: Entre Kukumankok et la dalle rocheuse Mongum, *Lejoly* 99/383 (BATA-5805).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 126).

Crateranthus talbotii Baker f., Cat. Pl. Oban 36, tab. 5 (1913)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 71) and Litoral (Lejoly & Lisowski 1998: 71). We have not found any herbarium specimen supporting these records.

Napoleonaea angolensis Welw., Apont. 586, n. 25. (1859)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Prance & Jongkind 2015: 17). We have not found any herbarium specimen supporting this record.

Napoleonaea imperialis P.Beauv., Napoléone: 1 (1804)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Wele Nzaz (Guinea 1946: 148). We have not found any herbarium specimen supporting this record, nonetheless, the distribution range and ecological features of the species makes its presence in the studied region reliable.

Oubanguia africana Baill. in Bull. Mens. Soc. Linn. Paris 2: 869 (1890)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye, estrada km. 40, ponte sobre o rio Benito, *Carvalho* 5176 (MA, MO, WAG). Wele Nzaz: Park National de Nsork, Oubamicu, *Nguema, Esono & Lejoly* 257 (BATA-5806).

Previously reported from Litoral (Guinea 1946: 323) and Wele Nzaz (Guinea 1946: 145).

Oubanguia alata Baker f., Cat. Talbot 's Nigerian Pl. 15 (1913)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: P.N. Monte Alén, Akonanyi, camino hacia Nguru, *Pérez Viso* 932 (MA-

780344).

Not previously reported from Equatorial Guinea.

Petersianthus macrocarpus (P.Beauv.) Liben in Bull. Jard. Bot. Natl. Belg. 38: 207 (1968)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Niefang, estrada km. 35, en las zonas de Adjape y Akora, *Carvalho* 6023 (MA-609771, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 71; Prance & Jongkind 2015: 10) and Wele Nzaz (Lejoly & Lisowski 1998: 71).

Pierrina zenkeri Engl. in Bot. Jahrb. Syst. 43: 376 (1909)

NT Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Ayamiken (Reserve de río Campo), *Lejoly s.n.* (BATA-5817); *Lejoly* 97/2 (BATA-5808); *Obama* 11 (BATA-5807); Bata-Nasanga, estrada km. 36-37, Nasanga, *Carvalho* 4894 (MA-716933, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 126; Prance & Jongkind 2015: 53) and Wele Nzaz (Guinea 1946: 145).

Rhaptopetalum coriaceum Oliv. in J. Linn. Soc., Bot. 8: 160 (1865)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Wele Nzaz: Kukumankok, dalle rocheuse Mongum, *Lejoly* 99/380 (BATA-5810).

Not previously reported from Río Muni.

Rhaptopetalum pachyphyllum (Gürke) Engl. in Engl. & Drude, Veg. Erde 3: 11. 475 (1921)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 126), Litoral (Guinea 1946: 323) and Wele Nzaz (Guinea 1946: 145). We have not found any herbarium specimen supporting this record, nonetheless the distribution range and ecological requirements of the species makes its presence in the country reliable.

Scytopetalum klaineianum Pierre ex Engl. in Engl. & Prantl (eds.), Nat. Pflanzenfam. Nachtr. 1: 244 (1897)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province,

Congolian Province).

Litoral: Bata-Bome, estrada km. 10 frente á Academia Militar, *Carvalho 5000* (MA, MO, WAG); pradera de Baga, *Eneme Efua 345* (BATA, WAG); Mitom-Mibini, *Obama 844* (BATA-5812); Bata-Bome, *Carvalho 4699* (MA-832664, MO, WAG).

Previously reported from Litoral (Prance & Jongkind 2015: 46) and Río Muni without any precise locality (Wilks & Issembé 2000: 468).

Scytopetalum pierreanum (De Wild.) Tiegh. in Ann. Sci. Nat., Bot., sér. 9 1: 343 (1905)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Espigon, pradera de Baga, Reserva de Ndote, *Eneme & Lejoly 112* (BATA-5815).

Previously reported from Litoral (Lejoly & Lisowski 1998: 126).

LENTIBULARIACEAE

Utricularia andongensis Welw. ex Hiern, Cat. Afr. Pl. 1: 787 (1896)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Kie Ntem: Nfuiñ, a 29 km de Nsoc Nsomo por la pista que va hacia Bata, *Cabezas & al. 1319* (MA-831758). Litoral: Bata-Senge-Mitom-Emangós, de Midtome a Cogo, *Carvalho 6384* (MA-643404, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 71) and Wele Nzas (Lejoly & Lisowski 1998: 71; 1999a: 119).

Utricularia inflexa Forssk., Fl. Aegypt.-Arab. 9 (1775)

VU Native

Native to Africa and India. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 71). We have not found any herbarium specimen supporting this record, nonetheless, the distribution range and ecological requirements of the species makes its presence in the country reliable.

Utricularia spiralis Sm., Cycl. (Rees) 37: n. 5 (1818)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Litoral: Etembue, *Guinea* 929 (MA-713375).

Previously reported from Litoral (Lejoly & Lisowski 1998: 71).

LINACEAE

Hugonia obtusifolia C.H.Wright in Bull. Misc. Inform. Kew 1901: 119 (1901)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata, Akoniquieng, *Carvalho* 5020 (MA-599223, MO, WAG); Bata-Mongo (Alosa), estrada kms. 66-67, *Carvalho* 5541 (MA-598754, MO, WAG).

Not previously reported from Equatorial Guinea.

Hugonia platysepala Welw. ex Oliv. in Oliv. (ed.), Fl. Trop. Afr. 1: 272 (1868)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Monson-Dibolo, proximo a Mbubuin, *Carvalho* 4882 (MA-597844, MO, WAG).

Previously reported from Litoral (Guinea 1946: 158).

Hugonia spicata Oliv. in Oliv. (ed.), Fl. Trop. Afr. 1: 270 (1868)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Niefang, estrada km. 35, zona de Akora, *Carvalho* 5757 (MA-599107, WAG).

Not previously reported from Río Muni.

LINEARNIACEAE

Craterostigma nummulariifolium (D.Don) Eb.Fisch., Schäferh. & Kai Müll. in Willdenowia 43: 222 (2013)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 125). We have not found any herbarium specimen supporting this record.

Torenia dinklagei Engl. in Bot. Jahrb. Syst. 57: 610 (1922)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-

Cameroonian Province). Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 126). We have not found any herbarium specimen supporting this record.

Torenia mannii Skan in Oliv. (ed.), Fl. Trop. Afr.4: II. 336 (1906)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Fischer & Lachenaud 2013: 42) and Litoral (Fischer & Lachenaud 2013: 42). We have not found any herbarium specimen supporting these records.

Torenia thouarsii (Cham. & Schltld.) Kuntze, Revis. Gen. Pl. 2: 468 (1891)

LC Native

Native to Tropical Africa and India. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 126). We have not found any herbarium specimen supporting this record.

Vandellia diffusa L., Mant. Pl.: 89 (1767)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: P.N. Monte Alén, Bong, *Pérez Viso* 262 (MA-745638); P.N. Monte Alén, dalle rocheuse 3 km l'O de ECOFAC, *Lejoly* 99/022 (MA-621781).

Previously reported from Litoral (Lejoly & Lisowski 1998: 125; Guinea 1946: 159).

Vandellia vogelii (Skan) Eb.Fisch., Schäferh. & Kai Müll. in Willdenowia 43: 235 (2013)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Pembe, praderas de Eyang Mbaha, estrada km 29-30, *Carvalho* 4833 (MA, MO, WAG).

Not previously reported from Equatorial Guinea.

LOGANIACEAE

Spigelia anthelmia L., Sp. Pl.: 149 (1753)

NE Naturalized

Native to Tropical & Subtropical America, naturalized in W. Tropical Africa and India.

Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata, entre Asonga e o Aeroporto, *Carvalho* 4635 (MA-597323, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 73).

Strychnos angolensis Gilg in Bot. Jahrb. Syst. 17: 571 (1893)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye (Senge), estrada km 40, sobre el puente del río Benito, *Carvalho* 6424 (MA-620508, WAG); Bata-praderas de Bome, *Carvalho* 5932 (MA-609923, WAG); 5038 (MA-598926, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 73).

Strychnos campicola Gilg ex Leeuwenb. in Meded. Landbouwhoogeschool

Wageningen 69(1): 74 (1969)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 73; 1999a: 119). We have not found any herbarium specimen supporting these records, nonetheless the distribution range and ecological requirements of the species makes its presence in the country reliable.

Strychnos canthioides Leeuwenb. in Meded. Landbouwhoogeschool Wageningen

69(1): 79 (1969)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Senye (Senge): Estrada km 27, bosque primario de Eboga, *Carvalho* 6184 (MA-619169, WAG).

Not previously reported from Equatorial Guinea.

Strychnos chrysophylla Gilg in Bot. Jahrb. Syst. 28: 119 (1901)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Senye (Senge), estrada km. 27, bosque primario de Eboga, *Carvalho* 6197 (MA-619239, WAG).

Not previously reported from Equatorial Guinea.

Strychnos elaeocarpa Gilg ex Leeuwenb. in Meded. Landbouwhoogeschool

Wageningen 69(1): 114 (1969)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province). Also known from Bioko.

Litoral: Bata-Senye (Senge), estrada km. 27, hacia la zona forestal de IBOGA, *Carvalho* 6392 (MA-620916, WAG).

Not previously reported from Río Muni.

Strychnos fallax Leeuwenb. in Meded. Landbouwhoogeschool Wageningen 69(1): 117 (1969)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bome: Pradera ao longo do rio Boara, *Carvalho* 4798 (MA-597875, MO, WAG); 5228 (MA-599497, MO, WAG).

Not previously reported from Equatorial Guinea.

Strychnos icaja Baill. in Adansonia sér.1 12: 368 (1879)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Leeuwenberg 1969: 137). We have not found any herbarium specimen supporting this record, nonetheless, the distribution range and ecological requirements of the species makes its presence in the country reliable.

Strychnos johnsonii Hutch. & M.B.Moss in Hutch. & Dalz., Fl. W. Trop. Afr. ii. 22, in clavi, 24 (1931)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Wele Nzaz (Lejoly & Lisowski 1998: 73; 1999a: 119). We have not found any herbarium specimen supporting these records.

Strychnos malacoclados C.H.Wright in Oliv. (ed.), Fl. Trop. Afr.4: I. 523 (1904)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Guinea 1946: 155). We have not found any herbarium specimen supporting this record.

Strychnos memecyloides S.Moore, Cat. Talbot 's Nigerian Pl.: 69 (1913)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Mbini: Estrada Km 13, zona forestal de Acan Bot Esaveng, *Carvalho* 6224 (MA-620613, WAG).

Strychnos phaeotricha Gilg in Bot. Jahrb. Syst. 36: 105 (1905)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye (Senge), estrada km. 27, bosque primario de Eboga, *Carvalho* 6206 (MA-619237, WAG).

Not previously reported from Equatorial Guinea.

Strychnos staudtii Gilg in Notizbl. Königl. Bot. Gart. Berlin 1: 182 (1896)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Crystal mountains, 11 km ENE of Okuamkos, *Wilks* 1786 (LBV, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 73). We have not found any herbarium specimen supporting this record, nonetheless the distribution range and ecological requirements of the species makes its presence in the country reliable.

Strychnos tricalysioides Hutch. & M.B.Moss in Hutch. & Dalz., Fl. W. Trop. Afr. 2: 21, in clavi, 24 (1931).

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Senye (Senge), estrada km 40, puente del río Benito, *Carvalho* 6436 (MA-620911, WAG); Bata-Bicomo, margens do río Ecucu, *Carvalho* 4819 (MA-597741, MO, WAG).

Not previously reported from Río Muni.

Strychnos urceolata Leeuwenb. in Acta Bot. Neerl. 14: 226 (1965)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye, estrada km 27 para Senge, *Carvalho* 6192 (MA-619291, WAG); Bata-Niefang, estrada km. 35, Adjape, entre los ríos Sama y Comayá, *Carvalho* 5773 (MA-599096, WAG).

Not previously reported from Equatorial Guinea.

Strychnos zenkeri Gilg ex Baker in Oliv. (ed.), Fl. Trop. Afr. 4: 529 (1904)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Senye-Mitom-Emangós, estrada kms. 67-68, *Carvalho 6524* (MA-620927, WAG). We have not found any herbarium specimen supporting this record, nonetheless the distribution range and ecological requirements of the species makes its presence in the country reliable.

Usteria guineensis Willd. in Ges. Naturf. Freunde Berlin Neue Schriften 10: 51 (1790)
NE Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Sendje, estrada km 40, río Benito [Wele], *Carvalho 5387bis* (MA-795331). Litoral: Beach S of Benito River, near Numi, *Bates, G.L. 580* (L); Bata-Senye, estrada km. 35-36, plantação de palmeiras do azeite, *Carvalho 4906* (MA-597576, MO, WAG); Bata-Senye, estrada km 40, chegada à ponte sobre o río Benito, *Carvalho 5387* (MA, MO, WAG); Bata-Pembe-Mbia-Dibolo, estrada kms. 26-27, *Carvalho 5296* (MA, MO, WAG); Bata-Pembe, estrada km. 18, *Carvalho 4847* (MA, MO, WAG). Wele Nzaz: region de Oyem, Acam, *Le Testu, G.M.P.C 9112* (WAG).

Previously reported from Río Muni without any precise locality (Hepper 1963: 46).

LORANTHACEAE

Agelanthus brunneus (Engl.) Balle & N.Hallé in Adansonia, ser. 2 1: 233 (1962)
NE Native
Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Río Utonde, praderas gramíneas entre aeropuerto y Río Utonde. *Carvalho 5231* (MA-599494, MO, WAG).

Previously reported from Centro Sur (Guinea 1946: 142).

Englerina gabonensis (Engl.) Balle in Kew Bull. 11: 168 (1956)
NE Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Praderas de Bome, *Carvalho 5818* (MA-610046, WAG). Wele Nzaz: Bianemajong, *Tessmann, G. B98* (K).

Previously reported from Río Muni without any precise locality (Hepper 1958: 659; Guinea 1946: 275).

Globimetula braunii (Engl.) Danser in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 29(6): 54 (1933)
NE Native
Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: 1 degree N, *Mann, G. 1833* (B, K).

Previously reported from Río Muni without any precise locality (Hepper 1958: 660).

Globimetula dinklagei (Engl.) Danser in Verh. Kon. Akad. Wetensch., Afd. Natuurk., Sect. 2 29(6): 55 (1933)
NE Native
Tropical Africa. Guineo-Congolian Region (UNigerian-Cameroonian Province, Congolian Province).

Litoral: forêt vers Monte Mitra, *Obama 311* (WAG).

Not previously reported from Equatorial Guinea.

Phragmanthera batangae (Engl.) Balle, Fl. Cameroun 23: 33 (1982)
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: près de la frontière gabonaise; chantier forestier à l'est de Cogo, *McPherson, G.D. 14009* (MO, WAG).

Not previously reported from Equatorial Guinea.

Phragmanthera capitata (Spreng.) Balle in Adansonia, ser. 2 1: 251, tab. 10 (1962)
NE Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: cabo San Juan, *Del Val s.n.* (MA-727695); Ndote, *Eneme Efua 254* (WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 73) and Río Muni without any precise locality (Hepper 1958: 664; Guinea 1946: 275).

MALPIGHIACEAE

Acridocarpus camerunensis Nied. in Arbeiten Bot. Inst. Königl. Lyceums Hosianum Braunsberg 6: 52 (1915)
VU Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Senye (Senge)-Mitom-Emangës, estrada kms. 67-68, *Carvalho 6506* (MA-621034).

Not previously reported from Equatorial Guinea.

Acridocarpus longifolius (G.Don) Hook.f., Niger Fl.: 244 (1849)
NE Native
Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian

Province). Also known from Bioko.

Litoral: Bata-Pembe, estrada kms. 18-19, *Carvalho* 5398 (MA-598451, MO).

Not previously reported from Equatorial Guinea.

Acridocarpus macrocalyx Engl. in Bot. Jahrb. Syst. 36: 250 (1902)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Senye (Senge), antigua explotación forestal de Exfosa, *Carvalho* 6093 (MA-619127); Bata-Senge, estrada km. 26, *Carvalho* 6067 (MA-619000).

Not previously reported from Río Muni.

Acridocarpus smeathmannii (DC.) Guill. & Perr., Fl. Seneg. Tent. 1: 124 (1831)

CR Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 73). We have not found any herbarium specimen supporting this record.

Flabellaria paniculata Cav., Diss. 9: 436, tab. 264 (1790)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Bome, *Carvalho* 4956 (MA-597721, MO, WAG).

Not previously reported from Río Muni.

Heteropterys leona (Cav.) Exell, Cat. Vasc. Pl. S. Tome: 123 (1944)

LC Native

Native to Tropical America and Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: río Ndote, *Eneme Efua* 311 (BATA, WAG); Bata- Bome, nas margens do río Boara, *Carvalho* 4702 (MA-597834, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 74).

MALVACEAE

Abelmoschus esculentus (L.) Moench, Methodus (Moench) 617 (1794)

NE Cultivated

Exact origin unknown. Probably native from Africa, where it has been cultivated for centuries.

Previously reported from Litoral (Lejoly & Lisowski 1998: 74). We have not found any herbarium specimen supporting this record, since widely cultivated and extended by the continental mainland of Africa, its presence in the country is quite probable.

Ancistrocarpus densispinosus Oliv. in J. Linn. Soc., Bot. 9: 174 (1867)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 132). We have not found any herbarium specimen supporting this record.

Bombax brevicuspe Sprague in Bull. Misc. Inform. Kew 306 (1909)

VU Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Niefang, estrada km. 35, zona de Adjape entre los Ríos Sama y Comayá, *Carvalho* 5746 (MA-599056).

Not previously reported from Equatorial Guinea.

Bombax buonopozense P.Beauv., Fl. Oware 2: 42, tab. 83 (1816)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bicuk-Bini, (Ctra Bata-Mbini), *Azizet Issembé*, Y. 47 (WAG).

Previously reported from Litoral (Guinea 1946: 157), Wele Nzaz (Guinea 1946: 145) and Río Muni without any precise locality (Hepper 1958: 334).

Ceiba pentandra (L.) Gaertn., Fruct. Sem. Pl. 2(2): 244, pl. 133, fig. 1 (1791)

LC Naturalized

Native to the Neotropic, broadly naturalized in the Paleotropic. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Litoral: Bata, servicio agronómico, *Guinea* 1150 (MA-727693); 1153 (MA-727692).

Previously reported from Litoral (Lejoly & Lisowski 1998: 25) and Wele Nzaz (Guinea 1946: 145)

Chlamydocola chlamydantha (K.Schum.) M.Bodard in J. Agric. Trop. Bot. Appl. 1: 313 (1954)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-

Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 128).

Christiana africana DC., Prodr. (DC.) 1: 516 (1824)

LC Native

Native to Tropical America and Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Kie Ntem: Nfuiñ concentrado a Ngomgom, *Cabezas & al.* 1374 (MA-831802). Wele Nzaz: Abama, 6 km au Nord de Nsork, *Obama & Lejoly* 586 (MA-612201).

Previously reported from Wele Nzaz (Lejoly & Lisowski 1998: 132).

Clappertonia ficifolia Decne., Icon. Sel. Pl. 5: 1, tab.1 (1846)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Río Campo, desembocadura del río Campo, *Pérez Viso* 2480 (MA-689866); Bata, Asonga, km. 3 carretera aeropuerto, *Castelo & al. s.n.* (MA-319752). Río Muni: [without locality], *Eneme Efua* 186 (BATA, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 132).

Clappertonia polyandra (K.Schum. ex Sprague) Bech. in Repert. Spec. Nov. Regni Veg. 28: 58 (1930)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzaz: Añisok, *Pérez Viso* 4167 (MA-689164).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 132) and Wele Nzaz (Lejoly & Lisowski 1998: 132; 1999a: 118). We have not found any herbarium specimen supporting these records.

Cola acuminata (P.Beauv.) Schott & Endl., Melet. Bot.: 83 (1832)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 129; Guinea 1946: 64b, 141), Litoral (Lejoly & Lisowski 1998: 129) and Wele Nzaz (Guinea 1946: 145). We have not found any herbarium specimen supporting these records.

Cola altissima Engl. in Bot. Jahrb. Syst. 39: 594 (1907)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Monte Alen, *Wilks 3512* (WAG). Litoral: Monts de Cristal, 10 km ENE d'Okuamkos, *Wilks 1816* (LBV, WAG).

Not previously reported from Equatorial Guinea.

Cola attiensis Aubrév. & Pellegr. in Bull. Soc. Bot. France 92: 255 (1946)

EN Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 129). We have not found any herbarium specimen supporting this record.

Cola digitata Mast. in Oliv. (ed.), Fl. Trop. Afr.1: 224 (1868)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Bong, senda hacia Engong, *Pérez Viso 323* (MA-689423); P.N. Monte Alén, Engong, camino del lago, *Velayos, Cabezas & M. Tellería 9996* (MA-705022); Monte Alen, subida al mirador, *Velayos & Pérez Viso 9284* (MA-701695). Litoral: Bata, Monte Alén, *Castelo & Juste s.n.* (MA-854323, 854334). Wele Nzas: Añisok-Mongola, *Pérez Viso 3734* (MA-687160).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 129), Litoral (Lejoly & Lisowski 1998: 129) and Wele Nzas (Lejoly & Lisowski 1998: 129).

Cola ficifolia Mast. in Oliv. (ed.), Fl. Trop. Afr. 1: 223 (1868)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Evinayong, *Guinea 253* (MA-715401).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 129) and Litoral (Lejoly & Lisowski 1998: 129).

Cola flavovelutina K.Schum. in Notizbl. Königl. Bot. Gart. Berlin 2: 306 (1899)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Litoral: Mt. John, Kongui river, *Mann, G. 1789* (K); Sendje, *Pérez Viso 3380* (MA-709075).

Not previously reported from Equatorial Guinea.

Cola gabonensis Mast. in Oliv. (ed.), Fl. Trop. Afr.1: 222 (1868)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: c. 11 km S of Bata, along coastal road and then 2 km along track in Southern direction, *Wilde, J.J.F.E. de 11991* (BATA, WAG); Bata-Bome, *Carvalho 5229* (MA-599496, MO, WAG); Bata-Bome, pradera ao longo do rio Boara, *Carvalho 4795* (MA-597874, MO, WAG). Río Muni: [without locality], *Eneme Efua 453* (BATA, WAG).

Not previously reported from Equatorial Guinea.

Cola glaucoviridis Pellegr. in Bull. Soc. Bot. France 97: 202 (1951)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 129) and Litoral (Lejoly & Lisowski 1998: 129). We have not found any herbarium specimen supporting this record.

Cola heterophylla (P.Beauv.) Schott & Endl. in Meletem. Bot. 33 (1832)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Etembue, Espigon (réserve de Ndote), *Obama & Lejoly 615* (MA-612187).

Previously reported from Litoral (Lejoly & Lisowski 1998: 129).

Cola pachycarpa K.Schum. in Bot. Jahrb. Syst. 15: 137 (1892)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, subida al monte Alén, *Pérez Viso 113* (MA-707474).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 129).

Cola rostrata K.Schum. in Bot. Jahrb. Syst. 33: 314 (1903)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 130) and Litoral (Lejoly & Lisowski 1998: 130). We have not found any herbarium specimen supporting these records.

Desplatsia chrysochlamys (Mildbr. & Burret) Mildbr. & Burret in Notizbl. Bot. Gart.

Berlin-Dahlem 9: 819 (1926).

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: region de Oyem, Aloum, *Le Testu, G.M.P.C 9102* (P).

Not previously reported from Equatorial Guinea.

Desplatsia dewevrei (De Wild. & T.Durand) Burret in Wiss. Erg. Deut. Zentr.-Afr. Exped., Bot. 2: 496 (1912)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata, *Trilles, H.L.M.P. 189* (P).

Not previously reported from Equatorial Guinea.

Desplatsia subericarpa Bocq. in Adansonia 7: 51 (1866)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Forêt dense Engong, *Eneme Efua 446* (BATA, WAG).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 132; 1999a: 119).

Duboscia macrocarpa Bocq. in Adansonia 7: 50 (1867)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Área de Machinda. Poblado de Ebenvene, *López Serrano 260329, 260330* (MA); Sofoge, *Azizet Issembé, Y. 25* (WAG). Wele Nzas: Akurenam-Melong, *Del Val s.n.* (MA-696876, 696877, 696881).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 133; Guinea 1946: 142), Litoral (Lejoly & Lisowski 1998: 133), Wele Nzas (Lejoly & Lisowski 1998: 132) and Río Muni without any precise locality (Hutchinson & Dalziel 1928: 243).

Duboscia viridiflora (K.Schum.) Mildbr., Wiss. Ergebn. Deutsch. Zentr. Afr. Exped. 1910-11 2: 59 (1922)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Utonde: Estrada kms. 21-22. Area da povoação de Ebeevang, *Carvalho 4730* (MA-597974, MO, WAG).

Eribroma oblongum (Mast.) Pierre ex A.Chev., Veg. Utiles Afrique Trop. Franc. 9: 78 (1917)

VU Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Bolondo: Estrada Km. 35-36, *Carvalho 5942* (MA-610007, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 130).

Glyphaea brevis (Spreng.) Monach. in Phytologia 2: 484 (1948)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Litoral: Bolondo, *Guinea 25-666* (MA-714139). Río Muni: [without locality], *Eneme Efua 300* (WAG); 424 (WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 133).

Gossypium hirsutum L., Sp. Pl. (ed. 2): 975 (1763)

VU Naturalized

Tropical America, naturalized worldwide in the Tropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 74). We have not found any herbarium specimen supporting this record.

Grewia coriacea Mast. in Oliv. (ed.), Fl. Trop. Afr. 1: 252 (1868)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Niefang, estrada km. 35, en la zona de Adjape, *Carvalho 5963* (MA-609133, WAG).

Previously reported from Río Muni without any precise locality (Hepper 1958: 303). We have not found any herbarium specimen supporting this record.

Grewia malacocarpa Mast. in Oliv. (ed.), Fl. Trop. Afr. 1: 253 (1868)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Niefang, estrada km. 35, empresa de madera de ABM con destino en zona de Comayá, *Carvalho 5643* (MA-598573, MO, WAG); Bata-Pembe, estrada km. 31,

próximo a Ntuba, *Carvalho 4810* (MA-597387, MO, WAG).

Not previously reported from Río Muni.

Grewia mollis Juss. in Ann. Mus. Natl. Hist. Nat. 4: 91 (1804)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Kie Ntem: Akam II, carretera hacia Nsok Nsomo, *Fero & Esono 120* (MA-808728).
Litoral: Bata-Bome, estrada km. 25-26, *Carvalho 4880* (MA-597842, MO, WAG).

Not previously reported from Equatorial Guinea.

Grewia oligoneura Sprague in Bull. Misc. Inform. Kew 1909: 22 (1909)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Niefang, entre Río Sama e Río Comayá, *Carvalho 5650* (MA-598554, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 133; Guinea 1946: 156).

Grewia pinnatifida Mast. in Oliv. (ed.), Fl. Trop. Afr. 1: 253 (1868)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 133). We have not found any herbarium specimen supporting this record.

Hibiscus cannabinus L., Syst. Nat., ed. 10 2: 1149 (1759)

NE Native

Tropical Africa, naturalized elsewhere in Asia and America. Africa.

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 74; 1999a: 119). We have not found any herbarium specimen supporting this record.

Hibiscus rosa-sinensis L., Sp. Pl. 2: 694 (1753)

NE Naturalized

Native to India, naturalized elsewhere in the Tropics. Also known from Annobón and Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 74). We have not found any herbarium specimen supporting this record.

Hibiscus squamosus Hochr. in Annuaire Conserv. Jard. Bot. Genève 4: 165 (1900)

DD Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Van der Burg 2013: 67)

Hibiscus surattensis L., Sp. Pl.: 696 (1753)

NE Native

Native to Tropical & Subtropical Old World. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Centro Sur: Enkumekie, carretera Niefang a Evinayong, *Pérez Viso* 4064 (MA-728363); P.N. Monte Alén, carretera de Moka a Bicurga, *Pérez Viso* 136 (MA-699536). Litoral: Ndote, *Eneme Efua* 288 (BATA, WAG); a unos 2 km de río Campo, en la carretera de río Campo a Bata, antes del puesto militar de Nejiacom, *Barberá & al.* 331 (MA-844495); costa Benito, *Guinea* 972 (MA-713569); Río Campo, desembocadura del río Campo, *Pérez Viso* 2484 (MA-713047). Wele Nzaz: Asok Tsumu, *Del Val s.n.* (MA-715682); Dumu, *Obama & Lejoly* 533 (MA-612118).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 75), Litoral (Lejoly & Lisowski 1998: 75) and Wele Nzaz (Lejoly & Lisowski 1998: 75; 1999a: 120).

Leptonychia echinocarpa K.Schum. in Engl. & Prantl (eds.), Nat. Pflanzenfam. Nachtr. 1: 242 (1897)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Niefang-Monte Alem, proximidades de pradera conhecida entre africanos como campo, *Carvalho* 5558 (MA-598775, MO).

Not previously reported from Equatorial Guinea.

Leptonychia lasiogyne K.Schum. in Engl. & Prantl (eds.), Nat. Pflanzenfam. Nachtr. 1: 241 (1897)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: near ECOFAC-Hotel, base of Mount Alen, *Wilde, J.J.F.E. de* 12031 (BATA, WAG).

Not previously reported from Río Muni.

Leptonychia moyesiae Cheek in Kew Bull. 68: 586 (2013)

NT Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 130). We have not found any herbarium specimen supporting this record.

Leptonychia pallida K.Schum. in Engl. & Prantl (eds.), Nat. Pflanzenfam. Nachtr. 1: 242 (1897)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 156). We have not found any herbarium specimen supporting this record.

Melochia melissifolia Benth. in J. Bot. (Hooker) 4: 129 (1842)

NE Naturalized

Native to Central & S. Tropical America, naturalized in W. Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Niefang: Mboete, km. 32, *Carvalho 5408* (MA-598314).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 130).

Pachira aquatica Aubl., Hist. Pl. Guiane 2: 726-727, pl. 291-292 (1775)

LC Cultivated

Native to the Neotropic, naturalized in Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 25). We have not found any herbarium specimen supporting this record.

Pterygota augouardii Pellegr. in Bull. Mus. Natl. Hist. Nat. sér.1 29: 592 (1923)

CR Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 130). We have not found any herbarium specimen supporting this record.

Pterygota bequaertii De Wild. in Compt.-Rend. Séances Mém. Soc. Biol. 82: 1397, 1398 (1919)

VU Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: region de Oyem, Aloum, *Le Testu, G.M.P.C 9103* (WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 130).

Scaphopetalum blackii Mast. in J. Linn. Soc., Bot. 10: 29. t. 2 (1869)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Mt. John, Kongui river, *Mann, G. 1838* (K). Río Muni: [without locality], *Eneme Efua 202* (WAG). Wele Nzas: Obamico (Parque N. de Nsork), *Nguema Ekomo, D 276* (WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 131).

Scaphopetalum longipedunculatum Mast. in J. Linn. Soc., Bot. 10: 28, tab. 3 (1869)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Mt. John, Kongui river, *Mann, G. 1836* (K)

Not previously reported from Equatorial Guinea.

Scaphopetalum mannii Mast. in J. Linn. Soc., Bot. 10: 29. t. 3 (1869)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Mt. John, Kongui river, *Mann, G. 1837* (K)

Previously reported from Litoral (Lachenaud *et al.* 2018: 407)

Scaphopetalum obiangianum M.E. Leal in Blumea 52: 137 (2007)

DD Endemic

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Monte Alen National Park, Monte Mitra, *Leal, M. E. 846* (MO).

Previously reported from Centro Sur (Leal 2007: 137). This species is only known from the type collection. The application of the IUCN rules indicate it should be considered at least as Vulnerable since its distribution range is smaller than 20 km². Nonetheless we adopt a conservative approach and will not include it in the threatened list of species from Río Muni until further studies clarify its taxonomic situation.

Scaphopetalum thonneri De Wild. & T.Durand in Bull. Herb. Boissier 5: 523 (1897)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 131), Litoral (Lejoly & Lisowski 1998: 131) and Wele Nzas (Lejoly & Lisowski 1998: 131). We have not found any herbarium specimen supporting this record.

Sida acuta Burm.f., Fl. Ind.: 147 (1768)

NE Native

Native to the Tropics & Subtropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Karroo Namib Region; Madagascan Region. Also known from Annobón and Bioko.

Kie Ntem: alrededores del poblado de Obot Nku-Eseng, a 7 km de Nsok Nsomo, *Barberá & al.* 184 (MA-831454); Akam, *Fero & Esono* 93 (MA-808316). Litoral: Área de Mbini. Poblado de Mbomo y Bikubini, *López Serrano* 160411 (MA); Área de Machinda, poblado de Ebenvene, *López Serrano* 260326, 260327 (MA); Área de Mbini, poblado de Bilen, Bitica y Mboete, *López Serrano* 190424, 190425, 190426, 190427 (MA); Corisco, *Pérez Viso* 1892 (MA-710145); Bata-Dibolo, estrada kms. 40-50 en dirección a Río Campo, *Carvalho* 5147 (MA-599717, MO, WAG). Río Muni: [without locality], *Eneme Efua* 179 (BATA, WAG); 397 (BATA, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 75) and Litoral (Lejoly & Lisowski 1998: 75; Guinea 1946: 159).

Sida alba L., Sp. Pl. (ed. 2) 2: 960 (1763)

NE Native

Native to Africa and Arabian Peninsula. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Karroo Namib Region; Madagascan Region. Also known from Annobón.

Litoral: Benito, playa, *Guinea* 262 (MA-387029).

Previously reported from Litoral (Lejoly & Lisowski 1998: 75).

Sida linifolia Juss. ex Cav., Diss. 1: 14, tab. 2, fig. 1 (1785)

NE Native

Native to Tropical & Subtropical America and Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata: Bata-Asonga. Pradera frontal às caracolas da Cooperacion, *Carvalho* 4655 (MA-597280, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 75).

Sida rhombifolia L., Sp. Pl.: 684 (1753)

NE Native

Native to Tropical & Subtropical Old World, naturalized specially in Tropical America. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Karroo Namib Region; Cape Region; Madagascan Region. Also known from Annobón and Bioko.

Río Muni: El Muni, [collector unknown] s.n. (MA-267538).

Previously reported from Litoral (Lejoly & Lisowski 1998: 75).

Sterculia tragacantha Lindl. in Edwards's Bot. Reg. 16, tab. 1353 (1830)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Kie Ntem: Nfuiñ, a 29 km de Nsoc Nsomo por la pista que va hacia Bata, *Cabezas & al.* 1373 (MA-831801); Nsoc Nsomo, Mocomo, *Cabezas & al.* 1279 (MA-831869).

Litoral: Bikukbinii, *Wilks* 3556 (WAG); Área de Machinda, poblado de Njacom, *López Serrano* 120302, 120301 (MA); Área de Mbini. Poblado de Ncuesis, *López Serrano* 090512, 090513, 090514, 090515 (MA); Bata-Senye (Senge): Estrada km 25, *Carvalho* 6347 (MA-620814); Bata-Senye: Estrada kms. 19-20, *Carvalho* 5078 (MA-599171, MO, WAG); Río Muni: [without locality] *Eneme Efua* 428 (BATA, WAG); [without locality] *Eneme Efua* 257 (WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 131; Guinea 1946: 154) and Wele Nzas (Lejoly & Lisowski 1998: 131; 1999a: 120; Guinea 1946: 145).

Talipariti tiliaceum (L.) Fryxell in Contr. Univ. Michigan Herb. 23: 258 (2001)

LC Native

Native to Tropical & Subtropical Old World. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region. Also known from Bioko.

Litoral: Bata-Dibolo, estrada km. 70-71, Dibolo, desembocadura del río Cone, *Carvalho* 4901 (MA-597581, MO, WAG); costa litoral, cabo San Juan, *Guinea* 258 (MA-387094); 410 (MA-387093); [without locality] *Eneme Efua* 426 (WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 75).

Theobroma cacao L., Sp. Pl.: 782 (1753)

NE Cultivated

Native to Central America and N South America, cultivated and naturalized elsewhere in the Tropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Litoral: Área de Mbini. Poblado de Ncuesis, *López Serrano* 090509, 090510, 090511 (MA).

Triumfetta cordifolia Guill., Perr. & A. Rich., Fl. Seneg. Tent. 1: 91, tab. 18 (1831)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Centro Sur: Ayene concentrado, *Cabezas 107* (MA-695685). Litoral: carretera forestal del Espigon, *Eneme Efua 332* (BATA, WAG); Bata-Pembe, estrada kms. 33. Matorral secundario dos sub-rbios da povoação de Pembe, *Carvalho 4834* (MA-597688, MO, WAG); Benito, *Guinea 232* (MA-387045).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 133; Guinea 1946: 288d) and Litoral (Lejoly & Lisowski 1998: 133).

Triumfetta rhomboidea Jacq., Enum. Syst. Pl. 22 (1760)

NE Native

Native to Tropical & Subtropical Old World. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Annobón and Bioko.

Centro Sur: P.N. Monte Alén, carretera de Moka a Bicurga, *Pérez Viso 139* (MA-699535); P.N. Monte Alén, senda que va desde Misergue hasta el río Laña, *Pérez Viso 188* (MA-689420). Kie Ntem: Nsoc Nsomo, Mocomo, *Cabezas & al. 1283* (MA-831838). Litoral: carretera forestal del Espigon, *Eneme Efua 358* (WAG); Corisco, *Pérez Viso 1873* (MA-710135); *1887* (MA-710138); Ondo, km. 8 de la carretera del puerto, *Pérez Viso 3820* (MA-687713); Benito, *Guinea 456-1019* (MA-387047); Etembue, aeródromo, *Guinea 497-625* (MA-387046). Río Muni: [without precise locality], *J. Nosti s.n.* (MA-712880); Región del Mafanebú [bosques entre Centro Sur y Wele Nzás], *Guinea 220* (MA-387030). Wele Nzás: Alum, entre Mikomeseng y Nkue, *Pérez Viso 3060* (MA-710133).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 133), Litoral (Lejoly & Lisowski 1998: 133) and Wele Nzás (Guinea 1946: 184k).

Urena lobata L., Sp. Pl.: 692 (1753)

LC Native

Native to the Tropics & Subtropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: P.N. Monte Alén, carretera Monte Alén-Moka, *Velayos & al. 9469* (MA-713015); P.N. Monte Alén, Misergue-Churu, *Pérez Viso 1636* (MA-687685); P.N. Monte Alén, carretera de Moka a Bicurga, *Pérez Viso 128* (MA-699532); *131* (MA-699539). Litoral: Bata-Niefang, estrada kms. 11-12, *Carvalho 4788* (MA-597931, MO, WAG); Río Campo, cerca de Bongoro, *Pérez Viso 2226* (MA-710146); costa Benito, *Guinea 263* (MA-387116); *544* (MA-713556); *970* (MA-713567); Área de Mbini, poblado de Mangala y Ncuá- Esis, *López Serrano 130421, 130422* (MA); Mechenque, Río Benito, *Del Val s.n.* (MA-713574); carretera de Bata a Mbini, proximidades del cruce Mbini-Bolondo, ca. 17 km desde Bata, *M. Fero & al. 272* (MA-844615). Wele Nzás: Asok Tsumu, *Del Val s.n.* (MA-715683, 715684, 715685); Bimbile, *Guinea 212* (MA-387117).

Previously reported from Litoral (Lejoly & Lisowski 1998: 75).

MELASTOMATACEAE

Amphiblemma molle Hook.f. in Oliv. (ed.), Fl. Trop. Afr. 2: 456 (1871)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Servicio Agronómico de Evinayong, *Guinea* 250-509 (MA-688866). Wele Nzaz: Acurenam, *Guinea & Del Val* 976 (MA-688882); 978 (MA-688880).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 76; Parmentier & Geerinck 2003: 335) and Wele Nzaz (Parmentier & Geerinck 2003: 335).

Antherotoma irvingiana (Hook.f.) Jacq.-Fél. in Bull. Mus. Natl. Hist. Nat., sect B Ser. 4, 16(4): 270 (1994)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province)

Wele Nzaz: cerro cúpula de Asoc, cerca de Kukumankok, *Guinea* 5 (MA-702234); 422 (MA-702235); 425 (MA-702233); inselberg Asoc, *Obama & Lejoly* 480 (MA-612111); inselberg Akuom (6 Km à l'est de Nsuamayong), *Obama & Lejoly* 628 (MA-612186).

Previously reported from Centro Sur (Parmentier & Geerinck 2003: 335) and Wele Nzaz (Lejoly & Lisowski 1998: 78; 1999a: 118; Parmentier & Geerinck 2003: 335).

Calvoa hirsuta Hook.f. in Trans. Linn. Soc. London 28: 78 (1871)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alen, dalle rocheuse à 3 km l'O de ECOFAC, *Lejoly* 99/048 (MA-621793).

Previously reported from Centro Sur (Parmentier & Geerinck 2003: 335; Lejoly & Lisowski 1998: 76), Litoral (Jacques-Félix 1981: 134; Parmentier & Geerinck 2003: 335; Lejoly & Lisowski 1998: 76) and Wele Nzaz (Parmentier & Geerinck 2003: 335).

Calvoa jacques-felixii Figueiredo in Bot. J. Linn. Soc. 136(2): 196 (2001)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Wele Nzaz: Los Bimbiles, *Guinea* 244-140 (MA-689294).

Previously reported from Wele Nzaz (Parmentier & Geerinck 2003: 336), although locating the same collection, by mistake, in Bioko.

Calvoa monticola A.Chev. ex Hutch. & Dalz., Fl. W. Trop. Afr. 1: 209 (1927)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, 3 km au NO de Engong, *Lejoly 99/155* (MA-621702).

Litoral: Bata-Sendje (Senye), estrada km. 40, puente sobre el Río Benito, *Carvalho 5287* (MA-597976, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 76; Parmentier & Geerinck 2003: 336), Litoral (Parmentier & Geerinck 2003: 336) and Wele Nzas (Parmentier & Geerinck 2003: 336).

Calvoa orientalis Taub., Abh. Königl. Akad. Wiss. Berlin 46 (1894)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 76; Parmentier & Geerinck 2003: 336) and Litoral (Lejoly & Lisowski 1998: 76). We have not found any herbarium specimen supporting this record.

Calvoa pulcherrima Gilg ex Engl. in Engl. & Drude, Veg. Erde 3: II (1921)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Ngong, subida hasta Akwaosí, *Cabezas 166* (MA-695763). Kie Ntem: Nfuiñ, a 29 km de Nsoc Nsomo por la pista que va hacia Bata, *Cabezas & al. 1313* (MA-831764). Wele Nzas: inselberg de Mfui, 50 km à l'E de Añisok, *Obama & Lejoly 367* (MA-612042).

Previously reported from Centro Sur (Parmentier & Geerinck 2003: 336; Lejoly & Lisowski 1998: 76) and Wele Nzas (Parmentier & Geerinck 2003: 336; Lejoly & Lisowski 1998: 76; 1999a: 118).

Calvoa sapinii De Wild., Compagnie du Kasai: 377 (1910)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Parmentier & Geerinck 2003: 336). We have not found any herbarium specimen supporting this record.

Calvoa seretii De Willd. in Bull. Jard. Bot. État Bruxelles 5: 81 (1915) subsp. **seretii**

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Parmentier & Geerinck 2003: 336). We have not found any herbarium specimen supporting this record.

Calvoa trochainii Jacq.-Fél. in Bull. Mus. Natl. Hist. Nat., Ser. 2 10: 639 (1939)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 76) and Litoral (Lejoly & Lisowski 1998: 76). We have not found any herbarium specimen supporting this record.

Dicellandra barteri Hook.f. in Benth. & Hook.f., Gen. Pl. 1: 757 (1867)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Esamalang, *Pérez Viso* 3270 (MA-745723); cascada de Evinayong, *Guinea* 239-507 (MA-688872). Litoral: Bata-Niefang, estrada km. 35, en la zona de Adjape, *Carvalho* 5960 (MA-609136, WAG); P.N. Monte Alén, cabaña de el Lago, *Velayos & al.* 9524 (MA-688870). Wele Nzas: Nsung Fandong, a 65 km. de Nkue, *Pérez Viso* 3133 (MA-745721); Nsum Esangüi, *Pérez Viso* 3647 (MA-688874); entre Nsnameyong et inselberg Akuom, *Obama & Lejoly* 409 (MA-612116).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 77; Guinea 1946: 341, 344a; Parmentier & Geerinck 2003: 336), Litoral (Parmentier & Geerinck 2003: 336; Lejoly & Lisowski 1998: 77) and Wele Nzas (Guinea 1946: 152; Lejoly & Lisowski 1998: 77; Parmentier & Geerinck 2003: 336)

Plants from Río Muni have been referred both to var. *barteri*, and to var. *escherichii* (Gilg) Jacq.-Fél. in *Adansonia*, sér. 2 14(1): 94 (1974).

Dicellandra descoingsii Jacq.-Fél. in *Adansonia*, sér. 2, 14(1): 96 (1974)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Parmentier & Geerinck 2003: 337), Litoral (Lejoly & Lisowski 1998: 77; Parmentier & Geerinck 2003: 337) and Wele Nzas (Parmentier & Geerinck 2003: 337). We have not found any herbarium specimen supporting this record.

Dichaetanthera africana (Hook.f.) Jacq.-Fél. in Bull. Soc. Bot. France 102: 38 (1955)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Evinayong, borde de camino de Cogo, *Guinea* 493-118 (MA-688892). Kie Ntem: carretera que va de Nsok Nsomo a Nfuin, a unos 5 km de Nsok Nsomo, *Barberá & al.* 194 (MA-831444). Litoral: Bata-Mbubuin-San Joaquin de Ndyjacon e Ayamiken,

estrada km. 4 de San Joaquin, *Carvalho* 4969 (MA-599206, MO, WAG).

Previously reported from Centro Sur (Parmentier & Geerinck 2003: 337; Guinea 1946: 341), Litoral (Parmentier & Geerinck 2003: 337), Wele Nzas (Parmentier & Geerinck 2003: 337) and Río Muni without any precise locality (Hepper 1954: 249; Hutch. & Dalz. 1928: 209; Guinea 1946: 146).

Dichaetanthera corymbosa (Cogn.) Jacq.-Fél. in Bull. Soc. Bot. France 102: 38 (1955)
LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 77). We have not found any herbarium specimen supporting this record.

Dinophora spenneroides Benth., Niger Fl. 355 (1849)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Miyobo, carretera Niefang-Mosumu, senda hacia el río Laña, *Pérez Viso* 2531 (MA-745726); Nfing Ntagan, poblado en la carretera forestal de Niefang a Bata, a continuación de Mosumu, *Pérez Viso* 2747bis (MA-727380); P.N. Monte Alén, Ocuam, *Pérez Viso* 614 (MA-713666); P.N. Monte Alén, Ayene, *Pérez Viso* 657 (MA-713939); P.N. Monte Alén, Mosumu, alrededores de las cataratas del río Uoro, *Pérez Viso* 376 (MA-688878); Añisok-Mongola, *Pérez Viso* 1486 (MA-713667); Mosumu, *Pérez Viso* 3483 (MA-688883); Oyac Esom, *Pérez Viso* 3450 (MA-688885). Litoral: Bata-Kogo, km 67, *Pérez Viso* 1839 (MA-713019); Bata-Sendje (Senye), estrada kms. 23-24, *Carvalho* 5255 (MA-598014, MO, WAG); Bata-Niefang, márgenes del Río Sama, *Carvalho* 5574 (MA-598565, MO, WAG); Utonde, *Guinea* 403 (MA-688894); 401 (MA-688895); Bata-Río Campo, estrada km. 48-49, *Carvalho* 4675 (MA-597455, MO, WAG); Ecuco, *Guinea* 252 (MA-688896); Área de Machinda, poblado de Ayamiken, *López Serrano* 190306, 190306bis (MA); Río Campo, cerca de Bongoro, *Pérez Viso* 2199 (MA-713676); Aerodromo, *Guinea* 463 (MA-688893). Wele Nzas: Añisok-Mongola, *Pérez Viso* 3756 (MA-688877); Eviam, carretera forestal de Bata a Niefang, *Pérez Viso* 2579 (MA-745720).

Previously reported from Centro Sur (Parmentier & Geerinck 2003: 337), Kie Ntem (Parmentier & Geerinck 2003: 337), Litoral (Guinea 1946: 178, 340, 341; Parmentier & Geerinck 2003: 337), Wele Nzas (Parmentier & Geerinck 2003: 337; Guinea 1946: 152; Lejoly & Lisowski 1998: 77) and Río Muni without any precise locality (Guinea 1951: 184).

Dissotis congolensis (Cogn.) Jacq.-Fél. in *Adansonia*, sér. 2 20(4): 424 (1981)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Aeródromo de Bata, *Guinea* 253-631 (MA-689293); Bata-Bome, *Carvalho* 4670 (MA-597518, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 77; Parmentier & Geerinck 2003: 338; *Guinea* 1946: 178).

Dissotis thollonii Cogn. ex Büttner in Verh. Bot. Vereins Prov. Brandenburg 31: 96 (1889)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Monte Alén, praderas pasado el mirador, *Cabezas* 132 (MA-695703).

Previously reported from Centro Sur (Parmentier & Geerinck 2003: 338).

Dupineta hensii (Cogn.) Veranso-Libalah & G.Kadereit in *Taxon* 66(3): 607 (2017)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzaz: inselberg de Mfui, 50 km à l'E de Añisok, *Obama & Lejoly* 356 (MA-612043); entre Nsuameyong et inselberg Akuom, *Obama & Lejoly* 449 (MA-612034).

Previously reported from Centro Sur (Parmentier & Geerinck 2003: 338) and Wele Nzaz (Lejoly & Lisowski 1999a: 119; Parmentier & Geerinck 2003: 338).

Dupineta multiflora (Sm.) Raf., *Sylva Tellur.* 101 (1838)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Miyobo, carretera Niefang-Mosumu, senda hacia el río Laña, *Pérez Viso* 2520 (MA-745725); Evinayong, *Guinea* 110 (MA-702240), 111 (MA-702237), 112 (MA-702236), 122 (MA-702238), 482-123 (MA-688869), 483-122 (MA-688868).

Litoral: Sendje, *Pérez Viso* 3369 (MA-688887). Wele Nzaz: Bimbile, *Guinea* 35 (MA-702239); Acurenam, *Guinea & Del Val* 979 (MA-688879).

Previously reported from Litoral (Lejoly & Lisowski 1998: 78) and Wele Nzaz (Parmentier & Geerinck 2003: 338).

Guyonia arenaria (Jacq.-Fél.) Veranso-Libalah & R.D.Stone in *Taxon* 66(3): 607 (2017)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Etembue, *Guinea* 227-915 (MA-688867).

Previously reported from Litoral (Parmentier & Geerinck 2003: 338; Lejoly & Lisowski 1998: 78; 1999b: 185; Lachenaud *et al.* 2018: 410).

Guyonia ciliata Hook.f. in Oliv. (ed.), Fl. Trop. Afr. 2: 443 (1871)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Río Muni: Región del Mafanebú [bosques entre Centro Sur y Wele Nzás], *Guinea* 189 (MA-702241).

Previously reported from Centro Sur (Parmentier & Geerinck 2003: 338).

Guyonia rupicola (Gilg ex Engl.) Veranso-Libalah & R.D.Stone in Taxon 66(3): 608 (2017)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alen, 5 km au NO de Engong, *Lejoly* 99/081 (MA-621788).

Previously reported from Centro Sur (Lejoly & Lisowski 1999b: 188; Parmentier & Geerinck 2003: 339).

Heterotis buettneriana (Cogn.) Jacq.- Fél. in Adansonia sér. 2, 20(4): 418 (1981)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senge, estrada km. 38, Bibogo, *Carvalho* 6279 (MA-620439, WAG).

Not previously reported from Equatorial Guinea.

Heterotis decumbens (P.Beauv.) Jacq.-Fél. in Adansonia, sér. 2 20(4): 418 (1981)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Enkumekie, carretera de Monte Alén a Evinayong, *Pérez Viso* 3567 (MA-688875). Litoral: Miboman, a 22 km. de Bata, *S. Castroviejo* 916 (MA-689291); Costa Ubonde Bata, *Guinea & Del Val* 229 (MA-688873); Conisio, distrito de Kogo, *Obama* 733 (WAG). Río Muni: [without locality], *Eneme Efua* 374 (WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1999b: 188; Parmentier & Geerinck 2003: 338), Litoral (Parmentier & Geerinck 2003: 338; *Guinea* 1946: 176b; Lejoly & Lisowski 1999b: 188) and Wele Nzás (Lejoly & Lisowski 1999b: 188).

Heterotis prostrata (Thonn.) Benth., Niger Fl. 349 (1849)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alen, dalle rocheuse 3 km l'O de ECOFAC, *Lejoly 99/028* (MA-621780).

Previously reported from Centro Sur (Lejoly & Lisowski 1999b: 188; Parmentier & Geerinck 2003: 339) and Wele Nzas (Lejoly & Lisowski 1999b: 188; Parmentier & Geerinck 2003: 339).

Heterotis rotundifolia (Sm.) Jacq.-Fél. in *Adansonia*, sér. 2 20(4): 417 (1981)
LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Área de Mbini. Poblado de Bilen, Bitica y Mboete, *López Serrano 190403, 190404, 190405* (MA); Bata-Bome, *Carvalho 4668* (MA-597516, MO, WAG).

Previously reported from Centro Sur (Guinea 1946: 340) and Litoral (Lejoly & Lisowski 1998: 78; 1999a: 101).

Medinilla mannii Hook.f. in Oliv. (ed.), *Fl. Trop. Afr.* 2: 460 (1871)
NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Parmentier & Geerinck 2003: 339), Litoral (Guinea 1946: 157) and Wele Nzas (Parmentier & Geerinck 2003: 339). We have not found any herbarium specimen supporting this record.

Medinilla mirabilis (Gilg) Jacq.-Fél. in *Adansonia*, n.s. 17(1): 77–78 (1977)
NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 78; Parmentier & Geerinck 2003: 339; Guinea 1946: 341), Litoral (Parmentier & Geerinck 2003: 339) and Wele Nzas (Guinea 1946: 150). We have not found any herbarium specimen supporting this record.

Memecylon aequidianum Jacq.-Fél. in *Adansonia*, sér. 2 18(4): 430 (1979)
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 79; Parmentier & Geerinck 2003: 339) and Wele Nzas (Parmentier & Geerinck 2003: 339). We have not found any herbarium specimen supporting this record.

Memecylon arcuatomarginatum Gilg ex Engl. in Engl. & Drude, *Veg. Erde* 3: II. (1921)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 79). We have not found any herbarium specimen supporting this record.

Memecylon candidum Gilg in Engl., Monogr. Afrik. Pflanzen-Fam. 2: 43 (1898)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Parmentier & Geerinck 2003: 339). We have not found any herbarium specimen supporting this record.

Memecylon collinum Jacq.-Fél. in Adansonia, sér. 2 18(4): 420 (1979)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Wele Nzas: Cucumancoc, dalle rocheuse Mungum, *Lejoly* 99/368 (MA-621697).

Previously reported from Kie Ntem (Parmentier & Geerinck 2003: 339) and Wele Nzas (Lejoly & Lisowski 1998: 79; 1999a: 120; Parmentier & Geerinck 2003: 339).

Memecylon englerianum Cogn., Monogr. Phan. 7: 1195 (1891)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Guinea 1946: 341). We have not found any herbarium specimen supporting this record.

Memecylon erythranthum Gilg in Engl., Monogr. Afrik. Pflanzen-Fam. 2: 45 (1898)

NT Introduced.

Native to E of Tanzania and E of Zimbabwe, probably introduced in Equatorial Guinea

Previously reported from Centro Sur (Guinea 1946: 146) and Wele Nzas (Guinea 1946: 146). We have not found any herbarium specimen supporting this record.

Memecylon klaineianum Jacq.-Fél. in Adansonia, sér. 2 18(4): 422 (1979)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Moka-Monte Alén, monte escolhido pela televisão para a instalação de uma antena, *Carvalho* 5114 (MA, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 79; Parmentier & Geerinck 2003: 339).

Memecylon laurentii De Wild. in Ann. Mus. Congo Belge. Bot., Ser. 5 2: 332 (1908)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bome, *Carvalho* 5299 (MA-598114, MO, WAG). Río Muni: [without locality], *Obama* 346 (WAG).

Previously reported from Centro Sur (Parmentier & Geerinck 2003: 340).

Memecylon myrianthum Gilg in Engl. in Monogr. Afrik. Pflanzen-Fam. 2: 44 (1898)
NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 79). We have not found any herbarium specimen supporting this record, nonetheless, the distribution range and ecological requirements of the species makes its presence in the country reliable.

Memecylon nodosum (Engl.) Gilg ex Engl. in Engl. & Drude, Veg. Erde 9(III.2): 768 (1921)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Parmentier & Geerinck 2003: 340). We have not found any herbarium specimen supporting this record.

Memecylon salicifolium Jacq-Fél., Fl. Gabon 25: 136 (1983)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senge-Mitom-Emangós, estrada kms. 62-63, suburbios de la población de Emangós, *Carvalho* 6441 (MA-635355).

Memecylon virescens Hook.f. in Oliv. (ed.), Fl. Trop. Afr. 2: 463 (1871)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Niefang: Estrada Km. 35. Estrada madeireira que conduce a la zona de Comayá, *Carvalho* 5684 (MA-598987).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 79; Parmentier & Geerinck 2003: 340) and Litoral (Parmentier & Geerinck 2003: 340).

Memecylon viride Hutch. & Dalz., Fl. W. Trop. Afr. 1: 214 (1927)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 79; Parmentier & Geerinck 2003: 340). We have not found any herbarium specimen supporting this record.

Memecylon zenkeri Gilg in Engl., Monogr. Afrik. Pflanzen-Fam. 2: 43 (1898)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Parmentier & Geerinck 2003: 340). We have not found any herbarium specimen supporting this record.

Nothodissotis alenensis Veranso-Libalah & O.Lachenaud in PhytoKeys 118: 97 (2019)

NE Endemic

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Veranso-Libalah *et al.* 2019: 97, 98). We have not found any herbarium specimen supporting this record.

Nothodissotis barteri (Hook.f.) Veranso-Libalah & G.Kadereit in PhytoKeys 118: 89 (2019)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Wele Nzas (Veranso-Libalah *et al.* 2019: 96; Parmentier & Geerinck 2003: 336). We have not found any herbarium specimen supporting this record.

Ochthocharis dicellandroides (Gilg) C.Hansen & Wickens in Kew Bull. 36(1): 23 (1981)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, subida al mirador, *Velayos & al.* 10028 (MA-707055); Alosa, Niefang, *Castelo & Juste s.n.* (MA-689292). Litoral: Bata-Mbini, estrada km. 24 en el poblado de Anguok, *Carvalho* 6367 (MA-620603, WAG); Bata-Micomeseng, estrada km. 157, zona de la población de Midjomitom, *Carvalho* 6325 (MA-620562); Bata-Niefang, estrada kms. 38-39, *Carvalho* 5407 (MA-598315, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 80), Litoral (Lejoly & Lisowski 1998: 80) and Wele Nzas (Lejoly & Lisowski 1998: 80; Parmentier & Geerinck 2003: 340).

Osbeckia tubulosa Sm., Cycl: 25 (1819)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Previously reported from Wele Nzaz (Guinea 1946: 184k). We have not found any herbarium specimen supporting this record.

Spathandra blakeoides (G.Don) Jacq.-Fél. in *Adansonia*, sér. 2 18(2): 225 (1978)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Bome, nas margens do rio Boara, *Carvalho* 4715 (MA, MO, WAG).

Previously reported from Litoral (Parmentier & Geerinck 2003: 340).

Tristemma albiflorum (G.Don) Benth., *Niger Fl.* 353 (1849)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 178). We have not found any herbarium specimen supporting this record.

Tristemma demeusei De Wild. in *Ann. Mus. Congo Belge. Bot.*, Ser. 5 1: 299 (1906)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Parmentier & Geerinck 2003: 340) and Wele Nzaz (Lejoly & Lisowski 1998: 80). We have not found any herbarium specimen supporting this record.

Tristemma hirtum P.Beauv., *Fl. Oware* 1: 94 (1807)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, alrededores del lago Atok, *Pérez Viso* 17 (MA-691261); Acurenam, alrededor, *Del Val s.n.* (MA-696898); Monte Alén, subida al mirador, *Cabezas* 127 (MA-695660). Kie Ntem: Nfuiñ, a 29 km de Nsok Nsomo por la pista que va hacia Bata, *Cabezas & al.* 1375 (MA-831803). Litoral: desembocadura del río Campo, *Pérez Viso* 2164 (MA-713675); Bolondo, *Guinea* 256-689 (MA-688901); Ecuco, *Guinea* 409 (MA-688900); 259-751 (MA-688898); Etembue, *Guinea* 423 (MA-688899); Eyan Bot, km. 12 de la carretera del puerto a Kogo, *Pérez Viso* 3541 (MA-688876); costa Bata, *Guinea & Del Val* 661 (MA-688889); Pradera de Baga, *Eneme Efua* 361 (BATA, WAG).

Previously reported from Litoral (Guinea 1946: 340; Parmentier & Geerinck 2003: 340; Jacques-Félix 1976: 165; Lejoly & Lisowski 1998: 80) and Wele Nzaz (Parmentier & Geerinck 2003: 340; Lejoly & Lisowski 1998: 80; 1999a: 120).

Tristemma littorale subsp. **biafranum** Jacq.-Fél. in *Bull. Mus. Natl. Hist. Nat.*, sér. 3, n° 418, Bot. 28: 185 (1977)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, desde Misergue hasta el río Laña, *Pérez Viso* 3230 (MA-745724). Río Muni: [without locality], *Eneme Efua* 378 (WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 80), Litoral (Lejoly & Lisowski 1998: 80; Parmentier & Geerinck 2003: 341; Guinea 1946: 176b, 340) and Wele Nzas (Parmentier & Geerinck 2003: 341).

Tristemma mauritianum J.F.Gmel., Syst. Nat., ed. 13[bis] 2(1): 693 (1791)

NE Native

Tropical Africa and Madagascar. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Esamalang, *Pérez Viso* 3308 (MA-688886); Bicaba, carretera de Niefang a Monte Alén, *Pérez Viso* 3459 (MA-688884); P.N. Monte Alén, 5 km. au NO de Engong, inselberg, *Lejoly* 99/066 (MA-621708). Litoral: Bata-Senye (Senge), estrada km. 27, *Carvalho* 6167 (MA-619175, WAG).

Previously reported from Centro Sur (Parmentier & Geerinck 2003: 341), Litoral (Lejoly & Lisowski 1998: 80; Parmentier & Geerinck 2003: 341; Guinea 1946: 157) and Wele Nzas (Parmentier & Geerinck 2003: 341).

Tristemma oreophilum Gilg in Engl., Monogr. Afrik. Pflanzen-Fam. 2: 25 (1898)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Esamalang pasado el cruce a Moka desde el Lago, *Velayos & al.* 9552 (MA-688871). Litoral: Nco, 20 km ENE vers la riv. Mitong, *N. Nguema & Lejoly* 156 (MA-611887).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 80; Parmentier & Geerinck 2003: 341), Litoral (Parmentier & Geerinck 2003: 341) and Wele Nzas (Parmentier & Geerinck 2003: 341).

Tristemma rubens A.Fern. & R.Fern. in Bol. Soc. Brot., Ser. 2 29: 47 (1955)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Route de Nco vers Misobong au niveau de la grande cascade, *N. Nguema & Lejoly* 198 (MA-611882).

Previously reported from Centro Sur (Parmentier & Geerinck 2003: 341) and Litoral (Parmentier & Geerinck 2003: 341).

Warneckea bebaiense (Gilg ex Engl.) Jacq.-Fél. in *Adansonia*, sér. 2 18(2): 229 (1978)
LC Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Parmentier & Geerinck 2003: 341). We have not found any herbarium specimen supporting this record.

Warneckea cauliflora Jacq.-Fél. in *Adansonia*, sér. 2 19(3): 260 (1980)
NT Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Parmentier & Geerinck 2003: 341). We have not found any herbarium specimen supporting this record.

Warneckea fosteri (Hutch. & Dalz.) Jacq.-Fél. in *Adansonia*, sér. 2 18(2): 231 (1978)
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón

Litoral: Bata-Mbini, estrada km. 27 en la carretera hacia Senge, *Carvalho 6086* (MA-618989, WAG).

Previously reported from Litoral (Parmentier & Geerinck 2003: 341).

Warneckea macrantha Jacq.-Fél. in *Adansonia*, sér. 2 19(3): 264 (1980)
VU Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 80). We have not found any herbarium specimen supporting this record.

Warneckea membranifolia (Hook.f.) Jacq.-Fél. in *Adansonia*, sér. 2 18(2): 232 (1978)
NE Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Parmentier & Geerinck 2003: 341) and Wele Nzas (Parmentier & Geerinck 2003: 341). We have not found any herbarium specimen supporting these records.

Warneckea pulcherrima (Gilg) Jacq.-Fél. in *Adansonia*, sér. 2 18(2): 232 (1978)
LC Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 80; Parmentier & Geerinck 2003: 342). We have not found any herbarium specimen supporting these

records.

Warneckea sapinii (De Wild.) Jacq.-Fél. in *Adansonia*, sér. 2 18(2): 234 (1978)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 80). We have not found any herbarium specimen supporting these records.

MELIACEAE

Carapa angustifolia Harms in Notizbl. in Bot. Gart. Berlin-Dahlem 7: 226 (1917)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: 3 km. ESE de Okuamos, *Wilks 1727* (WAG-198205).

Not previously reported from Equatorial Guinea.

Carapa parviflora Harms in Notizbl. Bot. Gart. Berlin-Dahlem 7: 228 (1917)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Moka, cerca de Monte Alen, *Obama, C. 944* (WAG-223026).

Not previously reported from Equatorial Guinea.

Carapa procera DC., Prodr. 1: 626 (1824)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 80).

Entandrophragma angolense (Welw.) C.DC. in Bull. Herb. Boissier 2: 582, tab. 21 (1894)

NT Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 81). We have not found any herbarium specimen supporting these records.

Entandrophragma candollei Harms in Notizbl. Königl. Bot. Gart. Berlin 1: 181 (1896)

VU Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 80) and Wele Nzas (Lejoly & Lisowski 1998: 81). We have not found any herbarium specimen supporting these records.

Entandrophragma cylindricum (Sprague) Sprague in Bull. Misc. Inform. Kew 1910: 180 (1910)
VU Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 81). We have not found any herbarium specimen supporting this record.

Heckeldora staudtii (Harms) Staner in Bull. Jard. Bot. Belg. 16: 206 (1941)
LC Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Achimelan, km. 23 de la carretera de Kogo, *Pérez Viso* 3321 (MA-713031).
Litoral: Ndote, *Eneme Efua* 280 (WAG-1306197); Sendje, *Pérez Viso* 3389 (MA-713032).

Previously reported from Litoral (Guinea 1946: 156).

Khaya ivorensis A.Chev., Veg. Utiles Afrique Trop. Franc. 5: 207 (1909)
VU Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko

Centro Sur: Evinayong, *Guinea* 327-298 (MA-713524).

Not previously reported from Río Muni.

Leplaea laurentii (De Wild.) E.J.M.Koenen & J.J.de Wilde in Pl. Ecol. Evol. 145(2): 223 (2012)
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: *Senterre* 3591 (BATA)

Not previously reported from Equatorial Guinea.

Lovoa trichilioides Harms in Engl. & Prantl (eds.), Nat. Pflanzenfam. 3(4): 308 (1896)
LC Native
Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bonobono, *Wilks* 3546 (WAG-1097531). Litoral: Etembue, *Del Val* s.n. (MA-713525).

Not previously reported from Equatorial Guinea.

Neoguarea glomerulata (Harms) E.J.M.Koenen & J.J.de Wilde in *Pl. Ecol. Evol.* 145(2): 233 (2012)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: [without locality], *Senterre, B. 10* (BRLU); *Parmentier, I. 3231* (BRLU); *Senterre, B. 291* (BRLU); SO du Parc National de Monte Alén, 2km au NE du site de traversée du río Uolo pour aller aux cataractas, *Senterre, B. 2960* (BRLU). Litoral: Monts de Cristal, 11 km ENE d'Okuamkos, *Wilks 1785* (LBV, MO, WAG). Wele Nzas: Nsoc zomo, B. denso de Nfuiñ, *Nguema Miyono, N.S. 391* (BRLU).

Not previously reported from Equatorial Guinea.

Trichilia monadelpha (Thonn.) J.J. de Wilde in *Acta Bot. Neerl.* 14: 455 (1966)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Monts de Cristal. 10 km ENE d'Okuamkos, *Wilks 1800* (LBV, WAG); Bikukbinii, *Wilks 3562* (WAG-1098422).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 81), Litoral (Lejoly & Lisowski 1998: 81) Wele Nzas (Lejoly & Lisowski 1998: 81) and Río Muni (Wilde 1968: 121) [*G. Tessmann* 907].

Trichilia prieuriana subsp. **vermoesenii** J.J.de Wilde in *Meded. Landbouwhogeschool Wageningen* 68(2): 139, fig. 12B (1968)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Pembe, estrada kms. 17-18, zona de povoação de Sandums, *Carvalho 5511* (MA-598758, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 81)

Trichilia rubescens Oliv. in Oliv. (ed.), *Fl. Trop. Afr.* 1: 336 (1868)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Niefang: Entre Río Sama E Comayá, *Carvalho 5610* (MA-598823, MO,

WAG); Bata-Niefang: Estrada km. 35. Zona de madera de Comayá, de la empresa de ABM, *Carvalho* 5624 (MA-598785, MO, WAG).

Previously reported from Litoral (Guinea 1946: 154) and Río Muni (Hepper 1958: 704; Wilde 1968: 169).

Turraea vogelii Hook.f. ex Benth. in Hook. (ed.), *Niger Fl.*: 253 (1849)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Mongo-Empresa Forestal de Alosa: Estrada km. 58, *Carvalho* 5435 (MA-598436, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 81) and Litoral (Guinea 1946: 155, 158).

Turraeanthus africanus (Welw. ex C.DC.) Pellegr. in *Notul. Syst.* (Paris) 2: 16, 68 (1911)

VU Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 82). We have not found any herbarium specimen supporting these records.

Turraeanthus longipes Baill. in *Adansonia* sér.1 11: 262 (1874)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-San Joaquin de Ndyjacon-Ayamiken: Estrada kms. 38, *Carvalho* 5086 (MA-599176, MO, WAG).

Not previously reported from Equatorial Guinea.

MENISPERMACEAE

Anisocycla jollyana (Pierre) Diels in *Engl., Pflanzenr.* 46: 94 (1910)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Niefang (Abang), estrada kms 85-86, *Carvalho* 5508 (MA-844198, MO, WAG-142924)

Not previously reported from Equatorial Guinea.

Cissampelos mucronata A.Rich., *Fl. Seneg. Tent.* 1: 11 (1831)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province,

Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Karroo Namib Region.

Previously reported from Río Muni without any precise locality (Guinea 1946: 280). We have not found any herbarium specimen supporting this record.

Cissampelos owariensis P.Beauv. ex DC., Prodr. (DC.) 1: 100 (1824)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Niefang, Bindeng, *Pérez Viso* 2376 (MA-809225)

Previously reported from Litoral (Guinea 1946: 155)

Dioscoreophyllum volkensii Engl., Pflanzenw. Ost-Afrikas: 182 (1895)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Centro Sur: Abang, Niefang, *Pérez Viso* 4219 (MA-809228). Litoral: Bata-Senge, zona forestal antigua de EXFOSA, *Carvalho* 6148 (MA-619192). Wele Nzaz: Nsum Esangüi, *Pérez Viso* 3613 (MA-809226); Mbiet, Añisok, *Pérez Viso* 3596 (MA-809227).

Not previously reported from Río Muni

Jateorhiza macrantha (Hook.f.) Exell & Mendonça in J. Bot. 73 (Suppl.): 10 (1935)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Niefang: explotación forestal de Matroguisa, *Pérez Viso* 2322 (MA-809229); Abang, Niefang, *Pérez Viso* 4227 (MA-809230). Kie Ntem: Akam, camino a Oyò, *Fero & Esono* 153 (MA-808748); Nsok Tsumu (Nsok-Nsomo), *Del Val s.n.* (MA-715504, 715505, 715506, 715507, 715508, 715509). Litoral: carretera forestal de Ndote, *F. Eneme* 244 (WAG-271482). Río Muni: [without precise locality], *F. Eneme* 220 (WAG-271484); 413 (WAG-271483).

Previously reported from Litoral (Lejoly & Lisowski 1998: 82; Guinea 1946: 155), Wele Nzaz (Diels 1910: 168) and Río Muni without any precise locality (Guinea 1946: 280)

Kolobopetalum auriculatum Engl. in Bot. Jahrb. Syst. 26: 410 (1899)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-

Cameroonian Province, Congolian Province).

Centro Sur: 11 km S of Niefang, Mt. Alen National Park, *De Wilde & al. 12004* (WAG-89460); Bata-Mongo-Zona madeireira de ALOSA, km 36-37, *Carvalho 5339* (MA-809221, MO, WAG-142701); Oyac, Esom, *Pérez Viso 3442* (MA-809223). Litoral: Bata-Mbubuin, estrada km 30, *Carvalho 5119* (MA-809282, MO, WAG-142389). Wele Nzaz: Mbiet, Añisok, *Pérez Viso 3603* (MA-809222); Ebo-Ngoo Nsomo, carretera forestal Añisok Mongola-Niefang, *Pérez Viso 3183* (MA-809283).

Previously reported from Litoral (Lejoly & Lisowski 1998: 82; Guinea 1946: 155, 158) and Wele Nzaz (Guinea 1946: 150).

Penianthus longifolius Miers in Ann. Mag. Nat. Hist., Ser. 3, 13: 124 (1864)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, desde Misergue hasta el río Laña, *Pérez Viso 3248* (MA-809235); P.N. Monte Alén, Akonanyi, camino hacia Nguru, *Pérez Viso 929* (MA-809232); Monte Alen, subida al mirador, *Velayos & Pérez Viso 9270* (MA-809238, 809239); P.N. Monte Alén, Ayangtang, camino hacia el río Laña, *Pérez Viso 984* (MA-809237); Evinayong, *Guinea 378-63* (MA-715510). Litoral: Área de Mbini, poblado de Ncuesis, *López Serrano 90524, 90525* (MA); Sendje, *Pérez Viso 2991* (MA-809236); Sendje 2°, km. 47 de la carretera de Kogo, *Pérez Viso 2945* (MA-809233). Wele Nzaz: Ncoho Yenguem, km. 38 de la carretera de Nkue, *Pérez Viso 3691* (MA-809234); 3703 (MA-713044); Oveng Esandong, km. 61 carretera Nkue-Mongomo, *Pérez Viso 3072* (MA-809231).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 82; Guinea 1946: 184i, 280), Litoral (Lejoly & Lisowski 1998: 82) and Río Muni without any precise locality (Troupin 1962: 125; Hepper 1954: 76-77; Dekker 1983: 50).

Perichasma laetificata Miers in Ann. Mag. Nat. Hist., Ser. 3, 18: 22 (1866)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Kie Ntem: Akam II, carretera hacia Nsok Nsomo, *Fero & Esono 128* (MA-808720); Eloan, carretera Ebebiyin-Mongomo, *Pérez Viso 4270* (MA-809240). Litoral: Bata-Niefang, estrada km 35, en las zonas de Adjape y Comayá, *Carvalho 5850* (MA-609965); Bata-Sendge (Senye), estrada kms. 28, *Carvalho 5178* (MA-599469, MO, WAG-142474).

Previously reported from Litoral (Lejoly & Lisowski 1998: 82; Troupin 1962: 257), Wele Nzaz (Diels 1910: 263; Troupin 1962: 257) and Río Muni without any precise locality (Diels 1910: 262; Guinea 1946: 280).

Platytnospora buchholzii (Engl.) Diels in Engl., Pflanzenr.: 168 (1910)

NT Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Wele Nzaz (Guinea 1946: 150). We have not found any herbarium specimen supporting this record.

Rhigiocarya racemifera Miers in Contr. Bot. 3: 66, tab. 101 (1871)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Kie Ntem: alrededores del poblado de Obot Nku-Eseng, a 7 km de Nsok Nsomo, *Barberá & al.* 148 (MA-831425). Litoral: carretera forestal de Ndote, *F. Eneme* 253 (WAG-271476); Bata-Niefang, estrada km 35, Comayá, *Carvalho* 5635 (MA-598577, MO, WAG). Río Muni: [without precise locality], *F. Eneme* 408 (WAG-271477).

Not previously reported from Río Muni.

Sarcophium suberosum (Diels) Troupin in Bull. Jard. Bot. Etat 30: 32 (1960)

NT Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Abang, Niefang, *Pérez Viso* 4225 (MA-809285). Litoral: Bata-Bome, *Carvalho* 6045 (MA-619135). Wele Nzaz: Alum, entre Mikomeseng y Nkue, *Pérez Viso* 3023 (MA-809224).

Not previously reported from Río Muni.

Stephania abyssinica (Quart.-Dill. & A.Rich.) Walp. in Repert. Bot. Syst. (Walpers) 1: 96 (1842)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region. Also known from Bioko.

Litoral: Bata-Niefang, estrada km 35, Comayá, *Carvalho* 5889 (MA-609921).

Previously reported from Río Muni without any precise locality (Guinea 1946: 280).

Stephania cyanantha Welw. ex Hiern, Cat. Afr. Pl. 1: 20 (1896)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Wele Nzaz (Lejoly & Lisowski 1998: 82). We have not found any herbarium specimen supporting this record.

Synclisia scabrida Miers in Ann. Mag. Nat. Hist. Ser. 3, 20: 171 (1867)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Ondo, km. 8 de la carretera del puerto, *Pérez Viso 3824* (MA-809241); Bata-Praderas de Bome, *Carvalho 5917* (MA-609904).

Syntriandrium preussii Engl. in Bot. Jahrb. Syst. 26: 412 (1899)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Niefang, estrada km 35, zona de Comayá, *Carvalho 5881* (MA-609915).

Previously reported from Litoral (Guinea 1946: 158) and Wele Nzaz (Guinea 1946: 150)

Syrrheonema fasciculatum Miers in Ann. Mag. Nat. Hist., Ser. 3, 13: 124 (1864)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Senge-Mitom-Emangós, estrada km 52 de Bata a Mitom, a 3 km de la población de Emangós, *Carvalho 6397* (MA-634141).

Previously reported from Wele Nzaz (Guinea 1946: 150).

Tiliacora macrophylla (Pierre) Diels in Engl., Pflanzenr.: 67 (1910)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Río Muni without any precise locality (Guinea 1946: 279). We have not found any herbarium specimen supporting this record.

Triclisia dictyophylla Diels in Engl., Pflanzenr.: 70 (1910)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 83). We have not found any herbarium specimen supporting this record.

Triclisia louisii Troupin in Bull. Jard. Bot. État 19: 415 (1949)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 83). We have not found any herbarium specimen supporting this record.

Triclisia macrophylla Oliv. Fl. Trop. Afr. 1: 48 (1868)

CR Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Kie Ntem: Akam, camino a Oyò, *Fero & Esono* 166 (MA-808925).

Not previously reported from Río Muni.

MENYANTHACEAE

Nymphoides forbesiana (Griseb.) Kuntze, Revis. Gen. Pl. 429 (1891)

LC Native

Tropical & S. Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Litoral: Bata-Bome, *Carvalho* 4685 (MA-833225, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 83)

MORACEAE

Antiaris toxicaria Lesch. in Ann. Mus. Natl. Hist. Nat. 16: 478, pl. 22 (1810)

LC Native

Native to Tropical & Subtropical Old World. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region. Also known from Bioko.

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 86; 1999a: 120) and Río Muni without any precise locality (Guinea 1946: 272). We have not found any herbarium specimen supporting these records.

Artocarpus altilis (Park.) Fosberg in J. Wash. Acad. Sci. 31(3): 95 (1941)

NE Naturalized

Native to Malesia, cultivated and naturalized elsewhere in the Tropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Previously reported from Centro Sur (Guinea 1946: 168d) and Litoral (Guinea 1946: 272). We have not found any herbarium specimen supporting these records.

Artocarpus heterophyllus Lam., Encycl. 3: 209. 1789.

NE Naturalized

Native to SW. India, naturalized elsewhere in the Tropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 272).

We have not found any herbarium specimen supporting these records.

Dorstenia africana (Baill.) C.C.Berg in *Adansonia* n.s., 16: 422 (1977)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Monte Alen, subida al Monte Alen, *Carvalho* 5308 (MA-598254, MO, WAG).

Not previously reported from Equatorial Guinea.

Dorstenia barteri Bureau in DC., Prodr. 17: 272 (1873)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 157, 159) and Wele Nzaz (Guinea 1946: 151). We have not found any herbarium specimen supporting these records.

Usually referred to var. *subtriangularis* (Engl.) Hijman & C.C.Berg in *Adansonia* n.s., 16: 436 (1977).

Dorstenia ciliata Engl. in Bot. Jahrb. Syst. 33: 114 (1902)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Río Muni: [without locality], *Eneme Efua* 201 (BATA, WAG); 437 (WAG). Wele Nzaz: entre Nsuameyong et inselberg Akuom, *Obama & Lejoly* 404 (MA-612038).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 87), Litoral (Lejoly & Lisowski 1998: 87) and Wele Nzaz (Lejoly & Lisowski 1998: 87).

Dorstenia kameruniana Engl. in Bot. Jahrb. Syst. 20: 142 (1894)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Centro Sur: Ebolowa, entre Vicurga y Evinayong, *Pérez Viso* 1705 (MA-795891).

Previously reported from Litoral (Lejoly & Lisowski 1998: 87) and Wele Nzaz (Lejoly & Lisowski 1998: 87).

Dorstenia mannii Hook.f. in Bot. Mag. 97: t. 5908 (1871)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Mount Alen, *Wilde, J.J.F.E. de 12040* (WAG); near ECOFAC-Hotel, base of Mount Alen, *Wilde, J.J.F.E. de 12011* (BATA, WAG). Litoral: Alen, 15 miles from mouth of River Benito, *Bates, G.L. 589* (L).

Not previously reported from Equatorial Guinea.

Dorstenia psilurus Welw. in Trans. Linn. Soc. London 27: 71 (1869)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: region de Oyem, Mbélighé, *Le Testu, G.M.P.C 9106* (P).

Not previously reported from Equatorial Guinea.

Dorstenia turbinata Engl. in Bot. Jahrb. Syst. 33: 115 (1902)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Mbini, 52 km from Bata along the River Metom, a tributary of the River Benito, *Sanford, WW 5851* (K).

Not previously reported from Equatorial Guinea.

Ficus ardisioides subsp. **camptoneura** (Mildbr.) C.C.Berg in Kew Bull. 43(1): 77 (1988)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Senge, estrada km. 24, *Carvalho 5625* (MA-598809, MO, WAG).

Not previously reported from Río Muni

Ficus asperifolia Miq. in London J. Bot. 7: 564, tab. 15 (1848)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Senye-río Benito, estrada km. 40, ponte sobre o río Benito, *Carvalho 4978* (MA-610102, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 87) and Litoral (Lejoly & Lisowski 1998: 87).

Ficus elasticoides De Wild., Repert. Spec. Nov. Regni Veg. 12: 302 (1913)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-

Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 88). We have not found any herbarium specimen supporting this record.

Ficus exasperata Vahl, Enum. Pl. (Vahl) 2: 197 (1805)

LC Native

Native to Tropical Africa, SW. Arabian Peninsula and India. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko

Litoral: Bikukbinii, *Azizet Issembé*, Y. 41 (WAG); Área de Mbini. Poblado de Bilen, Bitica y Mboete, *López Serrano 190413, 190414, 190415* (MA); Bata-Bome, entre o río Boara e 10 km, proximidades da Aman, *Carvalho 4707* (MA-597839, MO, WAG).

Previously reported from Centro Sur (Guinea 1946: 141, 184i), Litoral (Lejoly & Lisowski 1998: 88) and Río Muni without any precise locality (Guinea 1946: 273).

Ficus hispida L.f., Suppl. Pl.: 442 (1781)

LC Cultivated

Native from S. China to Tropical Asia and N. Australia. Widely cultivated elsewhere in the Tropics.

Previously reported from Río Muni without any precise locality (Guinea 1946: 273). We have not found any herbarium specimen supporting this record.

Ficus leonensis Hutch. in Bull. Misc. Inform. Kew 1915: 338 (1915)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 88). We have not found any herbarium specimen supporting this record.

Ficus lingua Warb. ex De Wild. & T.Durand in Ann. Mus. Congo Belge. Bot., Ser. 5 VI: 24 (1904)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 88). We have not found any herbarium specimen supporting this record.

Ficus louisii Lebrun & Boutique ex Boutique & J.Léonard in Bull. Jard. Bot. État 19: 215 (1949)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Conisio. Distrito de Kogo, *Obama* 749 (WAG).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 88; 1999a: 120).

Ficus lutea Vahl, Enum. Pl. 2: 185 (1805)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Previously reported from Wele Nzas (Guinea 1946: 143). We have not found any herbarium specimen supporting this record.

Ficus lyrata Warb. in Bot. Jahrb. Syst. 20(1–2): 172–173 (1894)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Litoral: Bata-Senye, estrada km. 34-35, *Carvalho* 5040 (MA-599246, MO, WAG).

Not previously reported from Equatorial Guinea.

Ficus mucoso Welw. ex Ficalho, Pl. Ut. Afr. Port. 270 (1884)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Annobón and Bioko.

Litoral: Bikukbinii, *Azizet Issembé*, Y. 35 (WAG); Mboete, *Eneme Efua* 400 (BATA, WAG).

Previously reported from Río Muni without any precise locality (Guinea 1946: 273)

Ficus natalensis subsp. **lepieurii** (Miq.) C.C.Berg. in Kew Bull. 43(1): 88 (1988)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Bata-Niefang-Monte Alen, estrada km. 52, *Carvalho* 5375 (MA-598265, MO, WAG). Litoral: Bata-Senye, estrada km. 40, chegada a Senye, ponto sobre río Benito, *Carvalho* 4907 (MA-597521, MO, WAG).

Previously reported from Litoral (Guinea 1946: 154) and Wele Nzas (Lejoly &

Lisowski 1998: 88)

Ficus ovata Vahl, Enum. Pl. 2: 185 (1805)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 88) and Litoral (Lejoly & Lisowski 1998: 88). We have not found any herbarium specimen supporting these records.

Ficus preussii Warb. in Bot. Jahrb. Syst. 20: 156 (1894)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni without any precise locality (Hepper 1958: 607; Guinea 1946: 273). We have not found any herbarium specimen supporting these records.

Ficus sansibarica subsp. **macrosperma** (Mildbr. & Burret) C.C.Berg in Kew Bull. 43: 94 (1988)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, 5 km au NO de Engong, *Lejoly 99/461* (MA-621797).

Not previously reported from Río Muni

Ficus sur Forssk., Fl. Aegypt.-Arab.: 180 (1775)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region. Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 88) and Litoral (Lejoly & Lisowski 1998: 88). We have not found any herbarium specimen supporting these records.

Ficus vogeliana (Miq.) Miq. in Ann. Mus. Bot. Lugduno-Batavi 3: 295 (1867)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bikukbinii, *Azizet Issembé*, Y. 50 (WAG). Río Muni: [without locality], *Eneme Efua* 479 (BATA).

Previously reported from Río Muni without any precise locality (Hepper 1958: 606; Hutch. & Dalz. 1928: 432; Guinea 1946: 273)

Ficus wildemaniana Warb. in Ann. Mus. Congo Belge. Bot., Ser. 5 6: 7 (1904)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 273). We have not found any herbarium specimen supporting this record.

Milicia excelsa (Welw.) C.C.Berg in Bull. Jard. Bot. Natl. Belg. 52: 227 (1982)

NT Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Litoral: Área de Machinda, poblado de Adam-Tum, *López Serrano* 110521, 110522, 110523, 110524 (MA).

Previously reported from Litoral (Guinea 1946: 157), Wele Nzaz (Guinea 1946: 143) and Río Muni without any precise locality (Guinea 1946: 271).

Scyphosyce manniana Baill. in Adansonia 11: 293 1875

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bicomo, bosque primario das margens do río Ecucu, *Carvalho* 4817 (MA-597739, MO, WAG)

Not previously reported from Equatorial Guinea.

Treculia africana Decne. in Ann. Sci. Nat., Bot. III, 8: 109 (1847)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region. Also known from Bioko.

Litoral: Sendje, *Pérez Viso* 3378 (MA-713903).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 90).

Treculia obovoidea N.E.Br. in Bull. Misc. Inform. Kew 1894: 361 (1894)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 90). We have not found any herbarium specimen supporting this record.

Trilepisium madagascariense DC., Prodr. 2: 639 (1825)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón.

Previously reported from Centro Sur (Guinea 1946: 141) and Litoral (Guinea 1946: 154). We have not found any herbarium specimen supporting these records.

MORINGACEAE

Moringa oleifera Lam., Encycl. 1(2): 398 (1785)

LC Naturalized

Native to India and Pakistan, elsewhere naturalized in the Tropics. Sudano-Zambezian Region (Sudanian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region.

Litoral: Bata, zona de Lea, *Carvalho 6331* (MA-620557).

Not previously reported from Equatorial Guinea.

MYRTACEAE

Eugenia fernandopoana Engl. & Brehmer in Bot. Jahrb. Syst. 54: 337 (1917)

VU Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 90). We have not found any herbarium specimen supporting this record.

Eugenia gabonensis Amshoff in Acta Bot. Neerl. 7: 55 (1958)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: [without locality], *Eneme Efua 366* (BATA, WAG).

Not previously reported from Equatorial Guinea.

Psidium guajava L., Sp. Pl.: 470 (1753)

LC Naturalized

Native to Tropical & Subtropical America, cultivated and naturalized elsewhere in the Tropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Niefang, explotación forestal de Matroguisa, *Pérez Viso* 2313 (MA-780335). Litoral: Área de Mbini, poblado de Miton y Minang, *López Serrano* 120413, 120414 (MA).

Previously reported from Litoral (Lejoly & Lisowski 1998: 91).

Psidium guineense Sw., Prodr. (Swartz) 77 (1788)

LC Naturalized

Native to Tropical & Subtropical America, cultivated and naturalized elsewhere in the Tropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region.

Litoral: Binguro, km. 54 de la carretera de Bata a Kogo, *Pérez Viso* 2860 (MA-713036).

Previously reported from Litoral (Lejoly & Lisowski 1998: 91).

Syzygium cumini (L.) Skeels in US. Dept. Agric., Bur. Pl. Ind., Bull. 248: 25 (1912)

NE Naturalized

Native to Tropical & Subtropical Asia, elsewhere naturalized in the Tropics.

Previously reported from Litoral (Lejoly & Lisowski 1998: 91). We have not found any herbarium specimen supporting this record.

Syzygium guineense (Willd.) DC., Prodr. 3: 259 (1828) subsp. **guineense**

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Litoral: Bata-Senye (Senge), estrada km. 40 chegada ao ponte sobre Río Benito, *Carvalho* 5166 (MA-599479, MO, WAG); Bata-Senye (Senge), estrada km 40, sobre el puente del río Benito, *Carvalho* 6422 (MA-620509, WAG); Bata-Pembe-Mbia-Dibolo, estrada km. 70, chegada a Libolo, *Carvalho* 5297 (MA-598112, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 91), Litoral (Lejoly & Lisowski 1998: 91; 1999a: 102) and Wele Nzas (Lejoly & Lisowski 1998: 91; 1999a: 120; Guinea 1946: 146).

Syzygium owariense (P.Beauv.) Benth., Niger Fl.: 359 (1849)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 91). We have not found any herbarium specimen supporting this record.

Syzygium pratense Byng, Global Fl. 4: 132 (2018)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bome, río Boara, *Carvalho 4714* (MA-597476, MO, WAG).

Not previously reported from Equatorial Guinea.

NYCTAGINACEAE

Boerhavia diffusa L., Sp. Pl.: 3 (1753)

NE Native

Native to Tropical & Subtropical America, Africa and the S. Arabian Peninsula. Africa. Also known from Annobón and Bioko.

Litoral: Bata, poblado de Asonga, *Gómez Marín & al. 73* (MA-854017); Ayap, *Guinea 366* (MA-715408).

Previously reported from Litoral (Lejoly & Lisowski 1998: 91).

Bougainvillea glabra Choisy in DC., Prodr. 13(2): 437 (1849)

LC Cultivated

Native to Brazil, cultivated worldwide. Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 91) and Río Muni without any precise locality (Guinea 1946: 278). We have not found any herbarium specimen supporting these records.

Bougainvillea spectabilis Willd. in L., Sp. Pl. (ed. 4) 1: 348 (1799)

NE Cultivated

Native to Brazil, cultivated worldwide. Also known from Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 278). We have not found any herbarium specimen supporting this record.

Mirabilis jalapa L., Sp. Pl.: 177 (1753)

NE Cultivated

Native from Mexico to Central America, worldwide cultivated and naturalized. Also known from Annobón and Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 91), Litoral (Lejoly & Lisowski 1998: 91) and Río Muni without any precise locality (Guinea 1946: 278). We

have not found any herbarium specimen supporting these records.

NYMPHAEACEAE

Nymphaea heudelotii Planch. in Ann. Sci. Nat., Bot., sér. 3. 19: 41-42 (1853)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P. N. Monte Alén, Engong, *Cabezas* 2306 (MA). Litoral: Ayamiken, Río Campo, *Pérez Viso* 2820bis (MA-797192); Bata-Bome, *Carvalho* 5096 (MA-599730, MO, WAG). Wele Nzaz: Bimbile, *Guinea* 134-207 (MA-715472).

Not previously reported from Equatorial Guinea.

Nymphaea lotus L., Sp. Pl.: 511 (1753)

LC Native

Native to Africa, naturalized in America. All Africa. Also known from Bioko.

Litoral: Poblado de Bome, *M. Fero & Barberá* 328 (MA-844558); Bata-Ngoló, zona de Bomudi (río Bebiya), *Carvalho* 5267 (MA-598145, MO, WAG); carretera de Mbini, *Pérez Viso* 3336 (MA-833222); carretera hacia río Campo, *Pérez Viso* 2176 (MA-715473); Miboman, a 22 km. de Bata, *S. Castroviejo* 9171 (MA-711134). Río Muni: [without locality], *F. Eneme* 204 (WAG-271485).

Previously reported from Litoral (Lejoly & Lisowski 1998: 92; Guinea 1946: 168k) and Río Muni without any precise locality (Mas-Guindal 1944: 59; Guinea 1946: 279)

Nymphaea maculata Schumach. & Thonn., Beskr. Guin. Pl.: 247 (1827)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 92). Maybe a misinterpretation of *N. heudelotii* (Hauman 1951: 162)

OCHNACEAE

Campylospermum auriculatum Biss. in Blumea 58: 2 (2013)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Wele Nzaz: inselberg d'Akuom, à 1h30 de marche du Nzuameyong, à 25 km d'Anisoc, *Parmentier, I.* 358 (BRLU).

Previously reported from Wele Nzaz (Bissiengou *et al.* 2013: 4).

Campylospermum calanthum (Gilg) Farron in Bull. Jard. Bot. État Brux. 35: 394 (1965)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Alosa, Niefang, *Castelo & Juste s.n.* (MA-854324, 854333); Monte Alén N.P., Monte Alen, *Ngomo 2* (BRLU); 177 (BRLU); 438 (BRLU); *S. Lisowski M-1559* (BRLU); *Lejoly 95/135* (BRLU); Monte Alén N.P., S. du parc National de Monte Alen, au Nord du río Lana, près de la Cabana ECOFAC de Misergue, *Senterre, B. 2098* (BRLU); Monte Alén N.P., S. du parc National de Monte Alen, près de la Cabana ECOFAC de Esamalanas, *Senterre, B. 2124* (BRLU); Monte Alén N.P., SO du parc National de Monte Alen, 2 km au NE du site de traversée du río Uolo pour aller aux cataractas, *Senterre, B. 1769* (BRLU); 1880 (BRLU); Monte Alén N.P., SO du parc National de Monte Alen, 200 m au Sud du transect ECOFAC de Mosumo à 1620 m du début du layon, *Senterre, B. 631* (BRLU); Monte Alén N.P., SO du parc National de Monte Alen, sur le transect ECOFAC de Mosumo à 500 m du début du layon, *Senterre, B. 452* (BRLU); P.N. Monte Alén, senda que va desde el lago Atok hasta Moka, *Pérez Viso 1342* (MA-712858); P.N. Monte Alén, subida al mirador, *Velayos & al. 10024* (MA-707059); Parc Nat. Monte Alen, Mosumo, confluence río Lana avec río Mbini [=Benito], *Obama 680* (BRLU); Parc National de Monte Alen, 5 km à l'Ouest du village d'Engong, *Parmentier, I. 2880* (BRLU); Parc National de Monte Alen, transect de Monte Chocolate, *Reeth, L. van 146* (BRLU); Parc National de Monte Alen, transect de Mosumo, *Reeth, L. van 277* (BRLU); 288 (Z); *Parmentier, I. 2930* (BRLU); Evinayong-Niefang, km 32-33, *Carvalho 4598* (MA-511694); subida al Monte Chocolate, transecto que está entre Monduá y el transecto de Aconangui, *Cabezas 205* (MA-695551). Litoral: Eyan Bot, km. 12 de la carretera del puerto a Kogo, *Pérez Viso 3564* (MA-711541); Ayamiken (Reserva de río Campo), *Obama 33* (BRLU); Sendje, *Pérez Viso 1630* (MA-687147); Estuaire du Río Muni, Ncoho, *N.S. Nguema Miyono 131* (BRLU); Alen (15 miles from mouth of River Benito), near village, *Bates, G.L. 588* (G, L, Z); Sendje à Ongamnsok, *Lejoly 01/52* (BRLU); *Lejoly 01/24* (BRLU); río Mbambala, campement Shimmer km. 16 (entre Río Muni et Monte Mitra), *N.S. Nguema Miyono 26* (BRLU); Monte Mitra, *Obama 313* (BRLU). Río Muni: [without locality], *Eneme Efua 415* (BRLU). Wele Nzaz: Inselberg Dumu, *Lejoly 99/346* (BRLU); Eviam, Aconibe-Acurenem, *Pérez Viso 1773* (MA-713057); [without locality], *Tessmann, G. 104* (K); 120 (K).

Previously reported from Litoral (Lejoly & Lisowski 1998: 93)

Campylospermum costatum (Tiegh.) Bissiengou in Blumea 58(1): 6 (2013)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Monte Alén N.P., Monte Alen, *Ngomo 90* (BRLU).

Not previously reported from Equatorial Guinea.

Campylospermum densiflorum (De Wild. & T.Durand) Farron in Bull. Jard. Bot. État 35: 394 (1965)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: Mabungo, *Tessmann, G.* 147 (K).

Not previously reported from Equatorial Guinea.

Campylospermum duparquetianum (Baill.) Tiegh. in *J. Bot.* (Morot) 43 (1902)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Centro Sur: Monte Alen, *Ngomo* 4 (BRLU); Parc National de Monte Alen, transect Ecofac de Mosumo, *Senterre, B.* 53 (BRLU); 827 (BRLU); SO du Parc National de Monte Alen, 2 km au NE du site de traversée du río Uolo, *Senterre, B.* 1936 (BRLU). Litoral: 7 km ENE de Okuamkos, *Wilks* 1741 (BRLU, LBV, WAG); Sendje à Ongamnsok, *Lejoly* 01/05 (BRLU); près de la frontière gabonaise, chantier forestier à l'Est de Cogo, *McPherson, G.D.* 13994 (BRLU, MO); Sud ouest de Ayamiken, *Obama* 186 (BRLU).

Not previously reported from Equatorial Guinea.

Campylospermum dybovskii Tiegh. in *Ann. Sci. Nat., Bot., sér.* 8 16: 298 (1902)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Conisio. Distrito de Kogo, *Obama* 741 (BRLU); Bata-Pembe, praderas gramíneas de Eyang Mbaha, estrada kms. 33-34, *Carvalho* 5031 (MA-598921, MO, WAG); Bata-Pembe, pradera de Pembe, *Carvalho* 5587 (MA-598817, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 92)

Campylospermum elongatum (Oliv.) Tiegh. in *J. Bot.* 1902: 43 (1902)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Monte Alén N.P., SO du parc National de Monte Alen, traversée du río Uolo, *Senterre, B.* 1787 (BRLU); Monte Alén N.P., SO du parc National de Monte Alen, Mosumo, *Senterre, B.* 584 (BRLU); *B.* 179 (BRLU); Nfaman Summit, Bosque National, Midslope, *Leal, M. E.* 2198 (MO, WAG); P.N. Monte Alén, cabaña de el Lago, *Velayos & al.* 9518 (MA-712859); Monte Alén N.P., Monte Alen, *Ngomo* 56 (BRLU); 178 (BRLU); 533 (BRLU); 376 (BRLU); *Lejoly* 94/131 (BRLU); Monte Alén N.P., S. du parc National de Monte Alen, Esamalana, *Senterre, B.* 2120 (BRLU); Monte Alén N.P., N. du parc National de Monte Alen, Monte Chocolate, *Senterre, B.* 3417 (BRLU). Litoral: Bata-Niefang, estrada km. 35, Comayá, entre los Ríos Sama y Comayá, *Carvalho* 5777 (MA-599092); Sendje 1°, km. 47 de la carretera de Kogo, *Pérez Viso* 2914 (MA-689871); Mokomo, km. 19 de la carretera de Kogo, *Pérez Viso* 3898 (MA-712863); Bata-Río Campo, estrada km. 48-49, *Carvalho* 4676 (MA-597456, MO, WAG); Sud ouest de Ayamiken, *Obama* 199 (BRLU); Ayamiken, reserve de río Campo, *Obama* 143 (BRLU); Mbini, Apiladero de Jandje (4 km à l'Est du village),

réserve de Ndote, *Eneme Efua* 115 (BRLU); Ndote Nord, près du village Jandye, S. Lisowski M-149 (BRLU). Río Muni: [without locality], *Eneme Efua* 197 (BRLU, WAG); 469 (BRLU, WAG). Wele Nzas: inselberg de Akoak Ebanga, à 1h de marche du village de Ngong Mocomo, à 10 km de Nsork, *Parmentier, I.* 3558 (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 92) and Litoral (Lejoly & Lisowski 1998: 92).

Campylospermum excavatum (Tiegh.) Farron in Bull. Jard. Bot. État 35: 396 (1965)
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Monte Alén N.P., SO du parc, río Uolo, *Senterre, B.* 1999 (BRLU); 2312 (BRLU); Monte Alén N.P., SO du parc, Mosumo, *Senterre, B.* 341 (BRLU); *B.* 853 (BRLU).

Not previously reported from Equatorial Guinea.

Campylospermum flavum (Schumach. & Thonn.) Farron in Bull. Jard. Bot. État 35: 397 (1965)
LC Native
Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 93; Fernández-Casas 1992: 70) and Litoral (Lejoly & Lisowski 1998: 93). We have not found any herbarium specimen supporting these records.

Campylospermum glaberrimum (P.Beauv.) Farron in Bull. Jard. Bot. État 35: 397 (1965)
NE Native
Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Benito Rivermouth, Benito, *Bates, G.L.* 812 (BM).

Not previously reported from Equatorial Guinea.

Campylospermum glaucifolium Bissiengou in Blumea 58(1): 5 (2013)
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Parc National de Monte Alén, 11 km à l'Est de la cabaña de Mosumo, *Senterre, B.* 4122 (BRLU); Mundung 'Les 4 montagnes', *Desmet, G.* 242 (BRLU); P.N. Monte Alén, Esamalang, camino hacia Mondung, *Pérez Viso* 1139 (MA-728368).
Litoral: Monts de Cristal. 10 km ENE d'Okuamkos, *Wilks* 1796 (WAG).

Previously reported from Centro Sur (Bissiengou *et al.* 2013: 5).

Campylospermum glaucum (Tiegh.) Farron in Bull. Jard. Bot. État 35: 397 (1965)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Esamalang, *Pérez Viso* 526 (MA-687141). Litoral: Ndote, *Eneme Efua* 155 (BRLU); Jaudjè, *Eneme Efua* 460 (BATA). Wele Nzaz: Obamico (Parque N. de Nsork), *N.S. Nguema Miyono* 282 (BRLU); Nkolentangan, *Tessmann, G.* 201 (K); 302 (K); 319 (BRLU).

Not previously reported from Equatorial Guinea.

Campylospermum glomeratum (Tiegh.) Biss. in Blumea 58(1): 1-7 (2013)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Monte Alén N.P., *Ngomo* 208 (BRLU); Monte Alén N.P., Mosumo, confluence río Laña avec río Mbini, *Obama* 698 (BRLU); P.N. Monte Alén, Mosumu, alrededores de las cataratas del río Laña, *Pérez Viso* 1266 (MA-728369). Litoral: près du village Sendje, río Uele, *S. Lisowski M-590* (BRLU); *M-1254* (BRLU); Bata-Senye, estrada kms. 40, chegada a Senye sobre el río Benito, *Carvalho* 4913 (MA-597886, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 93) and Litoral (Lejoly & Lisowski 1998: 93).

Campylospermum laxiflorum (De Wild. & T.Durand) Tiegh. in J. Bot. (Morot) 16: 197 (1902)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bikurga, *S. Lisowski M-1368* (BRLU); Monte Alén N.P., Misergue, *Senterre, B.* 3315 (BRLU); Monte Alén N.P., transect de Monte Alén, *Lejoly* 94/166 (BRLU); Monte Alén, *Ngomo* 516 (BRLU); P.N. Monte Alén, alrededores del lago Atok, *Pérez Viso* 38 (MA-699529); P.N. Monte Alén, Esamalang, *Pérez Viso* 3303 (MA-712865); Parc National de Monte Alén, río Uolo, *Senterre, B.* 1972 (BRLU); Parc National de Monte Alén, Engong, *Lejoly* 99/130 (BRLU); 99/445ST1 (BRLU); Parc National de Monte Alén, à 1h30 de marche du site ECOFAC, *Parmentier, I.* 3414 (BRLU); 3425 (BRLU); Parc National de Monte Alén, entre Mosumo et Monte Boracho, *Senterre, B.* 392 (BRLU); Parc National de Monte Alén, Mosumo, *Reeth, L. van* 302 (WAG); Parc National de Monte Alén, *N.S. Nguema Miyono* 426 (BRLU); *Ngomo* 475 (BRLU); SE du Parc National de Monte Alén, Nkumekie, *Senterre, B.* 40 (BRLU). Litoral: Bata-Bome, *Carvalho* 4764 (MA-597677, MO, WAG); 11 km S of Bata, along coastal road and then 2 km along track in Southern direction, *Wilde, J.J.F.E. de* 11988 (WAG); 11989 (MO, WAG); Corisco: playa al SO de la isla, *Pérez Viso* 1987 (MA-711423); Espigon/Pradera de Baga (réserve de Ndote), *Eneme Efua* 101 (BRLU); Etembue (réserve de Ndote), *Eneme Efua* 2 (BRLU); Ndote Sud, près d'Etembue, *S.*

Lisowski M-520 (BRLU); *M-1111* (BRLU); *Obama 605* (WAG); [without locality], *Obama 335* (BRLU, WAG). Wele Nzaz: inselberg de Mungum, à 45 mn de marche du village Kukumancoc, *Parmentier, I. 3348* (BRLU); *3389* (BRLU).

Not previously reported from Equatorial Guinea.

Campylospermum plicatum (Tiegh.) Bissiegou in *Blumea* 58(1): 7 (2013)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata, exploration du Benito, *Guiral, L s.n.* (BRLU). Wele Nzaz: inserberg Asoc, *Obama 495* (BRLU).

Not previously reported from Equatorial Guinea.

Campylospermum reticulatum (P.Beauv.) Farron in *Bull. Jard. Bot. État Bruxelles* 35: 400 (1965)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Centro Sur: Monte Alén N.P., SO du parc, 2 km au NE du site de traversée du río Uolo pour aller aux cataractas, *Senterre, B. 2278* (BRLU); Parc National de Monte Alén, cabaña de Mosumo, *Senterre, B. 3999* (BRLU); Bata-Niefang, estrada km 40, Adjape, río Sama, *Carvalho 5551* (MA, MO, WAG). Litoral: Sanje, river Benito, *Bates, G.L. 569* (L, Z); Ndote Sud, près d'Embue, *S. Lisowski M-1128* (BRLU); Sanje, river Benito, *Bates, G.L. 569* (US); Estuaire, village Mayang au bord de la rivière Mitong, *S. Lisowski M-794* (BRLU); Bata-Mbini, estrada km. 27, zona forestal de 3 Okumes, *Carvalho 6062* (MA-619132). Wele Nzaz: Inselberg de Piedra Nzaz, *Parmentier, I. 396* (BRLU); *397* (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 93) and Litoral (Lejoly & Lisowski 1998: 93).

Campylospermum sulcatum (Tiegh.) Farron in *Bull. Jard. Bot. État Brux.* 35: 403 (1965)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bicurga, inselberg de Bicurga, *Parmentier, I. 3163* (BRLU); *3225* (BRLU); *3126* (BRLU); *3273* (BATA); Monte Alén N.P., *Ngomo 181* (BRLU); *928* (BRLU); Monte Alén N.P., Monte Chocolate, *Lejoly 94/214* (BRLU); Monte Alén N.P., Nkumekie, *Senterre, B. 3* (BRLU); *Ngomo 875* (BRLU); Monte Alén N.P., río Uolo pour aller aux cataractas, *Senterre, B. 2348* (BRLU); *B. 3024*; P.N. Monte Alén, Ayangtang, camino hacia el río Laña, *Pérez Viso 962* (MA-728366). Litoral: Sanye, river Benito, *Bates, G.L. 570* (G, L); Monts de Cristal, 10 km ENE d'Okuamkos, *Wilks*

1815 (LBV, WAG). Wele Nzas: Obamico (Parc National de Nsork), *N.S. Nguema Miyono 305* (BRLU); Parc National de Nsork, Obamicu, río Abang, *Lejoly 98/39* (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 93).

Campylospermum vogelii (Hook.f. ex Planch.) Farron in Bull. Jard. Bot. État Brux. 35: 403 (1965)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Mundung 'Les 4 montagnes', *Desmet, G. 241* (BRLU); Parc national de Monte Alen, à 1h30 de marche du site ECOFAC, *Parmentier, I. 3057* (BRLU). Litoral: district Mbini, près du village Sendje, *S. Lisowski M-583* (BRLU); Bata-Niefang, estrada km. 35, entre río Sama e río Comayá, *Carvalho 5660* (MA-598522, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 93) and Wele Nzas (Lejoly & Lisowski 1998: 93).

Idertia axillaris (Oliv.) Farron in Ber. Schweiz. Bot. Ges. 73: 212 (1963)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Río Muni: Mt. John, Kongui river, *Mann, G. 1787* (K).

Not previously reported from Equatorial Guinea.

Lophira alata Banks ex C.F.Gaertn., Suppl. Carp. 1(1): 52, t. 188, f. 2 (1805)

VU Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Mbubuin-San Joaquin de Ndyjacon: Estrada km 35 e chegada a povoação de Mbubuin, *Carvalho 4965* (MA-599208, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 93).

Ochna multiflora DC. in Ann. Mus. Natl. Hist. Nat. 17: 412 (1811)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Conisio, distrito de Kogo, *Obama 758* (BRLU); 739 (BRLU); Bata, pradera gramínea entre el Aeropuerto y el río Utonde, *Carvalho 4842* (MA-597728, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 93)

Rhabdophyllum affine (Hook.f.) Tiegh. in J. Bot. 16: 201 (1902)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Mosumo, cataratas del Laña, *Aedo & al.* 5160 (MA-728367).

Not previously reported from Río Muni.

Rhabdophyllum arnoldianum (De Wild. & T.Durand) Tiegh. in J. Bot. (Morot) 16: 202 (1902)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 94). We have not found any herbarium specimen supporting this record.

Rhabdophyllum calophyllum (Hook.f.) Tiegh. in J. Bot. 16: 201 (1902)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: cercanías de Alosa, Niefang, *Castelo & Juste s.n.* (MA-854335); Bata-Mongo (Alosa), estrada km 76, *Carvalho* 5510 (MA, MO, WAG); P.N. Monte Alén, repetidor de televisión, *Pérez Viso* 94 (MA-728365); P.N. Monte Alén, subida al monte Alén, *Pérez Viso* 112 (MA-712862); P.N. Monte Alén, Mosumu, cataratas del río Laña, *Pérez Viso* 232 (MA-689427). Litoral: Nkinfala, km. 12 de la carretera de Kogo, *Pérez Viso* 3836 (MA-687055). Río Muni: [without locality], *Eneme Efua* 414 (WAG). Wele Nzaz: Aconibe, *Guinea* 400 (MA-728399); 401 (MA-728398); Mofú, cerca de Oven, *Pérez Viso* 2133 (MA-715767); Mbut, km. 30 de la carretera de Enkue, *Pérez Viso* 3687 (MA-712861).

Previously reported from Litoral (Lejoly & Lisowski 1998: 94).

Sauvagesia erecta L., Sp. Pl.: 203 (1753)

LC Native

Native to Tropical America, Tropical Africa and Madagascar. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Centro Sur: Evinayong-Niefang, km. 32-33, *Carvalho* 4599 (MA-511693, WAG). Litoral: Bata-Bome, *Carvalho* 4671 (MA, MO, WAG); 4868 (MA); Bata-Senye-río Benito, estrada km. 24, *Carvalho* 4976 (MA, MO, WAG). Río Muni: [without locality], *Eneme Efua* 298 (BATA, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 94)

Testulea gabonensis Pellegr. in Bull. Soc. Bot. France 71: 76 (1924)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Sosef & Bissiengou 2016: 86)

OLACACEAE

Aptandra zenkeri Engl. in Engl. & Prantl (eds.), Nat. Pflanzenfam. Nachtr. 1: 147 (1897)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 94), Wele Nzaz (Guinea 1946: 148) and Río Muni without any precise locality (Hepper 1958: 649). We have not found any herbarium specimen supporting these records.

Coula edulis Baill. in Adansonia sér.1 3: 61, 64, tab. 64 (1862)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bisum, *Del Val s.n.* (MA-715587); Bata-Mbini: Estrada km 13. Zona forestal de Acan-Bot Esaveng, *Carvalho 6050* (MA-618941, WAG); Bata-Bicomo, estrada kms. 8-9, *Carvalho 5520* (MA-599453, MO, WAG). Wele Nzaz: Eviam, Aconibe-Acurenem, *Pérez Viso 1835* (MA-745490).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 94; Guinea 1946: 141), Litoral (Guinea 1946: 275), Wele Nzaz (Lejoly & Lisowski 1998: 94; Guinea 1946: 143) and Río Muni without any precise locality (Hepper 1958: 645).

Diogoia zenkeri (Engl.) Exell & Mendonça in Bol. Soc. Brot., Ser. 2 25: 109 (1951)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Monts de Cristal, vallée de rivière Mitemelé, 10 km ENE d'Okuamkos, *Wilks 1776* (LBV, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 95) and Litoral (Lejoly & Lisowski 1998: 95).

Heisteria parvifolia Sm. in Cycl. (Rees) 17: 3 (1811)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-

Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Litoral: Área de Mbini, poblado de Mangola y Bilen, *López Serrano 180414, 180415* (MA); Área de Mbini, poblado de Mangala y Ncua- Esis, *López Serrano 130408, 130409* (MA); Enigayong, km. 5 de la carretera de Kogo, *Pérez Viso 3877* (MA-715589); Sendje 2°, km. 47 de la carretera de Kogo, *Pérez Viso 2923* (MA-702218); Bata-Bicomo, río Ecucu, Central Hidroeléctrica, *Carvalho 5381* (MA-599427, MO, WAG); Bata-Senye (Senge), estrada km. 27, explotación forestal de Exfosa, *Carvalho 6111* (MA-618996). Wele Nzas: Añisok-Mongola, *Pérez Viso 3746* (MA-715590).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 95; Guinea 1946: 141), Litoral (Guinea 1946: 156), Wele Nzas (Guinea 1946: 148) and Río Muni without any precise locality (Hepper 1958: 645; Guinea 1946: 275).

Heisteria trillesiana Pierre in Rev. Cultures Colon. 11: 258 (1902)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 95). We have not found any herbarium specimen supporting this record.

Heisteria zimmereri Engl. in Notizbl. Königl. Bot. Gart. Berlin 2: 288 (1899)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bicomo, margens do río Ecucu, *Carvalho 4814* (MA-832712, MO, WAG); *4916* (MA-716937, MO, WAG); Bata-Pembe, estrada kms. 26-27, chamada Entura en margens de Río Ué, *Carvalho 5180* (MA-599488, MO, WAG).

Previously reported from Río Muni without any precise locality (Guinea 1946: 275).

Octoknema affinis Pierre in J. Bot. 19: 46 (1881)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 95). We have not found any herbarium specimen supporting this record.

Octoknema dinklagei Engl. in Bot. Jahrb. Syst. 43: 178 (1909)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 95). We have not found any herbarium specimen supporting this record.

Olax gambecola Baill. in Adansonia sér.1 3: 121 (1862 [1863])

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian

Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Litoral: Bata-Senye (Senge), estrada km. 38, zona pantanosa en el río Mongó, *Carvalho* 6249 (MA-620271, WAG); Bata, Miboman, Selva, *Castelo & al. s.n.* (MA-319782).
Río Muni: [without locality], *Eneme Efua* 410 (WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 95) and Litoral (Lejoly & Lisowski 1998: 95; 1999a: 102).

Olax latifolia Engl. in Engl. & Prantl (eds.), Nat. Pflanzenfam. Nachtr. 1: 146 (1897)
NE Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 95), Litoral (Lejoly & Lisowski 1998: 95) and Río Muni without any precise locality (Guinea 1946: 275). We have not found any herbarium specimen supporting these records.

Olax mannii Oliv. in Oliv. (ed.), Fl. Trop. Afr. 1: 349 (1868)
NE Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: inselberg de Bicurga, près du village de Bicurga, *Parmentier, I.* 1647 (WAG); base of Mount Alén, *Wilde, J.J.F.E. de* 12033 (WAG); P.N. Monte Alén, lago Atok, *Pérez Viso* 1101 (MA-715585). Litoral: Ehebey (?) grande, distrito de Kogo, *Parmentier, I.* 1647 (BRLU); Sendje, *Pérez Viso* 3365 (MA-712855).

Previously reported from Wele Nzas (Guinea 1946: 148).

Olax staudii Engl. in Engl. & Prantl (eds.), Nat. Pflanzenfam. Nachtr. 1: 146 (1897)
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 95). We have not found any herbarium specimen supporting this record.

Olax subscorpioidea Oliv. in Oliv. (ed.), Fl. Trop. Afr. 1: 350 (1868)
LC Native
Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, lago Atok, *Pérez Viso* 1101 (MA-715585); P.N. Monte Alén, Bisun, *Pérez Viso* 1229 (MA-713253).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 95) and Litoral (Lejoly & Lisowski 1998: 95).

Olax triplinervia Oliv. in Oliv. (ed.), Fl. Trop. Afr.1: 349 (1868)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Río Muni: [without locality], *McPherson, G.D. 13997* (MO, WAG); *Eneme Efua 391* (WAG).

Ongokea gore (Hua) Pierre in Bull. Mens. Soc. Linn. Paris 2: 1314 (1897)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 96) and Río Muni without any precise locality (Hepper 1958: 649; Guinea 1946: 275). We have not found any herbarium specimen supporting these records.

Ptychopetalum petiolatum Oliv. in Oliv. (ed.), Fl. Trop. Afr. 1: 347 (1868)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, repetidor de televisión, *Pérez Viso 104* (MA-801953). Litoral: Distrito de Mbini, a 1.5 km al NE del Patio SOFOGE, *Nguema Miyono, N.S.*; *Obiang Mbomio, D. 6* (WAG); Bata-Pembe-Entuba, estrada kms 27-28, Entuba, *Carvalho 5238* (MA, MO, WAG).

Previously reported from Río Muni without any precise locality (Hepper 1958: 647; Hutch. & Dalz. 1928: 460; Guinea 1946: 275).

Strombosia grandifolia Hook.f., Niger Fl.: 258 (1849)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alen, cataratas del río Laña, Mosumu, *Pérez Viso 1591* (MA-796332). Litoral: Bata-Bolondo, estrada km. 35-36, *Carvalho 5953* (MA-610071, WAG).

Previously reported from Río Muni without any precise locality (Guinea 1946: 275).

Strombosia scheffleri Engl. in Notizbl. Königl. Bot. Gart. Berlin 3: 84 (1900).

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni without any precise locality (Hepper 1958: 648; Guinea 1946: 275). We have not found any herbarium specimen supporting these

records.

Strombosiopsis tetrandra Engl. in Engl. & Prantl (eds.), Nat. Pflanzenfam. Nachtr. 1: 148 (1897)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Añisok, *Pérez Viso* 1372 (MA-715591). Litoral: Miboman, *Castelo & al. s.n.* (MA-319785).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 96) and Río Muni without any precise locality (Hepper 1958: 649; Guinea 1946: 275).

OLEACEAE

Jasminum dichotomum Vahl, Symb. Bot. (Vahl) 1: 26 (1790)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alen, dalle rocheuse 3 km. l'O de ECOFAC, *Lejoly* 99/005 (MA-621845).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 96; 1999a: 119).

Noronhia congesta (Baker) Jongkind, Fl. Gabon 51: 13 (2018)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Litoral: Monts de Cristal, vallée de rivière Mitemelé, 10 km ENE d'Okuamkos, *Wilks* 1772 (MO, WAG); c. 11 km S of Bata, along coastal road and then 2 km. along track in Southern direction, *Wilde, J.J.F.E. de* 11994 (WAG); River Muni, *Mann, G.* 1747 (K); Bata-Bome, *Carvalho* 4957 (MA-597722, MO, WAG); 5187 (MA-593448, MO, WAG); 5422 (MA-614254, MO, WAG); 5515 (MA-599464, MO, WAG).

Not previously reported from Equatorial Guinea.

Olea capensis subsp. **macrocarpa** (C.H.Wright) I.Verd., in *Bothalia* 6: 590 (1956)

LC Native

Native to Tropical Africa, S. Africa and Madagascar. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Cape Region; Madagascan Region.

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 96; 1999b: 120). We have not found any herbarium specimen supporting these records.

ONAGRACEAE

Ludwigia abyssinica A.Rich., Tent. Fl. Abyss. 1: 274 (1848)

LC Native

Native to Tropical & S. Africa and Madagascar. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region.

Previously reported from Litoral (Lejoly & Lisowski 1998: 97). We have not found any herbarium specimen supporting this record.

Ludwigia africana (Brenan) H.Hara in J. Jap. Bot. 28: 291 (1953)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Bourobou 2018: 26)

Ludwigia octovalvis (Jacq.) P.H.Raven in Kew Bull. 15: 476 (1962)

LC Naturalized

Native to Tropical America, naturalized elsewhere in the Tropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Karroo Namib Region; Cape Region; Madagascan Region. Also known from Bioko.

Litoral: carretera de Mbini-Bata, puente Sendje sobre el río Wele o Woro, *M. Fero & al.* 310 (MA-844576).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 97) and Litoral (Lejoly & Lisowski 1998: 97).

OPILIACEAE

Urobotrya congolana (Baill.) Hiepko in Ber. Deutsch. Bot. Ges. 84(11): 662 (1972)
subsp. **congolana**

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 97) and Río Muni without any precise locality (Hepper 1958: 652). We have not found any herbarium specimen supporting these records.

OROBANCHACEAE

Alectra glandulosa Philcox in Bol. Soc. Brot., Ser. 2 60: 269 (1987)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Litoral: Bata-Bome, *Carvalho* 5566 (MA, MO, WAG).

Not previously reported from Equatorial Guinea.

Alectra sessiliflora (Vahl) Kuntze, Revis. Gen. Pl. 2: 458 (1891)

NE Native

Native from Tropical & S. Africa to Philippines. Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Bata-Niefang-Monte Alen, estrada km. 90-91, proximo a Niefang-Evinayong, *Carvalho* 5377 (MA-598263, MO, WAG).

Not previously reported from Río Muni.

OXALIDACEAE

Biophytum zenkeri Guillaumin in Not. Syst. (Paris) 1: 26 (1909)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye, estrada kms. 40, chegada a Senye sobre el río Benito, *Carvalho* 4912 (MA-597885, MO, WAG); Bata-Bicomo, no río Ecucu a montante da toma de agua para a Central Electrica, *Carvalho* 4777 (MA-597584, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 97).

Oxalis barrelieri L., Sp. Pl. (ed. 2): 624 (1762)

NE Naturalized

Native to Tropical America, naturalized elsewhere in the Tropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata, entre Asonga e o Aeroporto, *Carvalho* 4639 (MA-597325, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 97) and Litoral (Lejoly & Lisowski 1998: 97).

Oxalis corniculata L., Sp. Pl.: 435 (1753)

NE Naturalized

Native to N. Tropical America, naturalized worldwide. Africa. Also known from Annobón and Bioko.

Previously reported from Centro Sur (Guinea 1946: 300) and Kie Ntem (Guinea 1946: 184j). We have not found any herbarium specimen supporting these records.

PANEACEAE

Microdesmis camerunensis J.Léonard in Bull. Jard. Bot. État 31: 189 (1961)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Bata-Niefang-Monte Alen, subida a Monte Alen en dirección a Río Otom-Asok, *Carvalho* 5367 (MA-844796, MO, WAG); P.N. Monte Alén, Akonanyi, camino hacia Nguru, *Pérez Viso* 945 (MA-801951). Litoral: Bata-Pembe, estrada km. 23-24, *Carvalho* 5544 (MA-801959, MO, WAG); Bata-Pembe, río Mbia, estrada kms. 31-32, *Carvalho* 5282 (MA, MO, WAG).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 97).

Microdesmis klainei J.Léonard in Bull. Jard. Bot. État 31: 189 (1961)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 97). We have not found any herbarium specimen supporting this record.

Microdesmis pierlotiana J.Léonard in Bull. Jard. Bot. État 31: 171 (1961)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 98). We have not found any herbarium specimen supporting this record.

Microdesmis puberula Hook.f. ex Planch. in Hooker's Icon. Pl. 4, tab. 758 (1848)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Evian, entre Aconibe y Acurenam, *Pérez Viso* 1429 (MA-795900); Bata-Niefang-Monte Alen, *Carvalho* 5557 (MA-598776, MO, WAG); Bata-Monte Alen, base del Monte Alen, *Carvalho* 4594 (MA-511695, WAG). Litoral: Distrito de Mbini, a 1.5 km al NE del Patio SOFOGE, *Nguema Miyono, N.S.; Obiang Mbomio, D. 3* (BATA); Bata-Niefang: entre os rios Sama e Comayá, *Carvalho* 5608 (MA-801954, MO, WAG); Mokomo, km. 19 de la carretera de Kogo, *Pérez Viso* 3885 (MA-716181); Pembe. río Utonde, *Carvalho* 5402 (MA-598320, MO, WAG); Miboman, km. 27 carretera Bata-Movo, *Castelo & al. s.n.* (MA-319763). Río Muni: [without locality], *Eneme Efua* 316 (BATA, WAG); 416 (BATA, WAG); 417 (BATA, WAG); 442 (BATA, WAG). Wele Nzas: Añisok, *Pérez Viso* 4160 (MA-795907).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 98), Litoral (Lejoly & Lisowski 1998: 98), Wele Nzas (Lejoly & Lisowski 1998: 98) and Río Muni without any precise locality (Pax & Hoffmann 1911: 108).

Panda oleosa Pierre in Bull. Mens. Soc. Linn. Paris 2: 1255 (1896)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Niefang, estrada km 35, Mboete, *Carvalho* 5593 (MA, MO, WAG).

Not previously reported from Equatorial Guinea.

PAPAVERACEAE

Argemone mexicana L., Sp. Pl. 1: 508-509 (1753)

NE Introduced

Native to C. America, naturalized elsewhere in the Tropics and Subtropics. Naturalized in Africa.

Previously reported from Litoral (Guinea 1946: 154). We have not found any herbarium specimen supporting this record.

PASSIFLORACEAE

Adenia cissampeloides (Planch. ex Hook.) Harms in Engl. & Prantl (eds.), Nat. Pflanzenfam. Nachtr. 1: 255 (1897)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Litoral: Área de Mbini. Poblado de Bolondo y Matondo, *López Serrano* 170406, 170407 (MA); Nco, 20 km ENE vers la riv. Mitong, *N. Nguema & Lejoly* 143 (MA-612047). Río Muni: [without locality], *Eneme Efua* 375 (WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 98; Wilde 1971: 269, 271), Wele Nzaz (Lejoly & Lisowski 1998: 98; 1999a: 120; Guinea 1946: 150) and Río Muni without any precise locality (Hepper 1954: 203; Hutch. & Dalz. 1928: 174)

Adenia lobata subsp. **rumicifolia** (Engl. & Harms) Lye in Lidia 4(3): 92 (1998)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: Bata-Niefang, estrada km 35, zona de Comayá, *Carvalho* 5854 (MA-798271). Litoral: playa de Utonde, *Barberá & al.* 229 (MA-843809).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 98), Litoral (Guinea 1946: 155, 158; Lejoly & Lisowski 1998: 98) and Río Muni without any precise locality (Wilde 1971: 159; Hutch. & Dalz. 1928: 173).

Adenia poggei (Engl.) Engl. in Engl. & Drude, Veg. Erde 3(2): 603 (1921)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 98). We have not found any herbarium specimen supporting this record.

Adenia staudtii Harms in Engl. & Prantl (eds.), Nat. Pflanzenfam. Nachtr. 1: 255 (1897)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 98) and Río Muni without any precise locality (Wilde 1971: 172). We have not found any herbarium specimen supporting these records.

Barteria fistulosa Mast. in Oliv. (ed.), Fl. Trop. Afr. 2: 511 (1871)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Ayamiken, estrada kms 39-40, *Carvalho* 4925 (MA, MO, WAG).

Previously reported from Litoral (Guinea 1946: 156) and Wele Nzas (Guinea 1946: 146).

Barteria nigritana Hook.f. in J. Linn. Soc., Bot. 5: 15, tab. 2 (1861)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Jaudjè, *Eneme Efua* 464 (BATA, WAG); Bata-Bome, *Carvalho* 4796 (MA, MO, WAG); Bata-Bome, *Carvalho* 4766 (MA, MO, WAG); Ebongo, *Guinea* 404 (MA-387025).

Previously reported from Litoral (Lejoly & Lisowski 1998: 61; 1999a: 102) and Río Muni without any precise locality (Hepper 1954: 201; Hutch. & Dalz. 1928: 172)

Efulensia clematoides C.H.Wright in Hooker's Icon. Pl. 26: t. 2518 (1897)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alen, 5 km au NO de Engong, *Lejoly* 99/115 (MA-621706).

Litoral: Bata-Pembe, estrada km 19, *Carvalho* 5476 (MA-872052, MO, WAG); Bata-Monson-Dibolo, estrada km 57, *Carvalho* 4826 (MA, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 98).

Paropsia gabonica Breteler in Adansonia, sér. 3, 25: 247 (2003)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Mbini, estrada km 24, chegada à povoação de Anguok, *Carvalho 5449* (MA-832667, MO, WAG).

Not previously reported from Equatorial Guinea.

Paropsia grewioides Welw. ex Mast. in Oliv. (ed.), Fl. Trop. Afr. 2: 505 (1871)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Zona de Bomudi, *Carvalho 5333* (MA-598176, MO, WAG).

Not previously reported from Equatorial Guinea.

Passiflora edulis Sims in Bot. Mag. 45: pl. 1989 (1818)

NE Naturalized

Native to Brazil to NE. Argentina, naturalized elsewhere in the Tropics. Naturalized in Africa.

Kie Ntem: Akam, carretera hacia Nsok-Nsomo, *Fero & Esono 100* (MA-808309); *125* (MA-808723).

Not previously reported from Equatorial Guinea.

Passiflora foetida L., Sp. Pl.: 959 (1753)

NE Naturalized

Native to Tropical and Subtropical America, naturalized elsewhere in the Tropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: carretera de Monte Bata hacia río Campo: antigua trocha forestal, *Pérez Viso 2421* (MA-691701); Ayene, *Cabezas 99* (MA-695680). Kie Ntem: Nsok Nsomo a Nfuin, a unos 9 km de Nsok Nsomo, *Barberá & al. 199* (MA-831439); Nsok Nsomo, camino que va a Bata, Mocomo, *Cabezas & al. 1295* (MA-831850); Akam, *Fero & Esono 94* (MA-808315). Litoral: Benito, *Guinea 533* (MA-387102); Bata-Bicomo, estrada kms. 8-9, *Carvalho 5519* (MA-599452, MO, WAG); Ayamiken, Río Campo, *Pérez Viso 2832* (MA-690391); Benito, *Guinea 499* (MA-387101); Ondoa, km. 10 de la carretera del puerto de Bata, *Pérez Viso 3531* (MA-713046); Área de Mbini. Poblado de Miton y Minang, *López Serrano 120405, 120406* (MA). Río Muni: [without locality], *Eneme Efua 248* (WAG); *385* (WAG). Wele Nzaz: Añisok, *Pérez Viso 4171* (MA-687063); Añisok-Mongola, *Pérez Viso 3757* (MA-708890).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 99), Litoral (Lejoly & Lisowski 1998: 99; Guinea 1946: 154, 288h) and Río Muni without any precise locality (Guinea 1946: 64).

PEDALIACEAE

Sesamum radiatum Schumach. & Thonn., Enum. Pl. Hort. Hafn. Suppl. 2: 12 (1806)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian

Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 99) and Litoral (Lejoly & Lisowski 1998: 99; Guinea 1946: 356).

PENTADIPLANERACEAE

Pentadiplandra brazzeana Baill. in Bull. Mens. Soc. Linn. Paris 1(77): 611 (1886)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Niefang, estrada km 35, *Carvalho* 5576 (MA, MO, WAG). Litoral: Conisio, distrito de Kogo, *Obama* 735 (WAG); Bata-Mbia-EXFOSA, estrada km 41-42, *Carvalho* 5338 (MA-832716, MO, WAG); Bata-Niefang, estrada km 32, Minkan, *Carvalho* 4738 (MA-832709, MO, WAG); Bata-Mongo-Nosok, entre Mongo e Nosok, *Carvalho* 5066 (MA-610093, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 99).

PENTAPHYLACACEAE

Ternstroemia africana Melch. in Notizbl. Bot. Gart. Berlin-Dahlem 8: 659 (1924)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Pradera de Bome, *Carvalho* 5672 (MA-598980, WAG); Bata-Bome, *Carvalho* 5588 (MA-598815, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 131; 1999a: 102).

PERISDICACEAE

Soyauxia gabonensis Oliv. in Hooker's Icon. Pl. t. 1393 (1882)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 76). We have not found any herbarium specimen supporting this record.

PHYLLANTHACEAE

Antidesma laciniatum Müll.Arg. in Flora 47: 520 (1864)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Añisok, *Pérez Viso* 1363 (MA-808437). Wele Nzaz: Nchoh Yenguem, km. 38 de la carretera de Enkue, *Pérez Viso* 3710 (MA-713813).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 46) and Río Muni

without any precise locality (Léonard 1988: 19, 22).

Antidesma vogelianum Müll.Arg. in Flora 47: 529 (1864)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Annobón.

Centro Sur: Nfing Ntagan, poblado después de Mosumu en la carretera Niefang a Bata, *Pérez Viso* 2760 (MA-795885, WAG-331646); P.N. Monte Alén, subida al monte Alén, *Pérez Viso* 122 (MA-845425). Litoral: Bata-Mbini, estrada km 24, Anguok, empresa madeireira Exfosa, *Carvalho* 5440 (MA-599449, MO, WAG-142835); Nkinfala, km. 12 de la carretera de Kogo, *Pérez Viso* 3837 (MA-799879); Bata-Senge, estrada km 27, *Carvalho* 6254 (MA-620357). Río Muni: [without locality], *Eneme Efua* 382 (WAG); 473 (BATA, WAG). Wele Nzas: Alum, entre Mikomeseng y Nkue, *Pérez Viso* 3038 (MA-844018).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 46) and Litoral (Lejoly & Lisowski 1998: 46).

Bridelia atroviridis Müll.Arg. in J. Bot. 2: 327 (1864)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Esamalang, camino hacia Mondung, *Pérez Viso* 1134 (MA-808915). Wele Nzas: Acasakira, 3 Km au Sud de Nsork, *Obama & Lejoly* 562 (MA-612123).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 47).

Bridelia grandis Pierre ex Hutch. in Oliv. (ed.), Fl. Trop. Afr. 6(1): 1042 (1913)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: près de la frontière gabonaise; chantier forestier a l'est de Cogo, *McPherson, G.D.* 14007 (MO, WAG); Área de Mbini, poblado de Mangola y Bilén, *López Serrano* 180401, 180402, 180403 (MA); Monts de Cristal, Vallée de rivière Mitemelé, 10 km ENE d'Okuamkos, *C.M. Wilks* 1777 (WAG-198245).

Not previously reported from Equatorial Guinea.

Bridelia micrantha (Hochst.) Baill. in Adansonia 3: 164 (1863)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province,

Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Annobón and Bioko.

Litoral: Bata, Akoniquieng, *Carvalho* 5021 (MA-599224, MO, WAG-142276).

Previously reported from Litoral (Guinea 1946: 154) and Wele Nzas (Léonard 1955c: 374).

Cleistanthus polystachyus Hook.f. ex Planch. in Hooker's Icon. Pl. 8, tab. 779 (1848)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: village Basilé-Ncó, distrito de Kogo, *Obama* 792 (WAG-140999); Bata-Senge, estrada km 27, *Carvalho* 6118 (MA-619287, WAG-331657).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 47).

Hymenocardia ulmoides Oliv. in Hooker's Icon. Pl. 12, tab. 1131 (1873)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province).

Wele Nzas: inselberg Akuom (6 Km à l'est de Nsuamayong), *Obama & Lejoly* 629 (MA-612184).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 66; 1999a: 119).

Maesobotrya barteri (Baill.) Hutch. in Oliv. (ed.), Fl. Trop. Afr. 6(1): 669 1912.

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, senda que va desde el lago Atok hasta Moka, *Pérez Viso* 1350 (MA-796334; WAG-331641); Enkumekie, carretera Niefang a Evinayong, *Pérez Viso* 4082 (MA-795889, WAG-331629); 4090 (MA-795902, WAG-331621); P.N. Monte Alén, Enkumekien, *Pérez Viso* 1555 (MA-808441); 1564 (MA-808443); *Velayos & Pérez Viso* 9316 (MA-808442). Río Muni: [without locality], *F. Eneme* 476 (WAG-191703).

Not previously reported from Río Muni.

Maesobotrya bertramiana Büttner in Verh. Bot. Vereins Prov. Brandenburg 31: 93 (1889)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian

Region (Nigerian-Cameroonian Province, Congolian Province)

Litoral: Bata-Mbini, estrada km 24, Anguok, empresa madeireira Exfosa, *Carvalho* 5443 (MA-599442, MO, WAG-142838).

Not previously reported from Equatorial Guinea.

Maesobotrya griffoniana (Baill.) Pierre ex Hutch. in Oliv. (ed.), Fl. Trop. Afr. 6(1): 669 (1912)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Bata-Niefang, estrada km 35, *Carvalho* 5638 (MA, MO, WAG). Litoral: Bata-Bome, *Carvalho* 5600 (MA-844797, MO, WAG-143057); a 27 km. de Kogo por la carretera de Kogo, *R. Viso* 3991 (MA-795876, WAG-331630); Monts de Cristal, 11 km ENE d'Okuamkos, *C.M. Wilks* 1787 (MO, WAG-198271)

Not previously reported from Equatorial Guinea.

Maesobotrya klaineana (Pierre) J.Léonard in Bull. Jard. Bot. Belg. 63(1–2): 14 (1994)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Enkumekien, *Pérez Viso* 1525 (MA-795898, WAG-331618); Bicaba, carretera de Niefang a Monte Alén, *Pérez Viso* 3466 (MA-795883, WAG-331648); Bisun, carretera de Niefang a Evinayong, *Pérez Viso* 3406 (MA-808440); P.N. Monte Alén, Engong, camino del lago, *Velayos & al.* 9998 (MA-705021). Wele Nzaz: Ncoho Yenguem, km. 38 de la carretera de Enkue, *Pérez Viso* 3713 (MA-725948).

Previously reported from Litoral (Lejoly & Lisowski 1998: 51)

Maesobotrya longipes Hutch. in Oliv. (ed.), Fl. Trop. Afr. 6(1): 670 (1912)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Kie Ntem: Obot Nku-Eseng, a 7 km de Nsok Nsomo, *Barberá & al.* 172 (MA-831705).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 51).

Maesobotrya oligantha O.Lachenaud & Breteler in *Adansonia*, sér. 3 33(2): 216 (2011)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: SE du Parc National de Monte Alén, río Laña, Misergue (BRLU); Parc National de Monte Alén, Mosumo, *Senterre, B.* 4043 (BRLU); Monte Alén, *Ngomo* 443 (BRLU); 420 (BRLU); SW du Parc National de Monte Alén, río Uolo pour aller aux

cataractas, *Senterre, B.* 3022 (BRLU); 2993 (BRLU); P.N. Monte Alén, lago Atok, *Pérez Viso* 1056 (MA-844014).

Previously reported from Centro Sur (Lachenaud & Breteler 2011: 216).

Maesobotrya pauciflora Pax in Bot. Jahrb. Syst. 33: 281 (1904)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Ayamiken, estrada km 54-55, *Carvalho* 4927 (MA-861100, MO, WAG-142154).

Previously reported from Litoral (Lejoly & Lisowski 1998: 51).

Margaritaria discoidea (Baill.) G.L.Webster in J. Arnold Arbor. 48: 311 (1967)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Esamalang, camino hacia Mondung, *Pérez Viso* 1133 (MA-725810). Litoral: Bata-Mongo (Alosa), estrada kms 64-65, *Carvalho* 5539 (MA-598901, MO, WAG); Bata-Mbini, estrada km 13, zona forestal de Acanbot, *Carvalho* 6285 (MA-620436); Bata-Senge, estrada km 27, zona forestal de Eboga, *Carvalho* 6240 (MA-620311, WAG); Bata-Monte Bata-Mbubuin, estrada kms. 18-19, *Carvalho* 5088 (MA-599213, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 52).

Phyllanthus braunii Pax in Bot. Jahrb. Syst. 15: 525 (1892)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 52). We have not found any herbarium specimen supporting this record.

Phyllanthus dinklagei Pax in Bot. Jahrb. Syst. 19: 77 (1894)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Niefang, cruzamento para Mbini, *Carvalho* 4793 (MA-597872, MO, WAG-141971).

Previously reported from Litoral (Lejoly & Lisowski 1998: 53).

Phyllanthus fraternus G.L.Webster in Contr. Gray Herb. 176: 53 (1955)

NE Naturalized

Native to Pakistan and India, naturalized in Africa and N. America. Africa.

Previously reported from Litoral (Lejoly & Lisowski 1998: 53). We have not found any herbarium specimen supporting this record.

Phyllanthus gabonensis Brunel, Gen. Phyllanthus Afr. Intertrop. Madag.: 350 (1987)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Bome, *Carvalho 5001* (MA-598930, MO, WAG-142265); *5122* (MA-599677, MO, WAG-142396).

Not previously reported from Equatorial Guinea.

Phyllanthus muellerianus (Kuntze) Exell, Cat. Vasc. Pl. S. Tome: 290 (1944)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Sendje (Senye), estrada kms 23-24, *Carvalho 5256* (MA-598015, MO, WAG-142576); Bata-Senye (Senge), estrada km 40, río Benito, *Carvalho 5131* (MA-599715, MO, WAG-142406).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 53).

Phyllanthus niruroides Müll.Arg. in J. Bot. 2: 331 (1864)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Área de Machinda, poblado de Njacom, *López Serrano 120306* (MA).

Not previously reported from Río Muni.

Phyllanthus nummulariifolius Poir. in Lam., Encycl. 5: 302 (1804)

NE Native

Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Centro Sur: inselberg de Bicurga, près du village de Bicurga, *I. Parmentier 1664* (WAG-271542). Kie Ntem: inselberg de Djimbamarac (mfuin1), près de la route à 15 min de marche du village de Mfuin, à 15 km de Nsok Nsomo, *Nguema & Parmentier 405* (WAG-271541).

Not previously reported from Río Muni.

Phyllanthus physocarpus Müll.Arg. in Flora 47: 515 1864.

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province). Also known from Bioko.

Litoral: Masamabe, a 12 km de Kogo, *Pérez Viso* 3915 (MA-845417)

Not previously reported from Río Muni.

Phyllanthus reticulatus Poir. in Lam., Encycl. 5: 298 (1804)

LC Naturalized

Native from Tropical & Subtropical Asia to N. Australia, naturalized in Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Annobón.

Previously reported from Litoral (Lejoly & Lisowski 1998: 53). We have not found any herbarium specimen supporting this record.

Phyllanthus urinaria L., Sp. Pl.: 982 (1753)

NE Introduced

Native from Tropical & Subtropical Asia to N. Australia, naturalized in Tropical America and Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Área de Mbini, poblado de Mangala y Ncua- Esis, *López Serrano* 130419 (MA); Área de Mbini, poblado de Mangola y Bilen, *López Serrano* 180409 (MA).

Not previously reported from Río Muni.

Protomegabaria macrophylla Hutch. in Hooker's Icon. Pl. 30, tab. 2929 (1911)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: village Basilé-Ncó, distrito de Kogo, *Obama* 787 (WAG-141017); Exploitation SEMGE, Mitemelé, *J.J. Dibata* 460 (WAG-108631).

Not previously reported from Equatorial Guinea.

Protomegabaria stapfiana (Beille) Hutch. in Hooker's Icon. Pl. 30: t. 2929 (1911)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Monts de Cristal, 8 Km ENE d'Okuamokos, *Wilks* 1765 (LBV, MO, WAG); Bata-Senge, estrada km 27, antigua explotación forestal de Exfosa, *Carvalho* 6119 (MA-642566); 6204 (MA-619293).

Not previously reported from Río Muni.

Thecacoris leptobotrya (Müll.Arg.) Brenan in Kew Bull. 1952: 446 (1953)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 54). We have not found any herbarium specimen supporting this record.

Thecacoris lucida (Pax) Hutch. in Oliv. (ed.), Fl. Trop. Afr.6: I. 660 (1913)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 54). We have not found any herbarium specimen supporting this record.

Thecacoris viridis (Müll.Arg.) Leandri ex G.L.Webster in Ann. Missouri Bot. Gard. 81: 52 (1994)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Río Muni: [without locality], *F. Eneme* 406 (WAG-191759).

Previously reported from Litoral (Breteler 2011: 349).

Uapaca acuminata (Hutch.) Pax & K.Hoffm. in Engl., Pflanzenr. IV, 147, XV: 308 (1922)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Niefang, *Castelo & al. s.n.* (MA-319738).

Previously reported from Litoral (Lejoly & Lisowski 1998: 54).

Uapaca guineensis Müll.Arg. in Flora 47: 517 (1864)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Niefan, explotación forestal de Matroguisa, *Pérez Viso* 2261 (MA-724062); Carretera de Niefang a Evinayong, km 15, poblado cerca de Ndong, *Cabezas* 87 (MA-695671). Litoral: Bata-Dibolo, estrada kms. 60-61, *Carvalho* 5213 (MA-599741, MO, WAG-142512); prairie de Baga, *F. Eneme* 339 (WAG-191767); Etembue, Espigon (réserve de Ndote), *Obama & Lejoly* 609 (MA-612192).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 54), Litoral (Breteler 2013: 81; Lejoly & Lisowski 1998: 54) and Wele Nzas (Lejoly & Lisowski 1998: 54; 1999a: 120).

Uapaca heudelotii Baill. in *Adansonia* sér.1 1: (1860-61) 81 (1860)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bicomo, margens del Río Ecucu, *Carvalho* 5217 (MA-599737, MO, WAG-142517); 5222 (MA-599639, MO, WAG-142525). Wele Nzas: Nkolentangan, *Tessmann, G.* 172 (K).

Previously reported from Wele Nzas (Breteler 2013: 82).

Uapaca mole Pax in Bot. Jahrb. Syst. 19: 79 (1894)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Añisok, *Pérez Viso* 1368 (MA-715169, WAG-271353). Wele Nzas: Nkolentangan, Bianemajong (Niamayong), *Tessmann, G.* 76 (K).

Previously reported from Centro Sur (Breteler 2013: 85) and Wele Nzas (Breteler 2013: 83).

Uapaca staudtii Pax in Bot. Jahrb. Syst. 23: 522 (1897)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: près de la frontière gabonaise, chantier forestier à l'est de Cogo, *McPherson, G.D.* 14018 (MO, P); Bata-Senge, estrada km. 27, antigua explotación forestal de Exfosa, *Carvalho* 6112 (MA-618995).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 54), Litoral (Breteler 2013: 88; Lejoly & Lisowski 1998: 54, 55).

PHYTOLACCACEAE

Hillieria latifolia (Lam.) H.Walter in Engl., *Planzenr.* 39(IV.83): 81 (1909)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 157, 159) and Wele Nzas (Guinea 1946: 151). We have not found any herbarium specimen supporting these records.

Phytolacca dodecandra L'Hér., Stirp. Nov.: 143 (1785)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region.

Litoral: carretera Ayap, *Guinea* 37-367 (MA-715304).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 99), Kie Ntem (Guinea 1946: 278, 320g) and Río Muni without any precise locality (Cufodontis 1953: 82; Guinea 1946: 278).

PITTOSPORACEAE

Pittosporum viridiflorum Sims in Bot. Mag. 41, tab. 1684 (1814)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 286). We have not found any herbarium specimen supporting this record.

PLANTAGINACEAE

Bacopa crenata (P.Beauv.) Hepper in Kew Bull. 14: 407 (1960)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province).

Litoral: Bata-Bome, *Carvalho* 4688 (MA, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 125).

Scoparia dulcis L., Sp. Pl.: 116 (1753)

NE Naturalized

Native to Tropical & Subtropical America, naturalized elsewhere in the Tropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: Área de Evinayong, municipio de Bicurga, *López Serrano* 230501 (MA). Litoral: Área de Machinda, poblado de Asesok, *López Serrano* 280306 (MA); Yengüe, Río Campo, *Pérez Viso* 2810 (MA-745502); Benito, *Guinea* 569 (MA-698918); 1047 (MA-698919); 1048 (MA-698917); Bata-Pembe, estrada km. 22-23, *Carvalho* 5161 (MA, MO, WAG). Río Muni Región del Mafanabú [bosques entre Centro Sur y Wele Nzas], *Guinea* 213 (MA-698921).

Previously reported from Centro Sur (Guinea 1946: 184i) and Litoral (Lejoly & Lisowski 1998: 125).

PODOSTEMACEAE

Macropodiella uoroensis Rial in Adansonia, sér. 3 24: 296 (2002)

VU Endemic

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Parque Nacional Monte Alen. Río Muni. Río Uoro. Midyobo, A. *Rial* & C. *Lasso* 38 (MA-710948).

Previously reported from Centro Sur (Rial 2002: 296).

Tristicha trifaria (Bory ex Willd.) Spreng., Syst. Veg., ed. 16 1: 22 (1824) subsp. **trifaria**

LC Native

Native to the Tropics and Subtropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region. Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 163). We have not found any herbarium specimen supporting this record.

POLYGALACEAE

Carpolobia alba G.Don., Gen. Hist. 1: 370 (1831)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: inselberg de Bicurga, *Parmentier, I. 1812* (WAG-1225798); Niefang, explotación forestal de Matroguisa, *Pérez Viso 2338* (MA-780380); P.N. Monte Alén, Engong, camino hacia Lovayat, *Pérez Viso 839* (MA-711421); Evinayong, *Guinea 57-438* (MA-715681); *58-440* (MA-715680); *59-439* (MA-715679); *61-436* (MA-715678); *221-62* (MA-715677); Bata-Monte Alen-Engon, estrada km. 97, entre Moka e Angon, *Carvalho 5523* (MA-599456, MO, WAG); Distrito de Niefang, poblado de Edum, *Gómez Marín & al. 122* (MA-856952); c. 7 km S of ECOFAC-Hotel, *Wilde, J.J.F.E. de 12045* (MO, WAG). Litoral: Área de Machinda, poblado de Mbuihuiñ cdo, *López Serrano 270311, 270312, 270313* (MA); Bata-Niefang, estrada km. 35, en la zona de Adjape y Comayá, entre los Ríos Sama y Comayá, *Carvalho 5828* (MA-610055, WAG); Bata-Bolondo, estrada km. 35-36, *Carvalho 5941* (MA-610008, WAG). Río Muni: [without locality], *Eneme Efua 370* (BATA). Wele Nzaz: Nochadum, *Tessmann, G. 225* (K-41057); entre Nsuamayong et inselberg Akuom, *Obama & Lejoly 648* (MA-612185).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 100), Litoral (Lejoly & Lisowski 1998: 100), Wele Nzaz (Lejoly & Lisowski 1998: 100); Breteler & Smissaert-Houwing 1977: 27; Guinea 1946: 145, 149) and Río Muni without any precise locality

(Breteler & Smissaert-Houwing 1977: 27).

Polygala cabrae Chodat in Bull. Herb. Boissier 6: 888 (1898)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: PN de Monte Alen, In. de Engong, *Nguema Miyono*, N.S. 437 (BRLU).

Not previously reported from Río Muni.

Polygala capillaris subsp. **perrottetiana** (Paiva) Paiva in Fontqueria 50: 161 (1998)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 100). We have not found any herbarium specimen supporting this record.

Polygala lecardii Chodat in Mém. Soc. Phys. Genève 31(2): 222 (1893)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bome, *Carvalho* 4669 (MA-597517, MO, WAG).

Not previously reported from Equatorial Guinea.

POLYGONACEAE

Afrobrunnichia africana (Welw.) Hutch. & Dalz. in Bull. Misc. Inform. Kew 28 (1928)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzaz (Guinea 1946: 149). We have not found any herbarium specimen supporting this record.

Afrobrunnichia erecta (Asch.) Hutch. & Dalz., Fl. W. Trop. Afr. 1: 118 (1927)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Pembe, estrada km 24-25, *Carvalho* 4809 (MA, MO, WAG).

Not previously reported from Equatorial Guinea.

Antigonon leptopus Hook. & Arn., Bot. Beechey Voy.: 308, tab. 69 (1838)

NE Naturalized

Native from Mexico to Central America, naturalized elsewhere in the Tropics and

Subtropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni (Guinea 1946: 277). We have not found any herbarium specimen supporting this record.

Persicaria lanigera (R.Br.) Soják in Preslia 46(2): 153 (1974)

LC Native

Native from Kriti to Tropical Old World. Irregularly dispersed in Africa.

Previously reported from Centro Sur (Guinea 1946: 184f, 184i) and Litoral (Guinea 1946: 168k, 277). We have not found any herbarium specimen supporting these records.

Persicaria lapathifolia (L.) Delarbre, Fl. Auvergne (Delarbre) 519 (1800)

LC Naturalized

Probably native to the Northern Hemisphere and naturalized in the Southern Hemisphere. Africa.

Previously reported from Litoral (Guinea 1946: 157). We have not found any herbarium specimen supporting these records.

Persicaria senegalensis (Meisn.) Soják in Preslia 46(2): 155 (1974)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Karroo Namib Region; Cape Region; Madagascan Region.

Litoral: Bata-Zona de Ngoló, *Carvalho* 4794 (MA-597873).

Not previously reported from Equatorial Guinea.

Rumex abyssinicus Jacq., Stapel. Hort. Vindob. Cult. 3: 48, tab. 93 (1776)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region. Also known from Bioko.

Previously reported from Río Muni (Cufodontis 1953: 38; Guinea 1946: 277). We have not found any herbarium specimen supporting these records.

PORTULACACEAE

Portulaca oleracea L., Sp. Pl.: 445 (1753)

LC Native

Native from Tropical Africa and Mediterranean to Pakistan and Arabian Peninsula, naturalized worldwide. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province);

Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Karroo Namib Region; Cape Region; Madagascan Region. Also known from Annobón and Bioko.

Previously reported from Centro Sur (Guinea 1946: 279), Kie Ntem (Guinea 1946: 184j), Litoral (Lejoly & Lisowski 1998: 101) and Río Muni without any precise locality (Guinea 1946: 86). We have not found any herbarium specimen supporting these records.

PRIMULACEAE

Ardisia staudtii Gilg in Bot. Jahrb. Syst. 30: 99 (1902)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Bicurga, *Lejoly* 99/470 (MA-621685). Litoral: Sendje, *Pérez Viso* 3387 (MA-713037).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 90) and Wele Nzas (Lejoly & Lisowski 1998: 90).

Ardisia zenkeri Gilg in Bot. Jahrb. Syst. 30: 100 (1901)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 90). We have not found any herbarium specimen supporting this record.

PUTRANJIVACEAE

Drypetes arborescens (Oliv.) Hutch. in Oliv. (ed.), Fl. Trop. Afr. 6(1): 680 (1912)

DD Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Río Muni (Harris *et al.* 2021: 116)

Drypetes bipindensis (Pax) Hutch. in Oliv. (ed.), Fl. Trop. Afr. 6(1): 679 (1912)

DD Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Río Muni (Harris *et al.* 2021: 123)

Drypetes calvescens Pax & K.Hoffm., in Engl. (ed.), Pflanzenr. IV,147, XV: 276 (1922)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: transecto en el Monte Alén, 1°39'N 10°18'E, 19 Apr. 2001, *D. Ngomo* 909

(BRLU).

Previously reported from Centro Sur (Quintanar *et al.* 2022,e120: 8)

Drypetes capillipes (Pax) Pax & K.Hoffm. in Engl. (ed.), Pflanzenr. IV, 147, XV: 260 (1922)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 48). We have not found any herbarium specimen supporting this record.

Drypetes chevalieri Beille ex Hutch. & Dalz. in Bull. Soc. Bot. France 61. Mem. 8 (1914)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 49). We have not found any herbarium specimen supporting this record.

Drypetes cinnabarina Pax & K.Hoffm. in Engl. (ed.), Pflanzenr., IV, 147, XV: 263 (1922)

DD Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Harris *et al.* 2021: 128).

Drypetes diopa (Hiern) Brenan in Kew Bull. 8: 92 (1953)

DD Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Harris *et al.* 2021: 130).

Drypetes fallax Pax & K.Hoffm. in Engl. (ed.), Pflanzenr., IV, 147, XV: 242 (1922)

DD Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Harris *et al.* 2021: 130).

Drypetes gilgiana (Pax) Pax & K.Hoffm. in Engl. (ed.), Pflanzenr., IV, 147, XV: 261 (1922)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Harris *et al.* 2021: 133).

Drypetes gossweileri S.Moore in J. Bot. 58: 271 (1920)

DD Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Harris *et al.* 2021: 135).

Drypetes inaequalis Hutch. in Oliv. (ed.), Fl. Trop. Afr. 6(1): 684 (1912)

DD Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Congolian Province).

Previously recorded from Rio Muni (Harris *et al.* 2021: 138)

Drypetes klainei Pierre ex Pax in Bot. Jahrb. Syst. 43: 219 (1909)

DD Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Congolian Province).

Previously recorded from Rio Muni (Harris *et al.* 2021: 138).

Drypetes laciniata (Pax) Hutch. in Oliv. (ed.), Fl. Trop. Afr. 6(1): 677 (1912)

NT Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Harris *et al.* 2021: 139).

Drypetes magnistipula (Pax) Hutch. in Oliv. (ed.), Fl. Trop. Afr. 6(1): 689 (1912)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Harris *et al.* 2021: 142).

Drypetes moliwensis Cheek & Radcl.-Sm. in Kew Bull. 55: 895 (2000)

CR Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Harris *et al.* 2021: 143)

Drypetes occidentalis (Müll.Arg.) Hutch. in Oliv. (ed.), Fl. Trop. Afr. 6(1): 683 (1912)

DD Native

Tropical Africa. Guineo-Congolian Region (Congolian Province).

Previously recorded from Rio Muni (Harris *et al.* 2021: 145)

Drypetes paxii Hutch. in Oliv. (ed.), Fl. Trop. Afr. 6(1): 681 (1912)

DD Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Harris *et al.* 2021: 147)

Drypetes spinosodentata (Pax) Hutch. in Oliv. (ed.), Fl. Trop. Afr. 6(1): 688 (1912)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Harris *et al.* 2021: 154)

Drypetes staudtii (Pax) Hutch. in Oliv. (ed.), Fl. Trop. Afr. 6(1): 685 (1912)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Harris *et al.* 2021: 155)

Drypetes stipularis (Müll.Arg.) Hutch. in Oliv. (ed.), Fl. Trop. Afr. 6(1): 685 (1912)

DD Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Rio Muni (Harris *et al.* 2021: 156).

RANUNCULACEAE

Thalictrum rhynchocarpum Quart.-Dill. & A.Rich. in Ann. Sci. Nat., Bot., sér. 2, 14: 262 (1840) subsp. **rhynchocarpum**

NE Native

Tropical Africa. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Karroo Namib Region; Cape Region. Also known from Bioko.

Previously reported from Río Muni without any precise locality (Mas-Guindal 1944: 64). We have not found any herbarium specimen supporting this record.

RHAMNACEAE

Gouania longipetala Hemsl. in Oliv. (ed.), Fl. Trop. Afr. 1: 383 (1868)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Bicomo, arredores da Central Hidroelectrica no río Ecucu, *Carvalho 4915* (MA, MO, WAG); Bata-Punta Mbonda, estrada km. 21-22, entre Nasanga e Niñeng,

Carvalho 4743 (MA-844800, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 102), Wele Nzas (Lejoly & Lisowski 1998: 102; 1999a: 119) and Río Muni without any precise locality (Hepper 1958: 670).

Lasiodiscus mannii Hook.f. in Gen. Pl. (Bentham & Hook.f.) 1: 381 (1862)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: Nkolendangan, *Tessmann, G.* 89 (K); Eviam, Aconibe-Acurenam, *Pérez Viso 1823* (MA-745478).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 102), Litoral (Guinea 1946: 318), Wele Nzas (Figueiredo 1995: 507) and Río Muni without any precise locality (Hepper 1958: 671).

Lasiodiscus marmoratus C.H.Wright in Bull. Misc. Inform. Kew 248 (1897)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Moka, cerca de Monte Alen, *Obama 942* (K).

Not previously reported from Equatorial Guinea.

Lasiodiscus rozeirae Exell, Comm. Conf. Intern. Afr. Oc. sess 6 3: 82 (1958)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bicomo, estrada km. 22, captação de água a central hidroelectrica no rio Ecucu, *Carvalho 5455* (MA, MO, WAG).

Not previously reported from Equatorial Guinea.

Maesopsis eminii Engl. in Engl., Pflanzenw. Ost-Afrikas: 255 (1895)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 102). We have not found any herbarium specimen supporting this record.

RHIZOPHORACEAE

Anopyxis klaineana (Pierre) Engl. in Engl. & Prantl (eds.), Nat. Pflanzenfam. Nachtr. 2: 49 (1900)

VU Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: transect de Monte Alén, *G. Desmet & al.* (BRLU-34995); SE du Parc National de Monte Alén, au S du río Laña, près de la cabaña Ecofac de Misegue, *B. Senterre & D. Obiang 3343* (BRLU-8227); Mosumo, *G. Desmet & et al. 316* (BRLU-35178).

Previously reported from Litoral (Guinea 1946: 338).

Cassipourea barteri Engl. & Brehmer in Bot. Jahrb. Syst. 54: 369 (1917)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Ndote Nord, près du village Jandye, *S. Lisowski M-255* (BRLU-28725); costa Diádive, *Guinea 178-850* (MA-715323).

Previously reported from Litoral (Lejoly & Lisowski 1998: 102; 1999a: 102; Guinea 1946: 168j).

Cassipourea ndambiana Breteler in Edinburgh J. Bot. 65: 420 (2008)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Senge-Mitom-Emangós, estrada kms. 56-57, *Carvalho 6488* (MA-634139).

Not previously reported from Equatorial Guinea.

Cassipourea plumosa (Oliv.) Alston in Bull. Misc. Inform. Kew 1925: 266 (1925)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: [without locality], *Mann, G. 1818* (U); Bata-Senge, estrada km 40, sobre el puente del río Benito, *Carvalho 6423* (MA-634147).

Not previously reported from Equatorial Guinea.

Comiphyton gabonense Floret in Adansonia, sér. 2 14(3): 501 (1974)

NT Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: SO du Parc National de Monte Alén, 200m au S du transect de Mosumo, *B. Senterre & D. Ngomo 696* (BRLU-350).

Not previously reported from Equatorial Guinea.

Rhizophora mangle L., Sp. Pl.: 443 (1753)

LC Native

Native to Tropical America and Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Etara, sur la riv. Congue (estuaire de Río Muni), *Nguema & Lejoly 1* (BRLU-28729); au S de Bata, bord du fleuve Ekuka, *S. Lisowski M-1196* (BRLU-28735); Punta Mbonda, *Guinea 333* (MA-715313); cabo San Juan, *Del Val s.n.* (MA-727694, 727696); Etembue, *Del Val s.n.* (MA-715316); Bata: Utonde, en el río, *Castelo & al.s.n.* (MA-319748).

Previously reported from Litoral (Lejoly & Lisowski 1998: 103; Guinea 1946: 24c, 165, 166, 167, 168j, 184, 320a).

Rhizophora racemosa G.Mey., Prim. Fl. Esseq.: 185 (1818)

LC Native

Native to Tropical America and Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: border of Ntem river, 3 km NE of Yengüe, *Wieringa, J.J 2262* (MO, WAG); S de Bata, bord du fleuve Ekuka, *S. Lisowski M-1194* (BRLU); entre Mayang et Mitong (estuaire du Río Muni), *Nguema et Lejoly 35* (BRLU-28733); réserve de Río Campo, près du village Niuma, *S. Lisowski M-991* (BRLU-28734); Miwala, à 5 km de Kogo, *Pérez Viso 3958* (MA-708872).

Previously reported from Litoral (Lejoly & Lisowski 1998: 103).

ROSACEAE

Rubus pinnatus Willd. in L., Sp. Pl. (ed. 4) 2(2): 1081 (1799)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: near ECOFAC-Hotel, base of Mount Alen, *Wilde, J.J.F.E. de 12032* (WAG); Parque Nacional de Monte Alén, 5 km al NO de Engong, *Lejoly 99/72* (BRLU); Parque Nacional de Monte Alén, losa rocosa de Engong, 5 km al oeste de Engong, *I. Parmentier & P. Esono 2973* (BRLU); Monte Alén, *D. Ngomo 239* (BRLU); P.N. Monte Alén, carretera que sube desde el hotel de Monte Alén hasta el repetidor de televisión, *Pérez Viso 60* (MA-936612); P.N. Monte Alén, Esamalang, *Pérez Viso 593* (MA-715843); Ngong, praderas de Akwaosí, *Cabezas 178* (MA-695777); Bata-Niefang-Monte Alen, estrada km. 92 llegada a Monte Alen, *Carvalho 5554* (MA-598779, MO, WAG); Parque Nacional de Monte Alén-Transecto de Monte Alén, *van Reeth 352* (BRLU).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 103) and Río Muni without any precise locality (Hutch. & Dalz. 1928: 314; Guinea 1946: 286).

RUBIACEAE

Aidia micrantha (K.Schum.) Bullock ex F.White, For. Fl. N. Rhodes.: 398, 455 (1962).

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Engong, senda que va a una gran roca que se ve desde el pueblo, *Pérez Viso* 2694 (MA-808206); subida al Monte Chocolate, transecto que está entre Monduá y el transecto de Aconangui, *Cabezas* 191 (MA-695537). Kie Ntem: Ngomgom, poblado de la pista que va de Nsok Nsomo a Bata, *Barberá & al.* 56 (MA-831643); Akam, *Fero & Esono* 79 (MA-808294). Río Muni: [without locality], *P. Esono & D. Obiang* 524 (MA-803915); *Esono & Ndong* 444 (MA-803909); 574 (MA-803885). Wele Nzaz: Ebo-Ngoo Nsomo, carretera forestal Añisok Mongola-Niefang, *Pérez Viso* 3187 (MA-717135).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 103) and Wele Nzaz (Lejoly & Lisowski 1998: 103; 1999a: 120).

Aidia ochroleuca (K.Schum.) E.M.A.Petit in Bull. Jard. Bot. État 31: 2 (1961)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Río Campo, *Sonké, B. & Esono, P.* 2562, 2565 (WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 103) and Wele Nzaz (Lejoly & Lisowski 1998: 103).

Aidia rubens (Hiern) G.Taylor in Exel, Cat. Vasc. Pl. S. Tome 200 (1944)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Niefang: Estrada km. 35. Empresa de madera de ABM en zona de Comayá, *Carvalho* 5633 (MA-598579, MO, WAG); Bata-Senye (Senge)-Mitom-Emangës, estrada kms. 68-69 después de Emangós, *Carvalho* 6473 (MA-620821).

Not previously reported from Equatorial Guinea.

Aorantho cladantha (K.Schum.) Somers in Bull. Jard. Bot. Natl. Belg. 58(1-2): 71 (1988)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Kie Ntem: carretera que va de Nsok Nsomo a Nfuin, a unos 11 km de Nsok Nsomo, *Barberá & al.* 203 (MA-831746). Litoral: Bata, alrededores de Akonikieng, *Carvalho* 5016 (MA-712717, MO). Río Muni: [without locality], *P. Esono & D. Obiang* 445 (MA-803911).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 116)

Atractogyne bracteata (Wernham) Hutch. & Dalz., Fl. W. Trop. Afr. 2: 98 (1931)
NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Senye, estrada km. 38, *Carvalho* 6275 (MA-795324). Wele Nzas: Bimbile, *Guinea* 41, 320 (MA-737149).

Previously reported from Litoral (Lejoly & Lisowski 1998: 103).

Atractogyne gabonii Pierre in Bull. Mens. Soc. Linn. Paris 1: 1262 (1896)
NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: near ECOFAC-Hotel, base of Mount Alen, *Wilde, J.J.F.E. de* 12030 (WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 103).

Aulacocalyx caudata (Hiern) Keay in Bull. Jard. Bot. État 28: 60 (1958)
LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: P.N. Monte Alén, Enkumekien, *Pérez Viso* 1526 (MA-718002). Litoral: Bata-Niefang, estrada km. 35, entre Río Sama e Río Comayá, *Carvalho* 5653 (MA-598526, MO, WAG).

Not previously reported from Equatorial Guinea.

Aulacocalyx jasminiflora Hook.f. in Hooker's Icon. Pl. 12, tab. 1126 (1873) subsp. **jasminiflora**

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: village Eman-Nges, distrito de Kogo, *Obama, C.* 818 (WAG-1428725).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 104) and Litoral (Lejoly & Lisowski 1998: 104).

Aulacocalyx subulata (N.Hallé) Figueiredo in Kew Bull. 52(3): 643 (1997) subsp. **subulata**

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Anguoc-Mbini, estrada km 28, entrada antigua de exploração florestal de Exfosa, *Carvalho* 5534 (MA-598906, MO, WAG).

Not previously reported from Equatorial Guinea.

Aulacocalyx talbotii (Wernham) Keay in Bull. Jard. Bot. État 28: 61 (1958)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Niefang, estrada km. 35, empresa de madera de ABM en zona de Comayá, *Carvalho* 5641 (MA-598555, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 104). We have not found any herbarium specimen supporting this record.

Bertiera adamsii (Hepper) N.Hallé in Adansonia, sér. 2 3: 177 (1963)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzaz (Lejoly & Lisowski 1998: 104). We have not found any herbarium specimen supporting this record.

Bertiera aequatorialis N.Hallé in Not. Syst., Paris, 16: 286 (1961)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Miyobo, carretera Niefang-Mosumu, senda hacia el río Laña, *Pérez Viso* 2550 (MA-717161).

Not previously reported from Equatorial Guinea.

Bertiera aethiopica Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 83 (1877)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Niefang, Bindeng, pista hacia el río Uoro, *Pérez Viso* 2415 (MA-717708); P.N. Monte Alén, Enkumekien, *Pérez Viso* 1559 (MA-717999); Bata-Niefang-Monte Alén, chegada de Río Otom-Asok, *Carvalho* 5351 (MA-598281, MO, WAG). Kie Ntem: Ngomgom, poblado de la pista que va de Nsok Nsomo a Bata, *Barberá & al.* 109 (MA-831682). Wele Nzaz: Nchoh Yenguem, km. 38 de la carretera de Nkue, *Pérez Viso* 3699 (MA-717541); Ebo-Ngoo Nsomo, carretera forestal Añisok Mongola-Niefang, *Pérez Viso* 3182 (MA-717138).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 104).

Bertiera batesii Wernham in J. Bot. 50: 156 (1912)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Mosumo, desde la cabaña de las cataratas hasta las cataratas del Laña, *Aedo & al.* 5142 (MA-718291); Monte Alén, subida al mirador, *Cabezas* 124 (MA-695657). Río Muni: [without locality], *Esono & Ndong* 587 (MA-803892).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 104), Litoral (Lejoly & Lisowski 1998: 104) and Wele Nzas (Lejoly & Lisowski 1998: 104).

Bertiera bracteolata Hiern in Oliv. (ed.), Fl. Trop. Afr.3: 84 (1877)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Centro Sur: c. 11 km S of Niefan, Mount Alen National Park, *Wilde, J.J.F.E. de* 12005 (BATA, WAG-). Litoral: Bata-Ayamiken, estrada km.58, chegada ao río Meyang, *Carvalho* 4934 (MA-833740, MO, WAG); Bata-Machinda-Ncomococ, zona florestal de Nsue-Mang, *Carvalho* 5067 (MA-599183, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 104).

Bertiera breviflora Hiern in Oliv. (ed.), Fl. Trop. Afr.3: 85 (1877)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: [without locality], *Esono & Ndong* 580 (MA-803891). Wele Nzas: Añisok, *Pérez Viso* 4184 (MA-717974); entre Nsuameyong et inselberg Akuom, *Obama & Lejoly* 407 (MA-612037).

Previously reported from Litoral (Lejoly & Lisowski 1998: 105) and Wele Nzas (Lejoly & Lisowski 1998: 105).

Bertiera globiceps K.Schum. in Bot. Jahrb. Syst. 23: 451 (1897)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Kie Ntem: Akam, *Fero & Esono* 58 (MA-808139).

Bertiera iturensis K. Krause, Wiss. Erg. Deut. Zentr.-Afr. Exped. (1907-1908), Bot. 2: 324 (1911)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Monte Alen, próximo al río Oton Asok, *Carvalho* 5427 (MA-598444, MO, WAG).

Not previously reported from Equatorial Guinea.

Bertiera laxa Benth. in Hook. (ed.), Niger Fl. 394 (1849) var. **laxa**

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: Abobem, Niefang, *Pérez Viso* 4194 (MA-717972). Kie Ntem: Ngomgom, poblado de la pista que va de Nsoc Nsomo a Bata, *Barberá & al.* 119 (MA-831692); Nfuiñ, a 29 km de Nsoc Nsomo por la pista que va hacia Bata, *Cabezas & al.* 1360 (MA-831788); Akam, *Fero & Esono* 67 (MA-808141). Río Muni: [without locality], *Esono & Ndong* 435 (MA-803898).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 105), Litoral (Lejoly & Lisowski 1998: 105) and Wele Nzas (Lejoly & Lisowski 1998: 105).

Bertiera naucleoides (S.Moore) Bridson in Kew Bull. 33(4): 554 (1979)

Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 105). We have not found any herbarium specimen supporting this record.

Bertiera racemosa (G.Don) K.Schum. in Bol. Soc. Brot. 10: 127 (1892)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Bindung, km. 17 de la carretera de Niefang, *Pérez Viso* 3791 (MA-717539); Evinayong, *Guinea* 299, 330 (MA-737152); 339 (MA-699241); Niefang, Bindeng, pista hacia el río Uoro, *Pérez Viso* 2396 (MA-735723); P.N. Monte Alén, Engong, *Pérez Viso* 344 (MA-717559); 2676 (MA-808229). Kie Ntem: Obot Nku-Eseng, a 7 km de Nsok Nsomo, *Barberá & al.* 155 (MA-831433); Akam, camino a Oyò, *Fero & Esono* 147 (MA-808754). Litoral: Engong, *Sonké, B.* 2545 (WAG-1552559, 1552740); Río Campo, cerca de Bongoro, *Pérez Viso* 2192 (MA-718273); Corisco, camino hacia el N a 100 m de la casa de Yniestrosa, *Velayos & al.* 9932 (MA-703852). Río Muni: [without locality], *Esono & Ndong* 440 (MA-803903).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 105) and Litoral (Lejoly & Lisowski 1998: 105).

Plants from Río Muni have been referred both to var. *racemose* and to var. *elephantina* N.Hallé, Fl. Gabon 17: 56 (1970).

Bertiera rosseeliana Sonké, Esono & Nguembou in Adansonia, sér. 3, 27(2): 312 (2005)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Senge, estrada km 27, *Carvalho* 6166 (MA-619201).

Not previously reported from Equatorial Guinea.

Bertiera subsessilis Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 83 (1877)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Bong, senda que va hacia el lago Atok, *Pérez Viso* 1332 (MA-717994). Litoral: río Utonde, *Guinea* 798 (MA-699236); Bata-Bolondo, praderas do río Boara, *Carvalho* 4762 (MA-597589, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 105), Litoral (Lejoly & Lisowski 1998: 105) and Wele Nzas (Lejoly & Lisowski 1998: 105).

Some specimens from Río Muni (cf. MA-717994) have been referred to var. *congolana* (De Wild. & T.Durand) N.Hallé, Fl. Gabon 17: 62 (1970).

Bertiera tessmannii K.Krause in Bot. Jahrb. Syst. 48: 414 (1912)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Previously reported from Wele Nzas (Robbrecht *et al.* 1993: 134). We have not found any herbarium specimen supporting this record.

Borreria ocymoides DC., Prodr. 4: 544 (1830)

NE Naturalized

Native to Tropical Asia, naturalized in Tropical America and Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Engong, huerta en el poblado, *Pérez Viso* 1360 (MA-713784).

Previously reported from Litoral (Lejoly & Lisowski 1998: 119).

Calochone acuminata Keay in Bull. Jard. Bot. État 28: 30 (1958)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Niefang, estrada km. 35, zona de Comay, *Carvalho* 5766 (MA-593433). Wele Nzas: Nsork-Asok, *Del Val* s.n. (MA- MA-715480, 715481, 715482)

Not previously reported from Equatorial Guinea.

Chassalia corallifera (A.Chev. ex De Wild.) Hepper in Kew Bull. 16: 329 (1962)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 106). We have not found any herbarium specimen supporting this record.

Chassalia cristata (Hiern) Bremek. in Bull. Jard. Bot. État 22: 104 (1952)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Micomeseng, estrada km. 157, zona de Midjomitom, *Carvalho* 6327 (MA-620560). Wele Nzaz: Nsung Fandong, a 65 km. de Nkue, *Pérez Viso* 3131 (MA-717166).

Not previously reported from Río Muni.

Chassalia ischnophylla (K.Schum.) Hepper in Kew Bull. 16: 330 (1962)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Litoral: Bata-Ayamiken, estrada kms. 54-55, *Carvalho* 4930 (MA-597878, MO, WAG). Río Muni: [without locality], *Esono & Ndong* 571 (MA-804254).

Not previously reported from Equatorial Guinea.

Chassalia macrodiscus K.Schum. in Bot. Jahrb. Syst. 23: 469 (1897)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Senye, estrada kms. 23-24, *Carvalho* 5079 (MA-599172, MO, WAG); Bata-Senye, estrada kms. 20-21. Próximo a Nkoekie, *Carvalho* 5006 (MA-598971, MO, WAG); Bata, *Castelo & al. s.n.* (MA-319720). Wele Nzaz: Eviam, carretera forestal de Bata a Niefang, *Pérez Viso* 2582 (MA-717151).

Not previously reported from Equatorial Guinea.

Chassalia pleuroneura (K.Schum.) O.Lachenaud in Nord. J. Bot. 28: 15 (2010)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senge, estrada km 27, *Carvalho* 6136 (MA-619185).

Previously reported from Centro Sur (Lachenaud & Jongkind 2010: 17), Litoral (Lachenaud & Jongkind 2010: 17) and Wele Nzaz (Lachenaud & Jongkind 2010: 17)

Chassalia pteropetala (K.Schum.) Cheek in Kew Bull. 55(4): 887 (2000)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Engong, camino del lago, *Velayos & al.* 10012 (MA-707064). Litoral: Bata-Micomiseng-Midjimitom, estrada km.157, Mosoc, *Carvalho* 6514 (MA-621038).

Previously reported from Centro Sur (Lachenaud & Jongkind 2010: 19) and Wele Nzas (Lachenaud & Jongkind 2010: 19).

Chassalia zenkeri K.Schum. & K.Krause in Bot. Jahrb. Syst. 39: 565–566 (1907)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Monson-Dibolo: Estrada kms. 53-54, *Carvalho* 4883 (MA-597845, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 106).

Coffea canephora Pierre ex A.Froehner in Notizbl. Königl. Bot. Gart. Berlin 1: 237 (1897)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 106).

Coffea liberica Bull. ex Hiern in Trans. Linn. Soc. London, Bot. 1(4): 171, tab. 24 (1876)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 106). We have not found any herbarium specimen supporting this record.

Corynanthe johimbe K.Schum. in Notizbl. Königl. Bot. Gart. Berlin 3: 94 (1901)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 115). We have not found any herbarium specimen supporting this record.

Corynanthe macroceras K.Schum. in Bot. Jahrb. Syst. 23: 424 (1896)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Niefang: Estrada Km. 35, Akora, *Carvalho* 5755 (MA-599105, WAG).

Not previously reported from Equatorial Guinea.

Corynanthe mayumbensis (R.D.Good) Raym.-Hamet ex N.Hallé, Fl. Gabon 12: 64 (1966)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Senye, estrada km 27, Exfosa, *Carvalho* 6261 (MA-795309).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 107).

Corynanthe paniculata Welw. in Trans. Linn. Soc. London 27: 37, tab. 14 (1869)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Mibini, estrada km. 13. Zona forestal de ACANBOT, *Carvalho* 6284 (MA-620435).

Not previously reported from Equatorial Guinea.

Cremaspora triflora (Thonn.) K.Schum. in Engl. & Prantl (eds.), Naturl. Pflanzenfam. 4: 88 (1891) subsp. **triflora**

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Conisio, distrito de Kogo, *Obama*, C. 751 (WAG-1207689); Bata-Bome, *Carvalho* 5378 (MA-598262, MO, WAG); Bata-Bome, pradera ao longo do rio Boara, *Carvalho* 4799 (MA-597876, MO, WAG). Wele Nzas: inselberg de Mungum, a 45 minutes de marche du village de Kukumankok, *I. Parmentier* & *P. Esono* 3364 (MA-748155); inselberg Piedra Nzas, *Lejoly* 99/188 (MA-621699).

Not previously reported from Río Muni.

Cuviera acutiflora DC. in Ann. Mus. Natl. Hist. Nat. 9: 222 (1807)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Litoral: A lo largo del río Ndote, *Eneme Efua*, F 304 (WAG-1208334); Bata, zona do Bairro Ikundi, *Carvalho* 4749 (MA- 833775, MO, WAG).

Previously reported from Litoral (Verstraete *et al.* 2013: 418).

Cuviera letestui Pellegr. in Bull. Soc. Bot. France 81: 142 (1934)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Río Muni without any precise locality (Verstraete *et al.* 2013: 421). We have not found any herbarium specimen supporting this record.

Cuviera longiflora Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 157 (1877)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Verstraete *et al.* 2013: 422). We have not found any herbarium specimen supporting this record.

Cuviera physinodes K.Schum. in Engl. & Prantl (eds.), Nat. Pflanzenfam. 4(4): 94 (1891)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Verstraete *et al.* 2013: 423). We have not found any herbarium specimen supporting this record.

Cuviera subuliflora Benth., Niger Fl. 407 (1849)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Verstraete *et al.* 2013: 424; Lejoly & Lisowski 1998: 107) and Río Muni without any precise locality (Verstraete *et al.* 2013: 424). We have not found any herbarium specimen supporting these records.

Didymosalpinx lanciloba (S.Moore) Keay in Bull. Jard. Bot. État 28: 62 (1958)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Monsong (río Mbia)-Yengue, estrada para Yengue km. 43-44, *Carvalho* 5075 (MA-599168, MO, WAG).

Not previously reported from Equatorial Guinea.

Diodella sarmentosa (Sw.) Bacigalupo & E.L.Cabral in Darwiniana 44(1): 100 (2006)

NE Native

Native from S. Mexico to Tropical America and Tropical Africa. Sudano-Zambezian

Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Kie Ntem: Ngomgom, poblado de la pista que va de Nsoc Nsomo a Bata, *Barberá & al.* 52 (MA-831647); Nsoc Nsomo, camino que va desde Nsoc Nsomo a Bata, Mocomo, *Cabezas & al.* 1278 (MA-831868); Eloan, carretera Ebebiyi-Mongomo, *Pérez Viso* 4281 (MA-808792). Litoral: Área de Machinda, poblado de Adam-Tum, *López Serrano* 130302 (MA-0); Área de Mbini, poblado de Mangola y Bilen, *López Serrano* 180404 (MA-0); Bata-Bolondo, estrada km. 35-36, *Carvalho* 5952 (MA-610070, WAG); Bata-Niefang, estrada km. 35, en la zona de Comayá, cerca del Río Comayá, *Carvalho* 5930 (MA-609922, WAG); Bata-Niefang, estrada km. 35, entre Adjape y Bidak con Nco, *Carvalho* 5904 (MA-609829, WAG). Wele Nzas: inselberg Dumu, *Lejoly* 99/337 (MA-621692).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 107) and Litoral (Lejoly & Lisowski 1998: 107).

Diodia serrulata (P.Beauv.) G.Taylor in Exell, Cat. Vasc. Pl. S. Tome 220 (1944)

NE Native

Native from Mexico to Venezuela, Caribbean and Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Utonde, *Guinea* 799 (MA-699238).

Previously reported from Litoral (Lejoly & Lisowski 1998: 107; 1999a: 101).

Diodia vaginalis Benth. in Hook., Niger Fl. 424 (1849)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Litoral: Bata: entre o Porto de Bata e Bome, *Carvalho* 4643 (MA-597915, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 108; 1999a: 101).

Edrastima goreensis (DC.) Neupane & N.Wikstr. in Taxon 64(2): 316 (2015)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sahelian Province, Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region.

Litoral: Bata- Bome: Pradera gramínea ao longo do rio Boara, *Carvalho* 4695 (MA-597332, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 113).

Empogona coriacea (Sond.) Tosh & Robbr. in Ann. Missouri Bot. Gard. 96(1): 207 (2009)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region.

Litoral: Bata-Senye: Estrada kms. 40, río Benito en Senye, *Carvalho* 5082 (MA-599179, MO, WAG).

Not previously reported from Equatorial Guinea.

Empogona gossweileri (S.Moore) Tosh & Robbr. in Ann. Missouri Bot. Gard. 96(1): 208 (2009)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, cabaña del Lago, *Velayos & al.* 9522 (MA-701982); Bata-Niefang-Monte Alen: Subida a Monte Alen en dirección a Río Otom-Asok, *Carvalho* 5369 (MA-599646, MO, WAG). Río Muni: [without locality], *Esono & Ndong* 554 (MA-803884).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 120).

Euclinia longiflora Salisb. in Parad. Lond. 2, tab. 93, errata (1808)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Niefang: Estrada Km. 35. Entrada que conducen a la zona de Comayá, *Carvalho* 5698 (MA-599021, WAG).

Not previously reported from Río Muni.

Eumachia longistylis (Hiern) Razafim. & C.M.Taylor in Candollea 72(2): 297 (2017)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Pembe: Estrada kms. 22-23, *Carvalho* 5251 (MA-598011, MO, WAG). Río Muni: [without locality], *Eneme Efua* 465 (BATA, WAG)

Previously reported from Litoral (Lachenaud *et al.* 2013: 126)

Eumachia sciadephora (Hiern) Razafim. & C.M.Taylor in Candollea 72(2): 299 (2017)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Enkumenkien, carretera Niefang-Evinayong, *Pérez Viso 4090bis* (MA-797186); P.N. Monte Alén, cabaña de el Lago, *Velayos & al. 9523* (MA-701981). Wele Nzaz: Eviam, carretera forestal de Bata a Niefang, *Pérez Viso 2578* (MA-717153).

Not previously reported from Río Muni.

Gaertnera paniculata Benth. in Hook., Niger Fl. 459 (1849)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Asonga, *Carvalho 4659* (MA-833752, MO, WAG); Bata-Pembe, praderas gramíneas de Eyang-Mbaha, estrada kms 33-34, *Carvalho 4839* (MA, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 108), Litoral (Lejoly & Lisowski 1998: 108; 1999a: 102) and Wele Nzaz (Lejoly & Lisowski 1998: 108; 1999a: 121).

Gaertnera spicata K.Schum. in Bot. Jahrb. Syst. 33: 372 (1903)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Senye (Senge), estrada km 27, bosque primario de Eboga, *Carvalho 6195* (MA-619241).

Not previously reported from Equatorial Guinea.

Gaertnera trachystyla (Hiern) E.M.A.Petit in Bull. Jard. Bot. État 29: 382 (1959)

NE Naturalized

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Mbini, estrada km 13, zona forestal de Acan-Bot Esaveng, *Carvalho 6054* (MA-618937).

Not previously reported from Equatorial Guinea.

Gardenia imperialis K.Schum. in Bot. Jahrb. Syst. 23: 442 (1896)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 108). We have not found any herbarium specimen supporting this record.

Geophila afzelii Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 221 (1877)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-

Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Evinayong, *Guinea* 76 (MA-735883); 254, 368 (MA-735875); Achimelan, km. 23 de la carretera de Kogo, *Pérez Viso* 3312 (MA-717881); Acurenam, alrededor, *Del Val s.n.* (MA-696874). Litoral: Bata-Pembe, estrada km 17-18, zona da povoação do Sandumá, *Carvalho* 5512 (MA-833770, MO, WAG); Bata-Machinda-Ncomococ, zona florestal de Nsue-Mang onde se encontra ser explorada, *Carvalho* 5070 (MA-599164, MO, WAG). Río Muni: [without locality], *Eneme Efua* 435 (WAG-1264048).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 108 and Litoral (Lejoly & Lisowski 1998: 108).

Geophila lancistipula Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 221 (1877)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Río Muni: [without locality], *Eneme Efua* 433 (BRLU).

Not previously reported from Equatorial Guinea.

Geophila obvallata (Schumach.) Didr. in Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn 186 (1855)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Mbini, estrada km 28 povoação de Anguoc, estrada madeireira de florestal Exfosa, *Carvalho* 5504 (MA-598762, MO, WAG). Wele Nzaz: Acasakira, 3 Km au Sud de Nsork, *Obama & Lejoly* 565 (MA-612124).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 108), Litoral (Lejoly & Lisowski 1998: 108) and Wele Nzaz (Lejoly & Lisowski 1998: 108).

Some plants from Río Muni (cf. MA-612124) have been referred to subsp. *involucrata* (Hiern) Verdc. in Kew Bull. 30(2): 267 (1975).

Geophila renaris De Wild. & T.Durand in Ann. Mus. Congo Belge. Bot., Ser. 2 1(1): 29 (1899)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 108), Litoral (Lejoly & Lisowski 1998: 109) and Wele Nzaz (Lejoly & Lisowski 1998: 109). We have not found any herbarium specimen supporting these records.

Geophila uniflora Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 221 (1877)

NE Native

Native to Tropical & Subtropical Old World. Sudano-Zambezian Region (Sudan)

Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region.

Centro Sur: Evinayong, *Guinea* 304-438 (MA-717982).

Previously reported from Litoral (Lejoly & Lisowski 1998: 109).

Globulostylis robbrechtiana Sonké, O.Lachenaud & Dessein in Bot. J. Linn. Soc. 173: 431–432, fig. 4 (2013)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: subida al Monte Chocolate, transecto que está entre Monduá y el transecto de Aconangui, *Cabezas* 204 (MA-695550); Bata-Monte Alén, *Carvalho* 5115 (MA-833773, MO, WAG); Monte Alén, subida al Monte Alén, *Carvalho* 5310 (MA-833751, MO, WAG).

Previously reported from Centro Sur (Verstraete *et al.* 2013: 432) and Río Muni without any precise locality (Verstraete *et al.* 2013: 432).

Globulostylis talbotii Wernham, Cat. Talbot 's Nigerian Pl. 50 (1913)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 107). We have not found any herbarium specimen supporting this record.

Heinsia crinita (Afzel.) G.Taylor in Exell, Cat. Vasc. Pl. S. Tome: 209 (1944) subsp. **crinita**

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Monte Bata hacia río Campo, *Pérez Viso* 2460 (MA-717549). Litoral: Área de Machinda. Poblado de Ncon-Nbia, *López Serrano* 290309, 290310, 290311 (MA); Bata-Mbini: Estrada km. 24 de Anguok, *Carvalho* 5471 (MA-598328, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 109).

Heinsia myrmoecia (K.Schum.) N.Hallé, Fl. Gabon 12: 132 (1966)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Mosumo, cataratas del Laña, *Aedo & al.* 5143 (MA-718290). Litoral: Bata-Senye (Senge)-Mitom-Emangës, estrada kms. 66-67 después de Emangós, *Carvalho* 6491 (MA-620709); Bata-Niefang, entre Río Sama e Río Comayá, *Carvalho* 5604 (MA-598825, MO, WAG).

Not previously reported from Equatorial Guinea.

Hymenocoleus hirsutus (Benth.) Robbr. in Bull. Jard. Bot. Natl. Belg. 45: 288 (1975)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Asonga, alrededores del poblado de Bomudi, *Carvalho 5126* (MA-599681, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 109) and Wele Nzas (Lejoly & Lisowski 1998: 109).

Hymenocoleus libericus (A.Chev. ex Hutch. & Dalz.) Robbr. in Bull. Jard. Bot. Natl. Belg. 45: 291 (1975)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 109). We have not found any herbarium specimen supporting this record.

Hymenocoleus neurodictyon (K.Schum.) Robbr. in Bull. Jard. Bot. Natl. Belg. 45: 291 (1975)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 110) and Wele Nzas (Lejoly & Lisowski 1998: 110). We have not found any herbarium specimen supporting these records.

Hymenocoleus rotundifolius (A.Chev. ex Hepper) Robbr. in Bull. Jard. Bot. Natl. Belg. 45: 287 (1975)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Litoral: Bata-Kogo, km 67, *Pérez Viso 1859* (MA-712689).

Not previously reported from Equatorial Guinea.

Hymenocoleus scaphus (K.Schum.) Robbr. in Bull. Jard. Bot. Natl. Belg. 47: 22 (1977)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: Oveng Esandong, km. 61 carretera Nkue-Mongomo, *Pérez Viso 3117* (MA-

717170).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 110), Litoral (Lejoly & Lisowski 1998: 110) and Wele Nzas (Lejoly & Lisowski 1998: 110).

Hymenodictyon biafranum Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 42 (1877)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 110) and Wele Nzas (Lejoly & Lisowski 1998: 110; 1999a: 119). We have not found any herbarium specimen supporting these records.

Hymenodictyon floribundum (Hochst. & Steud.) B.L.Rob. in Proc. Amer. Acad. 45: 404 (1910)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 110; 1999a: 119). We have not found any herbarium specimen supporting these records.

Ixora euosmia K.Schum. in Bot. Jahrb. Syst. 33: 355 (1903)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 110). We have not found any herbarium specimen supporting this record.

Ixora hippoperifera Bremek. in Hooker's Icon. Pl. 33: t. 3241 (1934)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Corisco, vers le nord. Distrito de Kogo, *Obama* 767 (WAG).

Not previously reported from Equatorial Guinea.

Ixora inundata Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 166 (1877)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Senge, estrada km. 38, en las márgenes del río Mongó, *Carvalho* 6250 (MA-620354).

Previously reported from Litoral (Lejoly & Lisowski 1998: 110). We have not found any herbarium specimen supporting this record.

Ixora minutiflora Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 167 (1877)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 110). We have not found any herbarium specimen supporting this record.

Ixora nematopoda K.Schum. in Bot. Jahrb. Syst. 33: 357 (1903)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Senge, estrada km 27, *Carvalho 6155* (MA-619205).

Not previously reported from Río Muni.

Keetia mannii (Hiern) Bridson in Kew Bull. 41(4): 988 (1986)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bolondo, orilla del río Nbini, *Castelo & al. s.n.* (MA-319753).

Not previously reported from Equatorial Guinea.

Keetia molundensis (K.Krause) Bridson in Kew Bull. 41(4): 976 (1986)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senge, estrada km. 24, *Carvalho 5599* (MA-598514).

Not previously reported from Equatorial Guinea.

Keetia multiflora (Schumach. & Thonn.) Bridson in Kew Bull. 41(4): 988 (1986)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Litoral: Bata-Pembe-San Joaquin de Ndyjacon, estrada km 35-36, *Carvalho 5241* (MA-598148, MO, WAG).

Not previously reported from Equatorial Guinea.

Keetia rufivillosa (Robyns ex Hutch. & Dalz.) Bridson in Kew Bull. 41(4): 990 (1986)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 106). We have not found any herbarium specimen supporting this record.

Kupeantha pentamera (Sonké & Robbr.) Cheek in PLoS ONE 13(6): e0199324 (2018)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Sonké *et al.* 2007: 278). We have not found any herbarium specimen supporting this record.

Lasianthus batangensis K.Schum. in Bot. Jahrb. Syst. 28: 107 (1899)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Kie Ntem: Akam, *Fero & Esono* 59 (MA-808164). Río Muni: [without locality], *Esono & Ndong* 456 (MA-804260).

Not previously reported from Equatorial Guinea.

Lasianthus repens Hepper in Kew Bull. 16: 332 (1962)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzaz (Lejoly & Lisowski 1998: 111). We have not found any herbarium specimen supporting this record.

Leptactina arborescens (Welw. ex Benth. & Hook.f.) De Block in Taxon 64(1): 91 (2015)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Río Muni: [without locality], *Esono & Ndong* 443 (MA-803906). Wele Nzaz: Nsung Fandong, a 65 km. de Nkue, *Pérez Viso* 3128 (MA-717168).

Previously reported from Wele Nzaz (Lejoly & Lisowski 1998: 107; 1999a: 119).

Leptactina latifolia K.Schum. in Bot. Jahrb. Syst. 23: 432 (1896)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Bolondo, estrada km. 35-36, *Carvalho* 5946 (MA-610004).

Not previously reported from Equatorial Guinea.

Leptactina laurentiana Dewèvre in Bull. Soc. Roy. Bot. Belgique 33(2): 102 (1894)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province,

Congolian Province).

Wele Nzaz: Ebo-Ngoo Nsomo, carretera forestal Añisok Mongola-Niefang, *Pérez Viso 3181* (MA-717139); Asok, *Del Val s.n.* (MA-715378, 715379).

Not previously reported from Equatorial Guinea.

Leptactina mannii Hook.f., Icon. Pl. 11, tab. 1092 (1871)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Corisco, camino hacia el N a 100 m de la casa de Yniestrosa, *Velayos & al. 9911* (MA-795364); desembocadura del río Campo, *Pérez Viso 2171* (MA-718279); Corisco, *Velayos & M. al. 9963* (MA-705041); Ecucu, *Guinea 581* (MA-699233). Río Muni: [without precise locality], *Esono & Ndong 441* (MA-803905).

Previously reported from Litoral (Lejoly & Lisowski 1998: 111; 1999a: 102) and Wele Nzaz (Lejoly & Lisowski 1998: 111).

Some plants from Río Muni (cf. MA-803905) have been referred to subsp. *arnoldiana* (De Wild.) Neuba ex Figueiredo in Bot. J. Linn. Soc. 156: 566 (2008)

Leptactina rheophytica Sonké & Neuba in Bot. J. Linn. Soc. 153(2): 110 (2007)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: 5 km N of Mitong, *Sonké, B. & Esono, P. 3207* (WAG).

Not previously reported from Equatorial Guinea.

Massularia acuminata (G.Don) Bullock ex Hoyle, Check -List For. Trees & Shrubs Brit. Empire 3: 110 (1937)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Niefang, Bindeng, pista hacia el río Uoro, *Pérez Viso 2414* (MA-717547); Nsung, entre Monte Alén y Evinayong, *Pérez Viso 1668* (MA-708866). Kie Ntem: Ngomgom, poblado de la pista que va de Nsok Nsomo a Bata, *Barberá & al. 77* (MA-831513); *107* (MA-831680). Litoral: Essamba, *Sonké, B. 2568* (WAG-1420483); Río Campo, cerca de Bongoro, *Pérez Viso 2231* (MA-872045). Río Muni: [without precise locality], *P. Esono & D. Obiang 526* (MA-804252). Wele Nzaz: Mbut, km. 30 de la carretera de Enkue, *Pérez Viso 3671* (MA-717543); Ncoho Yenguem, km. 38 de la carretera de Nkue, *Pérez Viso 3696* (MA-717542).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 111), Litoral (Lejoly & Lisowski 1998: 111; 1999a: 102) and Wele Nzaz (Lejoly & Lisowski 1998: 111).

Mitracarpus hirtus (L.) DC., Prodr. 4: 572 (1830)

NE Naturalized

Native to Tropical America, elsewhere naturalized in the Tropics.

Litoral: Bata-Bome, entre Bata y Senye, estrada km. 17, *Carvalho 4878* (MA-597449, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 111).

Mitragyna stipulosa (DC.) Kuntze, Revis. Gen. Pl. 1: 289 (1891)

NT Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 109). We have not found any herbarium specimen supporting this record.

Morelia senegalensis A.Rich. ex DC., Prodr. 4: 617 (1830)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Kie Ntem: Ngomgom, poblado de la pista que va de Nsoc Nsomo a Bata, *Barberá & al. 141* (MA-831418).

Not previously reported from Equatorial Guinea.

Morinda citrifolia L., Sp. Pl.: 176 (1753)

NE Introduced

Native to Tropical Asia, elsewhere naturalized in the Tropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province). Also known from Bioko.

Litoral: costa Benito, *Guinea 336, 964* (MA-735877); *338, 971* (MA-737147).

Not previously reported from Río Muni.

Morinda lucida Benth., in Hook. (ed.), Niger Fl. 406 (1849)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 111). We have not found any herbarium specimen supporting this record.

Morinda morindoides (Baker) Milne-Redh. in Kew Bull. 1947: 31 (1947)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian

Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata, alrededores de Akonikieng, *Carvalho 5008* (MA-712723, MO).

Not previously reported from Río Muni.

Mussaenda arcuata Lam. ex Poir., *Encycl. (Lamarck) 4: 392* (1797)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region. Also known from Bioko.

Centro Sur: Evinayong, *Guinea 121, 374* (MA-737157). Litoral: Bata-Mari, estrada kms 62-63, *Carvalho 4948* (MA-597274, MO, WAG). Wele Nzaz: Nsung Fandong, a 65 km. de Nkue, *Pérez Viso 3144* (MA-717162).

Not previously reported from Río Muni.

Mussaenda elegans Schumach. & Thonn., *Beskr. Guin. Pl. 117* (1827)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Mongo (Alosa), estrada km. 76, *Carvalho 5509* (MA-716874, MO, WAG).

Not previously reported from Río Muni.

Mussaenda polita Hiern in Oliv. (ed.), *Fl. Trop. Afr. 3: 67* (1877)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alen, 5 km au NO de Engong, inselberg, *Lejoly 99/118* (MA-621703). Litoral: Nco, 20 km ENE vers la riv. Mitong, *N. Nguema & Lejoly 142* (MA-611886).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 111) and Litoral (Lejoly & Lisowski 1998: 111).

Mussaenda soyauxii Büttner in *Verh. Bot. Vereins Prov. Brandenburg 31: 81* (1889)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Centro Sur: Mosumo, camino de las cataratas, *Aedo & al. 5115* (MA-718267). Litoral:

carretera de Mbini-Bata, a 10 km. del cruce Akoakam, *M. Fero & al.* 291 (MA-844596); Bata, km. 26 carretera Bata-Novu, *Castelo & al. s.n.* (MA-319733).

Previously reported from Litoral (Lejoly & Lisowski 1998: 112).

Mussaenda tenuiflora Benth., in Hook. (ed.), Niger Fl. 392 (1849)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata- Bome, nas margens do rio Boara, *Carvalho* 4701 (MA-597848, MO, WAG). Río Muni: [without locality], *Eneme Efua* 350 (WAG-1517972).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 112) and Litoral (Lejoly & Lisowski 1998: 112).

Nauclea diderrichii (De Wild. & T.Durand) Merr. in J. Wash. Acad. Sci. 5: 535 (1915)

NT Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Pembe, estrada kms. 23-24, *Carvalho* 5543 (MA-598755, MO, WAG); Bata-Zona de Bomudi, *Carvalho* 5345 (MA-598286, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 112).

Nauclea latifolia Sm., Cycl. (Rees) 24: 5 (1813)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: cabo San Juan, *Del Val* s.n. (MA-737137).

Not previously reported from Río Muni.

Nauclea pobeguini (Pobeg.) Merr. in Bull. Jard. Bot. État 28: 9 (1958)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzaz (Lejoly & Lisowski 1998: 112). We have not found any herbarium specimen supporting this record.

Nauclea vanderguchtii (De Wild.) E.M.A.Petit in Bull. Jard. Bot. État 28: 12 (1958)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 112). We have not found any herbarium specimen supporting this record.

Nichallea soyauxii (Hiern) Bridson in Kew Bull. 33(2): 290 (1978)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Mosumo, desde la cabaña de las cataratas hasta las cataratas del Laña, *Aedo & al.* 5151 (MA-718293); Mosumo, camino desde la cabaña de las cataratas hasta el cayuco que atraviesa el Wele, *Aedo & al.* 5167 (MA-718286). Litoral: Bata-Pembe, estrada kms 23-24, *Carvalho* 5545 (MA-598750, MO, WAG).

Not previously reported from Equatorial Guinea.

Oldenlandia affinis (Roem. & Schult.) DC., Prodr. 4: 428 (1830)

NE Native

Native to Tropical Africa and Tropical Asia. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region.

Litoral: Punta Mbonda, *Guinea* 332 (MA-737145); Ecuco, *Guinea* 578 (MA-735882); Bata-Asonga, pradera frontal Las Caracolas da Cooperación Española en Asonga, *Carvalho* 4678 (MA-597453, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 112).

Oldenlandia corymbosa L., Sp. Pl.: 119 (1753)

LC Native

Native to Tropical & Subtropical Old World. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Annobón and Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 113). We have not found any herbarium specimen supporting this record.

Oldenlandia herbacea (L.) Roxb., Hort. Bengal.: 11 (1814)

LC Native

Native to India and Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón.

Litoral: Bata: Bome. Pradera gramínea que se prolonga ao longo do río Boara, *Carvalho* 4687 (MA-597467, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 113)

Oldenlandia lancifolia (Schumach.) DC., Prodr. 4: 425 (1830)

LC Native

Native to Tropical & Subtropical Africa. Sudano-Zambezian Region (Sudanian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: bosque secundario de Mboete, *Eneme Efua* 403 (WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 113), Litoral (Lejoly & Lisowski 1998: 113) and Wele Nzas (Lejoly & Lisowski 1998: 113; 1999a: 119)

Otomeria elatior (A.Rich. ex DC.) Verdc. in Bull. Jard. Bot. État 23: 18, (1953)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: Agama, *Guinea* 358, 387 (MA-737144); 359, 388 (MA-737139).

Not previously reported from Equatorial Guinea.

Otomeria guineensis Benth., in Hook. (ed.), Niger Fl. 405 (1849)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata - Asonga, pradera frontal las caracolas da Cooperacion, *Carvalho* 4656 (MA-597281, MO, WAG). Wele Nzas: inselberg Asoc, *Obama & Lejoly* 482 (MA-612110).

Previously reported from Litoral (Lejoly & Lisowski 1998: 113) and Wele Nzas (Lejoly & Lisowski 1998: 113; (1999a: 119).

Otomeria micrantha K.Schum. in Bot. Jahrb. Syst. 23: 423 (1896)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alen, 5 km au NO de Engong, inselberg, *Lejoly* 99/065 (MA-621709). Río Muni: [without precise locality], *Esono & Ndong* 547 (MA-804258). Wele Nzas: inselberg Dumu, *Obama & Lejoly* 506 (MA-612106).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 113) and Wele Nzas (Lejoly & Lisowski 1998: 113; 1999a: 118).

Otomeria volubilis (K.Schum.) Verdc. in Kew Bull. 7: 361 (1952)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Niefang-Moka, estrada kms. 94-95, alrededores de Moka, *Carvalho 5107* (MA-599745, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 113).

Oxyanthus formosus Hook.f. ex Planch. in Hooker's Icon. Pl. 8, tab. 785 (1848)
LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Essamba, *Sonké, B. & Esono, P. 2583* (WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 114).

Oxyanthus gracilis Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 109 (1877)
NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 114) and Litoral (Lejoly & Lisowski 1998: 114). We have not found any herbarium specimen supporting these records.

Oxyanthus laxiflorus K.Schum. ex Hutch. & Dalz., Fl. W. Trop. Afr. 2: 79, clavi, 80 (1931)
NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata, Miboman, km 27 carretera Bata-Movo, *Castelo & al. s.n.* (MA-319764).

Previously reported from Litoral (Lejoly & Lisowski 1998: 114).

Oxyanthus pallidus Hiern, Cat. Afr. Pl. 1: 465 (1898)
LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 114). We have not found any herbarium specimen supporting this record.

Oxyanthus speciosus DC. in Ann. Mus. Natl. Hist. Nat. 9: 218 (1807)
LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Annobón and Bioko.

Litoral: Bata-Niefang: Estrada Km. 35. Entrada que conducen a la zona de Comayá, *Carvalho* 5697 (MA-599022, WAG). Río Muni: [without locality], *Esono & Ndong* 568 (MA-804256).

Not previously reported from Río Muni.

Oxyanthus subpunctatus (Hiern) Keay in Bull. Jard. Bot. État 28: 44 (1958)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 114). We have not found any herbarium specimen supporting this record.

Oxyanthus unilocularis Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 110 (1877)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 114). We have not found any herbarium specimen supporting this record.

Parapentas setigera (Hiern) Verdc. in Bull. Jard. Bot. État 23: 57 (1953)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Niefang, explotación forestal de Matroguisa, *Pérez Viso* 2263 (MA-718265). Litoral: Route de Nco vers Misobong au niveau de la grande cascade, *N. Nguema & Lejoly* 184 (MA-611876); Nco, 5 km vers ENE, *N. Nguema & Lejoly* 174 (MA-612046).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 114), Litoral (Lejoly & Lisowski 1998: 114) and Wele Nzas (Lejoly & Lisowski 1998: 114).

Pauridiantha callicarpoides (Hiern) Bremek. in Bot. Jahrb. Syst. 71: 216 (1940)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye: Estrada km. 35-36. Plantação de palmeiras do azeite, *Carvalho* 4903 (MA-597579, MO, WAG); 4905 (MA-597577, MO, WAG); Bata, Miboman, km 27 carretera Bata-Movo, *Castelo & al. s.n.* (MA-319726). Río Muni: [without locality], *Esono & Ndong* 432 (MA-803896).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 114), Litoral (Lejoly & Lisowski 1998: 114; Ntore 2008: 78) and Río Muni without any precise locality (Ntore 2008: 78).

Pauridiantha canthiiflora Hook.f. in Benth. & Hook.f., Gen. Pl. 2: 70 (1871)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Río Muni: [without locality], *Esono & Ndong* 559 (MA-804264).

Not previously reported from Río Muni.

Pauridiantha divaricata (K.Schum.) Bremek. in Bot. Jahrb. Syst. 71: 212 (1940)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Mongo (Alosa): Estrada kms. 88-89, *Carvalho* 5501 (MA-598765, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 115).

Pauridiantha floribunda (K.Schum. & K.Krause) Bremek. in Bot. Jahrb. Syst. 71: 216 (1940)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Litoral: Bata-Mbini, estrada km. 27 en la carretera hacia Senge, *Carvalho* 6085 (MA-618990); Bata-Mongo (Alosa), estrada kms 66-67, *Carvalho* 5542 (MA-598751, MO, WAG).

Previously reported from Litoral (Ntore 2008: 102).

Pauridiantha mayumbensis (R.D.Good) Bremek. in Bot. Jahrb. Syst. 71: 213 (1940)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Evinayong, *Guinea* 241, 364 (MA-737156). Litoral: Route de Nco vers Misobong au niveau de la grande cascade, *N. Nguema & Lejoly* 191 (MA-611878).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 115) and Litoral (Lejoly & Lisowski 1998: 115).

Pauridiantha multiflora K.Schum. in Bot. Jahrb. Syst. 28: 60 (1899)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Senge, estrada km. 27, antigua explotación forestal de Exfosa, *Carvalho* 6108 (MA-619391).

Not previously reported from Equatorial Guinea.

Pauridiantha pyramidata (K.Krause) Bremek. in Bot. Jahrb. Syst. 71: 211 (1940)
NE Native
Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 115). We have not found any herbarium specimen supporting this record.

Pauridiantha schumanii (Bremek.) Smedmark & B.Bremer in Taxon 60(5): 1404 (2011)
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Ngong, subida hasta Akwaosí, *Cabezas 163* (MA-695760). Río Muni: [without precise locality], *P. Esono & D. Obiang 519* (MA-803916)

Not previously reported from Equatorial Guinea.

Pauridiantha talbotii (Wernham) Ntore & Dessein in Opera Bot. Belg. 15: 168 (2008)
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: P.N. Monte Alén, cabaña del Lago, *Velayos & al. 9540* (MA-710674); Monte Alén, subida al mirador, *Cabezas 131* (MA-695704).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 115).

Pavetta camerounensis S.D.Manning in Ann. Missouri Bot. Gard. 83(1): 108 (1996)
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senge, estrada km. 27, *Carvalho 6253* (MA-620356).

Not previously reported from Equatorial Guinea.

Pavetta corymbosa (DC.) F.N.Williams in Bull. Herb. Boissier, sér. 2, 7: 378 (1907)
LC Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Wele Nzas: Bimbile, *Guinea 268, 1107* (MA-737148).

Not previously reported from Río Muni.

Pavetta gracilipes Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 179 (1877)
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 115). We have not

found any herbarium specimen supporting this record.

Pavetta hispida Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 175 (1877)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Miyobo, carretera Niefang-Mosumu, senda hacia el río Laña, *Pérez Viso* 2570 (MA-717154). Litoral: Essamba, *Sonké, B. & Esono, P.* 2587 (WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 115)

Pavetta mpomii S.D.Manning in Ann. Missouri Bot. Gard. 83(1): 128 (1996)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Bata-Niefang-Monte Alen: Llegada de Río Otom-Asok, *Carvalho* 5350 (MA-598282, MO, WAG). Litoral: Monte Alen National Park, Monte Mitra, *Leal, M.E.* 845 (MO, WAG).

Not previously reported from Equatorial Guinea.

Pavetta puberula Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 171 (1877)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye (Senge): Estrada km. 40, local sobre río Benito, *Carvalho* 5135 (MA-599685, MO, WAG); Bata-San Joaquín de Ndyjacon-Ayamiken: Estrada kms. 38, *Carvalho* 5085 (MA-599177, MO, WAG).

Not previously reported from Equatorial Guinea.

Pavetta spathulata Bremek. in Repert. Spec. Nov. Regni Veg. 47: 81 (1939)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 115) and Litoral (Lejoly & Lisowski 1998: 115). We have not found any herbarium specimen supporting these records.

Pavetta viridiloba K.Krause in Bot. Jahrb. Syst. 54: 353 (1917)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Kie Ntem: Ebon-Oyac, Ebebiyin, *Pérez Viso* 4316 (MA-717554).

Not previously reported from Equatorial Guinea.

Pentaloncha humilis Hook.f. in Benth. & Hook.f. (eds.), Gen. Pl. 2: 73 (1873)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 116; 1999a: 111). We have not found any herbarium specimen supporting these records.

Pentodon pentandrus (Schumach. & Thonn.) Vatke in Oesterr. Bot. Z. 25: 231 (1875)

LC Native

Native to Africa and Madagascar. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region.

Litoral: Utonde, *Guinea* 746 (MA-699235).

Previously reported from Litoral (Lejoly & Lisowski 1998: 116).

Psychotria alatipes Wernham, Cat. Pl. Oban 53 (1913)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: P.N. Monte Alén, dalle rocheuse d'Engong, *I. Parmentier & P. Esono 2884* (BRLU); *3009* (BRLU).

Not previously reported from Equatorial Guinea.

Psychotria anthocleistifolia O.Lachenaud in Opera Bot. Belg. 17: 142 (2019)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lachenaud 2019: 761). We have not found any herbarium specimen supporting this record.

Psychotria arnoldiana De Wild. in Études Fl. Bas- Moyen-Congo 3: 300 (1910)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Río Muni (Lachenaud 2019: 762). We have not found any herbarium specimen supporting this record.

Psychotria articulata (Hiern) E.M.A.Petit in Bull. Jard. Bot. État Bruxelles 33: 381 (1963)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Pembe, pradera de Eyang-Mbaha, *Carvalho* 4962 (MA-599210, MO, WAG).

Previously reported from Litoral (Lachenaud 2019: 763) and Wele Nzas (Lachenaud 2019: 763).

Psychotria bifaria Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 198 (1877) subsp. **bifaria**
NE Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Wele Nzas (Lachenaud 2019: 772). We have not found any herbarium specimen supporting this record.

Psychotria bracteosa Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 207 (1877)
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Litoral (Lachenaud 2019: 775). We have not found any herbarium specimen supporting this record.

Psychotria brandneriana (L.Linden) Robbr. in Bull. Jard. Bot. Natl. Belg. 46: 400 (1976) subsp. **brandneriana**
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Niefang, estrada km 35, *Carvalho* 5700 (MA-795327).

Previously reported from Litoral (Lachenaud 2019: 775)

Psychotria brevifissa O.Lachenaud in Opera Bot. Belg. 17: 173 (2019)
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Miyobo, carretera Niefang-Mosumu, *Pérez Viso* 2546bis (MA-797200); Bata-Monsong (Río Mbia)-Yengue, estrada para Yengue km. 43-44, *Carvalho* 5076 (MA-599169, MO, WAG). Litoral: Ondo, km. 8 de la carretera del puerto, *Pérez Viso* 3810 (MA-717698); 3815 (MA-717699).

Previously reported from Centro Sur (Lachenaud 2019: 777), Litoral (Lachenaud 2019: 777) and Río Muni without any precise locality (Lachenaud 2019: 777)

Psychotria brieyi De Wild., Pl. Bequaert. 2: 343 (1924)
NE Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lachenaud 2019: 778). We have not found any

herbarium specimen supporting this record.

Psychotria calva Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 199 (1877)

Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Bindung, km. 17 de la carretera de Niefang, *Pérez Viso* 3771 (MA-717540); P.N. Monte Alén, Esamalang, camino hacia Mondung, *Pérez Viso* 1127 (MA-717886). Litoral: río Campo, *Sonké*, B. 2567 (YA-); Nkinfala, km. 12 de la carretera de Kogo, *Pérez Viso* 3838 (MA-717702).

Previously reported from Centro Sur (Lachenaud 2019: 781), Litoral (Lachenaud 2019: 781) and Wele Nzas (Lachenaud 2019: 781)

Psychotria clausa (Hiern) O.Lachenaud in Opera Bot. Belg. 17: 193 (2019)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lachenaud 2019: 790), Litoral (Lachenaud 2019: 790) and Wele Nzas (Lachenaud 2019: 790). We have not found any herbarium specimen supporting these records.

Psychotria crystallina O.Lachenaud in Opera Bot. Belg. 17: 198 (2019)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lachenaud 2019: 791). We have not found any herbarium specimen supporting this record.

Psychotria cyanopharynx K.Schum. in Bot. Jahrb. Syst. 28: 90 (1899) subsp. **cyanopharynx**

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Wele Nzas (Lachenaud 2019: 792) and Río Muni without any precise locality (Lachenaud 2019: 792). We have not found any herbarium specimen supporting these records.

Psychotria densinervia (K.Krause) Verdc. in Kew Bull. 30: 259 (1975)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lachenaud 2019: 794; Lejoly & Lisowski 1998: 106). We have not found any herbarium specimen supporting these records.

Psychotria dermatophylla (K.Schum.) E.M.A.Petit in Bull. Jard. Bot. État Bruxelles

34: 100 (1964).

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bikokbinii, *Wilks* 3560 (WAG); Bicuk-Bini. (Ctra Bata-Mbini), *Azizet Issembé*, Y. 45 (WAG). Río Muni: [without locality], *Eneme Efua* 170 (WAG).

Previously reported from Centro Sur (Lachenaud 2019: 795), Litoral (Lachenaud 2019: 795).

Psychotria dewildei O.Lachenaud in Opera Bot. Belg. 17: 207 (2019)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Litoral (Lachenaud 2019: 796). We have not found any herbarium specimen supporting this record.

Psychotria droissartii O.Lachenaud in Opera Bot. Belg. 17: 209 (2019)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lachenaud 2019: 797). We have not found any herbarium specimen supporting this record.

Psychotria ebensis K.Schum. in Bot. Jahrb. Syst. 28: 91 (1899)

Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Ayamiken, río Campo, *Pérez Viso* 2817 (MA-690381).

Previously reported from Centro Sur (Lachenaud 2019: 799), Litoral (Lachenaud 2019: 799) and Wele Nzas (Lachenaud 2019: 799).

Psychotria eladii O.Lachenaud in Opera Bot. Belg. 17: 213 (2019)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lachenaud 2019: 800). We have not found any herbarium specimen supporting this record.

Psychotria fimbriatifolia R.Good. in J. Bot. 64 (Suppl. 2): 32 (1926)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Asok, senda que va hacia el río Laña, *Pérez Viso* 899 (MA-713374). Litoral: Bata-Mbini, estrada km 28 povoação de Anguoc, estrada madeireira de florestal Exfosa, *Carvalho* 5506 (MA-598760, MO, WAG); Bata-

Bicomo, margens izquierdo de Río Ecuco no local de captação de agua en Central Hidroelectrica, *Carvalho 5405* (MA-598317, MO, WAG).

Previously reported from Centro Sur (Lachenaud 2019: 802) and Litoral (Lachenaud 2019: 802).

Psychotria foliosa Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 197 (1877)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Centro Sur: Mosumo, desde la cabaña de las cataratas hasta las cataratas del Laña, *Aedo & al. 5136* (MA-718289). Litoral: Bata-Niefang: Estrada Km. 35. En dirección de Adjape a la zona de Comayá, *Carvalho 5783* (MA-610062); Bata-Senye (Senge): Estrada km 27, antigua explotación forestal de Exfosa, *Carvalho 6161* (MA-619197).

Previously reported from Centro Sur (Lachenaud 2019: 804, 806) and Litoral (Lachenaud 2019: 804).

Psychotria gillettii De Wild. in Ann. Mus. Congo Belge. Bot., Ser. 5 1: 208 (1906)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lachenaud 2019: 806). We have not found any herbarium specimen supporting this record.

Psychotria globosa Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 208 (1877)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Bicomo: Bosque primario de margens izquierdo de Río Ecuco no local de captação de agua en Central Hidroelectrica, *Carvalho 5403* (MA-598319, MO, WAG); Bata-Nasanga: Estrada km. 36-37. Proximo da povoacao de Nasanga, *Carvalho 4893* (MA-597892, MO, WAG).

Previously reported from Litoral (Lachenaud 2019: 808).

Psychotria gracilicornis O.Lachenaud in Opera Bot. Belg. 17: 232 (2019)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Wele Nzaz: Nsung Fandong, a 65 km. de Nkue, *Pérez Viso 3155* (MA-717146).

Previously reported from Wele Nzaz (Lachenaud 2019: 808).

Psychotria guineensis E.M.A.Petit in Bull. Jard. Bot. État Bruxelles 33: 382. 1963.

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Previously reported from Litoral (Lachenaud 2019: 810). We have not found any herbarium specimen supporting this record.

Psychotria humilis Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 198 (1877)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lachenaud 2019: 812). We have not found any herbarium specimen supporting this record.

Psychotria hypsophila K.Schum. & K.Krause in Bot. Jahrb. Syst. 39: 559 (1907).

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Centro Sur: Miyobo: carretera Niefang-Mosumu. Senda hacia el río Laña, *Pérez Viso* 2569 (MA-717155). Litoral: Bata-Bome, praderas gramíneas del río Boara, *Carvalho* 4856 (MA-717155, MO, WAG).

Previously reported from Centro Sur (Lachenaud 2019: 815), Litoral (Lachenaud 2019: 815) Wele Nzaz (Lachenaud 2019: 815) and Río Muni without any precise locality (Lachenaud 2019: 815).

Psychotria ituriensis De Wild. ex E.M.A.Petit in Bull. Jard. Bot. État 34: 166 (1964)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Río Muni: [without locality], *Esono & Ndong* 436 (MA-803902).

Not previously reported from Equatorial Guinea.

Psychotria konguensis Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 200. (1877).

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lachenaud 2019: 821) and Litoral (Lachenaud 2019: 821). We have not found any herbarium specimen supporting these records.

Psychotria kupensis Cheek in Kew Bull. 63(2): 243 (2008)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lachenaud 2019: 822). We have not found any herbarium specimen supporting this record.

Psychotria lagenocarpa K.Schum. in Bot. Jahrb. Syst. 33: 366 (1903)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lachenaud 2019: 823) and Litoral (Lachenaud 2019: 823). We have not found any herbarium specimen supporting these records.

Psychotria lanceifolia K.Schum. in Bot. Jahrb. Syst. 33: 367 (1903).

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye (Senge): Estrada km 27. Zona forestal de Eboga, *Carvalho* 6241 (MA-620312); Bata-Senye (Senge)-Mitom-Emangës, estrada kms 62-63, *Carvalho* 6383 (MA-620919).

Previously reported from Centro Sur (Lachenaud 2019: 823, 824), Litoral (Lachenaud 2019: 823) and Wele Nzas (Lachenaud 2019: 826).

Psychotria latistipula Benth. in Hook. (ed.), Niger Fl. 419 (1849)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Abobem, Niefang, *Pérez Viso* 4188 (MA-717973). Litoral: Monts de Cristal. 8 km ENE de Okuamkos, *Wilks* 1719 (WAG); Río Campo, carretera de San Joaquín de Adjiaikom hacia Ayamiken, *Pérez Viso* 2492 (MA-717548); Yengüe, Río Campo, *Pérez Viso* 2802 (MA-717546). Río Muni: [without locality], *Esono & Ndong* 434 (MA-803899). Wele Nzas: Ebo-Ngoo Nsomo, carretera forestal Añisok Mongola-Niefang, *Pérez Viso* 3166 (MA-717145).

Previously reported from Centro Sur (Lachenaud 2019: 826), Litoral (Lachenaud 2019: 826), Wele Nzas (Lachenaud 2019: 826) and Río Muni without any precise locality (Lachenaud 2019: 826).

Psychotria laxithyrsa O.Lachenaud in Opera Bot. Belg. 17: 268 (2019)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lachenaud 2019: 828) and Litoral (Lachenaud 2019: 828). We have not found any herbarium specimen supporting these records.

Psychotria ledermannii (K.Krause) Figueiredo in Bot. J. Linn. Soc. 154: 476 (2007)
var. **ledermannii**

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lachenaud 2019: 829). We have not found any herbarium specimen supporting this record.

Psychotria letestui (De Wild.) N.Hallé ex O.Lachenaud in Opera Bot. Belg. 17: 275 (2019)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lachenaud 2019: 832), Litoral (Lachenaud 2019: 832) and Río Muni without any precise locality (Lachenaud 2019: 832). We have not found any herbarium specimen supporting these records.

Psychotria letouzeyi E.M.A.Petit in Bull. Jard. Bot. État Bruxelles 36: 163 (1966).

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lachenaud 2019: 832) and Wele Nzas (Lachenaud 2019: 832). We have not found any herbarium specimen supporting these records.

Psychotria longicornis O.Lachenaud in Opera Bot. Belg. 17: 281 (2019)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lachenaud 2019: 834). We have not found any herbarium specimen supporting this record.

Psychotria mangelotii (Aké Assi) Verdc. in Kew Bull. 30: 259 (1975).

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lachenaud 2019: 836). We have not found any herbarium specimen supporting this record.

Psychotria mannii Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 197 (1877)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Bome, río Boara, *Carvalho 4860* (MA-597336, MO, WAG).

Previously reported from Centro Sur (Lachenaud 2019: 836) and Litoral (Lachenaud 2019: 836).

Psychotria njumei Cheek in Kew Bull. 63(3): 406 (2008)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lachenaud 2019: 843) and Wele Nzas (Lachenaud 2019: 843). We have not found any herbarium specimen supporting these records.

Psychotria oblanceolata (R.D.Good) Ruhsam in Bot. J. Linn. Soc. 157: 117 (2008)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lachenaud 2019: 844). We have not found any herbarium specimen supporting this record.

Psychotria onanae O.Lachenaud in Opera Bot. Belg. 17: 308 (2019)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Engong, camino de el Lago, *Velayos & al.* 9503 (MA-717532); 9504 (MA-717531).

Previously reported from Centro Sur (Lachenaud 2019: 845).

Psychotria pachycalyx O.Lachenaud in Opera Bot. Belg. 17: 309 (2019)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Mbini, estrada km. 27 en la carretera hacia Senge, *Carvalho* 6090 (MA-619166); 6369 (MA-620602).

Previously reported from Litoral (Lachenaud 2019: 846).

Psychotria peduncularis (Salisb.) Steyerl. in Mem. N.Y. Bot. Gard. 23: 546 (1972)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Kie Ntem: Nfuiñ, a 29 km de Nsoc Nsomo por la pista que va hacia Bata, *Cabezas & al.* 1304 (MA-831773). Litoral: Corisco, camino hacia el N a 100 m de la casa de Yniestrosa, *Velayos & al.* 9930 (MA-703850); Bata-Senge: Estrada km.27, *Carvalho* 6175 (MA-642074).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 106; 1999a: 119).

Psychotria pendulothyrsa O.Lachenaud in Opera Bot. Belg. 17: 315 (2019)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lachenaud 2019: 847). We have not found any herbarium specimen supporting this record.

Psychotria psychotrioides (DC.) Roberty in Bull. Inst. Franc. Afrique Noire, Ser. A, 16: 62 (1954)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Nfaman Summit, Bosque National, *Leal, M. E. & Esono, P.* 2193 (MO, WAG).

Previously reported from Centro Sur (Lachenaud 2019: 850).

Psychotria radCIFera O.Lachenaud in Opera Bot. Belg. 17: 324 (2019)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Mosumo, desde la cabaña de las cataratas hasta las cataratas del Laña, *Aedo & al.* 5134 (MA-718270).

Previously reported from Centro Sur (Lachenaud 2019: 854) and Litoral (Lachenaud 2019: 854).

Psychotria rambouensis De Wild., Pl. Bequaert. 2: 410 (1924)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lachenaud 2019: 854). We have not found any herbarium specimen supporting this record.

Psychotria raynaliorum O.Lachenaud in Opera Bot. Belg. 17: 326. 2019

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lachenaud 2019: 855). We have not found any herbarium specimen supporting this record.

Psychotria rhizomatosa De Wild., Pl. Bequaert. 2: 413 (1924)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Nfaman Summit, Bosque National, *Leal, M. E. & Esono, P.* 2216 (MO, WAG). Wele Nzas: Eviam, Aconibe-Acurenam, *Pérez Viso* 1776 (MA-717971).

Previously reported from Centro Sur (Lachenaud 2019: 856), Litoral (Lachenaud 2019: 856) and Wele Nzas (Lachenaud 2019: 856).

Psychotria rhynchodiscus O.Lachenaud in Opera Bot. Belg. 17: 332 (2019)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Niefang: Estrada Km. 35. En la zona Comayá, *Carvalho* 5856 (MA-609968).

Previously reported from Centro Sur (Lachenaud 2019: 857) and Litoral (Lachenaud 2019: 857).

Psychotria rubescens (Hiern) O.Lachenaud in Opera Bot. Belg. 17: 333 (2019).

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: P.N. Monte Alén, Asok, senda que va hacia el río Lobo, *Pérez Viso* 438 (MA-689418).

Previously reported from Centro Sur (Lachenaud 2019: 857).

Psychotria rubripilis K.Schum. in Bot. Jahrb. Syst. 33: 369 (1903)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Kie Ntem: Eloan, carretera Ebebiyi-Mongomo, *Pérez Viso* 4301 (MA-717552). Río Muni: [without locality], *Esono & Ndong* 442 (MA-803907); 551 (MA-803886).

Previously reported from Centro Sur (Lachenaud 2019: 858) and Kie Ntem (Lachenaud 2019: 858).

Psychotria rubropilosa De Wild., Pl. Bequaert. 6: 73 (1932)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: P.N. Monte Alén, cerca de Misergue, Esamalang, *Pérez Viso* 210 (MA-712690).

Previously reported from Centro Sur (Lachenaud 2019: 859).

Psychotria saccata O.Lachenaud in Opera Bot. Belg. 17: 338 (2019)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lachenaud 2019: 859) and Litoral (Lachenaud 2019: 859). We have not found any herbarium specimen supporting these records.

Psychotria solfiana K. Krause in Bot. Jahrb. Syst. 57: 44 (1920) subsp. ***solfiana***

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: P.N. Monte Alén, Bong, senda que va hacia el lago Atok, *Pérez Viso* 1325 (MA-712496). Wele Nzaz: explotación maderera de Añisok-Mongola, *Pérez Viso* 3735 (MA-725946).

Previously reported from Centro Sur (Lachenaud 2019: 863), Litoral (Lachenaud 2019: 863) and Wele Nzaz (Lachenaud 2019: 863).

Psychotria sonkeana O.Lachenaud & Séné in Pl. Ecol. Evol. 143(1): 105–108, figs. 1–2 (2010)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Wele Nzaz: Ebo-Ngoo Nsomo, carretera forestal Añisok Mongola-Niefang, *Pérez Viso* 3168 (MA-717143).

Previously reported from Centro Sur (Lachenaud 2019: 864).

Psychotria stenostegia O.Lachenaud in Opera Bot. Belg. 17: 349 (2019)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: P.N. Monte Alén, Esamalang, camino hacia Mondung, *Pérez Viso* 1135 (MA-717887).

Previously reported from Centro Sur (Lachenaud 2019: 865) and Wele Nzaz (Lachenaud 2019: 865).

Psychotria subobliqua Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 206 (1877)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Laca, *Del Val s.n.* (MA-728594).

Previously reported from Centro Sur (Lachenaud 2019: 760).

Psychotria subpunctata Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 201 (1877)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, lago Atok, *Pérez Viso* 1106 (MA-717885). Litoral: Bata-Senye (Senge)-Mitom-Emangës, estrada kms. 67-68, *Carvalho* 6522 (MA-620922).

Previously reported from Centro Sur (Lachenaud 2019: 868) and Litoral (Lachenaud 2019: 868).

Psychotria tchoutoi O.Lachenaud in Opera Bot. Belg. 17: 357 (2019)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Niefang: Estrada km. 35. Zona de madera de Comayá, de la empresa de ABM, *Carvalho* 5623 (MA-598810, MO, WAG).

Previously reported from Litoral (Lachenaud 2019: 871).

Psychotria thonneri (De Wild. & T.Durand) O.Lachenaud in Opera Bot. Belg. 17: 359 (2019)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lachenaud 2019: 872), Kie Ntem (Lachenaud 2019: 872) and Wele Nzas (Lachenaud 2019: 872). We have not found any herbarium specimen supporting these records.

Psychotria titanophylla O.Lachenaud in Opera Bot. Belg. 17: 360 (2019)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lachenaud 2019: 872). We have not found any herbarium specimen supporting this record.

Psychotria uapacifolia O.Lachenaud in Opera Bot. Belg. 17: 362 (2019).

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Nfaman Summit, Bosque National, *Leal, M. E. & Esono, P.* 2266 (MO, WAG).

Previously reported from Centro Sur (Lachenaud 2019: 872).

Psychotria umbellifera E.M.A.Petit in Bull. Jard. Bot. État 36: 149 (1966)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Kie Ntem: Engokua, Ebebiyin, *Pérez Viso 4341* (MA-717556).

Previously reported from Kie Ntem (Lachenaud 2019: 873).

Psychotria varians O.Lachenaud in Opera Bot. Belg. 17: 363 (2019).

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Nfaman Summit, Bosque National, *Leal, M.E.* 2239 (MO, WAG-1373661).

Previously reported from Centro Sur (Lachenaud 2019: 874), Litoral (Lachenaud 2019: 874) and Wele Nzas (Lachenaud 2019: 874).

Psychotria venosa (Hiern) E.M.A.Petit in Bull. Jard. Bot. Etat 33: 382 (1963)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, cabaña de el Lago, *Velayos & al.* 9548 (MA-726944); Bisun, carretera de Niefang a Evinayong, *Pérez Viso* 3394 (MA-717551). Litoral: Nkinfala, km. 12 de la carretera de Kogo, *Pérez Viso* 3849 (MA-717704); Bata-Mari: Estrada kms. 62-63, *Carvalho* 4951 (MA-597683, MO, WAG).

Previously reported from Centro Sur (Lachenaud 2019: 875) and Litoral (Lachenaud 2019: 875).

Psydrax acutiflora (Hiern) Bridson in Kew Bull. 40(4): 722 (1985)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Bome, praderas gramíneas del río Boara, *Carvalho* 4859 (MA-597906, WAG). Río Muni: [without locality], *Esono & Ndong* 584 (MA-803890)

Not previously reported from Río Muni.

Psydrax palma (K.Schum.) Bridson in Kew Bull. 40(4): 699 (1985)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bicomo: Estrada kms. 8-9. Bosque secundario, *Carvalho* 5361 (MA-599672).

Not previously reported from Equatorial Guinea.

Pyrostria affinis (Robyns) Bridson in Kew Bull. 42(3): 628 (1987)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 117). We have not found any herbarium specimen supporting this record.

Rothmannia lateriflora (K.Schum.) Keay in Bull. Jard. Bot. Etat 28: 52 (1958)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Monte Alén, *Sonké & al.* 2472 (WAG); P.N. Monte Alén, Bong, senda que va hacia el lago Atok, *Pérez Viso* 1331 (MA-717995).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 117).

Rothmannia libisa N.Hallé, Fl. Gabon No. 17: 249 (1970)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Río Muni: [without locality], *P. Esono & D. Obiang* 513 (MA-803912).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 117).

Rothmannia lujae (De Wild.) Keay in Bull. Jard. Bot. État 28: 53 (1958)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Engong, *Sonké, B. & Esono, P.* 2539 (WAG).

Not previously reported from Equatorial Guinea.

Rothmannia macrocarpa (Hiern) Keay in Bull. Jard. Bot. Etat 28: 55 (1958)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Monte Alén, *Sonké & al.* 2586 (WAG). Litoral: Essamba, *Sonké, B. & Esono, P.* 2584 (WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 117)

Rothmannia mayumbensis (R.D.Good) Keay in Bull. Jard. Bot. État 28: 54 (1958)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Engong, *Sonké, B. & Esono, P.* 2536 (WAG)

Not previously reported from Equatorial Guinea.

Rothmannia octomera (Hook.f.) Fagerl. in Ark. Bot. 30: 7, 39 (1943)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Engong, camino de el Lago, *Velayos & al.* 9495 (MA-717534). Río Muni: [without locality], *Esono & Ndong* 572 (MA-804253).

Not previously reported from Río Muni.

Rothmannia whitfieldii (Lindl.) Dandy in F.W.Andrews, Fl. Pl. Anglo-Egypt. Sudan 2: 461, fig. 165 (1952)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian

Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Litoral: Bata-Mbini: Estrada km. 24 e chegada a Anguok, *Carvalho* 5438 (MA-598329, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 117).

Rutidea decorticata Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 190 (1877)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Pembe-San Joaquin de Ndyjacon, estrada kms 35-36, *Carvalho* 5244 (MA-598150, WAG).

Not previously reported from Río Muni.

Rutidea dupuisii De Wild. in Ann. Mus. Congo Belge. Bot., Ser. 5 2: 174 (1907)

subsp. **dupuisii**

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Wele Nzaz: Ebo-Ngoo Nsomo, carretera forestal Añisok Mongola-Niefang, *Pérez Viso* 3179 (MA-717140).

Not previously reported from Equatorial Guinea.

Rutidea ferruginea Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 189 (1877)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lachenaud *et al.* 2013: 130) and Litoral (Lachenaud *et al.* 2013: 129, 130). We have not found any herbarium specimen supporting these records.

Rutidea gabonensis Bridson in Kew Bull. 33(2): 261 (1978)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bome, *Carvalho* 4959 (MA-597685, MO, WAG)

Previously reported from Litoral (Lachenaud *et al.* 2018: 414).

Rutidea hispida Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 189 (1877)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Bong, senda que va hacia el lago Atok, *Pérez Viso* 1326 (MA-712495).

Not previously reported from Río Muni.

Rutidea membranacea Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 190 (1877)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 117; 1999a: 120). We have not found any herbarium specimen supporting these records.

Rutidea olenotricha Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 189 (1877)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Río Muni: [without locality], *Esono & Ndong* 433 (MA-803897).

Not previously reported from Equatorial Guinea.

Rytigynia canthioides (Benth.) Robyns in Bull. Jard. Bot. État 11: 188 (1928)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 117). We have not found any herbarium specimen supporting this record.

Rytigynia membranacea (Hiern) Robyns in Bull. Jard. Bot. État 11: 217 (1928)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Mongo-Zona Madeireira de Alosa: Entre Mongo de Serrapão de Alosa, *Carvalho* 5344 (MA-598287, MO, WAG)

Not previously reported from Equatorial Guinea.

Rytigynia rubra Robyns in Bull. Jard. Bot. État 11: 162 (1928)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bome: Pradera ao longo do rio Boara, *Carvalho* 4801 (MA-597381, MO, WAG).

Not previously reported from Equatorial Guinea.

Rytigynia umbellulata (Hiern) Robyns in Bull. Jard. Bot. État 11: 184 (1928)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Annobón and Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 117) and Wele Nzas (Lejoly & Lisowski 1998: 117; 1999a: 119). We have not found any herbarium specimen supporting these records.

Sabicea africana (P.Beauv.) Hepper in Kew Bull. 13: 292 (1958)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Praires du Baga, *Eneme Efua* 341 (BATA, WAG); Bolondo, *Guinea* 313, 687 (MA-735876); 706 (MA-699240); 707 (MA-699239); Bata-Bome, *Carvalho* 5413 (MA-599434, MO, WAG); 5146 (MA-599718, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 119).

Sabicea batesii Wernham, Monogr. Sabicea 53 (1914)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Zemagho *et al.* 2017: 24) and Litoral (Zemagho *et al.* 2017: 24). We have not found any herbarium specimen supporting these records.

Sabicea calycina Benth., Niger Fl. 399 (1849)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Mosumo, cataratas del Laña, *Aedo & al.* 5159 (MA-718294). Litoral: Río Campo, cerca de Bongoro, *Pérez Viso* 2186 (MA-718275).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 118) and Litoral (Lejoly & Lisowski 1998: 118).

Sabicea capitellata Benth. in Hook. (ed.), Niger Fl.: 398 (1849)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alen, 5 km au NO de Engong, inselberg, *Lejoly* 99/116 (MA-621705). Litoral: Bitica, *Sonké, B.* 2533 (WAG-1400164); Bata-Senye (Senge)-Mitom-Emangös, estrada kms. 64-65, *Carvalho* 6452 (MA-620875); Bata-Pembe-San Joaquin de Ndyjacon: Estrada kms. 20-21, *Carvalho* 5260 (MA-598115, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 118). We have not found any herbarium specimen supporting this record.

Sabicea crystallina (N.Hallé) Zemagho, O.Lachenaud & Sonké in Phytotaxa 293: 28 (2017) subsp. **crystallina**

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Litoral (Zemagho *et al.* 2017: 31). We have not found any herbarium specimen supporting this record.

Sabicea crystallina subsp. **engongensis** Zemagho, O.Lachenaud & Sonké in Phytotaxa 293: 31 (2017)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Zemagho *et al.* 2017: 33). We have not found any herbarium specimen supporting this record.

Sabicea desseinii Zemagho, O.Lachenaud & Sonké in Candollea 73: 278 (2018)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Zemagho *et al.* 2018: 282). We have not found any herbarium specimen supporting this record.

Sabicea dinklagei K.Schum. in Bot. Jahrb. Syst. 23: 428 (1896)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Prairie du Baga, *Eneme Efua*, F 360 (BATA, WAG); Bata-Bome, *Carvalho* 5322 (MA-598169, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 118).

Sabicea floribunda K.Schum. in Bot. Jahrb. Syst. 23: 428 (1896)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, senda que va desde el lago Atok hasta Moka, *Pérez Viso* 1343 (MA-712683). Litoral: Route de Nco vers Misobong au niveau de la grande cascade, *N. Nguema & Lejoly* 206 (MA-611885); Bata-Monson-Dibolo, estrada kms. 54-55, *Carvalho* 4887 (MA-597850, MO, WAG). Wele Nzaz: Akurenam-Melong, *Del Val s.n.* (MA-715488, 715489, 715490, 715491).

Not previously reported from Equatorial Guinea.

Sabicea gabonica (Hiern) Hepper in Kew Bull. 13: 292 (1958)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Mosumo, camino de las cataratas, *Aedo & al.* 5100 (MA-718287); Achimelan, km. 23 de la carretera de Kogo, *Pérez Viso* 3318 (MA-717882). Río Muni: [without locality], *Esono & Ndong* 439 (MA-803904).

Not previously reported from Equatorial Guinea.

Sabicea hierniana Wernham, Monogr. Sabicea: 29 (1914)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Engong, *Pérez Viso* 345 (MA-717560).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 108; 1999a: 111) and Wele Nzaz (Lejoly & Lisowski 1998: 108).

Sabicea laxa Wernham, Monogr. Sabicea: 33 (1914)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Niefang; Estrada km. 35. Fabrica de madera de Adjape de zona de Comayá, *Carvalho* 5618 (MA-598557, MO, WAG).

Not previously reported from Equatorial Guinea.

Sabicea longipetiolata De Wild. in Ann. Mus. Congo Belge. Bot., Ser. 5 1: 78 (1904)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzaz (Lejoly & Lisowski 1998: 118). We have not found any herbarium specimen supporting this record.

Sabicea medusula K.Schum. ex Wernham, Monogr. Sabicea: 44 (1914)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Pembe, estrada kms 17-18, Sanduma, *Carvalho* 5507 (MA-598759, MO, WAG).

Previously reported from Litoral (Zemagho *et al.* 2017: 42).

Sabicea mildbraedii Wernham, Monogr. Sabicea: 53 (1914)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: entre Nsuaimeyong et inselberg Akuom, *Obama & Lejoly* 447 (MA-612035).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 116) and Litoral (Lejoly & Lisowski 1998: 116).

Sabicea najathrix N.Hallé, Fl. Gabon 12: 182 (1966)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 118). We have not found any herbarium specimen supporting this record.

Sabicea parmentierae Zemagho, O.Lachenaud & Sonké in *Phytotaxa* 293(1): 54 (2017)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Mongo (Alosa): Estrada kms. 77-7, *Carvalho* 5518 (MA-599451, MO, WAG).

Previously reported from Centro Sur (Zemagho *et al.* 2017: 56), Litoral (Zemagho *et al.* 2017: 56) and Wele Nzas (Zemagho *et al.* 2017: 56).

Sabicea pilosa Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 76 (1877)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province). Also known from Bioko.

Litoral: Río Campo, cerca de Bongoro, *Pérez Viso* 2190 (MA-718274); Bata-Kogo, km 67, *Pérez Viso* 1851 (MA-688928); Bata-río Campo: Estrada kms. 42-43, Esadugma, *Carvalho* 4725 (MA-597970, MO, WAG). Río Muni: [without locality] *Eneme Efua* 175 (BATA, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 118) and Wele Nzas (Lejoly & Lisowski 1998: 118).

Sabicea proselyta (N.Hallé) Razafim., B.Bremer, Liede & Saleh A.Khan in *Taxon* 57: 20 (2008)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Evinayong, *Guinea* 120-381 (MA-725790). Río Muni: [without locality], *P. Esono & D. Obiang* 517 (MA-803917).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 116), Litoral (Lejoly & Lisowski 1998: 116) and Wele Nzas (Lejoly & Lisowski 1998: 116).

Sabicea rufa Wernham, Monogr. Sabicea: 63 (1914)

VU Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: P.N. Monte Alén, Engong, camino de el Lago, *Velayos & al.* 9485 (MA-717535). Litoral: Nkinfala, km. 12 de la carretera de Kogo, *Pérez Viso* 3844 (MA-717705); im Bebüsch unweit des Strandes bei Bata, *M. Dinklage* 1211 (HBG-521027); Bata-Monson-Dibolo: Estrada kms. 53-54, *Carvalho* 4885 (BRLU, MA-597847, MO, WAG).

Not previously reported from Equatorial Guinea.

Sabicea schumanniana Büttner in Verh. Bot. Vereins Prov. Brandenburg 31: 76 (1889)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 118). We have not found any herbarium specimen supporting this record.

Sabicea sciaphilantha subsp. **hirsuta** Zemagho, O.Lachenaud & Sonké in Phytotaxa 293: 58 (2017)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Wele Nzas (Zemagho *et al.* 2017: 58). We have not found any herbarium specimen supporting this record.

Sabicea segregata Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 77 (1877)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Nasanga, estrada km 14, *Carvalho* 4890 (MA-597869, MO, WAG); Bata-Monson-Dibolo: Estrada kms. 54-55, *Carvalho* 4889 (BRLU, MA-597868, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 116).

Sabicea speciosa K.Schum. in Bot. Jahrb. Syst. 23: 429, descr. (1896)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Senye (Senge), estrada km. 38, en dirección al monte Bibogo, *Carvalho* 6332 (MA-620556).

Not previously reported from Equatorial Guinea.

Sabicea venosa Benth. in Hook. (ed.), Niger Fl. 399 (1849)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian

Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, *Velayos & al.* 9484 (MA-717536); Ngong, *Cabezas* 140 (MA-695697).

Not previously reported from Río Muni.

Sacosperma paniculatum (Benth.) G.Taylor in Exell, Cat. Vasc. Pl. S. Tome: 218 (1944)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Ngong, subida hasta Akwaosí, *Cabezas* 167 (MA-695764); Wele Nzaz: Cucomamcoc, *Guinea* 357, 381 (MA-735878).

Not previously reported from Río Muni.

Schumanniphyton magnificum (K.Schum.) Harms in Engl. & Prantl (eds.), Nat. Pflanzenfam. Nachtr. 1: 313 (1897)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Niefang: Estrada km. 35. Empresa de madera de ABM con destino en zona de Comayá, *Carvalho* 5639 (MA-598575, MO, WAG)

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 118) and Wele Nzaz (Lejoly & Lisowski 1998: 118)

Sericanthe pellegrinii (N.Hallé) Robbr. in Bull. Jard. Bot. Natl. Belg. 48(1-2): 55 (1978)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Mbini, estrada km 13, *Carvalho* 6265 (MA-795307).

Not previously reported from Equatorial Guinea.

Sherbournia ailarama N.Hallé, Fl. Gabon No. 17, 146 (1970)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Río Muni: [without locality], *Esono & Ndong* 525 (MA-803914); 555 (MA-803883).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 119; 1999a: 111)

Sherbournia amaraliocarpa (Wernham) Hepper in Kew Bull. 16: 459 (1963)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Río Muni: [without locality], *P. Esono & I. Parmentier* 626 (MA-804249).

Not previously reported from Equatorial Guinea.

Sherbournia bignoniiflora (Welw.) Hua in Bull. Soc. Hist. Nat. Autun 14: 394 (1901)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Monte Alén, *Sonké, B.* 2507 (WAG-1401183).

Not previously reported from Río Muni.

Sherbournia buccularia N.Hallé, Fl. Gabon No. 17, 152 (1970)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Ayaguening (Akonangui), *Sonké & al.* 2513 (WAG). Litoral: Bata-Pembe, estrada kms. 22-23, *Carvalho* 5140 (MA-599676, MO, WAG); Bata-Mbubuin-San Joaquin de Ndyjacon e Ayamiken: Estrada km 4 de San Joaquin, *Carvalho* 4967 (MA-599205, MO, WAG).

Not previously reported from Equatorial Guinea.

Sherbournia hapalophylla (Wernham) Hepper in Kew Bull. 16: 459 (1963)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: río Campo, *Sonké, B. & Esono, P.* 2556 (WAG).

Not previously reported from Equatorial Guinea.

Sherbournia streptocaulon (K.Schum.) Hepper in Kew Bull. 16: 459 (1963)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Monte Alén, *Sonké & al.* 2455 (WAG); Ayaguening (Akonangui), *Sonké & al.* 2514 (WAG). Litoral: Bata-Bicomo, estrada km 30, *Carvalho* 5304 (MA-598256, MO, WAG). Río Muni: [without locality], *Esono & Ndong* 446 (MA-803908); 450 (MA-803895).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 119)

Spermacoe verticillata L., Sp. Pl.: 102 (1753)

NE Naturalized

Native to Tropical & Subtropical America, naturalized elsewhere in the Tropics.

Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón.

Litoral: Benito mar, *Guinea 1051* (MA-713778); Bata, entre el Aeropuerto y río Utonde, *Carvalho 4873* (MA-597391, MO, WAG). Wele Nzas: Asok, *Del Val s.n.* (MA-877735, 877739).

Previously reported from Litoral (Lejoly & Lisowski 1998: 119).

Tarenna bipindensis (K.Schum.) Bremek. in Repert. Spec. Nov. Regni Veg. 37: 7, in obs., 208 (1934)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 120). We have not found any herbarium specimen supporting this record.

Tarenna conferta (Benth.) Hiern in Oliv. (ed.), Fl. Trop. Afr.3: 90 (1877)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Sendje, *Pérez Viso 1632bis* (MA-727384).

Previously reported from Litoral (Lejoly & Lisowski 1998: 119; 1999a: 102)

Tarenna eketensis Wernham in J. Bot. 52: 4 (1914)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Senye (Senge), estrada km. 38, Bibogo, *Carvalho 6281* (MA-620438).

Not previously reported from Río Muni.

Tarenna grandiflora Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 91 (1877)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Niefang, entre Río Sama e Río Comayá, *Carvalho 5651* (MA-598553, MO, WAG).

Not previously reported from Río Muni.

Tarenna jolinonii N.Hallé, Fl. Gabon No. 17, 107 (1970)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Senye (Senge), estrada km. 27. Zona forestal de 3 Okumes, *Carvalho* 6236 (MA-620303); Bata-Mbini, estrada km. 24, Anguok, *Carvalho* 5442 (MA-599441, MO, WAG).

Not previously reported from Equatorial Guinea.

Tarenna lasiorhachis (K.Schum. & K.Krause) Bremek. in Repert. Spec. Nov. Regni Veg. 37: 196 (1934)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye (Senge), estrada km 27, zona forestal de Eboga, *Carvalho* 6242 (MA-620313).

Not previously reported from Equatorial Guinea.

Tarenna pallidula Hiern in Oliv. (ed.), Fl. Trop. Afr.3: 91 (1877)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Miyobo: carretera Niefang-Mosumu, senda hacia el río Laña, *Pérez Viso* 2564 (MA-717157); Litoral: Corisco, *Velayos & al.* 9974 (MA-705030); Etembue, Espigon (réserve de Ndote), *Obama & Lejoly* 607 (MA-612194). Wele Nzaz: Nsung Fandong, a 65 km. de Nkue, *Pérez Viso* 3142 (MA-717163); Ebo-Ngoo Nsomo, carretera forestal Añisok Mongola-Niefang, *Pérez Viso* 3190 (MA-717134).

Previously reported from Litoral (Lejoly & Lisowski 1998: 119).

Tarenna precidentenna N.Hallé in Adansonia, sér. 2 7: 506 (1967)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye (Senge), estrada km 27 en dirección a la explotación maderera de EXFOA, *Carvalho* 6363 (MA-620760).

Not previously reported from Equatorial Guinea.

Temnopteryx sericea Hook.f. in Bentham & Hooker f., Gen. Pl. 2: 72 (1873)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Bata-Monte Alen: Próximo al Río Oton Asok, *Carvalho* 5429 (MA-598442, MO, WAG). Litoral: Sendje 1º, km. 47 de la carretera de Kogo, *Pérez Viso* 2899 (MA-717545); c. 2 km NE of Elende, near Cocoloondo river, *Wieringa, J.J* 2266 (BR, WAG); Bata-Senye (Senge), estrada km 27, bosque primario de zona de Eboga, *Carvalho* 6213 (MA-620715); Bata-Pembe, bosque primario de zona de Samanguilla,

Carvalho 5468 (MA-609779, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 120).

Tricalysia amplexicaulis Robbr. in Bull. Jard. Bot. Natl. Belg. 57(1-2): 156 (1987)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 120). We have not found any herbarium specimen supporting this record.

Tricalysia anomala E.A.Bruce in Bull. Misc. Inform. Kew 485 (1936)

VU Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 120). We have not found any herbarium specimen supporting this record.

Tricalysia pallens Hiern in Oliv. (ed.), Fl. Trop. Afr.3: 121 (1877)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Litoral: Bata-Mongo (Alosa), estrada kms 88-89 desde Bata á exploração florestal de Alosa, *Carvalho 5503* (MA-598763, MO, WAG).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 120; 1999a: 119).

Trichostachys aurea Hiern in Oliv. (ed.), Fl. Trop. Afr. 3: 227 (1877)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, cabaña del Lago, *Velayos & al. 9519* (MA-701983).

Not previously reported from Río Muni.

Trichostachys microcarpa K.Schum. in Bot. Jahrb. Syst. 28: 88 (1899)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Senye (Senge): Estrada km 27, bosque primario de zona de Eboga, *Carvalho 6212* (MA-620717).

Not previously reported from Equatorial Guinea.

Uncaria africana G.Don, Gen. Hist. 3: 471 (1834)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region. Also known from Annobón.

Litoral: Bata-Monson-Dibolo, estrada kms. 54-55, *Carvalho 4886* (MA-597849, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 121).

Vangueriella chlorantha (K.Schum.) Verdc. in Kew Bull. 42(1): 193 (1987)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province). Also known from Bioko.

Litoral: Bata-Senye (Senge), estrada km 27, *Carvalho 6360* (MA-620764); Bata-Bolondo, estrada Km. 35-36, *Carvalho 5948* (MA-610002).

Not previously reported from Río Muni.

Vangueriella laxiflora (K.Schum.) Verdc. in Kew Bull. 42(1): 192 (1987)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Mbini, estrada km 13, zona forestal de Acan-Bot Esaveng, *Carvalho 6055* (MA-618936).

Not previously reported from Equatorial Guinea.

Vangueriella letestui Verdc. in Kew Bull. 42(1): 194 (1987)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Senye (Senge), estrada km 27, zona forestal de Iboga, *Carvalho 6370* (MA-620601).

Not previously reported from Equatorial Guinea.

Vangueriella nigerica (Robyns) Verdc. in Kew Bull. 42(1): 193 (1987)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Litoral: Bata-Niefang, estrada km 35, zona de Comayá, *Carvalho 5884* (MA-609917).

Not previously reported from Equatorial Guinea.

Vangueriella nigricans (Robyns) Verdc. in Kew Bull. 42(1): 193 (1987)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Monson-Dibolo, estrada km 57, *Carvalho* 4830 (MA-597686, MO, WAG).

Not previously reported from Equatorial Guinea.

Vangueriella orthacantha (Mildbr.) Bridson & Verdc. in Kew Bull. 42(1): 198 (1987)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 106). We have not found any herbarium specimen supporting this record.

Vangueriopsis rubiginosa Robyns in Bull. Jard. Bot. État 11: 254 (1928)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lachenaud *et al.* 2013: 131) and Wele Nzas (Lachenaud *et al.* 2013: 131). We have not found any herbarium specimen supporting these records.

Virectaria angustifolia (Hiern) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Sect. 2. 48(2): 21 (1952)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Litoral: Bata-Senye (Senge)-Mitom-Emangës, entre el poblado de Emangós y Ncó, *Carvalho* 6414 (MA-620772).

Not previously reported from Equatorial Guinea.

Virectaria belingana N.Hallé, Fl. Gabon 12: 84 (1966)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Wele Nzas: inselberg Piedra Nzas, *Lejoly* 99/209 (MA-621844); 99/260 (MA-621786).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 121; 1999a: 118).

Virectaria multiflora (Sm.) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Sect. 2. 48(2): 21 (1952)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bome, *Carvalho* 4683 (MA-597470, MO, WAG), 4987 (MA-598917, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 121) and Wele Nzas (Lejoly & Lisowski 1998: 121; 1999a: 118).

Virectaria procumbens (Sm.) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Sect. 2. 48(2): 21 (1952)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, camino a Esamalang pasado el cruce a Moka desde el Lago, *Velayos & al.* 9553 (MA-701973).

Not previously reported from Río Muni.

RUTACEAE

Citropsis gabunensis (Engl.) Swingle & M.Kellerm. in J. Agric. Res. 1: 430 (1914)

VU Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral

Bata-Niefang, estrada km 35. Comayá, *Carvalho* 5851 (MA-593437, WAG).

Not previously reported from Equatorial Guinea.

Citrus aurantium L., Sp. Pl.: 782-783 (1753)

NE Cultivated

Artificial hybrid, worldwide naturalized. Also known from Annobón and Bioko.

Litoral: Área de Mbini, poblado de Mbomo y Bikubini, *López Serrano* 160415, 160416, 160417 (MA).

Previously reported from Río Muni without any precise locality (Guinea 1946: 301).

Citrus limon (L.) Burm.f., Fl. Indica 173 (1768)

NE Cultivated

Artificial hybrid of unknown origin, worldwide naturalized. Also known from Bioko.

Litoral: Área de Mbini, poblado de Mangala y Ncua- Esis, *López Serrano* 130420 (MA).

Previously reported from Litoral (Lejoly & Lisowski 1998: 121).

Citrus maxima (Burm.) Merr., Interpr. Herb. Amboin.: 296 (1917)

LC Cultivated

Uncertain origin, cultivated. Also known from Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 301). We have not found any herbarium specimen supporting this record.

Citrus reticulata Blanco, Fl. Filip. 610 (1837)

NE Cultivated

Uncertain origin, cultivated

Previously reported from Litoral (Lejoly & Lisowski 1998: 121). We have not found any herbarium specimen supporting this record.

Clausena anisata (Willd.) Hook.f. ex Benth., Niger Fl.: 256 (1849)

LC Native

Native to the Tropics of the Old World. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province) Also known from Bioko.

Previously reported from Río Muni without any precise locality (Guinea 1946: 301). We have not found any herbarium specimen supporting this record.

Vepris afzelii (Engl.) Mziray in Symb. Bot. Upsal. 30(1): 70 (1992)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Previously reported from Wele Nzaz (Lejoly & Lisowski 1998: 122). We have not found any herbarium specimen supporting this record.

Vepris louisii G.C.C.Gilbert in Bull. Jard. Bot. État 28: 379 (1958)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 122) and Wele Nzaz (Lejoly & Lisowski 1998: 122). We have not found any herbarium specimen supporting these records.

Vepris soyauxii (Engl.) Mziray in Symb. Bot. Upsal. 30(1): 75 (1992)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 121). We have not found any herbarium specimen supporting this record.

Zanthoxylum gillettii (De Wild.) P.G.Waterman in Taxon 23: 363 1975

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian

Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province).

Litoral: 7 km ENE de Okuamkos, *Wilks 1739* (WAG-1413732); Bata-Niefang, estrada Km. 35. Zona de Akora, *Carvalho 5735* (MA-599361). Centro Sur: Bonobono, *Wilks 3538* (WAG-1413731).

Not previously reported from Equatorial Guinea.

SALICACEAE

Casearia barteri Mast. in Oliv. (ed.), Fl. Trop. Afr. 2: 494 (1871)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Senye (Senge), estrada km. 26 cerca del poblado de Ebumetom, *Carvalho 6299* (MA-620662, WAG). Río Muni: [without locality], *Obama 316* (WAG).

Previously reported from Litoral (Guinea 1946: 155) and Río Muni without any precise locality (Sleumer 1971: 409).

Casearia inaequalis Hutch. & Dalz., Fl. W. Trop. Afr. 1: 168 (1927)

DD Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 62). We have not found any herbarium specimen supporting this record.

Casearia prismatocarpa Mast. in Oliv. (ed.), Fl. Trop. Afr. 2: 494 (1871)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bikurbinii, *Wilks 3558* (WAG); Muni River, *Mann, G. 1750* (K).

Not previously reported from Equatorial Guinea.

Dovyalis zenkeri Gilg in Bot. Jahrb. Syst. 40: 507 (1908)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 62) and Litoral (Sleumer 1972b: 74). We have not found any herbarium specimen supporting these records.

Homalium africanum (Hook.f.) Benth. in J. Linn. Soc., Bot. 4: 35 (1860)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 156), Wele Nzas (Sleumer 1973: 286) and Río Muni without any precise locality (Hepper 1954: 196; Sleumer 1973: 286; Hutch. & Dalz. 1928: 167). We have not found any herbarium specimen supporting these records.

Homalium dewevrei De Wild. & T.Durand in Bull. Soc. Roy. Bot. Belgique 38: 126 (1900)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Bome: Pradera ao longo do rio Boara, *Carvalho 4800* (MA-597877, MO, WAG), *4803* (MA-597383, MO, WAG), *4844* (MA-597730, MO, WAG); Bata-Pembe, pradera gramínea de Eyang Mbaha, estrada kms. 33-34, *Carvalho 4838* (MA-597726, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 63)

Homalium hypolasium Mildbr. in Notizbl. Bot. Gart. Berlin-Dahlem 8: 173 (1922)

EN Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Sleumer 1973: 274). We have not found any herbarium specimen supporting this record.

Homalium letestui Pellegr. in Bull. Mus. Natl. Hist. Nat. sér.1 27: 193 (1921)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 63) and Wele Nzas (Sleumer 1973: 294). We have not found any herbarium specimen supporting these records.

Homalium longistylum Mast. in Oliv. (ed.), Fl. Trop. Afr.2: 497 (1871)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Litoral: Corisco Island, *Mann, G. 1855* (P).

Not previously reported from Equatorial Guinea.

Homalium stipulaceum Welw. ex Mast. in Oliv. (ed.), Fl. Trop. Afr.2: 498 (1871)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Senye (Senge)-Mitom-Emangës, estrada kms. 66-67 despues de Emangós, *Carvalho* 6496 (MA-620706, WAG); Bata-Bicomo, bosque primário das margens do río Ecucu no local da toma de agua para la Central Electrica, *Carvalho* 4816 (MA-597738, MO, WAG).

Not previously reported from Río Muni.

Oncoba dentata Oliv. in Oliv. (ed.), Fl. Trop. Afr.1: 119 (1868)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Esamalang, camino hacia Mondung, *Pérez Viso* 1148 (MA-710676). Litoral: Ndote, *Eneme Efua* 273 (BATA, WAG); Bata, Miboman, km 27 carretera Bata-Movo, *Castelo & al. s.n.* (MA-319767); Bata-San Joaquiin de Ndyacon-Ayamiken, estrada kms 38, entre S. Joaquin e Ayamiken, *Carvalho* 5084 (MA, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 63), Litoral (Lejoly & Lisowski 1998: 63; Sleumer 1974a: 319; Guinea 1946: 156), Wele Nzaz (Lejoly & Lisowski 1998: 63; Sleumer 1974a: 319) and Río Muni without any precise locality (Sleumer 1974a: 319).

Oncoba echinata Oliv. in Oliv. (ed.), Fl. Trop. Afr.1: 118 (1868)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, cabaña del Lago, *Velayos & al.* 9532 (MA-710675).

Not previously reported from Río Muni.

Oncoba glauca (P.Beauv.) Planch. in London J. Bot. 6: 296 (1847)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Secondary forest Engong, *Eneme Efua* 451 (BATA, WAG); P.N. Monte Alén, Esamalang, camino hacia Mondung, *Pérez Viso* 1122 (MA-714038). Litoral: Bikukbinii, *Azizet Issembé* 49 (WAG); Bata-Mbini, km 5.5, *Gómez Marín & al.* 155 (MA-854051); Río Campo, cerca de Bongoro, *Pérez Viso* 2229 (MA-710125); Bata, Miboman (km 27) carretera Bata-Movo, *Castelo & al. s.n.* (MA-319792). Río Muni: [without locality], *Eneme Efua* 315 (BATA, WAG); *F.* 421 (BATA, WAG). Wele Nzaz: Eviam, carretera forestal de Bata a Niefang, *Pérez Viso* 2577 (MA); Asok,

alrededor, *Del Val s.n.* (MA-715688, 715689, 715690, 715691, 715692, 715693).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 62), Litoral (Lejoly & Lisowski 1998: 62; Guinea 1946: 331; Sleumer 1974b: 133), Wele Nzas (Sleumer 1974b: 133) and Río Muni without any precise locality (Sleumer 1974b: 133; Hepper 1954: 189).

Oncoba mannii Oliv. in Oliv. (ed.), Fl. Trop. Afr.1: 117 (1868)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 62), Litoral (Lejoly & Lisowski 1998: 62; Guinea 1946: 330) and Río Muni (González Gómez & Pereira 1946: 110). We have not found any herbarium specimen supporting these records.

Oncoba spinosa Forssk., Fl. Aegypt. Arab. 103 (1775)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Wele Nzas: Akurenam-Melong, *Del Val s.n.* (MA-696859, 696860, 696861).

Not previously reported from Río Muni.

Oncoba welwitschii Oliv. in Oliv. (ed.), Fl. Trop. Afr.1: 117 (1868)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Centro Sur: Carretera de Niefang a Evinayong, km 15, poblado cerca de Ndong, *Cabezas 89* (MA-695673). Kie Ntem: Ngomgom, poblado de la pista que va de Nsoc Nsomo a Bata, *Barberá & al. 106* (MA-831679). Litoral: Bata: Miboman, *Castelo & al. s.n.* (MA-319779).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 62; Guinea 1946: 56g, 331), Litoral (Lejoly & Lisowski 1998: 62) and Wele Nzas (Sleumer 1974b: 125; Guinea 1946: 146).

Ophiobotrys zenkeri Gilg in Bot. Jahrb. Syst. 40: 516 (1908)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Kie Ntem (Guinea 1946: 333), Litoral (Guinea 1946: 333) and Wele Nzas (Guinea 1946: 146). We have not found any herbarium specimen supporting

these records.

Phyllobotryon spathulatum Müll.Arg. in Flora 47: 534 (1864)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Esamalang, *Pérez Viso* 552 (MA-712864). Litoral: Bata-río Campo: Estrada kms 42-43. Regiao de Esadugma, *Carvalho, M.F.* 4727 (MA, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 63).

SANTALACEAE

Viscum congolense De Wild. in Bull. Herb. Boissier Ser. II. 1: 44 (1901)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 73) and Wele Nzas (Lejoly & Lisowski 1998: 73). We have not found any herbarium specimen supporting these records.

SAPINEACEAE

Allophylus africanus P.Beauv., Fl. Oware 2: 54. I. 107 (1819)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Litoral: Bata-Niefang: estrada Km. 35, entre los Ríos Sama y Comayá, *Carvalho* 5769 (MA-599063, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 122).

Allophylus cobbe (L.) Raeusch., Nomencl. Bot. ed. 3: 108 (1797)

NE Naturalized

Native from India to Philippines, naturalized in Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region.

Litoral: Vers Monte Mitra, *Obama* 291 (WAG).

Not previously reported from Equatorial Guinea.

Allophylus longicuneatus Vermeesen ex Hauman in Bull. Jard. Bot. État 38: 97 (1958)
NT Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 122). We have not found any herbarium specimen supporting this record.

Aporrhiza letestui Pellegr. in Bull. Soc. Bot. France 101: 138 (1954)
EN Native
Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Río Muni: Région entre Ogooué et Cameroun. Acam, *Le Testu, G.M.P.C 9108* (WAG).

Not previously reported from Equatorial Guinea.

Blighia sapida K.D.Koenig in Ann. Bot. (Konig & Sims) 2: 571 (1806)
LC Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 122). We have not found any herbarium specimen supporting this record.

Cardiospermum halicacabum L., Sp. Pl.: 366 (1753)
LC Native
Native to the Tropics and Subtropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Litoral: carretera Ayap, *Guinea 27-216* (MA-714898).

Previously reported from Kie Ntem (Guinea 1946: 184j).

Chytranthus macrobotrys (Gilg) Exell & Mendonça in Carrisso, Consp. Fl. Angol. 2: 84 (1954)
LC Native
Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 122). We have not found any herbarium specimen supporting this record.

Dodonaea viscosa Jacq., Enum. Syst. Pl.: 19 (1760)
LC Native
Native to the Tropics and Subtropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper

Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Bioko.

Litoral: Benito, *Guinea* 276-553 (MA-714909); Utonde, *Guinea* 817 (MA-714905); playa del río Ecuco, *Guinea* 385-590 (MA-714904); Bata: entre o Porto de Bata e Bome, *Carvalho* 4653 (MA-597278, MO, WAG).

Previously reported from Litoral (Guinea 1946: 168).

Eriocoelum kerstingii Gilg ex Engl. in Engl. & Drude, *Veg. Erde* 3(2): 282, fig. 136 (1921)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-Bolondo: Estrada km. 18. Proximidades da povoacao Nsog-Bot, *Carvalho* 4752 (MA-597315, MO, WAG).

Previously reported from Centro Sur (Guinea 1946: 141).

Eriocoelum petiolare Radlk. ex Engl. in Engl. & Drude, *Veg. Erde* 9(III 2): 284 (1921)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Añisok, *Pérez Viso* 1370 (MA-715374); Bisun, carretera de Niefang a Evinayong, *Pérez Viso* 3397 (MA-709093).

Not previously reported from Equatorial Guinea.

Eriocoelum racemosum Baker in Oliv. (ed.), *Fl. Trop. Afr.* 1: 427 (1868)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Monte Alén, *Carvalho* 5111 (MA-844649, MO, WAG).

Not previously reported from Equatorial Guinea.

Laccodiscus ferrugineus (Baker) Radlk. in *Sitzungsber. Math.-Phys. Cl. Königl. Bayer. Akad. Wiss. München* 9: 514 (1879)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province). Also known from Bioko.

Previously reported from Río Muni without any precise locality (Hepper 1958: 721; Hutch. & Dalz. 1928: 500). We have not found any herbarium specimen supporting these records.

Lychnodiscus grandifolius Radlk. in Engl., Pflanzenreich, Sapindac. 1141 (1933)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lachenaud *et al.* 2018: 414). We have not found any herbarium specimen supporting this record.

Pancovia turbinata Radlk. in Sitzungsber. Math.-Phys. Cl. Königl. Bayer. Akad. Wiss. München 8: 270 (1878)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 123). We have not found any herbarium specimen supporting this record.

Paullinia pinnata L., Sp. Pl.: 366 (1753)

NE Native

Native to Tropical & Subtropical America and Tropical & S. Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Centro Sur: Oyac Esom, *Pérez Viso* 3453 (MA-705832); Niefang: explotación forestal de Matroguisa, *Pérez Viso* 2317 (MA-705830); Bata-Monte Alen-Engon: área de povoação de Esong, *Carvalho* 5530 (MA-598910, MO, WAG). Kie Ntem: Ebebiyin, orilla del río Muemi, *Castelo & al. s.n.* (MA-319790). Litoral: Corisco, *Pérez Viso* 1875 (MA-705831); Bata-Mbini: Estrada kms. 7-8, *Carvalho* 4924 (MA-597462, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 123; Guinea 1946: 141) and Litoral (Lejoly & Lisowski 1998: 123; Guinea 1946: 155, 158).

Placodiscus resendeanus Exell & Mendonça in Bol. Soc. Brot., Ser. 2, 26: 232 (1952)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lachenaud *et al.* 2018: 418). We have not found any herbarium specimen supporting this record.

Radlkofera calodendron Gilg in Bot. Jahrb. Syst. 24: 300 (1897)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 123). We have not

found any herbarium specimen supporting this record.

SAPOTACEAE

Autranella congolensis (De Wild.) A.Chev., Veg. Utiles Afrique Trop. Franc. 9: 268,271 (1917)

EN Native

Native from Nigeria to W. Central Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Río Muni without any precise locality (Wilks & Issembé 2000: 464). We have not found any herbarium specimen supporting this record.

Baillonella toxisperma Pierre, Notes Bot. Sapot.: 14 (1890)

VU Native

Native from Nigeria to W. Central Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Monte Alén, *Ngomo 412* (BATA); Monte Alén, *S. Lisowski M-1438* (BATA). Litoral: Área de Mbini. Poblado de Bilen, Bitica y Mboete, *López Serrano 190423* (MA).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 123; Guinea 1946: 142), Wele Nzaz (Guinea 1946: 146) and Río Muni without any precise locality (Wilks & Issembé 2000: 462).

Chrysophyllum africanum A.DC., Prodr. 8: 163 (1844)

LC Native

Native from W. Tropical Africa to Uganda. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 124) and Río Muni without any precise locality (Wilks & Issembé 2000: 458). We have not found any herbarium specimen supporting these records.

Chrysophyllum albidum G.Don, Gen. Hist. 4: 32 (1837)

NT Native

Native from W. Tropical Africa to South Sudan and Tanzania. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Río Muni without any precise locality (Hutchinson 1931: 9). We have not found any herbarium specimen supporting this record.

Chrysophyllum giganteum A.Chev. in Bull. Soc. Bot. France lxi. Mem. 8 (1914)

LC Native

Native to W. Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 124). We have not

found any herbarium specimen supporting this record.

Chrysophyllum lacourtianum De Wild. in Miss. Em. Laurent 1: 425 (1907)

LC Native

Native to W. Central Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Carretera de Niefang a Evinayong, km 15, poblado cerca de Ndong, *Cabezas* 85 (MA-695669); *83bis* (MA). Wele Nzaz: Abama, 6 km au Nord de Nsork, *Obama & Lejoly* 581 (BATA).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 124; Guinea 1946: 142), Wele Nzaz (Lejoly & Lisowski 1998: 124) and Río Muni without any precise locality (Wilks & Issembé 2000: 456).

Chrysophyllum pruniforme Pierre ex Engl. in Monogr. Afrik. Pflanzen-Fam. 8: 42 (1904)

NE Native

Native to W. Central Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 124). We have not found any herbarium specimen supporting this record.

Chrysophyllum subnudum Baker in Oliv. (ed.), Fl. Trop. Afr. 3: 499 (1877)

LC Native

Native from W. Tropical Africa to Uganda. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Monts de Cristal. Proche aviation de S.E.M.E.G. (Bonneville sur río Mven), *Wilks C.M.* 1829 (LBV).

Previously reported from Río Muni without any precise locality (Hepper 1963: 27)

Chrysophyllum welwitschii Engl. in Bot. Jahrb. Syst. 12: 521 (1890)

NE Native

Native from W. Tropical Africa to NW. Zambia. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Bata-praderas de Selives-Readive, *Carvalho* 5289 (BATA, MO, WAG); Etembue (Réserve de Ndote), *Eneme & Lejoly* 5 (BATA).

Not previously reported from Río Muni.

Delpydora macrophylla Pierre in Bull. Mens. Soc. Linn. Paris 2: 1277 (1897-97)

VU Native

Native to W. Central Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Ayamiken (Reserva de Río Campo), *Obama 60, 113* (BATA); *Lejoly 97/38* (BATA); Bata-Monson-Dibolo, estrada km 57, *Carvalho 4828* (MA-832666, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 124)

Englerophytum stelechanthum K.Krause in Bot. Jahrb. Syst. 50, Suppl.: 344 (1914)
NE Native
Native from Cameroon to Congo. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Parc National de Mante Alén, entre Mosumo et Monte Boracho, *Senterre & Ngomo 489* (BATA). Litoral: Monts de Cristal. 10 km ENE d'Okuamkos, *Wilks 1803* (LBV, WAG); Nco, 20 km ENE vers la riv. Mitong, *Nguema et Lejoly 148* (BATA); Bata-Senye (Senge): Estrada km 27 en dirección a la explotación maderera de EXFOSA, *Carvalho 6359* (MA-620765, BATA).

Previously reported from Litoral (Lejoly & Lisowski 1998: 124).

Englerophytum sylverianum Kenfack & L. Gaut. in Candollea 71(2): 299 (2016)
NE Native
Native to Cameroon and Equatorial Guinea. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Gautier *et al.* 2016: 299). We have not found any herbarium specimen supporting this record.

Lecomtedoxa klaineana (Pierre ex Engl.) Dubard in Ann. Inst. Bot.-Géol. Colon. Marseille, sér. 3 3: 32 (1915)
NE Native
Native to Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Río Muni without any precise locality (Wilks & Issembé 2000: 450). We have not found any herbarium specimen supporting this record.

Lecomtedoxa nogo (A.Chev.) Aubrév. in Bull. Soc. Bot. France 103: 11 (1956)
VU Native
Native to Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Río Muni without any precise locality (Wilks & Issembé 2000: 450). We have not found any herbarium specimen supporting this record.

Letestua durissima (A.Chev.) Lecomte in Notul. Syst. (Paris) 4: 5 (1920)
LC Native
Native to Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: Monte Alén, *S. Lisowski M-1424* (BATA).

Previously reported from Río Muni without any precise locality (Wilks & Issembé 2000: 454).

Manilkara obovata (Sabine & G.Don) J.H.Hemsl. in Kew Bull. 17: 171 (1963)

LC Native

Native to Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón.

Litoral: Crystal Mountains, 10 km ENE of Okuamkos, near Mitemele River, *Wilks 1822* (LBV, WAG); Bata: entre el aeropuerto y Río Utonde, *Carvalho 4874* (BATA, MA-597392, MO, WAG); Bata-Río Utonde, entre el aeropuerto y río Utonde, *Carvalho 5198* (BATA, MA-598216, MO, WAG); Au S de Bata, pres du fleuve Ekuka, S. *Lisowski M-1195a* (BATA).

Previously reported from Litoral (Lejoly & Lisowski 1998: 124; 1999a: 102).

Manilkara pellegriniana Tisser. & Sillans in Rev. Bot. Appl. 33: 558 (1953)

NE Native

Native to Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Sud de Etembue, *Lejoly et Van Asbroeck 46, 52* (BATA).

Not previously reported from Equatorial Guinea.

Neolemonniera batesii (Engl.) Heine in Kew Bull. 14: 301 (1960)

VU Native

Native to Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 124). We have not found any herbarium specimen supporting this record.

Omphalocarpum elatum Miers in Trans. Linn. Soc. London, Bot. 1(1): 16 (1880[1875])

LC Native

Native to Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Monts de Cristal. 8 km ENE de Okuamkos, *Wilks 1717* (LBV, WAG); Bata-Makoga: Estrada Km. 10 da estrada Bata-Niefang, *Carvalho 5983* (MA-610065).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 125), Litoral (Aubréville 1961: 79; Guinea 1946: 155), Wele Nzaz (Guinea 1946: 146) and Río Muni (Wilks & Issembé 2000: 460).

Omphalocarpum procerum P.Beauv., Fl. Oware 1:7, t.5-6 (1804)

LC Native

Native to Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Afana Oyek (Bata-Mbini km 25), *Lejoly et Van Asbroeck 56* (BATA).

Previously reported from Wele Nzas (Guinea 1946: 146) and Río Muni without any precise locality (Wilks & Issembé 2000: 460).

Synsepalum brevipes (Baker) T.D.Penn., Genera Sapotac.: 248 (1991)

LC Native

Native to Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Río Muni.

Previously reported from Litoral (Lejoly & Lisowski 1998: 125). We have not found any herbarium specimen supporting this record.

Synsepalum letouzeyi Aubrév. in Adansonia, sér. 2 3: 38 (1963)

NT Native

Native to Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 125). We have not found any herbarium specimen supporting this record.

Tieghemella africana Pierre, Notes Bot. Sapot. 1: 18 (1890)

EN Native

Native to Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Río Muni without any precise locality (Wilks & Issembé 2000: 452). We have not found any herbarium specimen supporting this record.

SIMAROUBACEAE

Quassia africana (Baill.) Baill. in Adansonia sér.1 8: 89 (1868)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 127) and Litoral (Lejoly & Lisowski 1998: 127). We have not found any herbarium specimen supporting these records.

Quassia gabonensis Pierre in Bull. Mens. Soc. Linn. Paris 2: 1238 (1896)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 126). We have not found any herbarium specimen supporting this record.

Quassia silvestris Cheek & Jongkind in Kew Bull. 63(2): 250 (2008)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian

Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Litoral: Monts de Cristal. Proche aviation de SEMGE (Bonneville sur río Mven), *Wilks, CM 1825* (WAG-1525009).

Not previously reported from Río Muni.

SIPARUNACEAE

Glossocalyx brevipes Benth. in Hooker's Icon. Pl. 14(1), tab. 1302 (1880)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alén, Monte Chocolate, *Pérez Viso 4054* (MA-832657); *4056bis* (MA-797185); P.N. Monte Alén, Akonanyi, camino hacia Nguru, *Pérez Viso 933* (MA-833220). Litoral: Bata-Ayamiken, estrada km 54-55, *Carvalho 4929* (MA-833227, WAG); Río Campo, cerca de Bongoro, *Pérez Viso 2202* (MA-714636).

Previously reported from Centro Sur and Litoral (Fero 2012: 194).

Glossocalyx longicuspis Benth. in Hooker's Icon. Pl. 14(2): 1, tab. 1301 (1880)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Enkumekien, *Pérez Viso 1557* (MA-801966); P.N. Monte Alén, Esamalang, camino hacia Mondung, *Pérez Viso 1138* (MA-832651); Monte Alén, subida al mirador, *Velayos & Pérez Viso 9271* (MA-714637); Bata-Niefang-Monte Alén: Estrada kms. 77-78 entre Niefang e Monte Alén, *Carvalho 5347* (MA-598284). Litoral: Bata-Niefang: estrada km. 35. Empresa maderera ABM con destino en zon de Comayá, *Carvalho 5634* (MA-598578, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 86), Litoral (Lejoly & Lisowski 1998: 86) and Río Muni without any precise locality (Hepper 1954: 55).

SOLANACEAE

Brugmansia candida Pers., Syn. Pl. 1: 216 (1805)

NE Cultivated

Native to S. Colombia and Ecuador cultivated and naturalized elsewhere in the Tropics. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 127). We have not found any herbarium specimen supporting this record.

Capsicum annuum L., Sp. Pl.: 188 (1753)

LC Cultivated

Native to South and Central America, cultivated and naturalized worldwide. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian

Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: Niefang: explotación forestal de Matroguisa, *Pérez Viso* 2273 (MA-714054); 2275 (MA-714049). Wele Nzas: Mbiet, Añisok, *Pérez Viso* 3612 (MA-712882).

Previously reported from Litoral (Lejoly & Lisowski 1998: 127).

Datura stramonium L., Sp. Pl.: 179 (1753)

NE Naturalized

Native from Texas to Central America, naturalized worldwide. Africa.

Centro Sur: Bata-Monte Alen: Alrededores de povoação de Moka, *Carvalho* 5475 (MA-598323, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 127).

Lycopersicon esculentum Mill., Gard. Dict., ed. 8 [820] (1768)

LC Cultivated

Native to Peru, cultivated and naturalized worldwide. Africa. Also known from Annobón and Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 127) . We have not found any herbarium specimen supporting this record.

Nicotiana tabacum L., Sp. Pl.: 180 (1753)

NE Cultivated

Native to Bolivia, cultivated and naturalized worldwide. Africa. Also known from Annobón and Bioko.

Litoral: Área de Machinda. Poblado de Adam-Tum, *López Serrano* 110518, 110519, 110520 (MA).

Not previously reported from Río Muni.

Physalis angulata L., Sp. Pl.: 183 (1753)

LC Naturalized

Native to Tropical & Subtropical America, cultivated and naturalized worldwide. Africa. Also known from Annobón and Bioko.

Centro Sur: [without locality], *Eneme Efua* 495 (WAG); Bata, Asonga, *Pérez Viso* 1399 (MA-714052). Litoral: Benito, *Guinea* 325 (MA-698922).

Previously reported from Litoral (Lejoly & Lisowski 1998: 127; Guinea 1946: 344d).

Schwenckia americana L., Gen. Pl. ed. 6 577 1764

NE Naturalized

Native from Mexico to S. Tropical America, naturalized in Tropical Africa. Sudano-

Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Corisco, camino hacia el N a 100 m de la casa de Yniestrosa, *Velayos, Cabezas & M. Tellería* 9915 (MA-795362); Utonde, *Guinea* 843 (MA-698915); 844 (MA-698916); Adjap, *Guinea* 841 (MA-698914). Wele Nzas: Alum, alrededores de la población, *Carvalho* 4587 (MA-511661).

Previously reported from Litoral (Lejoly & Lisowski 1998: 128).

***Solanum aethiopicum* L., Cent. Pl. II: 10 (1756)**

NE Naturalized

Native to NE Tropical Africa, naturalized in the rest of Tropical Africa, Tropical America and Tropical Asia. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: c. 700 m from ECOFAC-Hotel. Old Coffea plantation now planted with pineapple, *Wilde, J.J.F.E. de* 12048 (WAG). Wele Nzas: Nvua-Nnvam Oveng, Añisok, *Pérez Viso* 3021 (MA-713292).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 128) and Litoral (Lejoly & Lisowski 1998: 128).

***Solanum americanum* Mill., Gard. Dict., ed. 8: 5 (1768)**

NE Naturalized

Native to the New World, naturalized worldwide. Africa. Also known from Annobón and Bioko.

Litoral: Bata-Bome, *Carvalho* 5522 (MA-599455, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 128).

***Solanum dasyphyllum* Schumach. & Thonn., Beskr. Guin. Pl. 126 (1827)**

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Annobón.

Litoral: Área de Machinda. Poblado de Ncon-Nbia, *López Serrano* 290321, 290322, 290323 (MA); cortina litoral de Bolondo, *Guinea* 26 (MA-698923).

Not previously reported from Río Muni.

***Solanum giganteum* Jacq. in Collectanea 4: 125 (1791)**

LC Native

Tropical Africa. Sudano-Zambezian Region (Somalo-Ethiopian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Usambara

Zululand Region; Cape Region

Previously recorded from Rio Muni (Aubriot 2020: 119).

Solanum macrocarpon L., Mant. Pl. Altera: 205 (1771)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Guinea 1946: 200d, 256a), Kie Ntem (Guinea 1946: 184j) and Litoral (Lejoly & Lisowski 1998: 128). We have not found any herbarium specimen supporting these records.

Solanum scabrum Mill. in Gard. Dict. ed. 8: n.º 6 (1768)

DD Native

Tropical Africa. Worldwide naturalized

Previously recorded from Rio Muni (Aubriot 2020: 121).

Solanum terminale Forssk., Fl. Aegypt.-Arab.: 45 (1775)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Ocuam, *Pérez Viso* 623 (MA-714055). Litoral: Bata, *Guinea & J. Gómez Moreno* 1062 (MA-700864); Bata-Niefang. Estrada km. 35, de Adjape a Comayá, entre os rios Sama e Comayá, *Carvalho* 5814 (MA-609823).

Not previously reported from Río Muni.

Solanum torvum Sw., Prodr.: 47 (1788)

NE Naturalized

Native from Mexico to N. South America, naturalized elsewhere in the Tropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Tongoland-Pondoland Province); Cape Region; Madagascan Region. Also known from Bioko.

Centro Sur: P.N. Monte Alén, Encumekie, *Pérez Viso* 408 (MA-713294); Evinayong, *Guinea* 291 (MA-698924); Monduá, *Cabezas* 209 (MA-695555); carretera de Niefang a Evinayong, *Cabezas* 111 (MA-695647); Bindung, km. 17 de la carretera de Niefang, *Pérez Viso* 3782 (MA-709078); P.N. Monte Alén, Ayene, *Pérez Viso* 662 (MA-713293); P.N. Monte Alén, carretera que sube desde el hotel de Mote Alén hasta el repetidor, *Pérez Viso* 59 (MA-714053); Ayene concentrado, *Cabezas* 104 (MA); Área de Niefang. Poblado camino de Nkumekien, *López Serrano* 040515, 040516, 040517 (MA). Kie Ntem: Engokua, Ebebiyin, *Pérez Viso* 4347 (MA-709077). Litoral: Bata: Miboman, km 27 carretera Bata-Movo, *Castelo & al. s.n.* (MA-319759); Mbini, proximidades del nuevo puente Mbini-Bolondo, sobre el río Wele, *M. Fero & al.* 284

(MA-844602); Corisco, camino hacia el N a 100 m de la casa de Yniestrosa, *Velayos, Cabezas & M. Tellería* 9937 (MA-703855); Bata-Kogo, km 67, *Pérez Viso* 1840 (MA-709080). Río Muni: [without locality], *Eneme Efua* 166 (WAG). Wele Nzas: Akok, carretera Acurenam-Aconibe, *Pérez Viso* 2064 (MA-715824); Mbiet, Añisok, *Pérez Viso* 3583 (MA-709079).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 128) and Litoral (Lejoly & Lisowski 1998: 128).

Solanum violaceum Ortega, Nov. Pl. Descr. Dec. 56 (1798)

NE Naturalized

Native from Arabian Peninsula to Taiwan and Philippines.

Previously reported from Litoral (Lejoly & Lisowski 1998: 128). We have not found any herbarium specimen supporting this record.

Solanum welwitschii C.H.Wright in Bull. Misc. Inform. Kew 1894: 126 (1894)

NE Naturalized

Tropical Africa. Sudano-Zambezian Region (Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 128) and Río Muni without any precise locality (Hepper 1963: 331, 332). We have not found any herbarium specimen supporting these records.

STEMONURACEAE

Lasianthera africana P.Beauv., Fl. Oware 1: 85, tab. 51 (1804)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: P.N. Monte Alén, Bisun, *Pérez Viso* 1232 (MA-780212). Litoral: Ayamiken: Río Campo, *Pérez Viso* 2833bis (MA-691268). Río Muni: [without locality], *Eneme Efua* 472 (BATA, WAG). Wele Nzas: Nvua-Nnvam Oveng, Añisok, *Pérez Viso* 3016 (MA-715825).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 68), Litoral (Lejoly & Lisowski 1998: 68; Guinea 1946: 156, 158), Wele Nzas (Guinea 1946: 148) and Río Muni without any precise locality (Hepper 1958: 638; Hutchinson & Dalziel 1928: 456).

TALINACEAE

Talinum fruticosum (L.) Juss., Gen. Pl.: 312 (1789)

NE Naturalized

Native to Tropical & Subtropical America, naturalized in Tropical Africa and Tropical Asia. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Centro Sur: Niefang, Bindeng, alrededores de las instalaciones de Matroguisa, *Pérez*

Viso 2358 (MA-713391). Litoral: Benito, *Guinea* 936 (MA-724245).

Previously reported from Centro Sur (Guinea 1946: 279), Litoral (Lejoly & Lisowski 1998: 101) and Wele Nzas (Guinea 1946: 279).

THOMANDERSIACEAE

Thomandersia congolana De Wild. & T.Durand in Bull. Soc. Roy. Bot. Belgique Compt.-Rend. 38: 107 (1899)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Miyobo: carretera Niefang-Mosumu. Senda hacia el río Laña, *Pérez Viso* 2543 (MA-745692).

Not previously reported from Equatorial Guinea.

Thomandersia hensii De Wild. & T.Durand in Bull. Soc. Roy. Bot. Belgique Compt.-Rend. 38: 107 (1899)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 6) and Litoral (Heine 1966: 225). We have not found any herbarium specimen supporting these records.

Thomandersia laurifolia (T.Anderson ex Benth.) Baill., Hist. Pl. 11: 456 (1891)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 6), Litoral (Lejoly & Lisowski 1998: 6; Heine 1966: 218; Guinea 1946: 157) and Wele Nzas (Guinea 1946: 152). We have not found any herbarium specimen supporting these records.

THYMELAEACEAE

Dicranolepis buchholzii Engl. & Gilg in Bot. Jahrb. Syst. 19: 273 (1894)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Wele Nzas: inselberg Dumu, *Lejoly* 99/347 (MA-621695).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 131) and Wele Nzas (Lejoly & Lisowski 1998: 131; 1999a: 121).

Dicranolepis pulcherrima Gilg in Bot. Jahrb. Syst. 23: 203 (1896)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province,

Congolian Province). Also known from Bioko.

Litoral: Bata-Senye (Senge): Estrada km 38. Entrada maderera hacia el monte Bibogo, *Carvalho* 6323 (MA-620564, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 131)

Dicranolepis soyauxii Engl. in Bot. Jahrb. Syst. 7: 337 (1885)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Wele Nzas: Nkolentangan, Epamedulu, *Tessmann, G. 174* (K).

Not previously reported from Equatorial Guinea.

Octolepis casearia Oliv. in J. Linn. Soc., Bot. 8: 161 (1865)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Litoral: Jandjè, *Eneme Efua* 452 (WAG); Bata-Bicomo, margens do río Ecucu, *Carvalho* 5295 (MA, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 132).

URTICACEAE

Boehmeria virgata subsp. **macrophylla** (Hornem.) Friis & Wilmot-Dear in *Blumea* 58: 159 (2013)

LC Native

Native to Tropical Africa, W. Indian Ocean. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Centro Sur: Área de Evinayong. Poblado de Eñeng, *López Serrano* 220507, 220508 (MA).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 134), Litoral (Guinea 1946: 159), Wele Nzas (Guinea 1946: 151) and Río Muni without any precise locality (Guinea 1946: 274).

Elatostema mannii Wedd. in DC., Prodr. 16, tab. 178 (1869)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known in Bioko.

Previously reported from Wele Nzas (Guinea 1946: 151). We have not found any herbarium specimen supporting this record.

Elatostema paivaeum Wedd. in DC., Prodr. 16(1): 178 (1869)

Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Previously reported from Wele Nzaz (Guinea 1946: 151). We have not found any herbarium specimen supporting this record, nonetheless, the distribution range and ecological requirements of the species makes its presence in the country reliable.

Laportea aestuans (L.) Chew in Gard. Bull. Singapore 21: 200 (1965)

NE Native

Native to the Tropics & Subtropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Litoral: Área de Mbini. Poblado de Mbomo y Bikubini, *López Serrano 160412* (MA).

Previously reported from Centro Sur (Guinea 1946: 142), Litoral (Lejoly & Lisowski 1998: 134; Guinea 1946: 159), Wele Nzaz (Guinea 1946: 151), Río Muni without any precise locality (Guinea 1946: 274).

Laportea alatipes Hook.f. in J. Linn. Soc. Bot. 7: 215 (1864)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province). Also known from Bioko.

Previously reported from Wele Nzaz (Lejoly & Lisowski 1998: 134). We have not found any herbarium specimen supporting this record.

Laportea ovalifolia (Schum. & Thonn.) Chew in Gard. Bull. Singapore 21: 201 (1965)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Guinea 1946: 142), Litoral (Lejoly & Lisowski 1998: 134; Guinea 1946: 157), Wele Nzaz (Guinea 1946: 151) and Río Muni without any precise locality (Guinea 1946: 274). We have not found any herbarium specimen supporting these records.

Musanga cecropioides R.Br. ex Tedlie, Miss. Ashantee: 372 (1819)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-

Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: carretera forestal de Niefang a Evinayong, *Cabezas 114* (MA-695649). Kie Ntem: Ngomgom, poblado de la pista que va de Nsoc Nsomo a Bata, *Barberá & al. 60* (MA-831639). Litoral: Área de Machinda. Poblado de Ayamiken, *López Serrano 190315* (MA). Río Muni: [without locality], *Eneme Efua 193* (BATA, WAG).

Previously reported from Centro Sur (Guinea 1946: 64c, 184i), Kie Ntem (Guinea 1946: 184j), Litoral (Guinea 1946: 157), Wele Nzaz (Lejoly & Lisowski 1998: 89) and Río Muni without any precise locality (Hepper 1958: 616; Guinea 1946: 272).

Myrianthus arboreus P.Beauv., Fl. Oware 1: 17, tab. 11 (1804)

LC Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Área de Niefang. Poblado camino de Nkumekien, *López Serrano 040523, 040524, 040525, 040526* (MA); Niefang: explotación forestal de Matroguisa, *Pérez Viso 2306* (MA-872044). Río Muni: [without locality], *Eneme Efua 434* (WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 89), Litoral (Guinea 1946: 154), Wele Nzaz (Lejoly & Lisowski 1998: 89; Guinea 1946: 143) and Río Muni without any precise locality (Guinea 1946: 273).

Myrianthus preussii Engl. in Bot. Jahrb. Syst. 20: 149 (1894)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 89) and Wele Nzaz (Lejoly & Lisowski 1998: 89). We have not found any herbarium specimen supporting these records.

Myrianthus serratus (Trécul) Benth. & Hook., Gen. Pl. 3: 379 (1880)

LC Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Dibolo, estrada kms 55-56, *Carvalho 5211* (MA, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 89) and Litoral (Lejoly & Lisowski 1998: 89).

Pilea microphylla (L.) Liebm. in Kongel. Danske Vidensk. Selsk. Skr., Naturvidensk. Math. Afd., ser. 5 2: 296 (1851)

NE Naturalized

Native to the Tropics and Subtropics of America, elsewhere naturalized in the Tropics and Subtropics or the world. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 135). We have not found any herbarium specimen supporting this record.

Pilea rivularis Wedd. in Arch. Mus. Hist. Nat. 9: 266 (1856)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Bioko.

Previously reported from Wele Nzas (Guinea 1946: 151). We have not found any herbarium specimen supporting this record.

Pilea sublucens Wedd. in DC., Prodr. 16(1): 130 (1869)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 134). We have not found any herbarium specimen supporting this record.

Pouzolzia guineensis Benth., Niger Fl. 518 (1849)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province); Madagascan Region. Also known from Bioko.

Litoral: Bata-Pembe-San Joaquin de Ndyjacon: Estrada kms. 31-32, *Carvalho* 5262 (MA-598117, MO, WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 135)

Procris crenata C.B.Rob. Philipp. in J. Sci. 5(6): 507 (1911)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: near ECOFAC-Hotel. Base of Mount Alen, *Wilde, J.J.F.E. de* 12027 (BATA, WAG).

Not previously reported from Río Muni.

Urera flamigniana Lambinon in Bull. Soc. Roy. Bot. Belgique 91: 199 (1959)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 135). We have not found any herbarium specimen supporting this record.

Urera gabonensis Pierre ex Friis, Fl. Gabon 51: 77 (2018)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Centro Sur: P.N. Monte Alen, dalle rocheuse 3 km l'O de ECOFAC, *Lejoly 99/008* (MA-621783); Bata-Monte Alen, *Carvalho 5487* (MA-599375, MO, WAG).

Not previously reported from Equatorial Guinea.

Urera mannii (Wedd.) Benth. & Hook.f. ex Rendle in J. Bot. 54(648): 370 (1916)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Annobón and Bioko.

Previously reported from Litoral (Guinea 1946: 155). We have not found any herbarium specimen supporting this record.

Urera obovata Benth., Niger Fl. 516 (1849)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province).

Wele Nzas: Asoc, *Guinea 160-333* (MA-709054).

Not previously reported from Equatorial Guinea.

Urera repens (Wedd.) Rendle, Fl. Trop. Afr. (Prain) 6: II. 264 (1917)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 135). We have not found any herbarium specimen supporting this record.

Urera trinervis (Hochst. ex Krauss) Friss & Immelman in Nord. J. Bot. 7(2): 126 (1987)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Madagascan Region. Also known from Annobón and Bioko.

Centro Sur: P.N. Monte Alen, dalle rocheuse 3 km l'O de ECOFAC, *Lejoly 99/009* (MA-621785). Litoral: Bata-Mongo-Zona Florestal de Alosa, estrada kms. 57-58 entre Mongo e Serrapao de Alosa, *Carvalho 5419* (MA-599429, MO, WAG).

Previously reported from Centro Sur (Guinea 1946: 142), Litoral (Lejoly & Lisowski

1998: 135; Guinea 1946: 157) and Wele Nzas (Lejoly & Lisowski 1998: 135; 1999a: 120; Guinea 1946: 149, 184k).

VERBENACEAE

Lantana camara L., Sp. Pl.: 627 (1753)

NE Naturalized

Native from Mexico to Tropical America, cultivated and naturalized elsewhere in the Tropics. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province Madagascan Region. Also known from Bioko.

Centro Sur: Bata-Monte Alen-Engon: area de povoapao de Esong, *Carvalho* 5528 (MA-599461, MO, WAG); salida de la carretera de Niefang a Evinayong, *Cabezas* 162 (MA-695759); Bindung, km. 17 de la carretera de Niefang, *Pérez Viso* 3774 (MA-715770). Litoral: Corisco, *Pérez Viso* 1871 (MA-713701); Mechenque, Río Benito, *Del Val* s.n. (MA-716162); costa Bata, *Del Val* s.n. (MA-716175); Benito, *Guinea* 968 (MA-727720); 1004 (MA-727719); playa del río Ecucó, *Guinea* 773-895 (MA-727722), 593-863 (MA-727721); *Del Val* s.n. (MA-389296); Punta Mbonda, *Guinea* s.n. (MA-727723); Área de Mbini, poblado de Mbomo y Bikubini, *López Serrano* 160404, 160405 (MA); Área de Mbini. Poblado de Mangala y Ncua- Esi, *López Serrano* 130423, 130424 (MA); Sendje, *Pérez Viso* 3371 (MA-726946). Río Muni: [without locality], *Eneme Efua* 180 (WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 136; Guinea 1946: 88c)

Lippia multiflora Moldenke in Phytologia 3: 168 (1949)

DD Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously recorded from Río Muni (De Kok 2022: 133)

Stachytarpheta cayennensis (Rich.) Vahl, Enum. Pl. 1: 208 (1804)

NE Naturalized

Native from S. Mexico to Tropical America, elsewhere naturalized in the Tropics. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province). Also known from Bioko.

Litoral: Bata-Bome, *Carvalho* 5099 (MA, MO, WAG); Corisco, Endote, *Pérez Viso* 1966 (MA-727713).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 136) and Litoral (Lejoly & Lisowski 1998: 136)

Stachytarpheta indica (L.) Vahl, Enum. Pl. 1: 206 (1804)

LC Naturalized

Native from Mexico to Tropical America, naturalized in Tropical Africa. Sudano-

Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Centro Sur: Miyobo: carretera Niefang-Mosumu. Senda hacia el río Laña, *Pérez Viso* 2525 (MA).

Not previously reported from Río Muni.

VIOLACEAE

Afrohybanthus enneaspermus (L.) Flicker in Phytotaxa 230(1): 47 (2015)

NE Native

Native to Tropical Africa, Madagascar, Tropical & Subtropical Asia and Australia. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somali-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province); Karroo Namib Region; Madagascan Region. Also known from Bioko.

Litoral: Bata-Bicomo, estrada km. 15, captação de agua no río Ecucu, *Carvalho* 5363 (MA-599642, MO, WAG); Bata-Bicomo, margen del río Ecucu, *Carvalho* 4918 (MA-597888, MO, WAG).

Not previously reported from Río Muni.

Rinorea cauliflora (Oliv.) Kuntze in Revis. Gen. Pl. 42 (1891)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: Bata-Niefang, estrada km 35, *Carvalho* 5629 (MA-870484, MO, WAG).

Not previously reported from Equatorial Guinea.

Rinorea dentata (P.Beauv.) Kuntze in Revis. Gen. Pl.: 42 (1891)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Guinea 1946: 156). We have not found any herbarium specimen supporting this record.

Rinorea kamerunensis Engl. in Bot. Jahrb. Syst. 33: 139 (1904)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Mokomo, km. 19 de la carretera de Kogo, *Pérez Viso* 3899 (MA-714603); Sendje, *Pérez Viso* 3362 (MA-712756); 3390 (MA-712757).

Not previously reported from Equatorial Guinea.

Rinorea leiophylla M. Brandt in Bot. Jahrb. Syst. 51: 111 (1913)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Río Muni: Haiia (?). Monte Rutoa (?), *Obama* 289 (WAG).

Not previously reported from Equatorial Guinea.

Rinorea longisepala Engl. in Bot. Jahrb. Syst. 33: 143 (1902)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province).

Litoral: Bata-Monte Bata-Mbubuin, estrada km 30, *Carvalho* 5091 (MA, MO, WAG).

Previously reported from Río Muni without any precise locality (Hepper 1954: 103; Brenan 1953a: 443).

Rinorea oblongifolia (C.H.Wright) Marquand ex Chipp in Bull. Misc. Inform. Kew 296 (1923)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Litoral: Bata-Ayamiken, estrada kms. 36-37, *Carvalho* 4807 (MA-597385, MO, WAG). Wele Nzaz: Village Mebama, distrito de Nserk (?), *Obama* 784 (WAG).

Not previously reported from Equatorial Guinea.

Rinorea parviflora Chipp in Bull. Misc. Inform. Kew 295 (1923)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lejoly & Lisowski 1998: 137). We have not found any herbarium specimen supporting this record.

Rinorea welwitschii (Oliv.) Kuntze, Revis. Gen. Pl. 1: 42 (1891)

LC Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 137) and Litoral (Lejoly & Lisowski 1998: 137). We have not found any herbarium specimen supporting these records, nonetheless, the distribution range and ecological requirements of the species makes its presence in the country reliable.

VITACEAE

Ampelocissus abyssinica (Hochst. ex A.Rich.) Planch., Vigne Amer. Vitic. Eur. 24 (1885)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 137) and Río Muni without any precise locality (Hepper 1958: 682). We have not found any herbarium specimen supporting these records.

Ampelocissus bombycina (Baker) Planch., Vigne Amer. Vitic. Eur. 31 (1885)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alen, dalle rocheuse 3 km l'O de ECOFAC, *Lejoly 99/007* (MA-621847).

Previously reported from Río Muni without any precise locality (Hepper 1958: 682; Hutch. & Dalz. 1928: 478)

Cayratia debilis (Baker) Suess. in Engl. & Prantl (eds.), Nat. Pflanzenfam. Nachtr., ed. 2, 20d: 278 (1953)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Litoral (Lejoly & Lisowski 1998: 137; Guinea 1946: 158). We have not found any herbarium specimen supporting these records.

Cissus aralioides (Baker) Planch. in DC., Monogr. Phan. 5: 513 (1887)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 137; Guinea 1946: 142), Litoral (Lejoly & Lisowski 1998: 137) and Wele Nzaz (Lejoly & Lisowski 1998: 137; 1999a: 119). We have not found any herbarium specimen supporting these records.

Cissus barbeyana De Wild. & T.Durand in Ann. Mus. Congo Belge. Bot., Ser. 2 1(2): 11 (1900)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Río Muni without any precise locality (Hepper 1958: 678). We have not found any herbarium specimen supporting this record.

Cissus barteri (Baker) Planch. in DC., Monogr. Phan. 5: 491 (1887)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Niefang, estrada km. 35, proximo al Río Sama, *Carvalho* 5720 (MA-599020). Río Muni: [without locality], *Eneme Efua* 278 (BATA, WAG), 420 (WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 137) and Litoral (Guinea 1946: 155).

Cissus diffusiflora (Baker) Planch. in DC., Monogr. Phan. 5: 496 (1887)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Wele Nzaz (Lejoly & Lisowski 1998: 137) and Río Muni without any precise locality (Hepper (1958: 678, 679). We have not found any herbarium specimen supporting these records.

Cissus dinklagei Gilg & M.Brandt in Bot. Jahrb. Syst. 46: 447, 476 (1911)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Pembe-Río Mbia, estrada kms. 31-32, *Carvalho* 5278 (MA-598104, MO, WAG). Wele Nzaz: dalle rocheuse à 3 km au S de Asoc, *Lejoly* 99/305 (MA-621698).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 138).

Cissus glaucophylla Hook.f., Niger Fl.: 263 (1849)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province). Also known from Bioko.

Previously reported from Río Muni without any precise locality (Hepper 1958: 678). We have not found any herbarium specimen supporting this record.

Cissus leemansii Dewit in Bull. Jard. Bot. État 30: 95 (1960)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Centro Sur (Lachenaud *et al.* 2018: 419). We have not found any herbarium specimen supporting this record.

Cissus leonardii Dewit in Bull. Jard. Bot. État 29: 289 (1959)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Centro Sur: P.N. Monte Alen, 5 km au NO de Engong, inselberg, *Lejoly 99/117* (MA-621704). Litoral: carretera forestal del Espigon, *Eneme Efua 351* (WAG). Wele Nzas: explotación maderera de Añisok-Mongola, *Pérez Viso 3751* (MA-725789)

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 138) and Litoral (Lejoly & Lisowski 1998: 138)

Cissus louisii Dewit in Bull. Jard. Bot. État 29: 291 (1959)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Litoral (Lachenaud *et al.* 2018: 420). We have not found any herbarium specimen supporting this record.

Cissus petiolata Hook.f. in Hook., Niger Fl. 262 (1849)

NE Native

Tropical Africa. Sudano-Zambezian Region (Sudanian Province, Zambezian Province, Somalo-Ethiopian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province, Tongoland-Pondoland Province).

Centro Sur: Bata-Niefang-Mogom, estrada km. 6 de Niefang a Mogom, *Carvalho 5671* (MA-598981).

Previously reported from Litoral (Guinea 1946: 155)

Cissus planchoniana Gilg in Engl., Pflanzenw. Ost -Afr.:258 (1895)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Bata-Niefang: Estrada Km. 35. Estrada madeireira que conduce a la zona de Comayá, *Carvalho 5686* (MA-598985, WAG); Bata-Anguoc-Mbini, estrada km. 28, entrada antigua de exploração florestal de Exfosa, *Carvalho 5537* (MA-598903, MO, WAG).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 138), Litoral (Lejoly & Lisowski 1998: 138) and Wele Nzas (Lejoly & Lisowski 1998: 138).

Cissus producta Afzel., Rem. Guin.: 63 (1815)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian

Province); Usambara-Zululand Region (Zanzibar-Inhambane Province). Also known from Bioko.

Río Muni: [without locality], *Eneme Efua* 243 (WAG).

Previously reported from Litoral (Lejoly & Lisowski 1998: 138) and Wele Nzas (Lejoly & Lisowski 1998: 138; 1999a: 120).

Cissus ruginosicarpa Desc. in Bull. Soc. Bot. France 114: 350 (1968)

NE Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Previously reported from Wele Nzas (Lejoly & Lisowski 1998: 138; 1999a: 119). We have not found any herbarium specimen supporting this record.

Cyphostemma ukerewense (Gilg) Desc. in Naturalia Monspel., Sér. Bot. 18: 229 (1967)

NE Native

Tropical Africa. Sudano-Zambezian Region (Zambezian Province); Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province); Usambara-Zululand Region (Zanzibar-Inhambane Province).

Río Muni: [without locality], *Eneme Efua* 216 (BATA, WAG).

Not previously reported from Equatorial Guinea.

Cyphostemma vogelii (Hook.f.) Desc. in Naturalia Monspel., Sér. Bot. 18: 230 (1967)

NE Native

Tropical Africa. Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province)

Previously reported from Río Muni (Hepper 1958: 680; Hutchinson & Dalziel 1928: 476). We have not found any herbarium specimen supporting these records.

Leea guineensis G.Don, Gen. Hist. 1: 712 (1831)

NE Native

Native to Tropical and Subtropical Old World. Sudano-Zambezian Region (Sudanian Province, Zambezian Province); Guineo-Congolian Region (Upper Guinea Province, Nigerian-Cameroonian Province, Congolian Province); Madagascan Region. Also known from Bioko.

Centro Sur: Nfaman Summit, Bosque National, East face of mountain, *Leal* 2271 (MO, WAG); Nfing Ntagan, poblado en la carretera forestal de Niefang a Bata, a continuación de Mosumu, *Pérez Viso* 2744 (MA-780332); carretera forestal Bata-Niefang, Nhogo Ebaiñ, *Pérez Viso* 2687bis (MA-780333); P.N. Monte Alén, cabaña de el Lago, *Velayos & al.* 9547 (MA-714615); Niefang, explotación forestal de Matroguisa, *Pérez Viso* 2286 (MA-714066); P.N. Monte Alén, senda que va desde el lago Atok hasta Moka, *Pérez Viso* 1348 (MA-712684). Litoral: carretera forestal del Espigon, *Eneme Efua* 337 (WAG); Mbini, Senye I, salida del poblado hacia Monte Mitra, *Velayos & al.* 13427

(MA-884418, 884419); Utonde, carretera de Utonde a Bata, *Barberá & al.* 278 (MA-844248); Corisco, *Pérez Viso 1901* (MA-714620); Bata-Kogo, km 67, *Pérez Viso 1847* (MA-714067); Bata-Movo, *Castelo & al. s.n.* (MA-319787). Río Muni: [without locality], *Eneme Efua 187* (WAG). Wele Nzaz: Akok, carretera Acurenam-Aconibe, *Pérez Viso 2010* (MA-714618).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 71), Litoral (Lejoly & Lisowski 1998: 71; 1999a: 102; Guinea 1946: 157) and Wele Nzaz (Guinea 1946: 151).

VOCHYSIACEAE

Erismadelphus exsul Mildbr. in Bot. Jahrb. Syst. 49: 549 (1913)

LC Native

Tropical Africa. Guineo-Congolian Region (Nigerian-Cameroonian Province, Congolian Province).

Litoral: Monts de Cristal, 10 km ENE d'Okuamkos, *Wilks 1793* (WAG-1694640); Bata-Niefang, estrada Km. 35, entrada a la zona de Adjape, por ríos Sama e Comayá, *Carvalho 5694* (MA-599025).

Previously reported from Centro Sur (Lejoly & Lisowski 1998: 138) and Wele Nzaz (Lejoly & Lisowski 1998: 138).

XIMENIACEAE

Ximenia americana L., Sp. Pl.: 1193 (1753)

LC Native

Native to the Tropics and Subtropics. Tropical and Subtropical Africa. Also known from Annobón and Bioko.

Litoral: [without locality], *Eneme Efua 258* (BATA, WAG); Ehebey Grande, distrito de Kogo, *Obama 713* (WAG); playa de Utonde, *Barberá & al.* 226 (MA-843812); Bolondo, orilla del río Mbini, *Castelo & al. s.n.* (MA-319724).

Previously reported from Litoral (Lejoly & Lisowski 1998: 96; 1999a: 102) and Río Muni without any precise locality (Guinea 1946: 275).

DOUBTFUL OR ERRONEUS RECORDS

ANNONACEAE

Cleistopholis myristiciflora Diels & Mildbr. in Bot. Jahrb. Syst. 53: 439 (1915)
Previously reported from Río Muni, without any precise locality (Guinea 1946: 281).
The position of this species is not clear. It is only known from the locality where the type was collected. The reference of Le Thomas (1969: 95) where he indicates that the type is from Spanish Guinea is erroneous, since in the original publication Diels & Mildbraed (1915: 439) clearly indicates that the type is from Cameroon.

COSTACEAE

Costus schlechteri Winkl. in Bot. Jahrb. Syst. 41: 275 (1908)
Previously reported from Litoral (Guinea 1946: 157). We have not found any herbarium specimen supporting this record. Koechlin (1965: 95) doubts its presence in neighbouring Cameroon, thus the presence of this species in the studied territory cannot be confirmed.

FABACEAE

Bauhinia glauca subsp. **tenuiflora** (Watt ex C.B. Clarke) K. Larsen & S.S. Larsen

Previously reported from Río Muni without any precise locality (Guinea 1946: 295).
Possibly, it is a misidentification, since this species is distributed mainly in the east of the Asian continent.

IRVINGIACEAE

Irvingia klaineodoxa Guinea
Previously reported from Río Muni without any precise locality (Guinea 1946: 302).
We have not been able to find any information about this taxon. It rather seems a mistake of Emilio Guinea.

MENISPERMACEAE

Jateorhiza palmata (Lam.) Miers Niger Fl.: 214 (1849)
Previously reported from Litoral (Guinea 1946: 155). Possibly, it is a misidentification, since this species is distributed mainly in the east of the African continent.

Tinospora tenera Miers in Ann. Mag. Nat. Hist., Ser. 3 13: 322 (1864)
Centro Sur: P.N. Monte Alén, Ayene, *Pérez Viso* 654 (MA-702224). Previously reported from Centro Sur (Fero 2012: 250). The supporting herbarium material for the citation of Fero (2012: 250) is very poor and its identification is not reliable. The species is distributed in Tropical East Africa. By the moment, we cannot confirm its presence in Equatorial Guinea.

MUSACEAE

Musa acuminata Colla x **Musa balbisiana** Colla
Cultivated and naturalized in the Tropics, probably originary from Asia. Previously reported from Río Muni, without any precise locality (Guinea 1946: 259, 260). Doubtful records

POACEAE

Loudetia densispica (Rendle) C.E. Hubb. in Bull. Misc. Inform. Kew 1934: 428 (1934)

Previously reported from Litoral (Guinea 1946: 177). The only herbarium material that supports the Río Muni citation of Guinea (1946: 177) is *Guinea* 33 (MA-389255). This specimen is very poor, and its identification is not reliable. The species is distributed in tropical and southern Africa. By the moment, we cannot confirm its presence in Equatorial Guinea.

Setaria palmifolia (J. König) Stapf in J. Linn. Soc., Bot. 42(285): 186 (1914)

Previously reported from Centro Sur (Guinea 1946: 216d), Kie Ntem (Guinea 1946: 184j), Litoral (Guinea 1946: 159) and Río Muni, without any precise locality (Guinea 1946: 230). We have not found any herbarium material to support the Río Muni citations of Guinea (1946: 159, 230, sub *Panicum sulcatum*). Native from Tropical & Subtropical Asia to E. Australia, naturalized in some countries of America, Africa, Asia and Australia. We have not located any reference to the taxon less than 150 km from the Guinean borders. By the moment, we cannot confirm its presence in Equatorial Guinea.

Setaria plicata (Lam.) T. Cooke

Previously reported from Río Muni, without any precise locality (Guinea 1946: 230). The supporting herbarium material for the citations of Guinea (1946: 184j, 216d, 230, sub *Panicum plicatum*) (MA-4280) is so poor that it does not allow its identification. This is an Asian plant, of cultivated origin. By the moment, we cannot confirm its presence in Equatorial Guinea.

SALICACEAE

Oncoba cristata

Previously reported from Litoral (Guinea 1946: 156). We have not been able to find any information about this taxon. It rather seems a mistake of Emilio Guinea.

RUBIACEAE

Chassalia carvalhoi O.Lachenaud, nom. in sched.

The specimens *Carvalho* 4806 (MA-597384, MO, WAG) from Litoral and *Pérez Viso* 2109 (MA-718281) from Wele Nzaz were labelled with this name. There are also specimens reported under this name from Cameroon and Gabon, nonetheless this name has not been validly published so far. We will not include it in the checklist until the taxonomic status of the species is clarified.

Anexo 2

Localities of Río Muni with geographic coordinates

Dataset of the paper: Floristic analyses of the checklist of the Vascular Plants of Río Muni (Equatorial Guinea), diversity, endemism and threatened status. *Anales del Jardín Botánico de Madrid* 80(1): e134.

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Locality	Province	Coordinates
Aandom, Bata-Rio Campo kms 33-34	Litoral	
Abama (Nsork)	Wele Nzas	01° 12' 00" N; 11° 17' 00" E
Abang, Niefang	Centro Sur	01° 55' 00" N; 10° 22' 00" E
Abdelmang	Unknown province	
Abea, río (Nkolentangan)	Wele Nzas	01° 53' 00" N; 10° 45' 00" E
Abenga (región del río Bimvile)	Kie Ntem	01° 48' 31,1322" N; 10° 42' 29,0634" E
Abobem, Niefang	Centro Sur	01° 54' 00" N; 10° 20' 00" E
Abog-Nsu (Evinayong, Evinayong-Cogo, km 20)	Centro Sur	
Abumnsoc	Centro Sur	01° 32' 16,1129" N; 09° 59' 19,8480" E
Abumnzok, véase Abumnsoc	Centro Sur	
Acan-Bot-Esaveng (Bata-Mbini km 13)	Litoral	01° 45' 00" N; 09° 46' 00" E
Acasakira (Nsork)	Wele Nzas	01° 07' 00" N; 11° 15' 00" E
Achimelan, km 23 de la carretera de Kogo	Centro Sur	01° 41' 00" N; 09° 49' 00" E
Acmenan [Acurenam], Ayebe, cercanías catarata Asok-Moñun	Wele Nzas	
Acoak Banga, inselberg (Ngong Mocomo, Nsork)	Wele Nzas	01° 04' 00" N; 11° 11' 00" E
Acoaseng	Wele Nzas	01° 20' 00" N; 11° 00' 00" E
Aconangui (P.N. Monte Alén)	Centro Sur	01° 48' 1" N; 10° 24' 13" E
Aconibe	Wele Nzas	01° 17' 43" N; 10° 56' 22" E
Aconibe, camino de	Wele Nzas	01° 15' 57,3492" N; 10° 53' 14,3926" E
Acurenam	Centro Sur	01° 02' 00" N; 10° 40' 00" E
Adam-Tum (Machinda)	Litoral	
Adamtun (Machinda)	Litoral	
Adjap (Utonde), véase Adyap (Utonde)	Litoral	
Adjap, véase Adyap	Wele Nzas	

Locality	Province	Coordinates
Adjape (Bata-Niefang, km 35)	Litoral	01° 51' 51" N; 09° 59' 52" E
Adjiakom	Litoral	02° 05' 00" N; 10° 00' 00" E
Adyap	Wele Nzas	01° 34' 00" N; 11° 11' 00" E
Adyap (Utonde)	Litoral	01° 53' 59,0577" N; 09° 48' 33,1994" E
Afana Oyek (Bata-Mbini km 25)	Litoral	01° 42' 00" N; 09° 45' 00" E
Afumagang, río	Litoral	02° 01' 00" N; 09° 50' 00" E
Agama	Wele Nzas	
Aggor, explotación forestal [Menang]	Kie Ntem	02° 09' 00" N; 11° 17' 00" E
Aguak (Bata-Bolondo km 24)	Litoral	
Akam	Kie Ntem	02° 08' 1" N; 11° 02' 57" E
Akam II	Kie Ntem	02° 07' 00" N; 11° 03' 00" E
Akoak Ebanga, inselberg, véase Acoak Banga, inselberg	Wele Nzas	
Akoakam (Mbini-Bata, km 10)	Litoral	01° 31' 42" N; 09° 38' 35" E
Akoga	Centro-Sur	01° 22' 00" N; 10° 40' 00" E
Akogosi	Unknown province	
Akok (Acurenam-Aconibe)	Wele Nzas	01° 05' 00" N; 10° 45' 00" E
Akom Suma, inselberg	Kie Ntem	
Akonangi, véase Aconangui	Centro Sur	
Akonango (Campo)	Litoral	
Akonangui, véase Aconangui	Centro Sur	
Akonanyi, camino hacia Nguru (P.N. Monte Alén)	Centro Sur	01° 47' 00" N; 10° 17' 00" E
Akonikieng (Bata)	Litoral	02° 0' 00" N; 09° 50' 00" E
Akoniquieng (Bata), véase Akonikieng	Litoral	
Akora (Bata-Niefang, km 35)	Litoral	01° 51' 00" N; 10° 03' 00" E
Akuom	Wele-Nzas	01° 50' 00" N; 10° 58' 00" E
Akuom, inselberg (Nzuameyong)	Wele Nzas	01° 49' 00" N; 10° 55' 00" E
Akurenam, véase Acurenam	Centro Sur	
Akwaosí, praderas de (Ngong)	Centro Sur	01° 37' 00" N; 10° 17' 00" E
Alandungu	Unknown province	
Alen	Litoral	01° 10' 33,7121" N; 09° 48' 32,2182" E
Alena, aserradero	Litoral	01° 16' 00" N; 09° 34' 00" E
Alosa (Niefang)	Centro Sur	01° 51' 00" N; 10° 10' 00" E
Alum (Mikomeseng - Nkue)	Wele Nzas	01° 39' 00" N; 11° 04' 00" E
Alum-Mbubuin	Litoral	
Aman	Litoral	01° 44' 33" N; 09° 46' 34" E
Anang (Nkolentangan)	Wele Nzas	01° 53' 00" N; 10° 45' 00" E
Andoc (Mikomeseng - Ebebiyín)	Kie Ntem	02° 04' 47,0518" N; 10° 53' 17,1938" E
Andom, inselberg (Monumento natural de Piedra Nzas)	Wele Nzas	01° 27' 00" N; 11° 02' 00" E
Andurelang	Kie Ntem	01° 53' 54,8664" N; 11° 09' 26,9416" E
Anguma (Río Campo)	Litoral	
Anguoc	Litoral	01° 40' 00" N; 09° 43' 00" E
Anguok, véase Anguoc	Litoral	
Anisok, véase Añisok	Wele Nzas	
Anisok-Mongola	Centro Sur	01° 46' 00" N; 10° 41' 00" E
Añam	Kie Ntem	02° 08' 5" N; 11° 03' 15" E
Añisok	Wele Nzas	01° 50' 48" N; 10° 44' 48" E
Añisok - Nfaman	Wele Nzas	01° 48' 23" N; 10° 41' 25" E
Añisok, explotación maderera	Centro Sur	01° 48' 00" N; 10° 31' 00" E
Aryama, véase Yama	Centro Sur	
Asesok (Machinda)	Litoral	
Asoc - Mongomo	Wele Nzas	01° 33' 00" N; 11° 18' 00" E
Asoc, inselberg	Wele Nzas	01° 27' 00" N; 11° 20' 00" E
Asok	Wele Nzas	01° 28' 10" N; 11° 18' 32" E

Locality	Province	Coordinates
Asok (P.N. Monte Alén)	Centro Sur	01° 34' 00" N; 10° 21' 00" E
Asok Tsumu	Wele Nzas	
Asok, cerro cúpula véase Asoc, inselberg	Wele Nzas	
Asok, senda hacia el río Laña (P.N. Monte Alén)	Centro Sur	01° 33' 00" N; 10° 25' 00" E
Asok, Tsuma	Wele Nzas	
Asonga (Bata)	Litoral	01° 51' 00" N; 09° 45' 00" E
Asonga (Bata) jardines de Cooperación Española	Litoral	01° 51' 00" N; 09° 45' 00" E
Atok, cabaña del Lago (P.N. Monte Alén)	Centro Sur	01° 34' 00" N; 10° 15' 00" E
Atok, lago (P.N. Monte Alén)	Centro Sur	01° 34' 00" N; 10° 15' 00" E
Avelengong	Litoral	
Ayaguening (Akonangui)	Centro Sur	01° 48' 1" N; 10° 24' 13" E
Ayama, véase Yama	Centro Sur	
Ayameken, 2 km al N	Litoral	02° 10' 00" N; 10° 03' 00" E
Ayamiken	Litoral	02° 03' 34" N; 10° 03' 00" E
Ayamiken (Machinda)	Litoral	
Ayamiken (Reserva de Rio Campo)	Litoral	02° 07' 00" N; 10° 02' 00" E
Ayangtang (P.N. Monte Alén)	Centro Sur	01° 33' 00" N; 10° 25' 00" E
Ayangtang, camino hacia el río Laña (P.N. Monte Alén)	Centro Sur	01° 33' 00" N; 10° 25' 00" E
Ayap	Wele Nzas	01° 40' 59" N; 11° 02' 22" E
Ayap	Kie Ntem	02° 10' 00" N; 11° 10' 00" E
Ayap (Micomeseng - Ebebiyin)	Kie Ntem	02° 08' 00" N; 10° 38' 00" E
Ayé, río	Litoral	01° 21' 00" N; 09° 27' 00" E
Ayee (Sofoge)	Litoral	01° 06' 00" N; 09° 44' 00" E
Ayene	Wele Nzas	01° 52' 43" N; 10° 42' 08" E
Ayene (Añisok-Temelon)	Wele Nzas	01° 54' 00" N; 10° 38' 00" E
Ayene (P.N. Monte Alén)	Centro Sur	01° 41' 35" N; 10° 18' 04" E
Ayene concentrado	Centro Sur	
Baga, praderas	Litoral	01° 19' 00" N; 09° 33' 00" E
Basile - Malamba (Cogo)	Litoral	01° 12' 00" N; 09° 59' 00" E
Basilé (Kogo)	Litoral	01° 11' 01" N; 09° 50' 50" E
Bata	Litoral	01° 51' 00" N; 09° 46' 00" E
Bata - Alepe, estrada km 8	Litoral	01° 51' 00" N; 09° 45' 00" E
Bata - Ayamiken, km 54-55	Litoral	02° 07' 00" N; 10° 01' 00" E
Bata - Bolondo, km 22	Litoral	01° 42' 00" N; 09° 40' 00" E
Bata - Bolondo, km 34	Litoral	01° 32' 16,6066" N; 09° 37' 45,4252" E
Bata - Bome	Litoral	01° 45' 00" N; 09° 45' 00" E
Bata - Cogo, km 67, borde de la carretera	Litoral	01° 15' 00" N; 09° 50' 00" E
Bata - Mbini [Benito]	Litoral	01° 37' 42,2876" N; 09° 37' 45,5234" E
Bata - Mbini, km 17	Litoral	01° 43' 29" N; 09° 46' 03" E
Bata - Mbini, km 62	Litoral	01° 30' 32" N; 09° 43' 11" E
Bata - Niefang, km 32-33	Centro Sur	01° 48' 32,6806" N; 10° 10' 07,5879" E
Bata - Senge, km 27	Litoral	01° 40' 00" N; 09° 48' 00" E
Bata, 10 km al S	Litoral	01° 45' 00" N; 09° 43' 00" E
Bata, aeródromo nuevo	Litoral	01° 54' 00" N; 09° 48' 00" E
Bata, entre el aeropuerto y Río Utonde	Litoral	01° 55' 00" N; 09° 48' 00" E
Bata, km 6 a central eléctrica	Litoral	01° 48' 33,5277" N; 09° 43' 09,3973" E
Bata, km. 26 Bata-Movo	Litoral	
Bata, proximidades de la misión Católica	Litoral	01° 51' 00" N; 09° 45' 00" E
Bata, puerto	Litoral	01° 48' 33,5277" N; 09° 43' 09,3973" E
Bata-Dibolo, km 67-68	Litoral	02° 08' 00" N; 09° 47' 00" E
Bata-Mari, kms 62-63	Litoral	02° 10' 00" N; 09° 50' 00" E
Bata-Micomeseng, km 109-110	Kie Ntem	02° 02' 00" N; 10° 40' 00" E
Bata-Monson-Dibolo, estrada km 57	Litoral	02° 08' 00" N; 09° 47' 00" E
Bata-Monsong (Rio Mbina)-Yengue	Centro Sur	02° 05' 00" N; 09° 55' 00" E

Locality	Province	Coordinates
Bata-Monte Alén: NO local chamado campo	Centro Sur	
Bata-Niefang, km 35	Litoral	01° 51' 00" N; 10° 30' 00" E
Bata-Punta Mbonda	Litoral	02° 05' 00" N; 09° 45' 00" E
Bata-río Utonde	Litoral	01° 55' 06" N; 09° 49' 00" E
Bata-Senge, km 27	Litoral	01° 40' 00" N; 09° 48' 00" E
Beba, (Río Campo), véase Bebai	Litoral	
Bebady	Unknown province	
Bebai (Río Campo)	Litoral	02° 19' 00" N; 09° 48' 00" E
Bebair, véase Bebai	Litoral	
Bebao, véase Bebai	Litoral	
Bebiya, río (Bomudi)	Litoral	01° 52' 00" N; 09° 47' 00" E
Bélinga hills	Centro Sur	
Benito, río, puente en de km 40	Litoral	01° 33' 3" N; 09° 49' 43" E
Benito, véase Mbini	Litoral	
Biadive	Litoral	01° 53' 59,0577" N; 09° 48' 33,1994" E
Biadive, río	Litoral	01° 59' 24,8754" N; 09° 43' 09,6668" E
Biadive, río - Punta Mbonda	Litoral	02° 04' 50,5488" N; 09° 43' 09,8111" E
Bianemajong (Niamayong) (Nkolentangan)	Wele Nzas	01° 53' 00" N; 10° 45' 00" E
Bibogo , explotación forestal (Bata-Senge km 38)	Litoral	
Bicaba (Bata-Mbini, kms 29-30)	Litoral	
Bicaba (P.N. Monte Alén)	Centro Sur	01° 48' 00" N; 10° 16' 00" E
Bicomo	Litoral	01° 47' 00" N; 09° 52' 00" E
Bicubini, véase Bikukbinii	Litoral	
Bicuk-Bini, véase Bikukbinii	Litoral	
Bicurga (Evinayong)	Centro Sur	01° 35' 00" N; 10° 28' 00" E
Bicurga, inselberg (P.N. Monte Alén)	Centro Sur	01° 35' 00" N; 10° 28' 00" E
Biguru y Sendje I (Mbini)	Litoral	
Bikaba, véase Bicaba	Centro Sur	
Bikukbinii	Litoral	01° 38' 00" N; 09° 41' 00" E
Bikurga, inselberg, véase Bicurga, inselberg	Centro Sur	
Bikurga, véase Bicurga	Centro Sur	
Bilen (Mbini)	Litoral	01° 30' 00" N; 09° 36' 00" E
Bilen, Bitica y Mboete (Mbini)	Litoral	
Bimbiles, Los	Wele Nzas	
Bimvile	Wele Nzas	01° 52' 00" N; 10° 34' 00" E
Bimvile, río	Wele Nzas	01° 48' 31,7128" N; 10° 31' 41,9573" E
Bimvile, río (Mikomeseng-Benito)	Wele Nzas	01° 51' 00" N; 10° 46' 00" E
Bindem (Niefang), véase Bindeng (Niefang)	Centro Sur	
Bindeng (Niefang)	Centro Sur	01° 57' 00" N; 10° 23' 00" E
Bindung, km 17 de la carretera de Niefang	Centro Sur	01° 52' 00" N; 10° 53' 00" E
Binguro, km. 54 de la carretera de Bata a Kogo	Litoral	01° 30' 00" N; 09° 48' 00" E
Bisa, explotación forestal (Bata-Monson, km 41-42)	Litoral	02° 08' 00" N; 09° 47' 00" E
Bison a Acurenam	Centro Sur	01° 59' 24,5559" N; 09° 53' 57,0352" E
Bisum	Litoral	01° 30' 00" N; 09° 51' 00" E
Bisum (P.N. Monte Alén)	Centro Sur	01° 43' 00" N; 10° 18' 00" E
Bisum, finca Bernal	Litoral	01° 26' 50,7188" N; 09° 48' 32,5320" E
Bisun , véase Bisum	Centro Sur	
Bisun, véase Bisum	Litoral	
Bitica	Litoral	
Biweme (Bata-Pembe kms. 22)	Litoral	
Biyobo de Niefang, rápidos de Asia	Centro Sur	01° 45' 00" N; 10° 11' 00" E
Boara, río (Bata-Bome)	Litoral	01° 50' 00" N; 09° 45' 00" E

Locality	Province	Coordinates
Bolondo	Litoral	01° 37' 00" N; 09° 37' 00" E
Bolondo al Río Ecuco	Litoral	01° 37' 42,2876" N; 09° 37' 45,5234" E
Bolondo, aeródromo antiguo	Litoral	01° 32' 16,6066" N; 09° 37' 45,4252" E
Bome	Litoral	01° 51' 00" N; 09° 45' 00" E
Bome, instalaciones de la Empresa Hess	Litoral	01° 47' 03" N; 09° 43' 58" E
Bomo, río (P.N. Monte Alén)	Centro Sur	
Bompata	Unknown province	
Bomudi (Bata)	Litoral	01° 52' 00" N; 09° 47' 00" E
Bonbon	Litoral	01° 15' 00" N; 09° 47' 00" E
Bong (P.N. Monte Alén)	Centro Sur	01° 39' 18" N; 10° 16' 41" E
Bong, río (P.N. Monte Alén)	Centro-Sur	01° 39' 18" N; 10° 16' 41" E
Bong, senda hacia el lago Atok (P.N. Monte Alén)	Centro Sur	01° 39' 18" N; 10° 16' 41" E
Bongoro (Río Campo)	Litoral	02° 08' 00" N; 09° 54' 00" E
Bonobono	Litoral	01° 14' 00" N; 09° 37' 00" E
Boriyonica	Unknown province	
Borne	Litoral	01° 49' 00" N; 09° 43' 00" E
Caifer, proximidades de la acequia	Centro Sur	01° 57' 00" N; 10° 22' 00" E
Campo	Litoral	01° 13' 00" N; 09° 48' 00" E
Campo - Cogo	Litoral	01° 05' 00" N; 09° 42' 00" E
Campo, desembocadura del río	Litoral	02° 19' 00" N; 09° 48' 00" E
Catió, Cacine, Cucuma	Unknown province	
Chime, monte	Centro-Sur	01° 27' 00" N; 10° 34' 00" E
Churu	Centro-Sur	01° 22' 00" N; 10° 10' 00" E
Cocoloondo, río	Litoral	02° 14' 00" N; 09° 48' 00" E
Cogo	Litoral	01° 05' 00" N; 09° 42' 00" E
Cogo, cerca de la frontera con Gabón	Litoral	00° 59' 42,5152" N; 09° 37' 44,9539" E
Comaya (Bata-Niefang, km 35)	Litoral	01° 51' 00" N; 10° 03' 00" E
Comayá, río (Bata-Niefang, km 35)	Litoral	01° 51' 51" N; 09° 59' 52" E
Conengüi, cerca del río Nvog Yii (P.N. Monte Alén)	Centro Sur	01° 46' 55" N; 10° 16' 33" E
Congüe, río, véase Kongui, río	Litoral	
Conisio (Kogo)	Litoral	
Corisco	Litoral	00° 55' 00" N; 09° 20' 00" E
Corisco, alrededores de la casa	Litoral	00° 54,7748' 00" N; 09° 18,357' 00" E
Corisco, barra de arena de Hoco	Litoral	00° 54,7748' 00" N; 09° 18,357' 00" E
Corisco, Endote	Litoral	00° 54,7748' 00" N; 09° 18,357' 00" E
Corisco, isla de	Litoral	00° 54' 16,9939" N; 09° 16' 10,6853" E
Corisco, playa al SW de la isla	Litoral	00° 54,7748' 00" N; 09° 18,357' 00" E
Corisco, playa de Yniestrosa	Litoral	00° 54,7748' 00" N; 09° 18,357' 00" E
Corisco, praderas de Endote	Litoral	00° 54,7748' 00" N; 09° 18,357' 00" E
Corisco, praderas sobre arenas	Litoral	00° 54,7748' 00" N; 09° 18,357' 00" E
Corisco, pueblo de Corisco	Litoral	00° 54,7748' 00" N; 09° 18,357' 00" E
Corisco, senda	Litoral	00° 54,7748' 00" N; 09° 18,357' 00" E
Cucumancoc	Wele Nzas	01° 18' 00" N; 10° 50' 00" E
Cucumancoc, cerro cúpula	Wele Nzas	01° 15' 57,5805" N; 10° 47' 50,9597" E
Cucumanoc véase Cucumancoc	Wele Nzas	
Demán	Wele Nzas	
Diádive, río - Punta Mbonda	Litoral	02° 04' 00" N; 09° 46' 00" E
Dibolo	Litoral	02° 08' 00" N; 09° 48' 00" E
Dipika	Litoral	02° 15' 41,7228" N; 09° 48' 33,8635" E
Djimbamarac, inselberg (Mfuin)	Kie Ntem	01° 52' 00" N; 10° 56' 00" E

Locality	Province	Coordinates
Dumu (Mongomo)	Wele Nzas	01° 22' 00" N; 11° 18' 00" E
Dumu, inselberg	Wele Nzas	01° 22' 00" N; 11° 19' 00" E
Ebalowa	Centro-Sur	01° 29' 00" N; 10° 30' 00" E
Ebebingui	Wele Nzas	
Ebebiyín	Kie Ntem	02° 09' 00" N; 11° 20' 00" E
Ebebiyín - Mikomeseng	Kie Ntem	02° 04' 47,0518" N; 10° 53' 17,1938" E
Ebeevang (Bata-Utonde)	Litoral	
Ebenvang (Bata-Pembe)	Litoral	
Ebenvene (Machinda)	Litoral	
Ebian (Aconibe - Acurenám)	Centro Sur	01° 11' 00" N; 10° 47' 00" E
Eboga, explotación forestal (Bata-Senye, km 27)	Litoral	01° 39' 00" N; 09° 49' 00" E
Ebolowa, (Bicurga - Evinayong)	Centro Sur	01° 28' 00" N; 10° 30' 00" E
Ebometom, véase Ebumetom	Litoral	
Ebongo	Litoral	02° 07' 00" N; 09° 48' 00" E
Ebo-Ngoo Nsomo	Centro Sur	01° 48' 00" N; 10° 31' 00" E
Ebon-Oyac (Ebebiyín)	Kie Ntem	02° 05' 00" N; 11° 10' 00" E
Ebumetom (Bata-Senye km 26)	Litoral	01° 39' 00" N; 09° 49' 00" E
Ecobenam (quinta agrícola del Padre Anselmo) (Bata)	Litoral	
Ecofac, estación (P.N. Monte Alén)	Centro-Sur	01° 39' 00" N; 10° 18' 00" E
Ecucu, río, véase Ecucu, río	Litoral	
Ecucu, véase Ecucu	Litoral	
Ecucu	Litoral	01° 56' 00" N; 09° 49' 00" E
Ecucu, desembocadura del río (Bata)	Litoral	01° 49' 00" N; 09° 45' 00" E
Ecucu, río (S de Bata)	Litoral	01° 53' 00" N; 09° 43' 00" E
Edum (Niefang)	Centro Sur	01° 51' 00" N; 10° 11' 00" E
Efulan Evusok (Temelon)	Wele Nzas	01° 55' 00" N; 10° 37' 00" E
Ekuka, río, véase Ecucu	Litoral	
Ekuka, véase Ecucu	Litoral	
Ekuku, río, véase Ecucu	Litoral	
Elende	Litoral	02° 13' 00" N; 09° 48' 00" E
Elende, Cocooloondo	Litoral	02° 14' 00" N; 09° 48' 00" E
Elende, río Cocooloondo	Litoral	02° 14' 00" N; 09° 48' 00" E
Eloan (Ebebiyín - Mongomo)	Kie Ntem	02° 04' 00" N; 11° 19' 00" E
Elobey Chico	Litoral	01° 0' 00" N; 09° 31' 00" E
Elobey Grande	Litoral	00° 59' 00" N; 09° 30' 00" E
Elomlom y Sendje II (Mbini)	Litoral	
Elong-Long	Litoral	01° 29' 00" N; 09° 42' 00" E
Emangós	Litoral	01° 23' 00" N; 09° 48' 00" E
Eman-Nges, véase Emangós	Litoral	
Eman-ngos, véase Emangós	Litoral	
Encumekie, véase Nkumékié	Centro Sur	
Encumekien, véase Nkumékié	Centro Sur	
Encumenkien, véase Nkumékié	Centro Sur	
Engokua (Ebebiyín)	Kie Ntem	02° 08' 00" N; 11° 14' 00" E
Engong (P.N. Monte Alén)	Centro Sur	01° 34' 51" N; 10° 15' 15" E
Engong (Reserva de Ndote)	Litoral	01° 22' 00" N; 09° 36' 00" E
Engong, camino al inselberg	Centro Sur	01° 34' 00" N; 10° 19' 00" E
Engong, inselberg (P.N. Monte Alén)	Centro Sur	01° 37' 00" N; 10° 18' 00" E
Enigayong	Litoral	01° 45' 00" N; 09° 47' 00" E
Enkumekie, carretera de Monte Alén a Evinayong	Centro Sur	01° 34' 00" N; 10° 22' 00" E
Enkumekiem (P.N. Monte Alén), véase Nkumékié	Centro Sur	
Enkumekien concentrado (P.N. Monte Alén)	Centro Sur	01° 32' 00" N; 10° 22' 00" E
Enkumekien, véase Nkumékié	Centro Sur	
Entuba	Litoral	
Entura (Bata-Pembe kms. 26-27)	Litoral	
Eñeng (Evinayong)	Centro Sur	01° 28' 00" N; 10° 29' 00" E
Epamedulu (Nkolentangan)	Wele Nzas	01° 53' 00" N; 10° 45' 00" E
Equan-Ngy (Cogo)	Litoral	

Locality	Province	Coordinates
Esadugma (Bata - Rio Campo kms 42-43)	Litoral	
Esamalan, véase Esamalang	Centro Sur	
Esamalang (P.N. Monte Alén)	Centro Sur	01° 33' 24" N; 10° 12' 19" E
Esamangón	Litoral	
Esantua	Litoral	01° 59' 24,1654" N; 10° 04' 44,3716" E
Esmalan, véase Esamalang	Centro Sur	
Espigón (Reserva de Ndote)	Litoral	01° 20' 00" N; 09° 27' 00" E
Essamba	Litoral	02° 15' 00" N; 09° 48' 00" E
Essatuk (Campo)	Litoral	02° 19' 00" N; 09° 48' 00" E
Etembue - Socogui, camino de	Litoral	01° 10' 34,0529" N; 09° 21' 34,3540" E
Etembue (Reserva de Ndote)	Litoral	01° 15' 59,7483" N; 09° 21' 34,3973" E
Etembué véase Etembue	Litoral	
Etembue, Cabo San Juan	Litoral	01° 10' 34,0529" N; 09° 21' 34,3540" E
Eukumenkien, véase Nkumékié	Centro Sur	
Eviam	Centro-Sur	01° 11' 00" N; 10° 47' 00" E
Eviam - Aconibe	Wele Nzas	01° 12' 00" N; 10° 49' 00" E
Eviam (Aconibe-Acurenam)	Centro-Sur	01° 11' 00" N; 10° 47' 00" E
Evinayong	Centro Sur	01° 28' 06" N; 10° 16' 06" E
Evinayong - Acurenam	Centro Sur	01° 10' 32,6217" N; 10° 31' 40,3840" E
Evinayong - Niefang, km 32-33	Centro Sur	01° 32' 15,9552" N; 10° 04' 43,4336" E
Evinayong - Nsoc, camino de	Centro Sur	01° 08' 00" N; 11° 16' 00" E
Evinayong, camino hacia río Mbini (río Benito)	Centro Sur	01° 21' 23,7920" N; 10° 31' 40,7654" E
Evinayong, cascada	Centro Sur	01° 26' 49,3767" N; 10° 31' 40,9765" E
Evinayong, Granja Agrícola	Centro Sur	01° 26' 49,3767" N; 10° 31' 40,9765" E
Evinayong, km 5 de la carretera de Kogo	Centro Sur	01° 46' 00" N; 09° 47' 00" E
Evinayong, Servicio Agronómico	Centro Sur	01° 26' 49,3767" N; 10° 31' 40,9765" E
Exfosa, explotación	Litoral	01° 39' 00" N; 09° 49' 00" E
Eyamayon	Centro Sur	01° 13' 00" N; 10° 34' 00" E
Eyan Bot	Litoral	01° 47' 00" N; 09° 47' 00" E
Eyan, Asoc	Wele Nzas	
Eyang - Mbaha (Bata-Pembe, km 33-34)	Litoral	01° 57' 00" N; 09° 50' 00" E
Handje	Litoral	01° 25' 00" N; 09° 31' 00" E
Handje, Engong	Centro Sur	
Heslentangan	Wele Nzas	
Idolo	Litoral	01° 08' 00" N; 09° 38' 00" E
Idolo, río	Litoral	01° 05' 08,1976" N; 09° 37' 45,0184" E
Jama, véase Yama	Wele Nzas	
Jandje - Engong	Litoral	01° 25' 00" N; 09° 31' 00" E
Jandje (Ndote Norte)	Litoral	01° 27' 00" N; 09° 32' 00" E
Jandje, apiladero (Reserva de Ndote)	Litoral	
Jandye (Ndote Norte) véase Jandje (Ndote Norte)	Litoral	
Jaudjè	Litoral	
King (Mbini)	Litoral	01° 33' 00" N; 09° 37' 00" E
Kogo, véase Cogo	Litoral	
Kongui, río	Litoral	01° 12' 00" N; 09° 44' 00" E
Konqui, río, véase Kongui, río	Litoral	
Kougué, río, véase Kongui, río	Litoral	
Kukumangkok, véase Cucumancoc	Wele Nzas	

Locality	Province	Coordinates
Kukumankok, véase Cucumancoc	Wele-Nzas	
Kundum, monte (P.N. Monte Alén)	Centro Sur	01° 35' 00" N; 10° 04' 00" E
Laca	Litoral	01° 05' 00" N; 09° 42' 00" E
Lago, cabaña del (P.N. Monte Alén)	Centro Sur	01° 34' 00" N; 10° 15' 00" E
Laña, cascada del río (Evinayong)	Centro Sur	01° 29' 00" N; 10° 30' 00" E
Laña, senda que va hacia el río (P.N. Monte Alén)	Centro Sur	01° 34' 00" N; 10° 21' 00" E
Lobo, río, Engong (P.N. Monte Alén)	Centro Sur	01° 46' 00" N; 10° 16' 00" E
Lovayat, camino hacia (P.N. Monte Alén)	Centro Sur	
Maane (Nkolentangan)	Wele Nzas	01° 53' 00" N; 10° 45' 00" E
Mabungo (Nkolentangan)	Wele Nzas	01° 53' 00" N; 10° 45' 00" E
Macomo	Litoral	01° 46' 00" N; 09° 44' 00" E
Macomo (Bata-Bolondo, km 15)	Litoral	01° 44' 00" N; 09° 46' 00" E
Madjani, véase Mandjani	Litoral	
Mafanebú	Centro-Sur	01° 10' 00" N; 11° 00' 00" E
Makak (Macac) (Nkolentangan)	Wele Nzas	01° 53' 00" N; 10° 45' 00" E
Makonanam (Nkolentangan)	Wele Nzas	01° 53' 00" N; 10° 45' 00" E
Mallico Bahunguy	Wele Nzas	01° 50' 00" N; 10° 50' 00" E
Manchani, río (Ichime)	Litoral	01° 05' 08,1250" N; 09° 43' 08,5765" E
Mandjani	Litoral	01° 02' 00" N; 09° 03' 00" E
Mangala(Mbini)	Litoral	01° 31' 00" N; 09° 41' 00" E
Mangola (Mbini)	Litoral	01° 30' 00" N; 09° 36' 00" E
Masaha (Nsork)	Wele Nzas	
Masamabe	Litoral	01° 08' 00" N; 09° 42' 00" E
Matroguisa, instalaciones (Niefang, Bindeng)	Centro Sur	01° 57' 00" N; 10° 23' 00" E
Mayang, estuario del río Rio Muni	Litoral	
Mayang, ribera del Mitong	Litoral	
Mbaha (Bata-Pembe kms 28-29)	Litoral	
Mbambala, río	Litoral	01° 17' 00" N; 09° 53' 00" E
Mbeayop (Acurenam)	Centro Sur	01° 03' 00" N; 10° 37' 00" E
Mbia, río (Bata-Pembe kms 31-32)	Litoral	
Mbiet (Añisok)	Wele Nzas	01° 52' 00" N; 10° 45' 00" E
Mbini (Benito), servicio forestal	Litoral	01° 32' 16,6957" N; 09° 32' 21,8035" E
Mbini (Bisum - Monte Mitra) (P.N. Monte Alén)	Litoral	01° 28' 22" N; 09° 51' 24" E
Mbini [Benito]	Litoral	01° 32' 16,6957" N; 09° 32' 21,8035" E
Mbini [Benito] - Etembue	Litoral	01° 21' 25,3889" N; 09° 26' 58,0487" E
Mbini, desembocadura Alen, (Río Benito)	Litoral	01° 10' 33,7121" N; 09° 48' 32,2182" E
Mbini, puente Mbini-Bolondo	Litoral	01° 35' 02" N; 09° 37' 23" E
Mbini, río [río Benito]	Litoral	01° 32' 16,6957" N; 09° 32' 21,8035" E
Mbini, río [río Benito], playa	Litoral	01° 32' 16,6957" N; 09° 32' 21,8035" E
Mbini-Bata, a 22 km. de Mbini	Litoral	01° 29' 11" N; 09° 43' 21" E
Mboete (Bata-Niefang, km 35)	Litoral	01° 51' 51" N; 09° 59' 52" E
Mbok-Biwogo (Piedra Nzas-Acoaseng)	Wele Nzas	01° 25' 00" N; 11° 02' 00" E
Mbong-Biwogo, véase Mbok-Biwogo	Wele Nzas	
Mbubuin (Bata-Mbubuin km 30)	Litoral	02° 00' 00" N; 09° 54' 00" E
Mbubuiñ cdo (Machinda)	Litoral	
Mbut, km 30 de la carretera de Enkue	Wele Nzas	01° 31' 00" N; 10° 29' 00" E
Mebama (distrito de Nserk)	Wele Nzas	
Meboman	Litoral	01° 44' 00" N; 09° 53' 00" E
Mechenque, Río Benito	Litoral	
Mechienque, pradera Eyom	Litoral	
Mecomo	Litoral	
Menang	Kie Ntem	02° 09' 00" N; 11° 17' 00" E

Locality	Province	Coordinates
Menaya, río	Unknown province	
Mepemba	Litoral	01° 32' 00" N; 09° 36' 00" E
Mete, río (Macambrara)	Wele Nzas	01° 21' 22,0568" N; 11° 09' 24,8658" E
Mfeck-Ayong	Kie Ntem	
Mfui, inselberg	Kie Ntem	01° 52' 00" N; 10° 59' 00" E
Mfuin, inselberg véase Mfui, inselberg	Kie Ntem	
Miboman (Bata-Movo km 27)	Litoral	01° 44' 00" N; 09° 53' 00" E
Micomeaong	Wele Nzas	
Midjomitom (Bata-MICOMESENG)	Litoral	
Midtome (Bata-Senge-Mitom-Emangos, kms 62-63)	Litoral	01° 29' 00" N; 09° 46' 00" E
Midyobo, rápidos del Río Uoro (P.N. Monte Alén)	Centro Sur	01° 44' 09" N; 10° 10' 21" E
Mikan (Machinda)	Litoral	01° 53' 00" N; 09° 57' 00" E
Mikomeseng	Kie Ntem	02° 08' 09" N; 10° 36' 47" E
Mikomeseng - Ebebiyìn	Kie Ntem	02° 04' 47,0518" N; 10° 53' 17,1938" E
Mikomeseng, km 170	Kie Ntem	02° 04' 48,4614" N; 10° 31' 42,8363" E
Minang, a 21 km. de Kogo	Litoral	01° 09' 00" N; 09° 49' 00" E
Minkan (Bata-Niefang, km 32)	Litoral	01° 51' 51" N; 09° 59' 52" E
Mirador (P.N. Monte Alén)	Centro Sur	01° 40' 00" N; 10° 17' 00" E
Misergue (P.N. Monte Alén)	Centro Sur	01° 25' 00" N; 10° 13' 00" E
Misergue, cabaña (P.N. Monte Alén)	Centro Sur	01° 25' 00" N; 10° 13' 00" E
Misergue-Churu (P.N. Monte Alén)	Centro Sur	01° 24' 00" N; 10° 16' 00" E
Misobong	Litoral	01° 28' 00" N; 09° 48' 00" E
Mitemele	Centro Sur	01° 20' 00" N; 10° 35' 00" E
Mitom (Mbini)	Litoral	01° 32' 00" N; 09° 49' 00" E
Mitong	Wele Nzas	01° 03' 58" N; 10° 59' 53" E
Mitong	Litoral	
Mitong, río	Wele Nzas	01° 04' 00" N; 09° 49' 00" E
Mitora (Mbini)	Litoral	
Miwala, a 5 km de Kogo	Litoral	01° 05' 00" N; 09° 42' 00" E
Miyobo (P.N. Monte Alén)	Centro Sur	01° 45' 00" N; 10° 11' 00" E
Miyoman	Litoral	01° 53' 00" N; 09° 58' 00" E
Moca (P.N. Monte Alén) véase Moka (P.N. Monte Alén)	Centro Sur	
Mofú, cerca de Oven	Wele Nzas	01° 04' 00" N; 10° 48' 00" E
Moka (P.N. Monte Alén)	Centro Sur	01° 40' 00" N; 10° 18' 00" E
Mokomo	Litoral	01° 09' 00" N; 09° 49' 00" E
Moku (Ayamiken)	Litoral	
Monduá	Centro Sur	01° 45' 00" N; 10° 16' 00" E
Mondung (P.N. Monte Alén)	Centro Sur	
Mongo	Centro-Sur	01° 52' 00" N; 10° 11' 00" E
Mongo-Esamongom (Niefang)	Centro Sur	
Mongola	Wele-Nzas	01° 46' 00" N; 10° 41' 00" E
Mongola, Anisok	Wele Nzas	01° 46' 00" N; 10° 41' 00" E
Mongomo	Wele Nzas	01° 37' 38,1076" N; 11° 14' 49,2290" E
Mongon, inselberg (Cucumancoc), véase Mongum, inselberg (Cucumancoc)	Wele Nzas	
Mongum, cerro de (Cucamancoc)	Wele Nzas	01° 15' 57,5805" N; 10° 47' 50,9597" E
Mongum, inselberg (Cucumancoc)	Wele Nzas	01° 19' 00" N; 10° 49' 00" E
Mon song (Reserva de Río Campo)	Litoral	
Monte Alén (P.N. Monte Alén)	Centro Sur	01° 39' 00" N; 10° 28' 00" E
Monte Alén, inselberg (P.N. Monte Alén)	Centro Sur	01° 40' 00" N; 10° 17' 00" E
Monte Alén-Moca (P.N. Monte Alén)	Centro Sur	01° 39' 52" N; 10° 17' 32" E
Monte Bata	Litoral	01° 53' 10.05" N; 09° 54' 37.55" E

Locality	Province	Coordinates
Monte Chime (Evinayong)	Centro Sur	01° 26' 49,3767" N; 10° 31' 40,9765" E
Monte Chocolate (P.N. Monte Alén)	Centro Sur	01° 46' 00" N; 10° 17' 00" E
Monte Mitra (P.N. Monte Alén)	Litoral	01° 23' 13" N; 09° 57' 31" E
Monte Mitra, camino hacia el	Litoral	01° 21' 24,9352" N; 09° 53' 55,9970" E
Monumento natural de Piedra Nzas	Wele Nzas	01° 27' 00" N; 11° 02' 00" E
Mosong	Litoral	
Mosumo - Monte Boracho (P.N. Monte Alén)	Centro Sur	
Mosumo (P.N. Monte Alén)	Centro Sur	01° 43' 00" N; 10° 04' 39" E
Mosumo, cabaña ECOFAC (P.N. Monte Alén)	Centro Sur	
Mosumo, camino de las cataratas	Centro Sur	01° 43' 37" N; 10° 04' 39" E
Mosumo, cataratas del Laña	Centro Sur	01° 43' 37" N; 10° 04' 39" E
Mosumo, confluencia del río Laña con el río Mbini [Uoro] (P.N. Monte Alén)	Centro Sur	01° 36' 00" N; 10° 02' 00" E
Mosumo, desde la cabaña de las cataratas hasta las cataratas del Laña	Centro Sur	01° 43' 37" N; 10° 04' 39" E
Mosumu, véase Mosumo	Centro-Sur	
Mount John, río Kongui	Litoral	01° 12' 00" N; 09° 44' 00" E
Mount John, río Konqui, véase Mount John, río Kongui	Litoral	
Movo (Bata-Bome)	Litoral	
Movó, a 10 km. de Bata	Litoral	
Mufu, cerca de Oveu (Acurenam)	Centro Sur	
Mundung «les 4 Montagnes»	Centro Sur	01° 36' 31.63" N; 10° 13' 50.42" E
Mungum, inselberg	Wele Nzas	01° 19' 00" N; 10° 49' 00" E
Mungum, inselberg véase Mongum, inselberg	Wele Nzas	
Muni, río	Litoral	01° 59' 24,3695" N; 09° 59' 20,7078" E
Nasam (Bata-Pembe)	Litoral	
Nasanga	Litoral	01° 58' 53" N; 09° 51' 13" E
Nasanga - Niñeng (Bata-Punta Mbonda, km 21-22)	Litoral	
Ncaho (Cogo)	Litoral	
NCamam	Centro-Sur	01° 24' 00" N; 10° 21' 00" E
Ncó	Litoral	01° 32' 00" N; 09° 54' 00" E
Ncoho	Litoral	
Ncoho Biworo, inselberg (Monumento natural de Piedra Nzas)	Wele Nzas	01° 27' 00" N; 11° 02' 00" E
Ncoho Yenguem, km 38 de la carretera de Nkue	Wele Nzas	01° 51' 00" N; 10° 40' 00" E
Ncoho, estuario del río Río Muni	Litoral	01° 14' 00" N; 09° 54' 00" E
Ncó-Misobong, gran cascada	Litoral	01° 32' 00" N; 09° 54' 00" E
Ncon-Nbia (Paka) (Machinda)	Litoral	
Ncuesis (Mbini)	Litoral	
Ncum Esong Oyen	Centro Sur	01° 36' 00" N; 10° 19' 00" E
Ncumekie (P.N. Monte Alén) véase Enkumekie	Centro Sur	
Ncumekie, transecto (P.N. Monte Alén)	Centro Sur	01° 29' 00" N; 10° 18' 00" E
Ndjakom, véase Adjiaikom	Litoral	
Ndjilsdam (Acurenam)	Centro Sur	
Ndong (Niefang - Evinayong, km 15)	Centro Sur	
Ndote	Litoral	01° 28' 00" N; 09° 33' 00" E
Ndote Norte	Litoral	01° 27' 00" N; 09° 32' 00" E
Ndote Sur, Espigon	Litoral	01° 28' 00" N; 09° 34' 00" E
Ndote, carretera forestal	Litoral	01° 28' 00" N; 09° 33' 00" E
Ndote, río	Litoral	01° 26' 51,0092" N; 09° 32' 21,7241" E
Ndubu, camino hacia Engong (P.N. Monte Alén)	Centro Sur	01° 37' 04" N; 10° 19' 16" E
Nejiacom (Río Campo)	Litoral	02° 20' 00" N; 09° 48' 22" E
Nfamam (P.N. Monte Alén)	Centro Sur	01° 33' 00" N; 10° 21' 00" E
Nfaman - Djiploho	Kie Ntem	01° 40' 04" N; 10° 35' 02" E
Nfaman Summit, Bosque Nacional	Centro Sur	01° 22' 35" N; 10° 21' 8" E

Locality	Province	Coordinates
Nfek-ayong (Micomiseng)	Kie Ntem	
Nfing Ntagan, alrededores de Mosumu	Centro Sur	
Nfuiñ (Ngomgom)	Kie Ntem	01° 52' 02" N; 10° 58' 59" E
Ngabe (Bata-Mbini, km 35)	Litoral	01° 35' 33" N; 09° 49' 13" E
Ngoló (Bata)	Litoral	01° 51' 00" N; 09° 45' 00" E
Ngoma, 10 km SE de Etembue	Litoral	01° 14' 00" N; 09° 29' 00" E
Ngomgom	Kie Ntem	01° 52' 19" N; 10° 58' 40" E
Ngon	Centro Sur	01° 10' 00" N; 10° 50' 00" E
Ngong Mocomo	Wele Nzas	01° 04' 00" N; 11° 12' 00" E
Ngong, véase Engong	Centro Sur	
Nhog Ebaiñ (Bata-Niefang) véase Nhogo Ebaiñ	Centro Sur	
Nhogo Ebaiñ (Bata - Niefang)	Centro Sur	01° 31' 00" N; 10° 35' 00" E
Niamayong	Centro Sur	01° 13' 00" N; 10° 34' 00" E
Niamayong (Nkolentangan)	Wele Nzas	01° 53' 00" N; 10° 45' 00" E
Niefang	Centro Sur	01° 50' 00" N; 10° 14' 00" E
Niefang - Evinayong	Centro Sur	01° 40' 00" N; 10° 18' 00" E
Niefang - Monte Alén, km 77-78 (P.N. Monte Alén)	Centro Sur	01° 39' 00" N; 10° 18' 00" E
Niefang, 11 km al S (P.N. Monte Alén)	Centro Sur	01° 45' 00" N; 10° 17' 00" E
Niefang, orillas del río Woro	Centro Sur	01° 57' 00" N; 10° 23' 00" E
Niefang: Borde pista forestal y selva.	Centro Sur	01° 57' 00" N; 10° 23' 00" E
Niefang-Mosumu, senda hacia el río Laña	Centro Sur	01° 45' 00" N; 10° 11' 00" E
Niuma (Río Campo)	Litoral	02° 13' 00" N; 09° 48' 00" E
Njacom (Machinda)	Litoral	
Njakem (Bata)	Litoral	01° 42' 00" N; 09° 40' 00" E
Nkan (Essanong) (Ncan) (Nkolentangan)	Wele Nzas	01° 53' 00" N; 10° 45' 00" E
Nkinfala	Litoral	01° 46' 00" N; 09° 47' 00" E
Nkoekie (Bata-Senye km 20-21)	Litoral	01° 42' 00" N; 09° 46' 00" E
Nkolangan, véase Nkolentangan	Wele Nzas	
Nkolemtangan, véase Nkolentangan	Wele Nzas	
Nkolen Tangán, véase Nkolentangan	Wele Nzas	
Nkolendangan, véase Nkolentangan	Wele Nzas	
Nkolendanyan, véase Nkolentangan	Wele Nzas	
Nkolendungan, véase Nkolentangan	Wele Nzas	
Nkolentangan	Wele Nzas	01° 53' 00" N; 10° 45' 00" E
Nkoletangan, véase Nkolentangan	Wele Nzas	
Nkolombob (Bata-Bicomo)	Litoral	
Nkotentangan, véase Nkolentangan	Wele Nzas	
Nkumékié (P.N. Monte Alén)	Centro Sur	01° 32' 00" N; 10° 22' 00" E
Nkumekien (Niefang), véase Nkumékié	Centro Sur	
Nkumekien, véase Nkumékié	Centro Sur	
Nkumekien, véase Nkumékié	Centro-Sur	
Nnvam Oveng (Añisok)	Wele Nzas	01° 49' 00" N; 10° 42' 00" E
Nochadum	Wele Nzas	
Npolang (Nkolentangan)	Wele Nzas	01° 53' 00" N; 10° 45' 00" E
Nschabot (Nkolentangan)	Wele Nzas	01° 53' 00" N; 10° 45' 00" E
Nsoc	Wele Nzas	01° 05' 05,4114" N; 11° 14' 47,4276" E
Nsoc Nsomo	Kie Ntem	01° 52' 39" N; 11° 02' 48" E
Nsog-Bo (Bata-Bolondo km 18)	Litoral	
Nsok Esumn, véase Nsok Esumm	Wele Nzas	
Nsok Esumu, véase Nsok Esumm	Wele Nzas	
Nsok Esumm	Wele Nzas	
Nsok Nsomo	Kie Ntem	01° 53' 00" N; 11° 02' 27" E
Nsok Tsumu (Nsok-Nsomo)	Kie Ntem	01° 52' 00" N; 11° 04' 00" E
Nsok, véase Nsoc	Wele Nzas	
Nsork	Wele Nzas	01° 07' 00" N; 11° 15' 00" E
Nsork	Centro Sur	
Nsuameyang, véase Nzuamayong	Wele Nzas	
Nsuameyong (Anisok), véase Nzuamayong (Añisoc)	Wele Nzas	

Locality	Province	Coordinates
Nsuameyong, véase Nzuamayong	Wele Nzas	
Nsuegue Mang (Bata-Mbubuin)	Litoral	
Nsue-Mang (Bata-Machinda-Ncomococ)	Litoral	
Nsum Esangüi	Wele Nzas	01° 31' 00" N; 10° 29' 00" E
Nsung Fandong	Wele Nzas	01° 47' 00" N; 10° 54' 00" E
Nsung, Monte Alén - Evinayong (P.N. Monte Alén)	Centro Sur	01° 31' 00" N; 10° 39' 00" E
Ntem, río (Yengüe)	Litoral	
Ntuva (Bata-Pembe, kms 29-30)	Litoral	
Nume (Bata-Mbini, litoral marítimo)	Litoral	
Numi, playoa del río Benito	Litoral	
Nun River	Litoral	00° 54' 16,5422" N; 09° 59' 19,0149" E
Nvua Nnvam Oveng (Añisok)	Wele Nzas	01° 49' 00" N; 10° 42' 00" E
Nzuamayong (Añisok)	Wele Nzas	01° 50' 00" N; 10° 55' 00" E
Nzuameyong (Añisok), véase Nzuamayong (Añisok)	Wele Nzas	
Obamico (P.N. de Nsork)	Wele Nzas	01° 14' 00" N; 11° 02' 00" E
Obamicu, véase Obamico (P.N. de Nsork)	Wele Nzas	
Obobiven (Bata)	Litoral	
Oborobikó véase Okorobiko	Litoral	
Oborobikó (Reserva de Chimpances) véase Okorobiko	Litoral	
Oborobiko véase Okorobiko	Litoral	
Obot Nku-Eseng (Nsok Nsomo)	Kie Ntem	01° 55' 15" N; 11° 04' 48" E
Ocuam (P.N. Monte Alén).	Centro Sur	01° 00' 00" N; 10° 00' 00" E
Ocuamcos, véase Okuamkos	Litoral	
Ojap	Centro Sur	
Okamebekoro	Unknown province	
Oko (Campo)	Litoral	02° 19' 00" N; 09° 48' 00" E
Okorobiko	Litoral	01° 35' 00" N; 09° 55' 00" E
Okorobikó, véase Okorobiko	Litoral	
Okoumé, Alen (Mbini) (P.N. Monte Alén)	Litoral	01° 34' 00" N; 10° 19' 00" E
Okuamkos (Montes de Cristal)	Litoral	01° 07' 00" N; 10° 08' 00" E
Okuamkos, 10 km ENE (Montes de Cristal)	Litoral	01° 09' 00" N; 10° 13' 00" E
Okuamkos, 15 km ENE (Montes de Cristal)	Litoral	01° 10' 00" N; 10° 16' 00" E
Okuamkos, 7 km ENE (Montes de Cristal)	Litoral	01° 06' 00" N; 10° 11' 00" E
Okuamos, véase Okuamkos	Litoral	
Ondo, km 8 de la carretera del puerto	Litoral	01° 51' 00" N; 09° 45' 00" E
Ondoa, km. 10 de la carretera del puerto de Bata	Litoral	01° 51' 00" N; 09° 45' 00" E
Otom, río (P.N. Monte Alén)	Centro Sur	01° 34' 00" N; 10° 22' 00" E
Oton Asok, río (P.N. Monte Alén)	Centro Sur	01° 34' 00" N; 10° 22' 00" E
Ovaczom (Nsok Nsomo)	Kie Ntem	01° 52' 00" N; 10° 59' 00" E
Oveng Esandong, km 61 carretera Nkue-Mongomo	Wele Nzas	01° 47' 00" N; 10° 52' 00" E
Ovong	Wele Nzas	01° 26' 00" N; 11° 15' 00" E
Ovong (Machinda)	Litoral	
Oyac Esom	Centro Sur	01° 53' 00" N; 10° 50' 00" E
Oyap	Litoral	
Oyap	Centro Sur	
Oyap, carretera	Centro Sur	
Oyek	Wele Nzas	
Oyem, Acam	Wele Nzas	
Oyem, Aloum	Wele Nzas	
Oyem, Mbélighé.	Wele Nzas	
Palomas, islote de las, orilla izquierda del río Benito	Litoral	
Pembe	Litoral	01° 50' 00" N; 09° 45' 00" E
Piedra Nzas	Wele-Nzas	01° 25' 00" N; 11° 02' 00" E
Piedra Nzas, inselberg	Wele Nzas	01° 27,617' 00" N; 11° 01,876' 00" E
Punta Mbonda	Litoral	02° 02' 00" N; 09° 48' 00" E
Punta Mbonda - Socogui	Litoral	01° 32' 16,6066" N; 09° 37' 45,4252" E

Locality	Province	Coordinates
Río Campo	Litoral	02° 15' 41,7228" N; 09° 48' 33,8635" E
Río Campo (Aconangui)	Litoral	02° 21' 00" N; 09° 49' 00" E
Río Campo, carretera de la playa al pueblo	Litoral	02° 20' 33" N; 09° 49' 26" E
Río Campo, desembocadura del río Campo	Litoral	02° 20' 00" N; 09° 49' 00" E
Río Campo, en Dipika	Litoral	02° 15' 41,7228" N; 09° 48' 33,8635" E
Río Campo, orilla de río	Litoral	02° 20' 48" N; 09° 49' 13" E
Río Campo, Reserva	Litoral	02° 19' 00" N; 09° 49' 00" E
Sama (Bata-Niefang, km 35)	Litoral	01° 51' 00" N; 10° 03' 00" E
Sama, río (Bata-Niefang, km 35)	Litoral	01° 51' 51" N; 09° 59' 52" E
Samanguilla	Litoral	01° 53' 00" N; 09° 49' 00" E
San Joaquín de AdjiaKom (Río Campo)	Litoral	02° 05' 00" N; 10° 00' 00" E
San Joaquín de Ndjiakom, véase San Joaquín de AdjiaKom	Litoral	
San José (Evinayong, Evinayong-Aconibe km 5)	Centro Sur	
San Juan, cabo	Litoral	01° 10' 00" N; 09° 22' 00" E
San Juan, cabo - Etembue	Litoral	01° 14' 00" N; 09° 24' 00" E
San Juan, cabo - Punta Mbonda	Litoral	01° 37' 42,2876" N; 09° 37' 45,5234" E
Sandumá (Bata-Pembe km 17-18)	Litoral	
Santa Cruz (P.N. Monte Alén)	Centro Sur	01° 00' 00" N; 10° 00' 00" E
Selives - Readive (Bata)	Litoral	
SEMGE (Mitemelé)	Litoral	01° 05' 00" N; 10° 10' 00" E
Sendje	Litoral	01° 34' 00" N; 09° 50' 00" E
Sendje - Ongamnsok	Litoral	01° 22' 00" N; 09° 58' 00" E
Sendje 1°, km. 47 de la carretera de Kogo	Litoral	01° 34' 00" N; 09° 50' 00" E
Sendje 2°	Litoral	01° 34' 00" N; 09° 50' 00" E
Sendje, río Uele	Litoral	01° 33' 00" N; 09° 49' 00" E
Sendje, senda en el bosque	Litoral	01° 34' 00" N; 09° 50' 00" E
Sendje-Bisun, pista	Litoral	01° 30' 04" N; 09° 50' 39" E
Sendye, véase Sendje	Litoral	
Senye, véase Sendje	Litoral	
Senye I (Mbini), salida del poblado hacia Monte Mitra	Litoral	01° 31' 25" N; 09° 50' 02" E
Shimmer, campamento (río Muni - Monte Mitra km 16)	Litoral	01° 17' 00" N; 09° 53' 00" E
Sierra del Cristal	Centro Sur	01° 09' 00" N; 10° 13' 00" E
Sinosa, explotación forestal (Bata-Senge km 42-43)	Litoral	
Sofoge	Litoral	01° 28' 00" N; 09° 30' 00" E
Sofoge - Mbini	Litoral	01° 14' 00" N; 09° 26' 00" E
Sofoge (11 km NE Etembue)	Litoral	01° 19' 00" N; 09° 32' 00" E
Tequete (Evinayong)	Centro Sur	
Tyamayon [¿Nzuamayon?]	Wele Nzas	
Ué, río	Litoral	01° 54' 00" N; 09° 48' 00" E
Uele, río, véase Benito, río	Litoral	
Utonde	Litoral	01° 53' 59,0577" N; 09° 48' 33,1994" E
Utonde - Etembue	Litoral	01° 32' 16,6957" N; 09° 32' 21,8035" E
Utonde, aeródromo antiguo	Litoral	01° 53' 59,0577" N; 09° 48' 33,1994" E
Utonde, desembocadura del río	Litoral	01° 56' 32" N; 09° 48' 41" E
Utonde, playa	Litoral	01° 56' 09" N; 09° 48' 42" E
Utonde, río	Litoral	01° 53' 59,0577" N; 09° 48' 33,1994" E
Utonde, Utonde - Bata	Litoral	01° 56' 21" N; 09° 48' 44" E
Utonde-Punta Mbonda-Mepemba	Litoral	02° 02' 00" N; 09° 48' 00" E
Vog - yii, río (P.N. Monte Alén)	Centro Sur	01° 48' 00" N; 10° 24' 00" E
Wele, cascada del río	Centro-Sur	01° 24' 00" N; 10° 21' 00" E
Wele, cataratas del río (Mosumu) (P.N. Monte Alén)	Centro Sur	01° 36' 13" N; 10° 02' 20" E

Locality	Province	Coordinates
Wele, río, véase Benito, río	Litoral	
Yama	Centro Sur	01° 07' 00" N; 10° 35' 00" E
Yanaboté (Sofoge)	Litoral	01° 16' 00" N; 09° 25' 00" E
Yengüe (Río Campo)	Litoral	02° 55' 00" N; 09° 53' 00" E
Yoruba	Unknown province	
Zamanguila, véase Samanguilla	Litoral	

Anexo 3

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