CATALOGUE OF THE AFRICAN PLANTS COLLECTED BY DR. FRIEDRICH WELWITSCH IN 1853-61. VOLUME II, PART I. MONOCOTYLEDONS AND GYMNOSPERMS

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649110162

Catalogue of the African plants collected by Dr. Friedrich Welwitsch in 1853-61. Volume II, Part I. Monocotyledons and gymnosperms by Alfred Barton Rendle

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd. Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

www.triestepublishing.com

ALFRED BARTON RENDLE

CATALOGUE OF THE AFRICAN PLANTS COLLECTED BY DR. FRIEDRICH WELWITSCH IN 1853-61. VOLUME II, PART I. MONOCOTYLEDONS AND GYMNOSPERMS



CATALOGUE

OF THE

AFRICAN PLANTS

COLLECTED BY

DR. FRIEDRICH WELWITSCH IN 1853-61.

VOLUME II. PART I.

MONOCOTYLEDONS AND GYMNOSPERMS.

RX

ALFRED BARTON RENDLE, M.A., D.Sc., F.L.S.,

AMERICANT, SCHARINGERT OF POTATOL



LONDON: PRINTED BY ORDER OF THE TRUSTEES.

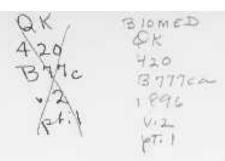
SOLD BY

LONGMANS & CO., D PAYERNOSTER BOW; B. QUARITOR, IS PROCADELLY; BULAU & CO., ST SORO SQUARE, W.; KEGAN PAUL, TRENCH, TRÜBNER & CO., CHARING CROSS ROAD;

DRITISH MUSEUM (NATURAL HISTORY), GROWWELL ROAD, S.W. 1899.

[All rights reverved.]

Alikatoria (16.1. Pakilika) Pragrama kalingan dan merin



MONOCOTYLEDONS.

I. HYDROCHARIDEÆ.

 LAGAROSIPHON Harv.; Benth. & Hook. f. Gen. Pl. iii. (part 2, Apr. 1883) p. 450.

 L. rubellus Ridl. in Journ, Linn. Soc. xxii. p. 234; Durand & Schinz, Consp. Fl. Afr. v. p. 2; Wright in Fl. Trop. Afr. vii. p. 3.

HIII.I.A.—Habit of Ceratophyllum, inhabiting the rivers in great masses, herbaccous-green, stoms densely cospitose, clongated, 3 to 5 ft. long, purplish, stender, leaves opposite, linear; flowers dicerious, with a long (3 to 8 in.) capillary tube, at the time of pellination floating on the surface of the water, reddish, very small, trimerous? Ovary many-ovuled, subsessile within a tubular spathe with gaping apex in the leaf-axils. Plentiful in the river Quipumpunhime and other deeper streams round Humpata and Ohai, growing along with species of Utricularia and Polamogeton; ft. and fr. April 1860. Nos. 6472, 64726.

- 2. BLYXA Thou, ; Benth, & Hook, f, Gen. Pt, iii, p. 451.
- B. radicans Ridl. in Journ. Linn. Soc. xxii. p. 236, t. 14; Durand & Schinz, Consp. Fl. Air. v. p. 3; Wright in Fl. Trop. Air. vii. p. 6.

HUILLA.—A perennial berb, dioxious; male flowers 6-androus, petals white, sepals herbaceous; female flowers with white petals, a little longer and narrower than the male. Fruit a long cylindrical berry. Plentiful in masses in the clear streams near Lopollo, especially at the Cataracts; somewhat rarely flowering. Not seen elsewhere in Angola and Benguella. In fl. and with unripe fr. beginning of May 1860. No. 6471.

- 3. OTTELIA Pers.; Benth. & Hook. f. Gen. Pl. iii. p. 453.
- O. lancifolia Rich. Tent. Fl. Abyss, ii. p. 280, t. 95 (1851);
 Ridl, in Journ. Linn. Soc. xxii, p. 238; Durand & Schinz, Consp.
 Fl. Afr. v. p. 4; Wright in Fl. Trop. Afr. vii. p. 7.

Ambaca.—Plentiful in lake to the left of the river Caringa. In ft, and fr. June 1855. No. 6466.

Var. fluitans Ridl., I.e.; Durand & Schinz, I.e.; Wright, I.e.

Pungo Andongo.—An elegant herb, swimming; with fibrous root. Flowers very delicate, very fragile when dry, intensely yellow. Plentiful with species of Nymphon in ponds on the lofty rocks of the presidinm. Pedra Songue, on the lower ridge. In fl. middle of February, in fr. April 1857. No. 6468.

VOL. II.

1

O. plantaginea Welw. ex Bidl., Lc.; Durand & Schinz, Lc.;
 Wright, Lc.

HULLA.—Spathes with numerous acute teeth; flowers yellow; rootfibres copper-coloured, shining. In masses in ponds close to the riverbanks near Catumba, where the camp of the Monani was formed at the time of the invasion. April 1860. No. 6469.

O. vesiculata Ridl., I.c., p. 237; Durand & Schinz, I.c.;
 Wright, I.c.

Hullia.—An acadescent herb ½ to 2 ft., with 6-androus, 7-carpellary yellow flowers which at time of pollination float on the surface of the water; styles several or all bifd. Spathe loosely enclosing the fruit, inflated, filled with water, compressed, broadly ovoid, purple-banded on the outside, mouth bidentate finally torn. Leaves originally somewhat stiff, fragile, bright pellucid green; scape slightly flattened, shortly 2-winged, gradually thickened a little below the spathe, tetragonal, lateral angles acutely winged. Ovary in the several fruits examined always incompletely 9-localar. Plentiful in slowly flowing streams and clear ponds near Lopollo, Mumpulla, etc., along with species of Myriophyllum, Iswardia, Nymphon and Polamogeton. In fl. end of Oct. 1859; in fl. and fr. April 1869. No. 6467.

4. O. crassifolia Welw, ms.

Boottia crassifolia Ridl., Lo., p. 239; Durand & Schinz, Lc.;

Wright, L.c., p. 9.

As the flowers are ? and solitary in the spathes, the species belongs to the genus Ottelia, as Welwitsch suggested, and not to Boottia.

HULLA.—A fleshy subrigid herb, growing erect from the muddy bottom, hidden 1 to 2 fathoms deep in flood-time. Leaves 2 to 3 ft., erect. Flowers yellow. Fruit flattened cylindrical, deeply 7-furrowed on both sides. Bather rare in the deeper ponds and streams round Mumpulla and Lopollo, only flowering in almost dried-up ponds. In fr. Oct. 1859, in fl. and fr. April 1860. No. 6470.

II. BURMANNIACEÆ.

BURMANNIA L.; Benth. & Hook. f. Gen. Pl. iii, p. 457.

B. bicolor Mart. Nov. Gen. et Sp. i. p. 10, t. 5, fig. 1 (1824).
 Var. africana Ridl. in Journ. Bot. 1887, p. 85; Wright in Fl.

Trop. Afr. vii. p. 11.

HULLA.—An annual very slender berb one digit high. Leaves and stem herbaceous-green, upper part of stem purplish. Flowers deep blue or deep violet marked with bright yellow, terminal, 3 or 4 together. In spongy wooded meadows of Monino with species of Ericaulon, Xyris, Primula, and Scieria, fairly plentiful where it occurs, but found only in a few localities. In fl. and fr. Feb. 1860. No. 6473. Gregarious in a few localities in lofty spongy places, and in rather damp sandy places, at Morro de Lopollo, near Sambo, growing along with grasses, in rocky places covered with a thin but rich soil. In fl. April and May 1860. Nos. 6474, 64745. Marshy places Lopollo; in fr. Feb. 1860. Coll., Carr. 68.

III. ORCHIDEÆ.

TRIBE I. EPIDENDREA.

1. LIPARIS L. C.Rich.; Benth. & Hook, f. Gen. Pl. iii. p. 495.

 L. Guingangæ Rehb. f. in Flora 1867, p. 103; Ridl. in Journ. Linn. Soc. xxii. p. 274; Durand & Schinz, Consp. Fl. Afr. v. p. 9; Rolfe in Fl. Trop. Afr. vii. p. 22.

Hullia.—On mossy slopes at Morro de Monino, but a rura aris. Subsequently sought in vain. Flowers whitish to pale yellow. March and beginning of April 1860. No. 723.

L. Welwitschii Robb. f. in Flora 1865, p. 184; Ridl., Lc.,
 p. 280; Durand & Schinz, Lc., p. 10; Rolfe, La., p. 21.

GOLUNGO ALTO.—Very rare in wet palm-groves on the right of the river Quiapoze near Sange. In fl. and fr. July 1855. No. 660.

- BULBOPHYLLUM Thou, ; Benth, & Hook, f. Gen. Pl. iii.
 501.
- B. andongense Rehb. f. in Flora 1865, p. 184; Durand & Schinz, I.c., p. 10; Rolfe in Fl. Trop. Afr. vii. p. 31.

Pungo Andongo.—Terrestrial growing on rocks, creeping, pseudobulbs crowded in a series, ovate-conical, acutely 4-angular. Leaves thickly coriaceous, herbaceous-green, oblong-lanceolate. Flowers crimson, laxly arranged in very long nodding or pendulous spikes, very elegant, resembling a little feather variegated with white and purple. On the vertical rocks of the pressidium near Catete, very inaccessible. In fl. Jan. 1857. No. 689.

B. rupincola Rehb. f., La.; Durand & Schinz, La., p. 14;
 Rolfe, La., p. 33.

PUNGO ANDONGO,—Terrestrial, very widely cospitose, bulbs very thick, angled. On sunny rocks Feb. 1867. No. 697. March 1857. Coll., Carp. 998.

TRIBE IL. VANDEÆ.

- 3. EULOPHIA R. Br.; Benth. & Hook. f. Gen. Pl. iii. p. 535.
- E. Ledienii Stein in Jahresber, Schles, Gesell, Vaterl. Cult. 1886, p. 254 (nomen); N. E. Brown in Kew Bull. 1889, p. 90; Rolfe in Fl. Trop. Afr. vii, p. 50.

E. maculata Rehb. f. (in part) in Flora 1867, p. 103; Stein in Gartenfl. 1888, p. 609, t. 1285; Durand & Schinz, Consp. Fl. Afr. v. p. 23. Eulophidium maculatum Pfitzer in Engl. & Prantl Pflanzenfam, ii. Abth. 6, p. 188.

Golungo Alto.—Terrestrial, bulbophyllons, creeping; leaves broadly lanceolate, fleshy, very stiff, obscurely green, with white spots, erect to spreading. Scapes sheathed, two-edged, leafless, a span or a foot long, erect, somewhat firm, springing from the base of the new leaf. Flowers rose-white. Perianth spreading, outer segments free, lanceolate, spathulate, dirty white, a little longer than the inner, the two lower curved falcately downwards; inner a little broader than the outer,

quite white, erect. Lip white, spreading, spurred (spur 2½ to 3 lines long, reddish, with a yellow globular swollen spex), 4-lobed, lobes obtuse, posterior erect red-margined, with purple streaks, smaller, anterior larger, spreading deflexed, marked on the base with an oblong purple spot. Column short, incurved from the base, rose-white, semiterete, red-margined. Ovary a little twisted, channelled and ribbed. Very rare and sporadic in primitive woods by streams. Primitive forest of Quisneulo in fl. Jan. 1856, in fr. June 1855. Flowers violet-red. Very rare in very thick woods by streams at Mata de Quisneulo; in fl. Dec. 1855. No. 661.

E. monile Robb, f., &a., p. 105; Durand & Schinz, &a., p. 24;
 Rolfe, &a., p. 53.

Huilla.—Tubers moniliform, white, compact; stem cylindric; leaves subrigid, striate, green; flowers white, nodding, shortly spurred; ovary scarcely twisted. Here and there in moss-grown shady places by streams on the heights (over 5000 feet) of Morro de Monino. Unique. In fl. Nov. 1859. No. 709.

E. Protearum Rehb. f., l.c., p. 104; Durand & Schinz, l.a.,
 p. 24; Rolfe, l.e.

HULLA.—Flowers yellowish, with a reddish tint. Perhaps only a poor form of the species under No. 720 (E. Welwitschii). Here and there in woods of Proteacem, in sandy shortly grassed places between Lopollo and Monino. Unique. In fl. beginning of Jan. 1860. No. 719.

E. aloifolia Welw. ex Rehb. f., Le.; Durand & Schinz, La.,
 p. 19; Rolfe, Le., p. 55.

PUNGO ANDONGO.—Very rare (only a single specimen seen) among shrubs on rocky slopes on the right of the river Cuanza near Candumba. End of March 1857. No. 682.

E. suglossa Rchb, f. ex Batem, in Bot, Mag. t. 5561 (1866);
 Durand & Schinz, I.e., p. 21; Rolfe, I.e., p. 57.

GOLUNGO ALTO.—Stem narrow, 4 ft. long, raceme 2 ft. Terrestrial at the roots of shrubs in the very dense elevated (2000 ft.) primitive woods near streams at Banza de Quilombo. Very rarely seen. In ft. Jan. 1855. No. 671.

 E. Welwitschii Rolfe in Bolet, Soc. Brot. vii. p. 236 (1889) non Hook, f. in Bot. Mag. sub t. 7330); Durand & Schinz, Le., p. 26; Rolfe in Fl. Trop. Afr. vii. p. 61.

Orthochilus Welwitschii Rehb, f. in Flora 1865, p. 186.

Huilla.—Erect 1 to 1½ fc. high; tubercles triangular, white, thick and fleshy, fibres snow-white, flowers a fine scarlet, perianth bell-shaped, between spreading and pendulous, bracts orange-coloured. Somewhat plentiful in thickets and rather dry mountain districts 4000 to 5000 ft. high near Huilla, especially in little forests of Proteaces, Nov. 1859. In sandy places among Proteaces at Monino; Jan. 1860. No. 720.

E. dichroma Rolfe in Fl. Trop. Afr. vii. p. 62 (1897).

E. bicolor Rehb. f. & Sond. ex Rehb. f., l.c., in part; (non Blume).
E. Welwitschii Hook. f. in Bot. Mag. sub t. 7330; (non Rolfe).

HULLA.—Flowers very beautiful, sulphur-coloured. A marsh plant. Varzea do Ferrão da Sola in meadows inundated during the summer. Many flowers still in the water. Feb. 1860. No. 718. E. Woodfordii Rolfe, Lc., p. 68.

Cyrtopera longifolia Rehb. f., l.c., p. 189. C. Woodfordii Lindl.

Gen. & Sp. Orch. p. 189.

Golungo Altro.—In herb-grown marshes on the banks of the river Casaballa, Sobato de Bumba, along with Mungo (Mamboga stipulosa) and species of Fuirena. 22 Oct. 1853. No. 664.

9. E. guineensis Lindl. in Bot. Reg. t. 686 (1823); Durand &

Schinz, La., p. 21; Rolfe, La., p. 59.

Golungo Alvo.—Scape 11 to 2 ft., 5- to 10-flowered; flowers subpendulous, Scrapias-like, middle lobe of lip a beautiful rose-colour, disc marked with dark purple streaks, perianth-segments all similar, dull purple. Montalegres, Feb. 1855; woods near N-delle, May 1856. No. 656.

4. LISSOCHILUS R.Br., Benth. & Hook. f. Gen. Pl. iii. p. 536.

L. dilectus Robb. f. Otia Bot. Hamb. i. p. 62 (1878);
 Durand & Schinz, L.e., p. 28; Rolfe in Fl. Trop. Afr. vii. p. 83.
 L. arenarius Robb. f. in Flora 1865, p. 188; (non Lindl.).

Pungo Andongo.—3 to 3½ ft. high, rhizome of thick white subtrigonal moniliform tubers; leaves 1 ft. long; scape 2½ to 3 ft. or more, sheathing scales distant dark purple or livid. Flowers very large and fine, rose-coloured. Disc of labellum with a dark purple shortly hearded line, and two thick elevated crests at the mouth, cavity of labellum sheathed with purple on the inside, yellow outside. In damp thickets on the rivers Cuanza and Lopollo; Dec. 1856. No. 686.

GOLUNGO ALTO.—Rather rare in schistose slopes on the banks of the river Muio between Bango and Quilombo; 14 Jan. 1855. Two

specimens in flower. No. 666.

2. L. Paivæanus Rebb. f. in Flora 1865, p. 187; Durand &

Schinz, La., p. 29; Rolfe, Lc., p. 89.

HULLA.—Bulbs conical, green, very fleshy, erect, crowded, furnished at the base with numerous white fibres; leaves appearing after the flowers. Scape 2 ft., more rarely 3 ft., deep purple. Flowers beautiful, pendulous, sepals obovate-lanceolate, purplish, petals twice as large, a fine yellow; lateral lip-lobes dull purple erect, the median channelled, bright yellow, 2- or 3-toothed on each side. Column white. Plentiful in sandy thickets round Hulls. In fl. end of Oct. to middle of Nov. 1859. No. 731.

Var. stenophyllus Robb. f. in Flora 1867, p. 105; Durand &

Schinz, Lc.; Rolfe, Lc.

Pungo Andongo.—2 ft. high, scape distantly sheathed, 2 ft. more rarely 3 ft. Flowers between spreading and nodding, sepals herbaceousgreen with dull purple spots on the inside; petals deep sulphur-colour outside, within (or beneath) whitish; lateral lip-lobes pule, purple-streaked, median keel-like deep yellow, spur dull purple. Bracts yellowish-green. Rather rare in stony thickets at the base of Pedra Pungo on the presidium. Beginning of March 1857. No. 690.

L. calopterus Rohb, f. in Bonplandia iii. p. 218 (1855);

Durand & Schinz, I.e., p. 28; Rolfe, I.e., p. 93.

LOANDA.-21 to 3 ft., leaves only well developed after the flowers; flowers a shining sulphur yellow. Plentiful but seen only in this