



A checklist of vascular plants of the W National Park in Burkina Faso, including the adjacent hunting zones of Tapoa-Djerma and Kondio

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Abstract

Background

The W National Park and its two hunting zones represent a unique ecosystem in Burkina Faso for biodiversity conservation. This study aims at providing a detailed view of the current state of the floristic diversity as a baseline for future projects aiming at protecting and managing its resources. We combined intensive inventories and distribution records from vegetation plots, photo records and herbarium collections.

New information

This is the first comprehensive checklist of vascular plants of the Burkina Faso part of the transborder W National Park. With 721 documented species including 19 species new to Burkina Faso, the Burkina Faso part of the W National Park is, so far, the nature reserve with most plant species in Burkina Faso. To a large extent, this may be assigned to its high

habitat diversity and moderate degree of disturbance, but also to a relatively large area within an even larger complex of neighbouring protected areas, as well as comprehensive spatial, ecological and seasonal sampling efforts. However, as a World Heritage Site and regarding the current general context of insecurity, the W National Park and the entire WAP Complex require more international attention in order to ensure its conservation.

Keywords

plant diversity; new species; flora of Burkina Faso; protected areas; WAP Complex; West Africa

Introduction

In times of growing land use pressure in West Africa, protected areas play an increasingly important role in the conservation of wildlife as well as plant species (Clerici et al. 2007, Zoungrana et al. 2018). The W-Arly-Pendjari Complex (WAP Complex) is the largest transborder complex of West African nature reserves shared amongst the three countries Benin, Burkina Faso and Niger and a World Heritage Site of the UNESCO (UNESCO World Heritage Committee 2017). The three partner countries seek to further optimise and formalise joint management systems for the regional park, which are already partially in place (Miller et al. 2015). Remote sensing studies (Schulte to Bühne et al. 2017) showed vegetation cover within the protected areas to remain relatively stable, while decreasing in the surroundings between 2000 and 2013. Due to agricultural expansion and intensification, especially in the context of cotton farming, the WAP Complex is becoming increasingly isolated (Clerici et al. 2007, Konrad 2015), leaving little space for near-natural habitats in the surrounding communal area, being composed of croplands, fallows of different ages and only few savannas in sites unsuitable for agriculture.

The complex is well-known for its role in the conservation of large mammals and typical Sudanian savanna ecosystems (e.g. Thiombiano et al. 2010, Thiombiano and Kampmann 2010, see next paragraph for more details). It is a continuous area of nine protected areas which include the trinational complex of W Regional Park (named after the course of the river Niger forming a “W” in this area), Arly National Park in Burkina Faso and Pendjari National Park in Benin connected and enlarged by protected areas of other categories and hunting reserves (Konrad 2015).

The wildlife, especially the large mammals (Lamarque 2004) and birds (Balança et al. 2007) of the WAP Complex, is well documented. Likewise, the flora of W National Park of Niger (Mahamane 2005), Arly (Ouédraogo et al. 2011), Pama (Mbayngone et al. 2008) and Pendjari (Assédé et al. 2012) have recently been documented by published checklists. The flora of the W National Park in Burkina Faso, however, remained scarcely and poorly documented.

The present checklist has been produced to fill this gap by providing a comprehensive and detailed view of the floristic diversity of the W National Park including the surrounding hunting reserves in Burkina Faso as a baseline for future projects aiming at protecting and managing the resources of the WAP Complex. We assume that the core area has a high plant diversity due to the geographical and climatic setting, as well as the diversity of its habitats.

Materials and methods

Study area

The W National Park (235,000 ha) and its two hunting reserves, Kondio (also called Kourtiagou 51,000 ha) and Tapoa Djerma (30,000 ha) are located in eastern Burkina Faso, between 12.4° and 11.4° N and 1.8° and 2.4° E (Fig. 1). The W National Park in Burkina Faso, together with its equivalents in Benin and Niger, constitute a transfrontier park that is designated “wetland of international importance” under the Ramsar Convention in 2007. Altogether, they are part of the larger W-Arly-Pendjari transfrontier complex shared amongst the three countries Benin, Burkina Faso and Niger and one of the most important West African transboundary Biosphere Reserves of UNESCO-MAB.

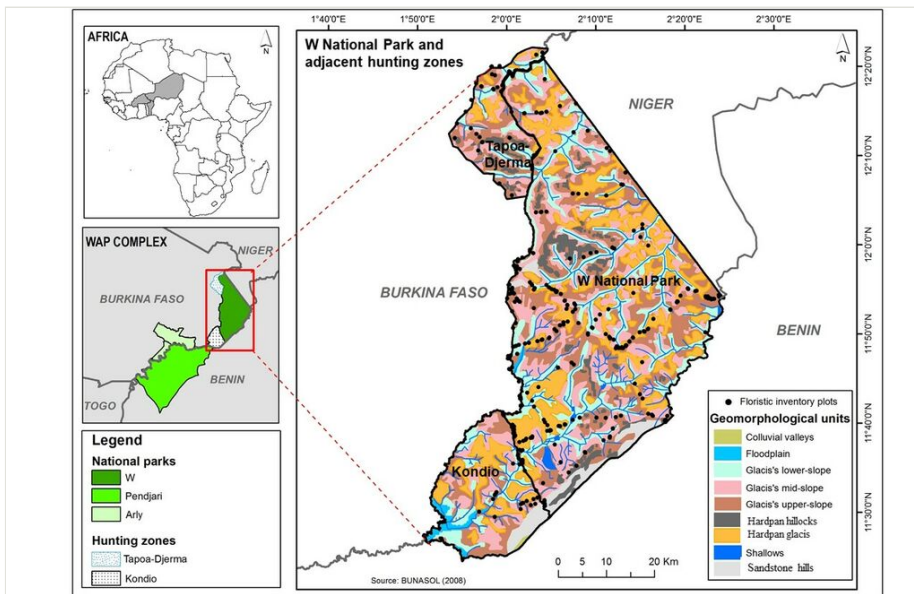


Figure 1. [doi](#)

Map of W National Park in Burkina Faso and adjacent hunting zones with georeferenced occurrence records, considering different geomorphological units.



Figure 2.

Species newly documented for the flora of Burkina Faso.

a: *Ampelocissus bombycina* (Photo by Meike Piepenbring) [doi](#)

b: *Aponogeton vallisnerioides* [doi](#)

c: *Gladiolus unguiculatus* [doi](#)

d: *Indigofera garckeana* [doi](#)

e: *Jatropha atacorensis* [doi](#)

f: *Selaginella buchholzii* [doi](#)

The national park belongs to IUCN Category II, whereas the hunting reserves belong to Category IV. Both categories act to protect large terrestrial and aquatic ecosystems, as well as threatened and rare species (both fauna and flora), serving as refuges and enhancing resilience. The National Park and the hunting zones are managed by prescribed fires ignited in October or November every year to mitigate the effect of accidental late fire and also to stimulate an off-season re-growth of perennial herbs for wildlife and to open the vegetation and increase the visibility of animals for tourists.

The W National Park and the two adjacent hunting zones of Burkina Faso are located in the Sahelo-Sudanian climate zone with an average rainfall of 750 to 950 mm, annual mean temperatures between 26 and 29°C and a dry season of 6-7 months. It belongs to the Pendjari-Mekrou biogeographical sector, shared between the Volta basin in its southern part and the Niger basin in the north. In the central western part of W National Park, eastern outliers of the Gobnangou range reach into the park and eastern outliers of the Atakora mountains are located on the southern edge of Kondio reserve and W National Park. The largest rivers in the reserves are the Mekrou on the eastern border and the Tapoa in the north, both tributaries of the Niger. In addition to the artificial water points, there are also numerous natural pools, with permanent and/or temporary water regimes (PNUD 2004). The vegetation is composed of a mosaic of various types of savannas i.e. woodland, grass, shrub and tree savanna, dry and gallery forests (Fontès and Guinko 1995), mostly distributed along elevation and soil gradients (Nacoulma et al. 2011).

Data collection and management

The checklist is a result of extensive field surveys by the first author during the years 2007-2010, (622 records from a species list based on 369 vegetation plots; Nacoulma 2012), as well as photo records (545 records; Dressler et al. 2014, Schmidt et al. 2016) and herbarium collections from the W National Park, including the herbaria of OUA, FR (733 and 583 records via their respective collection databases) and WAG (five records via GBIF). The vegetation plots followed standard sizes of 10 m x 10 m for the herb layer and 10 m x 50 m or 30 m x 30 m for the woody layer shown to be suitable for the characterisation of Sudanian savanna vegetation by Hahn-Hadjali (1998) and Ouédraogo (2006). They were taken mostly during the end of the rainy season (September-October) in order to maximise the number of flowering individuals for identification. The smaller plots for herbs were randomly located inside the corresponding plots for woody plants. The locations were chosen by a stratified random design using satellite images and soil maps to best represent the geomorphological units (colluvial plains: 5, floodplain: 17, lower slope glacis: 45, mid-slope glacis: 101, upper slope glacis: 54, hardpan hillocks: 18, hardpan glacis: 73, shallows: 31, sandstone hills: 25) and vegetation types (woodland: 39, gallery forest: 17, savanna woodland: 58, tree savanna: 92, shrub savanna: 134, grass savanna: 29) following the definitions of the Yangambi conference (Conseil Scientifique pour l'Afrique au Sud du Sahara 1956), while taking accessibility into account (see Fig. 1 for the plot locations and geomorphological units). Herbarium and photo records were partly taken during the afore-mentioned work on vegetation plots, partly during collecting expeditions for the assessment of Burkina Faso's flora, focussing on previously under-sampled

habitats (van der Burgt et al. 2010) and in the course of other research in the area with different focus (Erpenbach et al. 2012, Schumann et al. 2016, Zwarg et al. 2012). For data analysis, all these records have been combined into an MS Access database. Species concepts and synonymy, as well as families, follow Thiombiano et al. (2012) and, for orthographic corrections of primary data, we used the Taxonomic Name Resolution Service (TNRS; <http://tnrs.iplantcollaborative.org>). In order to identify species new to the flora of Burkina Faso, we compared the total floristic list of the study area to the catalogue of Burkina Faso's vascular plants (Thiombiano et al. 2012), supplemented by new species records from Schmidt (2018). Introduced species have been identified using a list extracted from Thiombiano et al. (2012), based upon distribution notes and contributed to the Global Register of Introduced and Invasive Species (Schmidt et al. 2020).

Species identification

Species have been identified using the Flora of West Tropical Africa (Hutchinson and Dalziel 1972), Flore Analytique du Bénin (Akoegninou et al. 2006), as well as group-specific literature for grasses (Poilecot 1995, Poilecot 1999), orchids (Perez-Vera 2003) and woody plants (Arbonnier 2000) in combination with online guides such as African Plants - a photo guide (Dressler et al. 2014) and the herbarium collections of Ouagadougou University (OUA) and Herbarium Senckenbergianum (FR).

Notes on the checklist

The list is arranged alphabetically by family and species. Synonyms are only given if these have been used in our primary data in herbarium, vegetation plot or photo records. Herbarium records are given with collector and collector's number, followed in parentheses by herbarium code and herbarium number. Photo records are marked with APPG (African Plants - a photo guide: Dressler et al. 2014) and the photo ID within the guide's website and database. New country records are specifically mentioned as "New species record for Burkina Faso". Introduced species are marked by "(introduced)" following the distribution type.

Vascular plants of W National Park, Burkina Faso and adjacent hunting zones

Family Acanthaceae

Blepharis linariifolia Pers.

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Schumann (APPG-3817)

***Blepharis maderaspatensis* (L.) B.Heyne ex Roth**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Zwarg 118 (FR)

***Dicliptera paniculata* (Forssk.) I.Darbysh.**

Nomenclature:

Peristrophe paniculata (Forssk.) Brummitt|*Peristrophe bicalyculata* (Retz.) Nees

Distribution: Pluriregional African

Notes: Life Form: therophyte; Voucher: Nacoulma 207 (OUA-13570)

***Dyschoriste nagchana* (Nees) Bennet**

Nomenclature:

Dyschoriste perrottetii (Nees) Kuntze

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007461)

***Hygrophila auriculata* (Schumach.) Heine**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007402)

***Hygrophila senegalensis* (Nees) T.Anderson**

Distribution: Sudanian

Notes: Life Form: geophyte; Voucher: Nacoulma 4509 (OUA-17092)

***Hypoestes aristata* (Vahl) Roem. & Schult.**

Nomenclature:

Hypoestes verticillaris (L.f.) Sol. ex Roem. & Schult.

Distribution: Pantropical

Notes: Life Form: phanerophyte; Voucher: Schmidt et al. (FR-0007656)

***Justicia flava* (Forssk.) Vahl**

Distribution: Afrotropical

Notes: Life Form: chamaephyte; Voucher: Schmidt et al. (FR-0007646)

***Justicia insularis* T.Anderson**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Zwarg 102 (FR)

***Lepidagathis anobrya* Nees**

Distribution: Sudanian

Notes: Life Form: chamaephyte; Voucher: Nacoulma (APPG-70171)

***Lepidagathis collina* (Endl.) Milne-Redh.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Nacoulma 71 (OUA-13435)

***Monechma ciliatum* (Jacq.) Milne-Redh.**

Distribution: Afrotropical

Notes: Life Form: therophyte; Voucher: Zwarg 47 (FR)

***Monechma depauperatum* (T.Anderson) C.B.Clarke**

Distribution: Afrotropical

Notes: Life Form: chamaephyte; Voucher: Nacoulma (OUA-17240)

***Nelsonia canescens* (Lam.) Spreng.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Nacoulma 204 (OUA-13567)

***Phaulopsis barteri* T.Anderson**

Distribution: Afrotropical

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007431)

Family Alismataceae

Burnatia enneandra Micheli

Distribution: Afrotropical

Notes: Life Form: hemicryptophyte; Voucher: Schmidt et al. (FR-0007398)

Butomopsis latifolia (D.Don) Kunth

Distribution: Afrotropical

Notes: Life Form: hemicryptophyte; Voucher: Schmidt (APPG-4847)

Limnophyton obtusifolium (L.) Miq.

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Nacoulma 4943 (OUA-17285)

Sagittaria guayanensis Kunth

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Nacoulma 73 (OUA-13437)

Family Amaranthaceae

Achyranthes aspera L.

Nomenclature:

Achyranthes argentea Lam.

Distribution: Pantropical

Notes: Life Form: chamaephyte; Voucher: Zwarg 45 (FR)

Alternanthera sessilis (L.) R.Br. ex DC.

Distribution: Pluriregional African

Notes: Life Form: chamaephyte; Voucher: Nacoulma 194 (OUA-13557)

Celosia trigyna L.

Distribution: Afro-Malagasy

Notes: Life Form: therophyte; Voucher: Schumann 101 (FR-0083347)

***Pandiaka angustifolia* (Vahl) Hepper**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Zwarg 12 (FR)

***Pandiaka involucrata* (Moq.) B.D.Jacks.**

Distribution: Sudanian

Notes: Life Form: therophyte

***Pupalia lappacea* (L.) Juss.**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083346)

Family Amaryllidaceae***Crinum distichum* Herb.**

Distribution: Sudanian

Notes: Life Form: geophyte

***Crinum ornatum* (Aiton) Herb.**

Distribution: Pluriregional African

Notes: Life Form: geophyte; Voucher: Nacoulma (APPG-69869)

***Pancratium tenuifolium* Hochst. ex A.Rich.**

Distribution: Guineo-Congolian-Sudano-Zambesian

Notes: Life Form: geophyte; Voucher: Katharina Schumann (APPG-3417)

***Pancratium trianthum* Herb.**

Distribution: Guineo-Congolian-Sudano-Zambesian

Notes: Life Form: geophyte; Voucher: Nacoulma 4586 (OUA-17164)

***Scadoxus multiflorus* (Martyn) Raf.**

Distribution: Sudano-Zambesian

Notes: Life Form: geophyte; Voucher: Katharina Schumann (APPG-2330)

Family Anacardiaceae

Haematostaphis barteri Hook.f.

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Schmidt et al. (FR-0007486)

Lanea acida A.Rich.

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Zwarg 107 (FR)

Lanea barteri (Oliv.) Engl.

Distribution: Sudanian

Notes: Life Form: phanerophyte

Lanea microcarpa Engl. & K.Krause

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Zwarg 60 (FR)

Lanea velutina A.Rich.

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-70154)

Ozoroa obovata (Oliv.) R. Fern. & A. Fern.

Nomenclature:

Ozoroa insignis Delile

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Schmidt et al. (FR-0007479)

Ozoroa pulcherrima (Schweinf.) R.Fern. & A.Fern.

Distribution: Sudanian

Notes: Life Form: phanerophyte

Rhus crenulata* A.Rich.*Nomenclature:**

Rhus natalensis Bernh. ex C.Krauss

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Thiombiano et al. 3308 (OUA)

***Sclerocarya birrea* (A.Rich.) Hochst.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Katharina Schumann (APPG-2342)

***Spondias mombin* L.**

Distribution: Pantropical

Notes: Life Form: phanerophyte; Voucher: Schmidt et al. (FR-0007644)

Family Annonaceae***Annona senegalensis* Pers.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Zwarg 73 (FR)

***Hexalobus monopetalus* (A.Rich.) Engl. & Diels**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Nacoulma 147 (OUA-13511)

***Uvaria chamae* P.Beauv.**

Distribution: Pluriregional African

Notes: Life Form: phanerophyte; Voucher: Nacoulma 4949 (OUA-17281)

***Xylopia aethiopica* (Dunal) A.Rich.**

Distribution: Afrotropical

Notes: Life Form: phanerophyte

Family Apocynaceae***Baissea multiflora* A.DC.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Nacoulma 168 (OUA-13532)

***Calotropis procera* (Aiton) Dryand.**

Distribution: Paleotropical

Notes: Life Form: phanerophyte; Voucher: Schumann (APPG-471)

***Caralluma adscendens* (Roxb.) R.Br.**

Distribution: Sudano-Zambesian

Notes: Life Form: chamaephyte; Voucher: Schumann (APPG-493)

***Ceropegia fusiformis* N.E.Br.**

Distribution: Paleotropical

Notes: Life Form: phanerophyte

***Ceropegia racemosa* N.E.Br.**

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma 57 (OUA-13422)

***Ceropegia rhynchantha* Schltr.**

Distribution: Sudanian

Notes: Life Form: geophyte; Voucher: Schumann (FR-0083341)

***Cryptolepis oblongifolia* (Meisn.) Schltr.**

Nomenclature:

Ectadiopsis oblongifolia (Meisn.) B.D.Jacks.

Distribution: Pluriregional African

Notes: Life Form: phanerophyte; Voucher: Nacoulma 90 (OUA-13454)

***Gymnema sylvestre* (Retz.) R.Br. ex Sm.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Nacoulma 11 (OUA-13381)

***Leptadenia hastata* Vatke**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-70173)

***Oxystelma bornouense* R.Br.**

Distribution: Guineo-Congolian-Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Schumann (APPG-3866)

***Pergularia daemia* (Forssk.) Chiov.**

Distribution: Pluriregional African

Notes: Life Form: phanerophyte; Voucher: Schumann (FR-0083339)

***Raphionacme brownii* Scott-Elliot**

Distribution: Sudanian

Notes: Life Form: geophyte; Voucher: Nacoulma 4542 (OUA-17120)

***Saba comorensis* (Bojer ex A.DC.) Pichon**

Distribution: Pluriregional African

Notes: Life Form: phanerophyte; Voucher: Nacoulma 150 (OUA-13514)

***Saba senegalensis* (A.DC.) Pichon**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Schmidt et al. (FR-0007685)

***Sarcostemma viminale* (L.) R.Br.**

Distribution: Pantropical

Notes: Life Form: phanerophyte

***Secamone afzelii* (Roem. & Schult.) K.Schum.**

Distribution: Guineo-Congolian

Notes: Life Form: phanerophyte; Voucher: Schumann (FR-0083338)

***Sphaerocodon caffrum* (Meisn.) Schltr.**

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma 64 (OUA-13429)

***Strophanthus sarmentosus* DC.**

Distribution: Guineo-Congolian

Notes: Life Form: phanerophyte; Voucher: Nacoulma 4488 (OUA-17078)

***Tacazzea apiculata* Oliv.**

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma 211 (OUA-13574)

Family Aponogetonaceae

***Aponogeton vallisnerioides* Baker**

Distribution: Guineo-Congolian

Notes: Life Form: hydrophyte; Voucher: Nacoulma (APPG-70417); New species record for Burkina Faso.

Family Araceae

***Amorphophallus abyssinicus* (A.Rich.) N.E.Br.**

Distribution: Sudanian

Notes: Life Form: geophyte; Voucher: Nacoulma (APPG-69725)

***Amorphophallus baumannii* (Engl.) N.E.Br.**

Nomenclature:

Amorphophallus flavovirens N.E.Br.

Distribution: Sudanian

Notes: Life Form: geophyte; Voucher: Nacoulma (APPG-69730)

***Amorphophallus dracontioides* (Engl.) N.E.Br.**

Distribution: Sudanian

Notes: Life Form: geophyte; Voucher: Nacoulma (APPG-69734)

***Anchomanes difformis* (Blume) Engl.**

Distribution: Guineo-Congolian-Sudano-Zambesian

Notes: Life Form: geophyte

***Stylochaeton hypogaeus* Lepr.**

Distribution: Sudanian

Notes: Life Form: geophyte; Voucher: Nacoulma (APPG-70382)

***Stylochaeton lancifolius* Kotschy & Peyr.**

Distribution: Afrotropical

Notes: Life Form: geophyte; Voucher: Erpenbach (APPG-30290)

Family Arecaceae

***Borassus aethiopum* Mart.**

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-69777)

***Hyphaene thebaica* (L.) Mart.**

Distribution: Pluriregional African

Notes: Life Form: phanerophyte; Voucher: Zizka (APPG-3842)

Family Aristolochiaceae

***Aristolochia albida* Duch.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-69746)

Family Asparagaceae

Albuca nigritana (Baker) Troupin

Nomenclature:

Urginea nigritana Baker

Distribution: Sudano-Zambesian

Notes: Life Form: geophyte; Voucher: Schumann (FR-0083223)

Asparagus africanus Lam.

Distribution: Paleotropical

Notes: Life Form: geophyte

Asparagus flagellaris (Kunth) Baker

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-69752)

Chlorophytum blepharophyllum Schweinf. ex Baker

Distribution: Sudano-Zambesian

Notes: Life Form: geophyte; Voucher: Nacoulma 4588 (OUA-17187)

Chlorophytum gallabatense Schweinf. ex Baker

Distribution: Sudanian

Notes: Life Form: geophyte

Chlorophytum geophilum Peter ex Poelln.

Distribution: Sudanian

Notes: Life Form: geophyte

Chlorophytum laxum R.Br.

Distribution: Sudanian

Notes: Life Form: geophyte; Voucher: Zwarg 108 (FR)

***Chlorophytum macrophyllum* (A.Rich.) Asch.**

Distribution: Sudano-Zambesian

Notes: Life Form: hemicryptophyte; Voucher: Georg Zizka (APPG-3436)

***Chlorophytum orchidastrum* Lindl.**

Distribution: Guineo-Congolian-Sudano-Zambesian

Notes: Life Form: hemicryptophyte; Voucher: Schmidt et al. (FR-0007465)

***Chlorophytum stenopetalum* Baker**

Distribution: Sudanian

Notes: Life Form: geophyte; Voucher: Nacoulma 4558 (OUA-17135)

***Drimia altissima* (L.f.) Ker Gawl.**

Nomenclature:

Urginea altissima (L.f.) Baker

Distribution: Afrotropical

Notes: Life Form: hemicryptophyte

***Drimiopsis barteri* Baker**

Distribution: Sudanian

Notes: Life Form: geophyte; Voucher: Nacoulma (APPG-70165); New species record for Burkina Faso.

***Eriospermum flagelliforme* (Baker) J.C.Manning**

Nomenclature:

Eriospermum abyssinicum Baker

Distribution: Afrotropical

Notes: Life Form: geophyte; Voucher: Zwarg 52 (FR-25053)

***Ledebouria sudanica* (A.Chev.) Burg**

Distribution: Sudanian

Notes: Life Form: geophyte; Voucher: Nacoulma (APPG-70170)

***Ornithogalum viride* (L.) J.C.Manning & Goldblatt**

Distribution: Sudano-Zambesian

Notes: Life Form: geophyte

***Sansevieria liberica* Gérôme & Labroy**

Distribution: Guineo-Congolian-Sudano-Zambesian

Notes: Life Form: geophyte; Voucher: Nacoulma (APPG-70343)

Family Asteraceae

***Acanthospermum hispidum* DC.**

Distribution: Afro-Malagasy (introduced)

Notes: Life Form: therophyte; Voucher: Schmidt (APPG-4421)

***Aedesia glabra* (Klatt) O.Hoffm.**

Nomenclature:

Aedesia baumannii O.Hoffm.

Distribution: Guineo-Congolian

Notes: Life Form: phanerophyte

***Ageratum conyzoides* L.**

Distribution: Pantropical (introduced)

Notes: Life Form: therophyte

***Aspilia africana* (Pers.) C.D.Adams**

Distribution: Guineo-Congolian

Notes: Life Form: therophyte; Voucher: Nacoulma 4578 (OUA-17161)

***Aspilia angustifolia* Oliv. & Hiern**

Distribution: Sudanian

Notes: Life Form: therophyte

***Aspilia bussei* O.Hoffm. & Muschl.**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Zwarg 17 (FR)

***Aspilia helianthoides* (Schumach. & Thonn.) Oliv. & Hiern**

Distribution: Sudanian

Notes: Life Form: therophyte

***Aspilia kotschyi* (Sch.Bip. ex Hochst.) Oliv.**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte

***Aspilia paludosa* Berhaut**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Zwarg 71 (FR)

***Aspilia rudis* Oliv. & Hiern**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007429)

***Bidens borianiana* (Sch.Bip. ex Schweinf.) Cufod.**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Nacoulma 97 (OUA-13461)

***Bidens engleri* O.E.Schulz**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Nacoulma 4534 (OUA-17110)

***Bidens pilosa* L.**

Distribution: Sudanian (introduced)

Notes: Life Form: therophyte

***Blumea crispata* (Vahl) Merxm.**

Distribution: Pluriregional African

Notes: Life Form: phanerophyte; Voucher: Nacoulma 85 (OUA-13449)

***Blumea oloptera* DC.**

Nomenclature:

Laggera oloptera (DC.) C.D.Adams

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte

***Chrysanthellum indicum* DC.**

Distribution: Pantropical (introduced)

Notes: Life Form: therophyte

***Dicoma tomentosa* Cass.**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte

***Linzia purpurea* (Sch.Bip. ex Walp.) Isawumi**

Nomenclature:

Vernonia purpurea Sch.Bip. ex Walp.

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Nacoulma 36 (OUA-13401)

***Macledium sessiliflorum* (Harv.) S.Ortiz**

Nomenclature:

Dicoma sessiliflora Harv.

Distribution: Afrotropical

Notes: Life Form: hemicryptophyte; Voucher: Nacoulma (APPG-70184)

***Melanthera elliptica* O.Hoffm.**

Distribution: Sudanian

Notes: Life Form: hemicryptophyte; Voucher: Nacoulma 79 (OUA-13443)

***Melanthera scandens* (Schumach. & Thonn.) Roberty**

Distribution: Afrotropical

Notes: Life Form: therophyte; Voucher: Nacoulma 4627 (OUA-17218)

***Pentanema indicum* (L.)**

Distribution: Afrotropical

Notes: Life Form: therophyte

***Pseudognaphalium luteoalbum* (L.) Hilliard & B.L.Burt**

Distribution: Cosmopolitan

Notes: Life Form: therophyte; Voucher: Nacoulma (OUA-17193)

***Synedrella nodiflora* (L.) Gaertn.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083332)

***Tridax procumbens* L.**

Distribution: Pantropical (introduced)

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083331)

***Vernonia colorata* (Willd.) Drake**

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Schmidt et al. (FR-0007421)

***Vernonia pumila* (Vell.) Cabrera**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte

Family Bignoniaceae***Kigelia africana* (Lam.) Benth.**

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Nacoulma 107 (OUA-13471)

***Stereospermum kunthianum* Cham.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Katharina Schumann (APPG-2499)

Family Bixaceae***Cochlospermum planchonii* Hook.f. ex Planch.**

Distribution: Sudanian

Notes: Life Form: chamaephyte; Voucher: Zwarg 83 (FR)

***Cochlospermum tinctorium* Perrier ex A.Rich.**

Distribution: Sudanian

Notes: Life Form: geophyte; Voucher: Nacoulma (APPG-69817)

Family Boraginaceae***Euploca strigosa* (Willd.) Diane & Hilger**

Nomenclature:

Heliotropium strigosum Willd.

Distribution: Paleotropical

Notes: Life Form: chamaephyte; Voucher: Nacoulma 4476 (OUA-17054)

***Heliotropium indicum* L.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Nacoulma (APPG-70063)

***Rotula aquatica* Lour.**

Distribution: Pantropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-70332)

Family Burseraceae***Boswellia dalzielii* Hutch.**

Distribution: Sudanian

Notes: Life Form: phanerophyte

***Commiphora africana* (A.Rich.) Endl.**

Distribution: Paleotropical

Notes: Life Form: phanerophyte

Family Campanulaceae***Wahlenbergia hirsuta* (Edgew.) Tuyn**

Distribution: Afro-American

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083327)

Family Cannabaceae***Trema orientalis* (L.) Blume**

Distribution: Afro-Malagasy

Notes: Life Form: phanerophyte; Voucher: Schmidt et al. (FR-0007626)

Family Capparaceae***Boscia angustifolia* A.Rich.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Thiombiano et al. 3297 (OUA)

***Boscia senegalensis* Lam.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-69783)

***Cadaba farinosa* Forssk**

Distribution: Paleotropical

Notes: Life Form: phanerophyte; Voucher: Erpenbach (APPG-29466)

***Capparis sepiaria* L.**

Distribution: Sudanian

Notes: Life Form: phanerophyte

***Capparis tomentosa* Lam.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Katharina Schumann (APPG-4121)

***Crateva adansonii* DC.**

Distribution: Paleotropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma 140 (OUA-13504)

***Maerua angolensis* DC.**

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-70194)

***Maerua oblongifolia* (Forssk.) A.Rich.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-70196)

***Ritchiea capparoides* (Andrews) Britten**

Distribution: Guineo-Congolian

Notes: Life Form: phanerophyte; Voucher: Thiombiano et al. 3311 (OUA)

Family Caryophyllaceae***Polycarpaea corymbosa* (L.) Lam.**

Distribution: Pluriregional African

Notes: Life Form: therophyte; Voucher: Nacoulma 94 (OUA-13458)

***Polycarpaea eriantha* Hochst. ex A.Rich.**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083322)

***Polycarpaea linearifolia* (DC.) DC.**

Distribution: Afrotropical

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083321)

***Polycarpon prostratum* (Forssk.) Asch. & Schweinf.**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Nacoulma (OUA-17195)

Family Celastraceae***Gymnosporia senegalensis* (Lam.) Loes.**

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Zwarg 103 (FR)

***Loeseneriella africana* (Willd.) R.Wilczek**

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma 125 (OUA-13489)

Family Chrysobalanaceae***Parinari congensis* Didr.**

Distribution: Guineo-Congolian

Notes: Life Form: phanerophyte; Voucher: Schmidt et al. (FR-0007622)

***Parinari curatellifolia* Planch. ex Benth.**

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-70297)

Family Cleomaceae

***Cleome viscosa* L.**

Distribution: Pantropical

Notes: Life Form: therophyte

Family Clusiaceae

***Garcinia livingstonei* T.Anderson**

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Schmidt et al. (FR-0007444)

Family Colchicaceae

***Gloriosa simplex* L.**

Distribution: Pluriregional African

Notes: Life Form: geophyte; Voucher: Nacoulma 214 (OUA-13577)

***Gloriosa superba* L.**

Distribution: Paleotropical

Notes: Life Form: geophyte; Voucher: Nacoulma 27 (OUA-13393)

Family Combretaceae

***Anogeissus leiocarpa* (DC.) Guill. & Perr.**

Nomenclature:

Terminalia leiocarpa (DC.) Baill.

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Schmidt et al. (FR-0007383)

***Combretum aculeatum* Vent.**

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-69837)

***Combretum adenogonium* Steud. ex A.Rich.**

Distribution: Sudanian

Notes: Life Form: phanerophyte

***Combretum collinum* Fresen.**

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Zwarg 16 (FR)

***Combretum glutinosum* Perr. ex DC.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Küppers 468 (FR-0011271)

***Combretum micranthum* G.Don**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Zwarg 120 (FR)

***Combretum molle* R.Br. ex G.Don**

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Zwarg 91 (FR)

***Combretum nigricans* Lepr. ex Guill. & Perr.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Zwarg 15 (FR)

***Combretum niroense* Aubrév. ex Keay**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-69849)

***Combretum paniculatum* Vent.**

Distribution: Pluriregional African

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-69851)

***Guiera senegalensis* J.F.Gmel.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Zwarg 79 (FR)

***Pteleopsis suberosa* Engl. & Diels**

Nomenclature:

Terminalia engleri Gere & Boatwr.

Distribution: Pluriregional African

Notes: Life Form: phanerophyte; Voucher: Zwarg 95 (FR)

***Terminalia avicennioides* Guill. & Perr.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Katharina Schumann (APPG-2595)

***Terminalia laxiflora* Engl.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Nacoulma 4539 (OUA-17106)

***Terminalia macroptera* Guill. & Perr.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Zwarg 132 (FR)

***Terminalia mollis* M.A.Lawson**

Distribution: Pluriregional African

Notes: Life Form: phanerophyte

***Terminalia schimperiana* Hochst. ex Delile**

Distribution: Pantropical

Notes: Life Form: phanerophyte

Family Commelinaceae

Aneilema lanceolatum Benth.

Distribution: Sudano-Zambesian

Notes: Life Form: chamaephyte; Voucher: Nacoulma 4586 (OUA-17188)

Aneilema paludosum A.Chev.

Distribution: Sudano-Zambesian

Notes: Life Form: chamaephyte; Voucher: Nacoulma 4552 (OUA-17141)

Aneilema setiferum A.Chev.

Distribution: Sudanian

Notes: Life Form: chamaephyte; Voucher: Nacoulma 4527 (OUA-17117)

Commelina benghalensis L.

Distribution: Paleotropical

Notes: Life Form: therophyte

Commelina erecta L.

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007618)

Commelina forskalii Vahl

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Nacoulma 195 (OUA-13558)

Commelina nigriflora Benth.

Distribution: Afrotropical

Notes: Life Form: therophyte; Voucher: Zwarg 31 (FR)

***Commelina subulata* Roth**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Nacoulma 4495 (OUA-17071)

***Cyanotis caespitosa* Kotschy & Peyr.**

Distribution: Afrotropical

Notes: Life Form: geophyte; Voucher: Nacoulma (APPG-69902)

***Cyanotis lanata* Benth.**

Distribution: Pluriregional African

Notes: Life Form: therophyte

***Cyanotis longifolia* Benth.**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Nacoulma 232 (OUA-17225)

***Floscopa africana* (P.Beauv.) C.B.Clarke**

Distribution: Pantropical

Notes: Life Form: geophyte

***Floscopa axillaris* (Poir.) C.B.Clarke**

Distribution: Pantropical

Notes: Life Form: geophyte

***Murdannia simplex* (Vahl) Brenan**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007660)

Family Convolvulaceae

***Evolvulus alsinoides* (L.) L.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Zwarg 101 (FR)

***Ipomoea aquatica* Forssk.**

Distribution: Pantropical

Notes: Life Form: hemicryptophyte; Voucher: Nacoulma (APPG-70073)

***Ipomoea argentaurata* Hallier f.**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Nacoulma 106 (OUA-13470)

***Ipomoea barteri* A. Chev.**

Distribution: Afro-American

Notes: Life Form: therophyte

***Ipomoea coptica* (L.) Roth ex Roem. & Schult.**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Nacoulma 81 (OUA-13445)

***Ipomoea coccinosperma* Hochst. ex Choisy**

Distribution: Pluriregional African

Notes: Life Form: therophyte; Voucher: Nacoulma 31 (OUA-13396)

***Ipomoea eriocarpa* R. Br.**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Nacoulma 91 (OUA-13455)

***Ipomoea heterotricha* Didr.**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007482)

***Ipomoea vagans* Baker**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083311)

***Merremia hederacea* (Burm. f.) Hallier f.**

Distribution: Paleotropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma 4563 (OUA-17132)

***Merremia kentrocaulos* Rendle**

Distribution: Paleotropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma 60 (OUA-13425)

***Merremia pinnata* (Hochst. ex Choisy) Hallier f.**

Distribution: Pluriregional African

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083310)

Family Costaceae

***Costus spectabilis* (Fenzl) K.Schum.**

Distribution: Sudanian

Notes: Life Form: geophyte; Voucher: Erpenbach (APPG-29559)

Family Crassulaceae

***Kalanchoe crenata* (Andrews) Haw.**

Distribution: Sudano-Zambesian

Notes: Life Form: chamaephyte; Voucher: Nacoulma (APPG-70130)

***Kalanchoe lanceolata* (Forssk.) Pers.**

Distribution: Sudano-Zambesian

Notes: Life Form: chamaephyte

Family Cucurbitaceae

***Citrullus lanatus* (Thunb.) Matsum. & Nakai**

Distribution: Afrotropical

Notes: Life Form: therophyte

Cucumis maderaspatanus* L.*Nomenclature:**

Mukia maderaspatana (L.) M.Roem.

Distribution: Paleotropical

Notes: Life Form: hemicryptophyte; Voucher: Nacoulma 32 (OUA-13397)

***Cucumis melo* L.**

Distribution: Afro-Malagasy

Notes: Life Form: phanerophyte; Voucher: Nacoulma 41 (OUA-13406)

***Cucumis prophetarum* L.**

Distribution: Pluriregional African

Notes: Life Form: therophyte; Voucher: Nacoulma (OUA-17154)

***Luffa cylindrica* (L.) M.Roem.**

Distribution: Afro-American

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007582)

***Trochomeria macrocarpa* (Sond.) Harv.**

Distribution: Afrotropical

Notes: Life Form: geophyte; Voucher: Nacoulma 59 (OUA-13424)

***Zehneria hallii* C.Jeffrey**

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma 66 (OUA-13431)

Family Cyperaceae***Ascolepis protea* Welw.**

Distribution: Afrotropical

Notes: Life Form: hemicryptophyte

Bulbostylis abortiva* (Steud.) C.B.Clarke*Nomenclature:***Abildgaardia abortiva* (Steud.) Lye**Distribution:** Pluriregional African**Notes:** Life Form: therophyte; Voucher: Zwarg 5 (FR-25005)***Bulbostylis cioniana* (Pi.Savi) Lye****Distribution:** Pluriregional African**Notes:** Life Form: therophyte***Bulbostylis coleotricha* (Hochst. ex A.Rich.) C.B.Clarke****Nomenclature:***Abildgaardia coleotricha* (Hochst. ex A.Rich.) Lye**Distribution:** Sudanian**Notes:** Life Form: therophyte***Bulbostylis densa* (Wall.) Hand.-Mazz.****Distribution:** Pantropical**Notes:** Life Form: therophyte***Bulbostylis filamentosa* (Vahl) C.B.Clarke****Nomenclature:***Bulbostylis metralis* Cherm.**Distribution:** Afrotropical**Notes:** Life Form: hemicryptophyte***Bulbostylis hispidula* (Vahl) R.W.Haines****Nomenclature:***Abildgaardia hispidula* (Vahl) Lye|*Fimbristylis hispidula* (Vahl) Kunth**Distribution:** Pluriregional African**Notes:** Life Form: therophyte; Voucher: Mbayngone et al. (FR-7485)

Bulbostylis pilosa* (Willd.) Cherm.*Nomenclature:**

Abildgaardia pilosa (Willd.) Nees

Distribution: Afrotropical

Notes: Life Form: hemicryptophyte

***Cyperus difformis* L.**

Distribution: Pantropical

Notes: Life Form: hemicryptophyte

***Cyperus esculentus* L.**

Distribution: Pantropical

Notes: Life Form: geophyte

***Cyperus haspan* L.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083305)

***Cyperus iria* L.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083303)

***Cyperus podocarpus* Boeckeler**

Distribution: Sudano-Zambesian

Notes: Life Form: hemicryptophyte

***Cyperus procerus* Rottb.**

Distribution: Paleotropical

Notes: Life Form: geophyte

***Cyperus pustulatus* Vahl**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083302)

***Cyperus reduncus* Hochst. ex Boeckeler**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083301)

***Cyperus rotundus* L.**

Distribution: Afrotropical

Notes: Life Form: geophyte

***Cyperus tenuiculmis* Boeckeler**

Distribution: Pantropical

Notes: Life Form: geophyte

***Diplacrum africanum* (Benth.) C.B.Clarke**

Distribution: Afrotropical

Notes: Life Form: therophyte; Voucher: Nacoulma 111 (OUA-13475)

***Eleocharis atropurpurea* (Retz.) J.Presl & C.Presl**

Distribution: Pantropical

Notes: Life Form: therophyte

***Eleocharis complanata* Boeckeler**

Distribution: Guineo-Congolian-Sudano-Zambesian

Notes: Life Form: therophyte

***Eleocharis naumanniana* Boeckeler**

Distribution: Guineo-Congolian-Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083298); New species record for Burkina Faso.

***Fimbristylis dichotoma* (L.) Vahl**

Distribution: Pantropical

Notes: Life Form: hemicryptophyte; Voucher: Nacoulma 4629 (OUA-17197)

***Fimbristylis ferruginea* (L.) Vahl**

Distribution: Pantropical

Notes: Life Form: hemicryptophyte

***Fimbristylis pilosa* Vahl**

Distribution: Sudanian

Notes: Life Form: hemicryptophyte; Voucher: Schumann (APPG-6708)

***Fuirena umbellata* Rottb.**

Distribution: Afrotropical

Notes: Life Form: geophyte

***Kyllinga debilis* C.B.Clarke**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte

***Kyllinga erecta* Schumach.**

Distribution: Afro-Malagasy

Notes: Life Form: geophyte; Voucher: Zwarg 7 (FR-25007)

***Kyllinga pumila* Michx.**

Distribution: Afro-American

Notes: Life Form: hemicryptophyte

***Kyllinga squamulata* Vahl**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Schumann 188 (FR-0083292)

***Kyllinga tenuifolia* Steud.**

Distribution: Paleotropical

Notes: Life Form: hemicryptophyte

***Lipocarpha chinensis* (Osbeck) J.Kern**

Distribution: Paleotropical

Notes: Life Form: therophyte

***Lipocarpha kernii* (Raymond) Goetgh.**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Zwarg 21 (FR)

***Mariscus cylindristachyus* Steud.**

Nomenclature:

Mariscus alternifolius Vahl

Distribution: Pantropical

Notes: Life Form: hemicryptophyte; Voucher: Nacoulma 261 (OUA-17221)

***Mariscus squarrosus* (L.) C.B.Clarke**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Zwarg 32 (FR)

***Pycrus macrostachyos* (Lam.) J.Raynal**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Katharina Schumann (APPG-6710)

***Pycrus pumilus* (L.) Nees**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Zwarg 38 (FR)

***Rhynchospora corymbosa* (L.) Britton**

Distribution: Pantropical

Notes: Life Form: hemicryptophyte; Voucher: Schmidt et al. (FR-0007428)

Schoenoplectiella senegalensis* (Steud.) Lye*Nomenclature:**

Scirpus jacobii C.E.C. Fisch.

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Thomas Janßen (APPG-5364)

***Scleria bulbifera* Hochst. ex A.Rich.**

Distribution: Afro-Malagasy

Notes: Life Form: geophyte; Voucher: Schumann (FR-0083289)

***Scleria melanotricha* Hochst. & A.Rich.**

Distribution: Afrotropical

Notes: Life Form: therophyte

***Scleria pergracilis* (Nees) Kunth**

Distribution: Paleotropical

Notes: Life Form: therophyte

***Scleria sphaerocarpa* (E.A.Rob.) Napper**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Zwarg 37 (FR)

***Scleria tessellata* Willd.**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007401)

Family Dioscoreaceae***Dioscorea bulbifera* L.**

Distribution: Pantropical

Notes: Life Form: geophyte; Voucher: Nacoulma 198 (OUA-13561)

***Dioscorea dumetorum* (Kunth) Pax**

Distribution: Pantropical

Notes: Life Form: geophyte; Voucher: Nacoulma (APPG-6817)

***Dioscorea hirtiflora* Benth.**

Distribution: Sudano-Zambesian

Notes: Life Form: geophyte; Voucher: Nacoulma (OUA-17127)

***Dioscorea sagittifolia* Pax**

Nomenclature:

Dioscorea lecardii De Wild.

Distribution: Sudanian

Notes: Life Form: geophyte; Voucher: Nacoulma 63 (OUA-13428)

***Tacca leontopetaloides* (L.) Kuntze**

Distribution: Paleotropical

Notes: Life Form: geophyte; Voucher: Georg Zizka (APPG-5658)

Family Dipterocarpaceae

***Monotes kerstingii* Gilg**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Thiombiano et al. 3306 (OUA)

Family Droseraceae

***Drosera indica* L.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Nacoulma 231 (OUA-17070)

Family Ebenaceae***Diospyros mespiliformis* Hochst. ex A.DC.**

Distribution: Paleotropical

Notes: Life Form: phanerophyte; Voucher: Schmidt et al. (FR-0007391)

Family Eriocaulaceae***Eriocaulon afzelianum* Wikstr. ex Körn.**

Distribution: Sudano-Zambesian

Notes: Life Form: hydrophyte; Voucher: Schumann (FR-0083279)

***Eriocaulon nigericum* Meikle**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte

***Eriocaulon plumale* N.E.Br.**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083278)

Family Euphorbiaceae***Acalypha ciliata* Forssk.**

Distribution: Paleotropical

Notes: Life Form: therophyte

***Acalypha segetalis* Müll.Arg.**

Distribution: Afrotropical

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083275)

***Alchornea cordifolia* (Schumach. & Thonn.) Müll.Arg.**

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma 4489 (OUA-17077)

***Caperonia serrata* (Turcz.) C.Presl**

Distribution: Sudanian

Notes: Life Form: therophyte

***Croton nigritanus* Scott-Elliot**

Distribution: Guineo-Congolian

Notes: Life Form: phanerophyte; Voucher: Nacoulma 197 (OUA-13560)

***Euphorbia бага* A.Chev.**

Distribution: Afrotropical

Notes: Life Form: geophyte; Voucher: Nacoulma (APPG-69981)

***Euphorbia convolvuloides* Hochst. ex Benth.**

Distribution: Sudanian

Notes: Life Form: therophyte

***Euphorbia hirta* L.**

Distribution: Pantropical

Notes: Life Form: therophyte

***Euphorbia poissoni* Pax**

Distribution: Guineo-Congolian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-69984)

***Euphorbia polycnemoides* Hochst. ex Boiss.**

Distribution: Sudanian

Notes: Life Form: therophyte

***Jatropha atacorensis* A.Chev.**

Distribution: Afrotropical

Notes: Life Form: geophyte; Voucher: Nacoulma (APPG-70120) ; New species record for Burkina Faso.

***Mallotus oppositifolius* (Geiseler) Müll.Arg.**

Distribution: Pluriregional African

Notes: Life Form: phanerophyte; Voucher: Schmidt et al. (FR-0007604)

***Tragia laminularis* Müll.Arg.**

Distribution: Sudanian

Notes: Life Form: geophyte; Voucher: Nacoulma 4857 (OUA-17347); New species record for Burkina Faso.

***Tragia senegalensis* Müll.Arg.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-70400)

Family Fabaceae***Abrus melanospermus* Hassk.**

Nomenclature:

Abrus pulchellus Wall. ex Thwaites

Distribution: Afrotropical

Notes: Life Form: chamaephyte; Voucher: Nacoulma 137 (OUA-13501)

***Abrus precatorius* L.**

Distribution: Paleotropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma 213 (OUA-13576)

***Acacia amythethophylla* Steud. ex A. Rich.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Nacoulma 4528 (OUA-17116)

***Acacia ataxacantha* DC.**

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte

***Acacia dudgeonii* Craib ex Holland**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Zwarg 93 (FR)

***Acacia erythrocalyx* Brenan**

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-69695)

***Acacia gerrardii* Benth.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Nacoulma 4518 (OUA-17083)

***Acacia gourmaensis* A. Chev.**

Distribution: Sudanian

Notes: Life Form: phanerophyte

***Acacia hockii* De Wild.**

Distribution: Pluriregional African

Notes: Life Form: phanerophyte; Voucher: Zwarg 99 (FR)

***Acacia macrostachya* Reichenb. ex DC.**

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Zwarg 67 (FR)

***Acacia nilotica* (L.) Willd. ex Delile**

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-69704)

***Acacia polyacantha* Willd.**

Distribution: Pluriregional African

Notes: Life Form: phanerophyte

***Acacia senegal* (L.) Willd.**

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte

***Acacia seyal* Delile**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Erpenbach (APPG-26909)

***Acacia sieberiana* DC.**

Distribution: Afrotropical

Notes: Life Form: phanerophyte

***Adenodolichos paniculatus* (Hua) Hutch. & Dalziel**

Distribution: Sudanian

Notes: Life Form: chamaephyte; Voucher: Nacoulma 167 (OUA-13531)

***Aeschynomene afraspera* J.Léonard**

Distribution: Pluriregional African

Notes: Life Form: therophyte

***Aeschynomene americana* L.**

Distribution: Cosmopolitan

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007492); New species record for Burkina Faso.

***Aeschynomene indica* L.**

Distribution: Paleotropical

Notes: Life Form: chamaephyte

***Aeschynomene sensitiva* Sw.**

Distribution: Afrotropical

Notes: Life Form: therophyte

***Aeschynomene tambacoundensis* Berhaut**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte

***Afzelia africana* Sm.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-69718)

***Albizia chevalieri* Harms**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Zwarg 113 (FR)

***Albizia malacophylla* (A.Rich.)Walp.**

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Nacoulma 138 (OUA-13502)

***Alysicarpus glumaceus* (Vahl) DC.**

Distribution: Pluriregional African

Notes: Life Form: therophyte

***Alysicarpus ovalifolius* (Schumach.) J. Léonard**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Zwarg 115 (FR)

***Alysicarpus rugosus* (Willd.) DC.**

Distribution: Afro-Malagasy

Notes: Life Form: therophyte

***Alysicarpus vaginalis* (L.) DC.**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Nacoulma 181 (OUA-13544); New species record for Burkina Faso.

***Andira inermis* (Wright) DC.**

Distribution: Sudanian

Notes: Life Form: phanerophyte

***Bobgunnia madagascariensis* (Desv.)J.H.Kirkbr. & Wiersema**

Nomenclature:

Swartzia madagascariensis Desv.

Distribution: Afro-Malagasy

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-69771)

***Burkea africana* Hook.**

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Zwarg 81 (FR)

***Cajanus kerstingii* Harms**

Distribution: Sudano-Zambesian

Notes: Life Form: chamaephyte

***Cassia absus* L.**

Distribution: Paleotropical

Notes: Life Form: chamaephyte; Voucher: Zwarg 23 (FR)

***Cassia mimosoides* L.**

Nomenclature:

Chamaecrista pratensis (R.Vig.)Du Puy

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Zwarg 13 (FR)

***Cassia nigricans* Vahl**

Distribution: Paleotropical

Notes: Life Form: therophyte

***Cassia obtusifolia* L.**

Distribution: Pantropical (introduced)

Notes: Life Form: therophyte

***Cassia sieberiana* DC.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Zwarg 56 (FR)

***Cassia singueana* Delile**

Distribution: Sudanian

Notes: Life Form: phanerophyte

***Crotalaria barkae* Schweinf.**

Distribution: Sudanian

Notes: Life Form: chamaephyte; Voucher: Nacoulma 29 (OUA-13394)

***Crotalaria calycina* Schrank**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Nacoulma 89 (OUA-13453)

***Crotalaria cephalotes* A.Rich.**

Distribution: Pantropical

Notes: Life Form: therophyte

***Crotalaria comosa* Baker**

Distribution: Guineo-Congolian-Sudano-Zambesian

Notes: Life Form: therophyte

***Crotalaria glauca* Willd.**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Nacoulma 55 (OUA-13420)

***Crotalaria goreensis* Guill. & Perr**

Distribution: Pluriregional African

Notes: Life Form: therophyte; Voucher: Zwarg 134 (FR)

***Crotalaria hyssopifolia* Klotzsch**

Distribution: Guineo-Congolian-Sudano-Zambesian

Notes: Life Form: chamaephyte; Voucher: Schumann (FR-0083259)

***Crotalaria lachnophora* A.Rich.**

Distribution: Pluriregional African

Notes: Life Form: therophyte; Voucher: Nacoulma 4890 (OUA-17359); New species record for Burkina Faso.

***Crotalaria lathyroides* Guill. & Perr.**

Distribution: Sudanian

Notes: Life Form: therophyte

***Crotalaria lepieurii* Guill. & Perr.**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Zwarg 35 (FR)

***Crotalaria macrocalyx* Benth.**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Nacoulma 7 (OUA-13377)

***Crotalaria microcarpa* Hochst. ex Benth.**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte

***Crotalaria naraqutensis* Hutch.**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007647)

***Crotalaria pallida* Aiton**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Nacoulma 77 (OUA-13441)

***Crotalaria podocarpa* DC.**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte

***Crotalaria retusa* L.**

Distribution: Pantropical

Notes: Life Form: chamaephyte; Voucher: Nacoulma (APPG-69877)

***Crotalaria senegalensis* (Pers.) Bacle ex DC.**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Nacoulma 163 (OUA-13527)

***Daniellia oliveri* (Rolfe) Hutch. & Dalziel**

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte

***Desmodium adscendens* (Sw.) DC.**

Distribution: Paleotropical (introduced)

Notes: Life Form: chamaephyte; Voucher: Zwarg 50 (FR)

***Desmodium gangeticum* (L.) DC.**

Distribution: Paleotropical

Notes: Life Form: chamaephyte; Voucher: Nacoulma 144 (OUA-13508)

***Desmodium hirtum* Guill. & Perr.**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Nacoulma 221 (OUA-13583)

***Desmodium ospriostreblum* Steud. ex A. Rich.**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Nacoulma 72 (OUA-13436)

***Desmodium ramosissimum* G. Don**

Distribution: Afro-Malagasy

Notes: Life Form: chamaephyte; Voucher: Nacoulma 5310 (OUA-17810); New species record for Burkina Faso.

***Desmodium setigerum* (E. Mey.) Harv.**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Nacoulma 5 (OUA-13375)

***Desmodium velutinum* (Willd.) DC.**

Distribution: Pantropical

Notes: Life Form: chamaephyte; Voucher: Schmidt et al. (FR-0007423)

***Detarium microcarpum* Guill. & Perr.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Zizka (APPG-5662)

***Dichrostachys cinerea* (L.) Wight & Arn.**

Distribution: Pantropical

Notes: Life Form: phanerophyte; Voucher: Zwarg 130 (FR)

***Entada africana* Guill. & Perr.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Zwarg 89 (FR)

***Eriosema psoraloides* (Lam.) G. Don**

Distribution: Pantropical

Notes: Life Form: chamaephyte

***Erythrina senegalensis* DC.**

Distribution: Guineo-Congolian-Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-69951)

***Indigofera bracteolata* DC.**

Distribution: Sudanian

Notes: Life Form: chamaephyte; Voucher: Nacoulma 78 (OUA-13442)

***Indigofera congolensis* De Wild. & T.Durand**

Distribution: Afrotropical

Notes: Life Form: therophyte; Voucher: Zwarg 26 (FR)

***Indigofera dendroides* Jacq.**

Distribution: Afrotropical

Notes: Life Form: therophyte; Voucher: Nacoulma 30 (OUA-13395)

***Indigofera garckeana* Vatke**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Nacoulma (APPG-70072); New species record for Burkina Faso.

***Indigofera geminata* Baker**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Zwarg 11 (FR)

***Indigofera hirsuta* L.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Nacoulma 4635 (OUA-17191)

***Indigofera kerstingii* Harms**

Distribution: Guineo-Congolian

Notes: Life Form: therophyte; Voucher: Nacoulma 236 (OUA-17224)

***Indigofera lepreurii* Baker f.**

Distribution: Sudanian

Notes: Life Form: therophyte

***Indigofera macrocalyx* Guill. & Perr.**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007484)

***Indigofera microcarpa* Desv.**

Distribution: Afro-Malagasy (introduced)

Notes: Life Form: therophyte

***Indigofera nummulariifolia* (L.) Alston**

Distribution: Pluriregional African

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083355)

***Indigofera paniculata* Pers.**

Distribution: Afrotropical

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007381)

***Indigofera polysphaera* Baker**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Schumann (FR-0083243)

***Indigofera pulchra* Willd.**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte

***Indigofera secundiflora* Poir.**

Distribution: Paleotropical

Notes: Life Form: chamaephyte

***Indigofera senegalensis* Lam.**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Nacoulma 42 (OUA-13407)

***Indigofera simplicifolia* Lam.**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Nacoulma 43 (OUA-13408)

***Indigofera stenophylla* Guill. & Perr.**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Zwarg 59 (FR)

***Indigofera tinctoria* L.**

Distribution: Paleotropical

Notes: Life Form: chamaephyte; Voucher: Schumann (FR-0083240)

***Indigofera trita* L.f.**

Nomenclature:

Indigofera subulata Vahl ex Poir.

Distribution: Afrotropical

Notes: Life Form: chamaephyte

***Isoberlinia doka* Craib & Stapf**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Zwarg 128 (FR)

***Macrotyloma biflorum* (Schumach. & Thonn.) Hepper**

Distribution: Pluriregional African

Notes: Life Form: therophyte; Voucher: Nacoulma 68 (OUA-13432)

***Melliniella micrantha* Harms**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Zwarg 24 (FR)

***Mimosa pigra* L.**

Distribution: Pantropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-70218)

***Neptunia oleracea* Lour.**

Distribution: Pantropical

Notes: Life Form: hydrophyte; Voucher: Georg Zizka (APPG-3861)

***Parkia biglobosa* (Jacq.)G.Don**

Distribution: Paleotropical

Notes: Life Form: phanerophyte; Voucher: Schumann (APPG-2030)

***Pericopsis laxiflora* (Baker)Meeuwen**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Nacoulma 10 (OUA-13380)

***Philenoptera laxiflora* (Guill. & Perr.)Roberty**

Distribution: Pluriregional African

Notes: Life Form: phanerophyte; Voucher: Schumann (APPG-1663)

***Piliostigma reticulatum* (DC.)Hochst.**

Distribution: Sudanian

Notes: Life Form: phanerophyte

***Piliostigma thonningii* (Schum.)Milne-Redh.**

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Schumann (APPG-2124)

***Prosopis africana* (Guill. & Perr.)Taub.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Zwarg 96 (FR)

***Pterocarpus erinaceus* Poir.**

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Zwarg 133 (FR)

***Rhynchosia densiflora* (Roth)DC.**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Nacoulma 188 (OUA-13551)

***Rhynchosia minima* (L.) DC.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Nacoulma 56 (OUA-13421)

***Rhynchosia nyasica* Baker**

Distribution: Sudano-Zambesian

Notes: Life Form: chamaephyte; Voucher: Schumann (FR-0083236)

***Rhynchosia sublobata* (Schum.)Meikle**

Distribution: Pluriregional African

Notes: Life Form: chamaephyte

***Sesbania sesban* (L.) Fawc. & Rendle**

Distribution: Paleotropical

Notes: Life Form: phanerophyte

***Stylosanthes erecta* P.Beauv.**

Distribution: Afrotropical

Notes: Life Form: chamaephyte; Voucher: Zwarg 114 (FR)

***Tamarindus indica* L.**

Distribution: Pantropical

Notes: Life Form: phanerophyte; Voucher: Schumann (APPG-2554)

***Tephrosia bracteolata* Guill. & Perr.**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Zwarg 63 (FR)

***Tephrosia elegans* Schumach.**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Nacoulma 53 (OUA-13418)

***Tephrosia gracilipes* Guill. & Perr.**

Distribution: Sudanian

Notes: Life Form: therophyte

***Tephrosia humilis* Guill. & Perr.**

Distribution: Sudanian

Notes: Life Form: therophyte

***Tephrosia linearis* (Willd.)Pers.**

Distribution: Afro-Malagasy

Notes: Life Form: therophyte; Voucher: Nacoulma 103 (OUA-13467)

***Tephrosia nana* Schweinf.**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007624)

***Tephrosia pedicellata* Baker**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Georg Zizka (APPG-3897)

***Tephrosia platycarpa* Guill. & Perr.**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Zwarg 74 (FR)

***Teramnus labialis* (L.f.) Spreng.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007466)

***Uraria picta* (Jacq.) Desv.**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Nacoulma (APPG-70403)

***Vigna filicaulis* Hepper**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083229)

***Vigna gracilis* (Guill. & Perr.) Hook.f.**

Distribution: Pluriregional African

Notes: Life Form: therophyte; Voucher: Nacoulma 4511 (OUA-17090)

***Vigna heterophylla* A.Rich.**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Nacoulma 37 (OUA-13402)

***Vigna nigrizia* Hook.f.**

Distribution: Pluriregional African

Notes: Life Form: therophyte; Voucher: Nacoulma 4526 (OUA-17118); New species record for Burkina Faso.

***Vigna racemosa* (G.Don) Hutch. & Dalziel**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Nacoulma 218 (OUA-13580)

***Vigna reticulata* Hook.f.**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte

***Vigna vexillata* (L.) A.Rich.**

Distribution: Afro-Malagasy

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007386)

***Xeroderris stuhlmannii* (Taub.) Mendonça & E.C. Sousa**

Nomenclature:

Aganope stuhlmannii (Taub.) Adema

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-70437)

***Zornia glochidiata* DC.**

Distribution: Afrotropical

Notes: Life Form: therophyte; Voucher: Zwarg 41 (FR)

Family Gentianaceae***Canscora diffusa* (Vahl) R.Br. ex Roem. & Schult.**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Nacoulma 105 (OUA-13469)

***Faroea pusilla* Baker**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Nacoulma 4535 (OUA-17241)

Family Hydrocharitaceae***Ottelia ulvifolia* (Planch.) Walp.**

Distribution: Afro-Malagasy

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007433)

Family Hydroleaceae

Hydrolea macrosepala A.W.Benn.

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte

Family Hypericaceae

Psorospermum glaberrimum Hochr.

Distribution: Sudanian

Notes: Life Form: phanerophyte

Family Hypoxidaceae

Curculigo pilosa (Schumach. & Thonn.) Engl.

Distribution: Afro-Malagasy

Notes: Life Form: geophyte; Voucher: Nacoulma (APPG-69892)

Family Iridaceae

Gladiolus dalenii Van Geel

Distribution: Sudano-Zambesian

Notes: Life Form: geophyte; Voucher: Nacoulma 26 (OUA-13392)

Gladiolus gregarius Welw. ex Baker

Nomenclature:

Gladiolus klattianus Hutch.

Distribution: Sudano-Zambesian

Notes: Life Form: geophyte; Voucher: Nacoulma 69 (OUA-13433)

Gladiolus unguiculatus Baker

Distribution: Pluriregional African

Notes: Life Form: geophyte; Voucher: Nacoulma (APPG-70039); New species record for Burkina Faso.

Family Isoetaceae***Isoetes nigrifolia* A. Braun**

Distribution: Sudano-Zambesian

Notes: Life Form: hemicryptophyte

Family Lamiaceae***Aeollanthus pubescens* Benth.**

Distribution: Pluriregional African

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083218)

***Clerodendrum capitatum* (Willd.) Schumach. & Thonn.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Zizka (APPG-5665)

***Gmelina arborea* Roxb.**

Distribution: Cultivated

Notes: Life Form: phanerophyte

***Hoslundia opposita* Vahl**

Distribution: Afro-Malagasy

Notes: Life Form: phanerophyte; Voucher: Nacoulma 238 (OUA-17236)

***Hyptis spicigera* Lam.**

Distribution: Pantropical (introduced)

Notes: Life Form: therophyte; Voucher: Zwarg 18 (FR)

***Hyptis suaveolens* (L.) Poit.**

Distribution: Pantropical (introduced)

Notes: Life Form: therophyte

***Lantana ukambensis* (Vatke) Verdc.**

Distribution: Sudanian

Notes: Life Form: geophyte; Voucher: Nacoulma (APPG-70160)

***Leonotis nepetifolia* (L.) R.Br.**

Distribution: Pluriregional African

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007627)

***Leucas martinicensis* (Jacq.) R.Br.**

Distribution: Pantropical

Notes: Life Form: therophyte

***Lippia chevalieri* Moldenke**

Distribution: Sudanian

Notes: Life Form: geophyte; Voucher: Nacoulma (APPG-70181)

***Ocimum americanum* L.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083214)

***Platostoma africanum* P.Beauv.**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Zwarg 84 (FR)

***Plectranthus gracillimus* (T.C.E.Fr.) Hutch. & Dandy**

Nomenclature:

Englerastrum gracillimum T.C.E.Fr.

Distribution: Sudanian

Notes: Life Form: therophyte

Plectranthus monostachyus* (P.Beauv.) B.J.Pollard*Nomenclature:**

Solenostemon monostachyus (P.Beauv.) Briq.

Distribution: Afrotropical

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083212)

***Tinnea barteri* Gürke**

Distribution: Sudanian

Notes: Life Form: chamaephyte; Voucher: Nacoulma 80 (OUA-13444)

***Vitex chrysocarpa* Planch.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Nacoulma 47 (OUA-13412)

***Vitex doniana* Sweet**

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-70433)

***Vitex madiensis* Oliv.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Katharina Schumann (APPG-2848)

Family Lentibulariaceae***Utricularia inflexa* Forssk.**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Nacoulma 4488 (OUA-17066)

***Utricularia stellaris* L.f.**

Distribution: Paleotropical

Notes: Life Form: hydrophyte; Voucher: Zizka (APPG-3900)

Family Linderniaceae

Lindernia exilis Philcox

Nomenclature:

Ilysanthes gracilis Skan

Distribution: Sudanian

Notes: Life Form: therophyte

Family Loganiaceae

Strychnos innocua Delile

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-70379)

Strychnos spinosa Lam.

Distribution: Afro-Malagasy

Notes: Life Form: phanerophyte; Voucher: Katharina Schumann (APPG-2530)

Family Loranthaceae

Agelanthus dodoneifolius (DC.) Polhill & Wiens

Nomenclature:

Tapinanthus dodoneifolius (DC.) Danser

Distribution: Sudanian

Notes: Life Form: epiphyte

Tapinanthus bangwensis (Engl. & K.Krause) Danser

Distribution: Guineo-Congolian

Notes: Life Form: epiphyte; Voucher: Nacoulma (APPG-6855)

Tapinanthus globiferus (A.Rich.) Tiegh.

Distribution: Afrotropical

Notes: Life Form: phanerophyte

Family Lythraceae***Ammannia auriculata* Willd.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007399)

***Ammannia baccifera* L.**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Nacoulma 4485 (OUA-17063)

***Ammannia senegalensis* Lam.**

Distribution: Sudanian

Notes: Life Form: therophyte

***Rotala stagnina* Hiern**

Distribution: Sudano-Zambesian

Notes: Life Form: hemicytrophite; Voucher: Nacoulma 4486 (OUA-17064)

Family Malvaceae***Abutilon pannosum* (G.Forst.) Schltld.**

Distribution: Paleotropical

Notes: Life Form: chamaephyte; Voucher: Schumann (FR-0083206)

***Abutilon ramosum* (Cav.) Guill. & Perr.**

Distribution: Sudano-Zambesian

Notes: Life Form: chamaephyte

***Adansonia digitata* L.**

Distribution: Pluriregional African

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-69709)

***Bombax costatum* Pellegr. & Vuillet**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-69773)

***Cienfuegosia heteroclada* Sprague**

Distribution: Sudanian

Notes: Life Form: chamaephyte; Voucher: Nacoulma 83 (OUA-13447)

***Cola laurifolia* Mast.**

Distribution: Guineo-Congolian-Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Nacoulma 132 (OUA-13496)

***Corchorus fascicularis* Lam.**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Nacoulma 196 (OUA-13559)

***Corchorus olitorius* L.**

Distribution: Paleotropical

Notes: Life Form: therophyte

***Corchorus tridens* L.**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Nacoulma 40 (OUA-13405)

***Dombeya quinqueseta* (Delile) Exell**

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-6818)

***Grewia barteri* Burret**

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-70052)

***Grewia bicolor* Juss.**

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Schumann (APPG-1370)

***Grewia cissoides* Hutch. & Dalziel**

Distribution: Sudanian

Notes: Life Form: chamaephyte; Voucher: Zwarg 122 (FR)

***Grewia flavescens* Juss.**

Distribution: Paleotropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma 179 (OUA-13542)

***Grewia lasiodiscus* K.Schum.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Zwarg 109 (FR)

***Grewia mollis* Juss.**

Distribution: Pluriregional African

Notes: Life Form: phanerophyte; Voucher: Nacoulma 200 (OUA-13563)

***Grewia villosa* Willd.**

Distribution: Paleotropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-70059)

***Hibiscus cannabinus* L.**

Nomenclature:

Hibiscus asper Hook.f.

Distribution: Cultivated

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007392)

***Hibiscus congestiflorus* Hochr.**

Distribution: Sudanian

Notes: Life Form: therophyte

***Hibiscus physaloides* Guill. & Perr.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Schmidt et al. (FR-0007629)

***Hibiscus squamosus* Hochr.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Nacoulma 34 (OUA-13399)

***Kosteletzkya buettneri* Gürke**

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (OUA-17144)

***Melochia corchorifolia* L.**

Distribution: Paleotropical

Notes: Life Form: chamaephyte

***Sida acuta* Burm.f.**

Distribution: Pantropical

Notes: Life Form: chamaephyte; Voucher: Katharina Schumann (APPG-3885)

***Sida alba* Cav.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Zwarg 48 (FR)

***Sida linifolia* Juss. ex Cav.**

Distribution: Afro-American

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083202)

***Sida rhombifolia* L.**

Distribution: Pantropical

Notes: Life Form: chamaephyte; Voucher: Nacoulma 82 (OUA-13446)

***Sida urens* L.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Nacoulma 44 (OUA-13409)

***Sterculia setigera* Delile**

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Schmidt et al. (FR-0007476)

***Triumfetta rhomboidea* Jacq.**

Distribution: Pantropical

Notes: Life Form: chamaephyte; Voucher: Zwarg 20 (FR)

***Waltheria indica* L.**

Distribution: Pantropical

Notes: Life Form: chamaephyte; Voucher: Zwarg 19 (FR)

***Wissadula rostrata* (Schumach. & Thonn.) Planch.**

Nomenclature:

Wissadula amplissima (L.) R.E.Fr.

Distribution: Afro-American

Notes: Life Form: phanerophyte; Voucher: Zwarg 22 (FR)

Family Marantaceae***Thalia geniculata* L.**

Distribution: Pluriregional African

Notes: Life Form: geophyte; Voucher: Schmidt et al. (FR-0007382)

Family Marsileaceae***Marsilea minuta* L.**

Distribution: Afro-Malagasy

Notes: Life Form: hemicryptophyte

***Marsilea polycarpa* Hook. & Grev.**

Distribution: Pantropical

Notes: Life Form: hemicryptophyte; Voucher: Nacoulma 4510 (OUA-17091)

Family Martyniaceae

***Martynia annua* L.**

Distribution: Pluriregional African (introduced)

Notes: Life Form: therophyte; Voucher: Zizka (APPG-3856)

Family Meliaceae

***Azadirachta indica* A.Juss.**

Distribution: Paleotropical (introduced)

Notes: Life Form: phanerophyte

***Khaya senegalensis* (Desv.) A.Juss.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Zwarg 104 (FR)

***Pseudocedrela kotschy* (Schweinf.) Harms**

Distribution: Sudanian

Notes: Life Form: phanerophyte

***Trichilia emetica* Vahl**

Distribution: Pantropical

Notes: Life Form: phanerophyte

Family Molluginaceae

***Glinus lotoides* L.**

Distribution: Pantropical

Notes: Life Form: hemicryptophyte; Voucher: Nacoulma 176 (OUA-13540)

***Mollugo nudicaulis* Lam.**

Distribution: Paleotropical

Notes: Life Form: therophyte

Family Moraceae***Ficus abutilifolia* (Miq.) Miq.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Schmidt et al. (FR-0007478)

***Ficus asperifolia* Miq.**

Distribution: Afrotropical

Notes: Life Form: phanerophyte

***Ficus glumosa* Delile**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Zwarg 125 (FR)

***Ficus ingens* (Miq.) Miq.**

Distribution: Pluriregional African

Notes: Life Form: phanerophyte; Voucher: Nacoulma 161 (OUA-13525)

***Ficus platyphylla* Delile**

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-69996)

***Ficus sur* Forssk.**

Distribution: Afrotropical

Notes: Life Form: phanerophyte

***Ficus sycomorus* L.**

Distribution: Afrotropical

Notes: Life Form: phanerophyte

Family Myrtaceae

Syzygium guineense (Willd.) DC.

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Vouchernomenc: Nacoulma 152 (OUA-13516)

Family Nyctaginaceae

Boerhavia erecta L.

Distribution: Cosmopolitan

Notes: Life Form: therophyte; Voucher: Nacoulma 174 (OUA-13538)

Family Nymphaeaceae

Nymphaea lotus L.

Distribution: Paleotropical

Notes: Life Form: geophyte; Voucher: Nacoulma (APPG-70246)

Nymphaea maculata Schumach. & Thonn.

Distribution: Afro-American

Notes: Life Form: geophyte; Voucher: Nacoulma (APPG-70253)

Nymphaea micrantha Guill. & Perr.

Distribution: Guineo-Congolian-Sudano-Zambesian

Notes: Life Form: geophyte; Voucher: Nacoulma 205 (OUA-13568)

Family Ochnaceae

Ochna schweinfurthiana F.Hoffm.

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Nacoulma 15 (OUA-13386)

Family Oleaceae***Jasminum obtusifolium* Baker**

Distribution: Sudanian

Notes: Life Form: phanerophyte

Family Onagraceae***Ludwigia erecta* (L.) H.Hara**

Distribution: Afro-Malagasy (introduced)

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083198)

***Ludwigia hyssopifolia* (G.Don) Exell**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083197)

***Ludwigia octovalvis* (Jacq.) P.H.Raven**

Distribution: Pluriregional African

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083245)

Family Ophioglossaceae***Ophioglossum costatum* R. Br.**

Distribution: Sudano-Zambesian

Notes: Life Form: geophyte; Voucher: Nacoulma 246 (OUA-17234)

***Ophioglossum reticulatum* L.**

Distribution: Pantropical

Notes: Life Form: geophyte; Voucher: Zizka (APPG-3435)

***Ophioglossum thomasi* R.T. Clausen**

Distribution: Sudano-Zambesian

Notes: Life Form: geophyte; Voucher: Nacoulma 230 (OUA-17238); New species record for Burkina Faso.

Family Opiliaceae

Opilia amentacea Roxb.

Distribution: Paleotropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-70274)

Family Orchidaceae

Eulophia cucullata (Afzel. ex Sw.) Steud.

Distribution: Sudanian

Notes: Life Form: geophyte; Voucher: Nacoulma (APPG-69956)

Eulophia guineensis Lindl.

Distribution: Guineo-Congolian

Notes: Life Form: geophyte; Voucher: Nacoulma (APPG-69975)

Habenaria longirostris Summerh.

Distribution: Sudanian

Notes: Life Form: geophyte; Voucher: Schmidt (APPG-3361)

Nervilia bicarinata (Blume) Schltr.

Distribution: Afro-Malagasy

Notes: Life Form: geophyte; Voucher: Nacoulma (APPG-70240)

Family Orobanchaceae

Buchnera hispida Buch.-Ham. ex D. Don

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Zwarg 110 (FR)

***Micrargeria filiformis* (Schumach. & Thonn.) Hutch. & Dalziel**

Distribution: Sudanian

Notes: Life Form: therophyte

***Rhamphicarpa fistulosa* (Hochst.) Benth.**

Distribution: Pluriregional African

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083126)

***Sopubia ramosa* (Hochst.) Hochst.**

Distribution: Afrotropical

Notes: Life Form: phanerophyte

***Striga asiatica* (L.) Kuntze**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Zwarg 3 (FR)

***Striga aspera* Benth.**

Distribution: Sudano-Zambesian

Notes: Life Form: chamaephyte; Voucher: Zwarg 6 (FR)

***Striga baumannii* Engl.**

Distribution: Afrotropical

Notes: Life Form: hemicryptophyte; Voucher: Nacoulma 4544 (OUA-17150)

***Striga brachycalyx* Skan**

Distribution: Sudano-Zambesian

Notes: Life Form: chamaephyte; Voucher: Schumann (FR-0083125)

***Striga forbesii* Benth.**

Distribution: Afrotropical

Notes: Life Form: therophyte

***Striga gesnerioides* (Willd.) Vatke**

Distribution: Paleotropical

Notes: Life Form: chamaephyte

***Striga hermonthica* (Delile) Benth.**

Distribution: Afro-Malagasy

Notes: Life Form: chamaephyte; Voucher: Nacoulma 4576 (OUA-17163)

***Striga klingii* (Engl.) Skan**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Nacoulma 4531 (OUA-17113)

***Striga macrantha* (Benth.) Benth.**

Distribution: Pluriregional African

Notes: Life Form: therophyte; Voucher: Nacoulma 4483 (OUA-17061)

***Striga passargei* Engl.**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083124)

Family Oxalidaceae

***Biophytum umbraculum* Welw.**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Nacoulma 4606 (OUA-17170)

Family Passifloraceae

***Passiflora foetida* L.**

Distribution: Pantropical (introduced)

Notes: Life Form: phanerophyte; Voucher: Katharina Schumann (APPG-2045)

***Triliceras pilosum* (Willd.) R.Fern.**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Katharina Schumann (APPG-5700)

Family Pedaliaceae***Ceratotheca sesamoides* Endl.**

Distribution: Sudano-Zambesian

Notes: Life Form: chamaephyte; Voucher: Nacoulma (APPG-69793)

Family Phyllanthaceae***Antidesma venosum* E.Mey. ex Tul.**

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Schmidt et al. (FR-0007657)

***Bridelia ferruginea* Benth.**

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte

***Bridelia scleroneura* Müll.Arg.**

Distribution: Afro-Malagasy

Notes: Life Form: phanerophyte; Voucher: Zwarg 123 (FR)

***Flueggea virosa* (Roxb. ex Willd.) Royle**

Distribution: Paleotropical

Notes: Life Form: phanerophyte; Voucher: Zwarg 86 (FR)

***Hymenocardia acida* Tul.**

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Schmidt et al. (FR-0007427)

***Margaritaria discoidea* (Baill.) G.L.Webster**

Distribution: Pluriregional African

Notes: Life Form: phanerophyte; Voucher: Nacoulma 92 (OUA-13456)

***Phyllanthus amarus* Schumach. & Thonn.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Zwarg 53 (FR)

Family Piperaceae

***Peperomia pellucida* (L.) Kunth**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Nacoulma (APPG-70317)

Family Plantaginaceae

***Bacopa crenata* (P.Beauv.) Hepper**

Distribution: Afro-Malagasy

Notes: Life Form: therophyte; Voucher: Nacoulma 4621 (OUA-17203)

***Bacopa floribunda* (R.Br.) Wettst.**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Nacoulma 258 (OUA-17217)

***Bacopa hamiltoniana* (Benth.) Wettst.**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Küppers 464 (FR-0035808)

***Dopatrium longidens* Skan**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Nacoulma 58 (OUA-13423)

***Dopatrium senegalense* Benth.**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Nacoulma (APPG-69943)

***Scoparia dulcis* L.**

Distribution: Pluriregional African (introduced)

Notes: Life Form: therophyte

Family Plumbaginaceae***Plumbago zeylanica* L.**

Distribution: Paleotropical (introduced)

Notes: Life Form: phanerophyte; Voucher: Schumann (FR-0083193)

Family Poaceae***Acroceras amplexans* Stapf**

Distribution: Pluriregional African

Notes: Life Form: chamaephyte

***Acroceras zizanioides* (Kunth) Dandy**

Distribution: Pantropical

Notes: Life Form: chamaephyte

***Anadelphia afzeliana* (Rendle) Stapf**

Distribution: Sudano-Zambesian

Notes: Life Form: hemicryptophyte; Voucher: Nacoulma 4548 (OUA-17146)

***Andropogon chinensis* (Nees) Merr.**

Nomenclature:

Andropogon ascinodis C.B. Clarke

Distribution: Paleotropical

Notes: Life Form: hemicryptophyte; Voucher: Nacoulma 4516 (OUA-17085)

***Andropogon fastigiatus* Sw.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Zwarg 46 (FR)

***Andropogon gayanus* Kunth**

Distribution: Sudanian

Notes: Life Form: hemicryptophyte; Voucher: Nacoulma 4610 (OUA-17166)

***Andropogon pseudapricus* Stapf**

Distribution: Afro-American

Notes: Life Form: therophyte; Voucher: Nacoulma 4537 (OUA-17108)

***Andropogon schirensis* Hochst.**

Distribution: Pluriregional African

Notes: Life Form: hemicryptophyte; Voucher: Nacoulma 182 (OUA-13545)

***Andropogon tectorum* Schumach. & Thonn.**

Distribution: Sudanian

Notes: Life Form: hemicryptophyte; Voucher: Nacoulma 4501 (OUA-17100)

***Aristida adscensionis* L.**

Distribution: Pantropical

Notes: Life Form: therophyte

***Aristida hordeacea* Kunth**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte

***Aristida kerstingii* Pilg.**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Nacoulma 4581 (OUA-17158)

***Brachiaria deflexa* (Schumach.) C.E.Hubb. ex Robyns**

Distribution: Paleotropical

Notes: Life Form: therophyte

***Brachiaria falcifera* (Trin. ex Nees) Stapf**

Distribution: Sudanian

Notes: Life Form: hemicryptophyte; Voucher: Schumann (FR-0083189)

***Brachiaria lata* (Schumach.) C.E.Hubb.**

Distribution: Paleotropical

Notes: Life Form: therophyte

***Brachiaria serrata* (Thunb.) Stapf**

Distribution: Afrotropical

Notes: Life Form: hemicryptophyte; Voucher: Nacoulma (OUA-17186)

***Brachiaria stigmatisata* (Mez) Stapf**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083187)

***Brachiaria villosa* (Lam.) A.Camus**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Zwarg 27 (FR)

***Chasmopodium caudatum* (Hack.) Stapf**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte

***Chloris gayana* Kunth**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Nacoulma (OUA-17319); New species record for Burkina Faso

***Chloris pilosa* Schumach. & Thonn.**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte

***Chrysopogon nigritanus* (Benth.) Veldkamp**

Distribution: Sudano-Zambesian

Notes: Life Form: hemicryptophyte

***Ctenium elegans* Kunth**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Zwarg 1 (FR)

***Ctenium newtonii* Hack.**

Distribution: Afrotropical

Notes: Life Form: hemicryptophyte

***Ctenium villosum* Berhaut**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Küppers 458 (FR-0015111)

***Cymbopogon caesius* (Nees ex Hook. & Arn.) Stapf**

Distribution: Afrotropical

Notes: Life Form: hemicryptophyte; Voucher: Schmidt et al. (FR-0007430)

***Cymbopogon schoenanthus* (L.) Spreng.**

Distribution: Pantropical

Notes: Life Form: hemicryptophyte; Voucher: Nacoulma 4599 (OUA-17177)

***Cynodon dactylon* (L.) Pers.**

Distribution: Sudano-Zambesian

Notes: Life Form: hemicryptophyte

***Digitaria gayana* (Kunth) A.Chev.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Zwarg 44 (FR)

***Digitaria horizontalis* Willd.**

Distribution: Afrotropical

Notes: Life Form: therophyte

***Diheteropogon amplectens* (Nees) Clayton**

Distribution: Pantropical

Notes: Life Form: hemicryptophyte

***Echinochloa colona* (L.) Link**

Distribution: Pantropical

Notes: Life Form: therophyte

***Echinochloa pyramidalis* (Lam.) Hitchc. & Chase**

Distribution: Afro-American

Notes: Life Form: hemicryptophyte; Voucher: Schmidt et al. (FR-0007578)

***Echinochloa stagnina* (Retz.) P.Beauv.**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007406)

***Eleusine indica* (L.) Gaertn.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083175)

***Elionurus ciliaris* Kunth**

Nomenclature:

Elionurus pobeguinii Stapf

Distribution: Sudanian

Notes: Life Form: hemicryptophyte; Voucher: Nacoulma (OUA-17123)

***Elionurus elegans* Kunth**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte

***Elymandra androphila* (Stapf) Stapf**

Distribution: Sudano-Zambesian

Notes: Life Form: hemicryptophyte

***Elytrophorus spicatus* (Willd.) A.Camus**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007405)

***Eragrostis amabilis* (L.) Wight & Arn.**

Nomenclature:

Eragrostis tenella (L.) P.Beauv. ex Roem. & Schult.

Distribution: Paleotropical

Notes: Life Form: therophyte

***Eragrostis ciliaris* (L.) R.Br.**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083172)

***Eragrostis pilosa* (L.) P.Beauv.**

Distribution: Cosmopolitan

Notes: Life Form: therophyte

***Eragrostis tremula* Hochst. ex Steud.**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Zwarg 111 (FR)

***Eragrostis turgida* (Schumach.) De Wild.**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Zwarg 28 (FR)

***Euclasta condylotricha* (Steud.) Stapf**

Distribution: Pantropical

Notes: Life Form: therophyte

***Hackelochloa granularis* (L.) Kuntze**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Zwarg 33 (FR)

***Heteropogon contortus* (L.) P.Beauv. ex Roem. & Schult.**

Distribution: Pantropical

Notes: Life Form: hemicryptophyte; Voucher: Nacoulma (APPG-70065)

***Hyparrhenia cyanescens* (Stapf) Stapf**

Distribution: Guineo-Congolian

Notes: Life Form: hemicryptophyte; Voucher: Nacoulma 202 (OUA-13565)

***Hyparrhenia diplandra* (Hack.) Stapf**

Distribution: Pluriregional African

Notes: Life Form: hemicryptophyte

***Hyparrhenia glabriuscula* (Hochst. ex A.Rich.) Andersson ex Stapf**

Distribution: Sudano-Zambesian

Notes: Life Form: hemicryptophyte; Voucher: Schumann (FR-0083165)

***Hyparrhenia involucrata* Stapf**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Nacoulma 4547 (OUA-17147)

***Hyparrhenia rufa* (Nees) Stapf**

Distribution: Pantropical

Notes: Life Form: hemicryptophyte; Voucher: Schmidt et al. 6111 (FR-0116607)

***Hyparrhenia smithiana* (Hook.f.) Stapf**

Distribution: Sudanian

Notes: Life Form: hemicryptophyte; Voucher: Nacoulma 186 (OUA-13549)

***Hyparrhenia subplumosa* Stapf**

Distribution: Sudano-Zambesian

Notes: Life Form: hemicryptophyte; Voucher: Nacoulma 4532 (OUA-17112)

***Hyperthelia dissoluta* (Nees ex Steud.) Clayton**

Distribution: Afro-American

Notes: Life Form: hemicryptophyte

***Imperata cylindrica* (L.) Raeusch.**

Distribution: Afro-Malagasy

Notes: Life Form: geophyte

***Loudetia flavida* (Stapf) C.E.Hubb.**

Distribution: Afro-American

Notes: Life Form: therophyte; Voucher: Nacoulma 1 (OUA-13370)

***Loudetia simplex* (Nees) C.E.Hubb.**

Distribution: Sudano-Zambesian

Notes: Life Form: hemicryptophyte; Voucher: Nacoulma 4549 (OUA-17145)

***Loudetia togoensis* (Pilg.) C.E.Hubb.**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Nacoulma 4553 (OUA-17140)

***Loudetiopsis kerstingii* (Pilg.) Conert**

Distribution: Afrotropical

Notes: Life Form: hemicryptophyte; Voucher: Schumann (FR-0083162)

***Loxodera ledermannii* (Pilg.) Launert**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Nacoulma (APPG-70183); New species record for Burkina Faso.

***Microchloa indica* (L.f.) P.Beauv.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Zwarg 14 (FR)

***Monocymbium cerasiiforme* (Nees) Stapf**

Distribution: Pluriregional African

Notes: Life Form: hemicryptophyte; Voucher: Schumann (FR-0083163)

***Oropetium aristatum* (Stapf) Pilg.**

Distribution: Sudano-Zambesian

Notes: Life Form: hemicryptophyte; Voucher: Schumann (FR-0083161)

***Oryza longistaminata* A.Chev.& Roehr.**

Distribution: Afro-Malagasy

Notes: Life Form: hemicryptophyte; Voucher: Schumann (FR-0083160)

***Oxytenanthera abyssinica* (A.Rich.) Munro**

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte

***Panicum anabaptistum* Steud.**

Distribution: Sudanian

Notes: Life Form: hemicryptophyte; Voucher: Schmidt et al. (FR-0007417)

***Panicum fluvicola* Steud.**

Distribution: Pluriregional African

Notes: Life Form: hemicryptophyte; Voucher: Nacoulma 216 (OUA-13579)

***Panicum humile* Steud.**

Nomenclature:

Panicum walense Mez

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007407)

***Panicum maximum* Jacq.**

Distribution: Pantropical

Notes: Life Form: hemicryptophyte

***Panicum pansum* Rendle**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Zwarg 25 (FR)

***Panicum phragmitoides* Stapf**

Distribution: Sudanian

Notes: Life Form: hemicryptophyte

***Paspalum scrobiculatum* L.**

Distribution: Paleotropical

Notes: Life Form: hemicryptophyte; Voucher: Katharina Schumann (APPG-3868)

***Pennisetum pedicellatum* Trin.**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Zwarg 39 (FR)

***Pennisetum polystachion* (L.) Schult.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Zwarg 51 (FR)

***Pennisetum unisetum* (Nees) Benth.**

Nomenclature:

Beckeropsis uniseta (Nees) K.Schum.

Distribution: Sudano-Zambesian

Notes: Life Form: hemicryptophyte

***Pennisetum violaceum* (Lam.) Rich.**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Nacoulma (APPG-70314)

***Rhynchne triaristata* (Steud.) Stapf**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083156)

***Rottboellia cochinchinensis* (Lour.) Clayton**

Distribution: Pantropical

Notes: Life Form: therophyte

***Sacciolepis africana* C.E.Hubb. & Snowden**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083154)

***Sacciolepis ciliocincta* (Pilg.) Stapf**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte

***Sacciolepis micrococca* Mez**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083153)

***Schizachyrium brevifolium* (Sw.) Buse**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007400)

***Schizachyrium exile* (Hochst.) Pilg.**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083150)

***Schizachyrium nodulosum* (Hack.) Stapf**

Distribution: Pluriregional African

Notes: Life Form: therophyte

***Schizachyrium platyphyllum* (Franch.) Stapf**

Distribution: Sudanian

Notes: Life Form: therophyte

***Schizachyrium ruderale* Clayton**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083149)

***Schizachyrium rupestre* (K.Schum.) Stapf**

Distribution: Sudanian

Notes: Life Form: hemicryptophyte; Voucher: Schmidt et al. (FR-0007480)

***Schizachyrium sanguineum* (Retz.) Alston**

Distribution: Pantropical

Notes: Life Form: hemicryptophyte

***Schizachyrium urceolatum* (Hack.) Stapf**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083148)

***Schoenefeldia gracilis* Kunth**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Zwarg 112 (FR)

***Setaria barbata* (Lam.) Kunth**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Katharina Schumann (APPG-4475)

***Setaria pumila* (Poir.) Roem. & Schult.**

Distribution: Afrotropical

Notes: Life Form: therophyte; Voucher: Zizka (APPG-3882)

***Setaria sphacelata* (Schumach.) Stapf & C.E.Hubb. ex Moss**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte

***Sorghastrum bipennatum* (Hack.) Pilg.**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Küppers 463 (FR-0015883)

***Sporobolus festivus* Hochst. ex A.Rich.**

Distribution: Pluriregional African

Notes: Life Form: hemicryptophyte; Voucher: Zwarg 36 (FR)

***Sporobolus pyramidalis* P.Beauv.**

Distribution: Afro-American

Notes: Life Form: hemicryptophyte

***Thelepogon elegans* Roth**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007637)

***Trachypogon spicatus* (L.f.) Kuntze**

Distribution: Paleotropical

Notes: Life Form: therophyte

***Tripogon minimus* (A.Rich.) Hochst. ex Steud.**

Distribution: Pluriregional African

Notes: Life Form: hemicryptophyte; Voucher: Schumann (FR-0083142)

***Urelytrum muricatum* C.E.Hubb.**

Distribution: Sudanian

Notes: Life Form: hemicryptophyte

***Urochloa jubata* (Fig. & De Not.) Sosef**

Nomenclature:

Brachiaria jubata (Fig. & De Not.) Stapf

Distribution: Afrotropical

Notes: Life Form: hemicryptophyte

Family Polygalaceae

***Polygala arenaria* Willd.**

Distribution: Pluriregional African

Notes: Life Form: therophyte; Voucher: Zwarg 9 (FR)

***Polygala multiflora* Poir.**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Nacoulma 87 (OUA-13451)

***Securidaca longipedunculata* Fresen.**

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Zwarg 124 (FR)

Family Polygonaceae***Persicaria decipiens* (R.Br.) K.L.Wilson**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083139)

***Persicaria senegalensis* (Meisn.) Soják**

Nomenclature:

Polygonum senegalense Meisn.

Distribution: Pluriregional African

Notes: Life Form: chamaephyte; Voucher: Nacoulma 4560 (OUA-17153)

Family Pontederiaceae***Eichhornia natans* (P.Beauv.) Solms**

Distribution: Afro-American

Notes: Life Form: therophyte; Voucher: Nacoulma 4498 (OUA-17068)

***Heteranthera callifolia* Rchb. ex Kunth**

Distribution: Afro-American

Notes: Life Form: therophyte; Voucher: Nacoulma 4591 (OUA-17185)

***Monochoria brevipetiolata* Verdc.**

Distribution: Sudano-Zambesian

Notes: Life Form: hemicryptophyte; Voucher: Nacoulma 4508 (OUA-17093)

Family Portulacaceae***Portulaca foliosa* Ker Gawl.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Zwarg 117 (FR)

***Portulaca quadrifida* L.**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007669)

Family Primulaceae

***Anagallis pumila* Sw.**

Distribution: Paleotropical

Notes: Life Form: therophyte; Voucher: Schmidt et al. (FR-0007697)

Family Pteridaceae

***Ceratopteris cornuta* (P. Beauv.) Lepr.**

Nomenclature:

Ceratopteris thalictroides (L.) Brongn.

Distribution: Afrotropical

Notes: Life Form: hydrophyte

Family Rhamnaceae

***Ziziphus abyssinica* Hochst. ex A.Rich.**

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Zwarg 82 (FR)

***Ziziphus mauritiana* Lam.**

Distribution: Paleotropical

Notes: Life Form: phanerophyte

***Ziziphus mucronata* Willd.**

Distribution: Pluriregional African

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-70453)

***Ziziphus spina-christi* (L.) Desf.**

Distribution: Paleotropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma 121 (OUA-13485)

Family Rubiaceae***CreMASpora triflora* (Thonn.) K.Schum.**

Distribution: Afro-Malagasy

Notes: Life Form: phanerophyte; Voucher: Nacoulma (OUA-17130)

***Crossopteryx febrifuga* (Afzel. ex G.Don) Benth.**

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Zwarg 88 (FR)

***Fadogia agrestis* Schweinf. ex Hiern**

Distribution: Sudanian

Notes: Life Form: chamaephyte; Voucher: Nacoulma 160 (OUA-13524)

***Feretia apodanthera* Delile**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Zwarg 98 (FR)

***Gardenia aqualla* Stapf & Hutch.**

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Nacoulma 4519 (OUA-17082)

***Gardenia erubescens* Stapf & Hutch.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-70012)

***Gardenia sokotensis* Hutch.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-70020)

***Gardenia ternifolia* Schumach. & Thonn.**

Distribution: Paleotropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma 199 (OUA-13562)

***Keetia cornelia* (Cham. & Schltld.) Bridson**

Nomenclature:

Canthium cornelia Cham. & Schltld.

Distribution: Guineo-Congolian

Notes: Life Form: phanerophyte; Voucher: Nacoulma 131 (OUA-13495)

***Keetia venosa* (Oliv.) Bridson**

Distribution: Pluriregional African

Notes: Life Form: phanerophyte; Voucher: Janßen (APPG-5627)

***Kohautia confusa* (Hutch. & Dalziel) Bremek.**

Distribution: Sudanian

Notes: Life Form: therophyte

***Kohautia grandiflora* DC.**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083134)

***Kohautia tenuis* (Bowdich) Mabb.**

Nomenclature:

Kohautia senegalensis Cham. & Schltld.

Distribution: Pluriregional African

Notes: Life Form: therophyte; Voucher: Zwarg 34 (FR)

***Macrosphyra longistyla* (DC.) Hiern**

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Nacoulma 172 (OUA-13536)

***Mitracarpus hirtus* (L.) DC.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Zwarg 42 (FR)

***Mitragyna inermis* (Willd.) Kuntze**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Schmidt et al. (FR-0007387)

***Morelia senegalensis* A.Rich. ex DC.**

Distribution: Guineo-Congolian-Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Nacoulma 134 (OUA-13498)

***Oldenlandia capensis* L.f.**

Distribution: Cosmopolitan

Notes: Life Form: therophyte

***Pavetta crassipes* K.Schum.**

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma 93 (OUA-13457)

***Pouchetia africana* A.Rich. ex DC.**

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma 120 (OUA-13484)

***Rytigynia senegalensis* Blume**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Schmidt et al. (FR-0007390)

***Sabicea venosa* Benth.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Schmidt et al. (FR-0007422)

***Sarcocephalus latifolius* (Sm.) E.A.Bruce**

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Zizka (APPG-3871)

***Spermacoce chaetocephala* DC.**

Distribution: Pluriregional African

Notes: Life Form: therophyte; Voucher: Nacoulma (APPG-70369)

***Spermacoce filifolia* (Schumach. & Thonn.) J.-P.Lebrun & Stork**

Distribution: Pluriregional African

Notes: Life Form: therophyte; Voucher: Zwarg 8 (FR)

***Spermacoce hepperana* Verdc.**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Nacoulma 4493 (OUA-17073)

***Spermacoce radiata* (DC.) Hiern**

Distribution: Sudano-Zambesian

Notes: Life Form: therophyte; Voucher: Nacoulma (APPG-70372)

***Spermacoce stachydea* DC.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Zwarg 69 (FR)

***Spermacoce verticillata* L.**

Distribution: Afrotropical (introduced)

Notes: Life Form: chamaephyte; Voucher: Nacoulma 253 (OUA-17219)

Family Rutaceae***Zanthoxylum zanthoxyloides* (Lam.) Zepern. & Timler**

Distribution: Sudanian

Notes: Life Form: phanerophyte

Family Salicaceae***Flacourtia indica* (Burm.f.) Merr.**

Nomenclature:

Flacourtia flavescens Willd.

Distribution: Pantropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma 4538 (OUA-17107)

***Oncoba spinosa* Forssk.**

Distribution: Paleotropical

Notes: Life Form: phanerophyte

***Salix chevalieri* Seemen**

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Schumann (FR-0083133); New species record for Burkina Faso.

Family Sapindaceae***Allophylus africanus* P.Beauv.**

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Schmidt et al. (FR-0007404)

***Allophylus spicatus* (Poir.) Radlk.**

Distribution: Guineo-Congolian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (OUA-17074)

***Cardiospermum halicacabum* L.**

Distribution: Pantropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma 39 (OUA-13404)

***Paullinia pinnata* L.**

Distribution: Afro-American

Notes: Life Form: phanerophyte; Voucher: Schmidt et al. (FR-0007393)

***Zanha golungensis* Hiern**

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma 4566 (OUA-17129)

Family Sapotaceae

***Manilkara multinervis* (Baker) Dubard**

Distribution: Pluriregional African

Notes: Life Form: phanerophyte; Voucher: Nacoulma 109 (OUA-13473)

***Mimusops kummel* Bruce ex A.DC.**

Distribution: Sudanian

Notes: Life Form: phanerophyte

***Vitellaria paradoxa* C.F.Gaertn.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Georg Zizka (APPG-3906)

Family Selaginellaceae

***Selaginella buchholzii* Hieron.**

Distribution: Guineo-Congolian

Notes: Life Form: therophyte; Voucher: Nacoulma 5289 (OUA-17775); New species record for Burkina Faso.

Family Simaroubaceae

***Quassia undulata* (Guill. & Perr.) D.Dietr.**

Nomenclature:

Hannoa undulata (Guill. & Perr.) Planch.

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Nacoulma 100 (OUA-13464)

Family Solanaceae***Physalis lagascae* Roem. & Schult.**

Distribution: Sudanian

Notes: Life Form: therophyte; Voucher: Schumann (FR-0083123)

***Solanum incanum* L.**

Distribution: Paleotropical

Notes: Life Form: phanerophyte; Voucher: Schumann (FR-0083122)

Family Sphenocleaceae***Sphenoclea zeylanica* Gaertn.**

Distribution: Pantropical

Notes: Life Form: therophyte; Voucher: Nacoulma 210 (OUA-13573)

Family Thymelaeaceae***Gnidia kraussiana* Meisn.**

Distribution: Sudanian

Notes: Life Form: chamaephyte; Voucher: Nacoulma 4490 (OUA-17076)

***Synptolepis retusa* H.Pearson**

Distribution: Sudanian

Notes: Life Form: chamaephyte; Voucher: Nacoulma (OUA-17124); New species record for Burkina Faso.

Family Urticaceae***Pouzolzia guineensis* Benth.**

Distribution: Pantropical

Notes: Life Form: phanerophyte; Voucher: Schmidt et al. (FR-0007631)

Family Violaceae***Hybanthus enneaspermus* (L.) F.Muell.**

Distribution: Paleotropical

Notes: Life Form: therophyte

Family Vitaceae***Ampelocissus bombycina* (Baker) Planch.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Nacoulma 4567 (OUA-17128); New species record for Burkina Faso.

***Ampelocissus leonensis* (Hook.f.) Planch.**

Distribution: Sudanian

Notes: Life Form: phanerophyte

***Ampelocissus multistriata* (Baker) Planch.**

Nomenclature:

Ampelocissus pentaphylla Gilg & M.Brandt

Distribution: Sudano-Zambesian

Notes: Life Form: phanerophyte; Voucher: Nacoulma 4617 (OUA-17208)

***Cayratia gracilis* (Guill. & Perr.) Suess.**

Distribution: Afro-American

Notes: Life Form: phanerophyte

***Cissus aralioides* (Welw. ex Baker) Planch.**

Distribution: Afrotropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma 51 (OUA-13416)

***Cissus cornifolia* (Baker) Planch.**

Distribution: Sudanian

Notes: Life Form: chamaephyte

***Cissus diffusiflora* (Baker) Planch.**

Distribution: Guineo-Congolian

Notes: Life Form: hemicryptophyte

***Cissus palmatifida* (Baker) Planch.**

Distribution: Pluriregional African

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-69807)

***Cissus populnea* Guill. & Perr.**

Distribution: Sudanian

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-69810)

***Cissus quadrangularis* L.**

Distribution: Paleotropical

Notes: Life Form: phanerophyte; Voucher: Nacoulma (APPG-69812)

***Cissus rufescens* Guill. & Perr.**

Distribution: Sudanian

Notes: Life Form: geophyte

***Cyphostemma adenocone* (Steud. ex A.Rich.) Desc. ex Wild & R.B.Drumm.**

Distribution: Sudanian

Notes: Life Form: chamaephyte; Voucher: Nacoulma (APPG-69920)

***Cyphostemma flavicans* (Baker) Desc.**

Distribution: Sudanian

Notes: Life Form: geophyte; Voucher: Nacoulma (APPG-69805)

Family Xanthorrhoeaceae

Aloe buettneri A.Berger

Distribution: Sudanian

Notes: Life Form: geophyte

Family Ximeniaceae

Ximenia americana L.

Distribution: Pantropical

Notes: Life Form: phanerophyte; Voucher: Hahn (APPG-2867)

Family Zingiberaceae

Siphonochilus aethiopicus (Schweinf.) B.L.Burt

Distribution: Sudano-Zambesian

Notes: Life Form: geophyte; Voucher: Nacoulma (APPG-70133)

Family Zygophyllaceae

Balanites aegyptiaca (L.) Delile

Distribution: Sudanian

Notes: Life Form: phanerophyte

Analysis

Composition of the local flora

The 721 species found in the study area belong to 385 genera and 102 plant families, the families with most species being Fabaceae (126 spp.), Poaceae (102 spp.) and Cyperaceae (44 spp.) (Fig. 3). The genera with most species in the study area are *Indigofera* (20 spp.), *Crotalaria* (17 spp.) and *Acacia* (13 spp.), all belonging to Fabaceae.

Therophytes and phanerophytes are the most prominent life forms, followed by hemicryptophytes, geophytes and chamaephytes (Fig. 4). Only very few hydrophytes and epiphytes are present.

The best represented distribution types in the flora are specific to the vegetation zone, either Sudanian or Sudano-Zambesian (Fig. 5). Species with wider distributions in the tropics (pantropical, paleotropical) or within continental Africa (afrotropical, pluriregional African) follow. The remaining distribution types have smaller shares and comprise either distributions extending to other continents or Madagascar or belong to the neighbouring zones under higher rainfall regimes, typically extending into the Sudan along gallery forests of the larger watercourses.

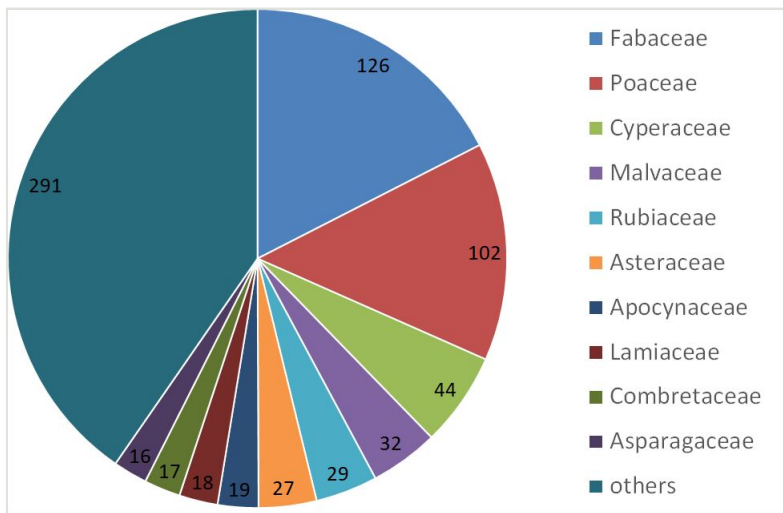


Figure 3. [doi](#)

Family spectrum of the flora of the W National Park with number of species for the 10 largest plant families in the study area and all remaining families.

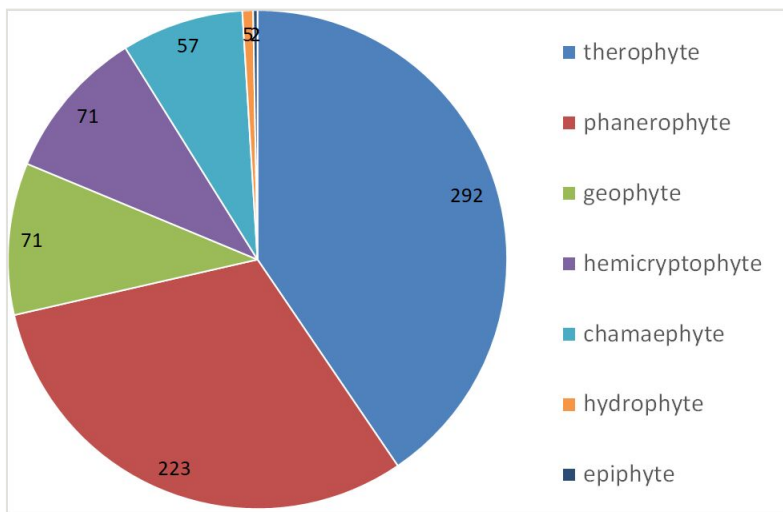


Figure 4. [doi](#)

Life form spectrum of the flora of the W National Park.

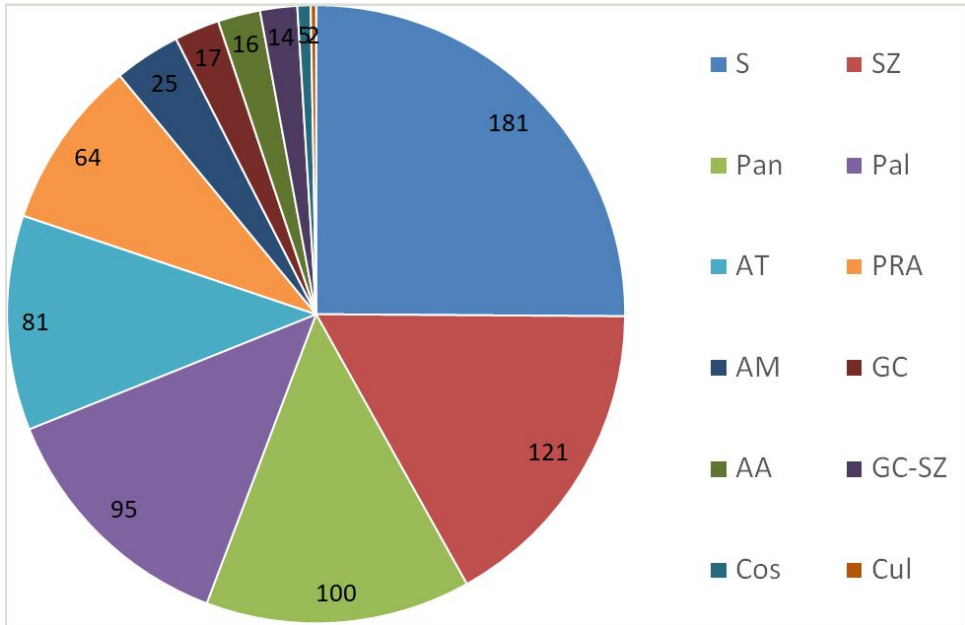


Figure 5. [doi](#)

Distribution types of the flora of W National Park: sudanian (S), sudano-zambesian (SZ), pantropical (Pan), paleotropical (Pal), afro-tropical (AT), pruriregional African (PRA), afro-malagasy (AM), guineo-congolian (GC), afro-american (AA), guineo-congolian/sudano-zambesian (GC-SZ), cosmopolitan (Cos), of cultivated origin (Cul).

New species records for Burkina Faso

A number of species have been found in the study area that have not been documented in the vascular plant catalogue of Burkina Faso (Thiombiano et al. 2012), nor in the supplement by Schmidt (2018); some of these are shown in Fig. 2. These 19 species are *Aponogeton vallisnerioides* (Aponogetonaceae), *Drimiopsis barberi* (Asparagaceae), *Eleocharis naumanniana* (Cyperaceae), *Jatropha atacorensis*, *Tragia laminularis* (Euphorbiaceae), *Aeschynomene americana*, *Alysicarpus vaginalis*, *Crotalaria lachnophora*, *Desmodium ramosissimum*, *Indigofera garckeana*, *Vigna nigrizia* (Fabaceae), *Gladiolus unguiculatus* (Iridaceae), *Ophioglossum thomasii* (Ophioglossaceae), *Chloris gayana*, *Loxodera ledermannii* (Poaceae), *Salix chevalieri* (Salicaceae), *Selaginella buchholzii* (Selaginellaceae), *Synaptolepis retusa* (Thymelaeaceae) and *Ampelocissus bombycina* (Vitaceae). The number of vascular plants known for Burkina Faso therefore increases to 2099 species.

Red Lists

Unlike for neighbouring Benin (Neuenschwander et al. 2011), there is no country-specific Red List for Burkina Faso yet. Amongst the 14 species listed for Burkina Faso on the global IUCN Red List (IUCN 2020) in the categories endangered (EN), near threatened (NT) or

vulnerable (VU), the following occur in our study area: *Pterocarpus erinaceus* (EN), *Afzelia africana* (VU) and *Khaya senegalensis* (VU).

Introduced species

Amongst the species occurring in the study area, 17 species have been identified as being introduced: *Acanthospermum hispidum*, *Ageratum conyzoides*, *Azadirachta indica*, *Bidens pilosa*, *Cassia obtusifolia*, *Chrysanthellum indicum*, *Desmodium adscendens*, *Hyptis spicigera*, *H. suaveolens*, *Indigofera microcarpa*, *Ludwigia erecta*, *Martynia annua*, *Passiflora foetida*, *Plumbago zeylanica*, *Scoparia dulcis*, *Spermacoce verticillata* and *Tridax procumbens*. The families best represented in this group are Asteraceae (5 spp.) and Fabaceae (3 spp.).

Discussion

With 721 documented species, the Burkina Faso part of the W National Park is, so far, the most species-rich nature reserve in Burkina Faso. Neither the protected areas of the same Sudano-sahelian climatic zone nor those in the Sudanian climatic zone have an equally-high diversity. In the Sudano-sahelian zone, the reserve of Pama and Arly National Park sustain 450 and 490 species, respectively (Mbayngone et al. 2008, Ouédraogo et al. 2011), whereas the classified forests of Kou and Niangoloko, as well as the classified forest and partial faunal reserve of Comoé-Léraba in the Sudanian zone, have 353, 275 and 521 species, respectively (Guinko and Thiombiano 2005, Ouôba 2006, Gnomou et al. 2015).

Several factors might explain this: to a large extent, the high plant diversity can be assigned to habitat diversity and a moderate degree of disturbance, but also to a relatively large area within an even larger complex of neighbouring protected areas. In Burkina Faso, the study sites are known for the diversity of their natural habitats, i.e. the Gobnangou and Atakora mountains, wetlands and gallery forests, termite mounds as well as anthropogenic relics of the past. Anthropogenic relics are still visible with metallurgical sites and baobab vegetation types, being closely linked to human settlements as shown by Duvall (2007).

Thorough spatial, ecological and seasonal sampling have certainly contributed to a good documentation of the area, building on experiences from similar studies in protected areas and focussed collection activities for the documentation of the flora of Burkina Faso (van der Burgt et al. 2010).

Finally, based on different scenarios, recent investigations (Schmidt et al. 2017) identified the southeast of Burkina Faso, around the W National Park, as one of the two hotspots of plant diversity of the country. Our present results confirm and strengthen these scenarios. There are no species endemic to W National Park and *Isoetes jaegeri*, the only plant still recognised as endemic to Burkina Faso does not occur here, being known exclusively from the sandstone massif in the southwest of the country. Including the 19 newly-documented species, the W National Park harbours more than one third of the plant diversity known for

Burkina Faso, making it an important area for plant conservation in a landscape setting where biodiversity outside of protected areas is increasingly threatened by intensified agriculture (Zoungrana et al. 2018). At the country level, Da et al. (2018) evaluated the percentage of modelled plant species distributions covered by protected areas and came up with a figure of 77% for Burkina Faso. Our results confirm the importance of these reserves for plant conservation with primary biodiversity data.

The composition of the flora by families, life forms and distribution types follows the same patterns as in other protected areas of the WAP complex (Assédé et al. 2012, Mbayngone et al. 2008, Ouédraogo et al. 2011). The dominance of Fabaceae and Poaceae may be explained by their respective innovations in N-fixation and C₄-photosynthesis, making them well-adapted to savanna environments. Therophytes and phanerophytes are the dominant life forms here and in the wider area of the West African savanna belt, with therophytes being more important in the drier north and phanerophytes in the wetter south (Schmidt et al. 2005). The large proportion of widespread species in West African savanna areas like the W National Park may be explained by the dominance of the savanna vegetation in a vast continuous band throughout West Africa in combination with the lack of effective barriers, such as higher mountains which separate savanna areas in other parts of Africa (White 1983).

Only few species from Burkina Faso have been Red-listed by IUCN, the three species in the W National Park all being sought-after timber species. The IUCN Red List is a good instrument to target species for conservation measures. However, only few species of the West African Flora have been evaluated, for Burkina Faso less than 20% (400 out of 2099 spp., IUCN 2020). Continued efforts will be necessary to get a better idea on threats and necessary conservation measures and a prerequisite are scientifically reliable assessments, accessible to the community and representing important parts of the region.

The number of 17 introduced plant species (2.3%) is rather low when compared to the 116 introduced species (5.5%) on the country scale (Zizka et al. 2015). It shows the success of these neophytes in protected areas under limited anthropogenic influence and may stimulate research on introduction routes and more in-depth studies on neobiota in Burkina Faso in general.

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