

**CONTRIBUTIONS TO
THE
FLORA OF SIAM**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649089826

Contributions to the flora of Siam by William Grant Craib

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WILLIAM GRANT CRAIB

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to the
Flora of Siam

Dicotyledones

By

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Printed for the University of Aberdeen
MCMXII

Aberdeen University

Studies : No. 57



The Flora of Siam

University of Aberdeen.

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DICOTYLEDONES.

Since the time of publication in the Bull. Herb. Boiss. (1904-5) by Dr. F. N. Williams of his "Liste des plantes connues du Siam," our knowledge of the Flora of Siam has made great strides. The penultimate part of the Flora of Koh Chang dealing with the Palmae, Lentibulariaceae and the Lichenes has appeared. As mentioned in Kew Bull. 1911, p. 7, Dr. C. C. Hosseus visited Siam in 1904-5 and made large collections of plants. Since his return to Europe he has published in various continental magazines a large number of papers dealing with various subjects of scientific interest, and a list of those papers—so far as known to the author—which have a direct bearing on the present contribution will be given in an addendum.

It might not be out of place to say a few words here on those papers which the writer has found most useful when compiling the present lists. Probably the most important are to be found in the Beihefte zum Bot. Centralblatt—"Beiträge zur Flora Siam" in vol. xxvii., pp. 455-507 and "Die botanischen Ergebnisse meiner Expedition nach Siam" in vol. xxviii., pp. 357-457. The former gives lists of all the plants of certain families known from Siam, but in the latter the author confines his attention to the plants collected by himself and gives a list of nearly all the plants of his own collection. In both papers the author expresses his indebtedness to various authorities who assisted him in determining the plants. In Engler's Bot. Jahrb., vol. xli., pp. 62-73, Dr. Hosseus gives a list of all the Acanthaceae known from Siam. Most of his plants in this family were determined by the late C. B. Clarke—a recognised authority on Acanthaceae. In the same publication are also to be found "Beiträge zur Flora des Doi Sutāp" (vol. xl., pp. 92-99) and "Beiträge zur Flora von Wang Djae am Mü Ping in Mittel Siam" (vol. xlv., pp. 366-374)—two papers dealing with the general aspects of the flora of the regions. Also in Engler's Bot. Jahrb., vol. xli., pp. 55-61, is a description, accompanied with excellent figures and a full discussion on its affinity with neighbouring genera, of a very interesting new genus of *Rafflesiaceae*, called by the author *Richtiofenia*. Reference might be made here to several other papers, but for these the reader must be referred to the list at the end of the present paper.

The present contribution may be regarded as a reprint—with additions—of the papers written by the author and published in Kew Bull. 1911, pp. 7-60 and 385-474. As explained there, the primary idea was to give additions to William's list referred to

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above, and for this purpose the same geographical region is treated of as comprising Siam as in William's list with the exception of Siamese Malay Peninsula, which has been accounted for by Ridley in his "Flora of Lower Siam" published in Journ. Str. Br. Roy. As. Soc., 59, pp. 15-234. As before, all Dr. Kerr's plants are included, whether they had been recorded for Siam in William's list or not. The reason for this was to illustrate the more fully Dr. Kerr's paper in Kew Bull. 1911, pp. 1-6, dealing with the vegetation of Doi Sootep—a paper which was anticipated by Dr. Hosseus in his paper on Doi Sootep mentioned above.

The additional material accounted for here consists chiefly of the continued collections forwarded by Dr. Kerr. One's indebtedness to Dr. Kerr for the magnificent specimens which he continues to send home from a region which is still far from well known from a botanical point of view can hardly be overestimated. Several small consignments have also been received through the Conservator of Forests, Bangkok, from the Phre district collected by Luang Vanpruk. The plants dealt with in the present paper are those received at Kew up to the end of 1911.

Throughout the list references have been given to Hooker's Flora of British India (contracted F.B.I.), to Kurz's Forest Flora of Burma (contracted For. Fl. Burma) and to Collett and Hemsley's paper on the Flora of the Shan States published in the Journal of the Linnean Society. References have also been given to Lecomte's Flore Generale de l'Indo-Chine so far as that work has been published (contracted Fl. Indo-Chine) and to the two papers by Hosseus quoted above—that in Beihefte zum Bot. Centralblatt, vol. xxvii., being contracted Hosseus i., and that in the same publication, vol. xxviii., being contracted Hosseus ii. Various other papers which serve in the writer's opinion to throw light on the species under consideration, *i.e.*, monographs, &c., have also been referred to.

The distribution of the species is taken, except when otherwise stated, from specimens in the Kew Herbarium. Several species are quoted, of which no specimens from Siam have been seen, but in such cases the authority for the record is alone quoted.

The sequence of Bentham and Hooker's Genera Plantarum is followed on the whole and the species are arranged alphabetically under the genera.

POLYPETALAE.

RANUNCULACEAE.

Clematis smilacifolia, *Wall.*—F.B.I., i. p. 3; For. Fl. Burma, i. p. 16; Williams, Bull. Herb. Boiss., v. (1905) p. 22; Fl. Indo-Chine, i. p. 3; Hosseus, ii. p. 389.

Chiengmai, Doi Sootep, 500-700 m., *Hosseus*, 297.

Distr. India, China, Tonkin, Malaya.

DILLENIACEAE.

Tetracera sarmentosa, *Vahl*, var. *Loureiri*, *Finet et Gagnep.*—Fl. Indo-Chine, i. p. 16.

Bangkok, *Zimmermann*, 74.

Distr. (of var.). Cambodia, Cochinchina, Malay Peninsula.

Dillenia Kerrii, *Craib*, ab affini *D. scabrella*, Roxb., floribus majoribus, pedicellis brevioribus facile distinguenda.

Arbor decidua, ramulis crassis primo breviter adpresse fulvo-pubescentibus mox glabris. *Folia* elliptica, utrinque rotundata sed basi rarissime inaequalia, cuneata, 28.5–30 cm. longa, 14.2–17.2 cm. lata, chartacea vel subcoriacea, supra nervis nervisque pilis brevibus rigidiusculis parce instructa, subtus costa nervisque primariis fulvo-pilosa, nervulis ut in pagina superiore, nervis lateralibus utrinque ultra 40 ad marginem simplicibus inter se 5–7 mm. distantibus, cum costa supra conspicuis subtus prominentibus nervis transversis subtus prominulis, margine nervis excurrentibus denticulata; petioli 4.5–6.5 cm. longi, supra valde canaliculati, basi dilatati, ut in costa adpresse fulvo-pubescentes. *Flores* mane expansi (ex *Kerr*), plerumque gemini, ramulis brevissimis ligno anni praeteriti exercentes; pedicelli 1.5–2.5 cm. longi, crassiusculi, densius puberuli, apicem versus bracteola ovato-lanceolata obtusa 9 mm. longa 6 mm. lata instructi. *Sepala* exteriora maxima, rotundata, circiter 1.4 cm. diametro, interiora late elliptica, 1.7 cm. longa, 1.2 cm. lata, coriacea, ciliata, extra adpresse pubescentia, intra glabra, margines apicesque versus parce brevissime pilosula. *Petala* sulphurea (ex *Kerr*), obovata, apice rotundata, basi cuneata, vix stipitata vel interdum in unguem distinctum contracta, 2.5–2.6 cm. longa, 1.4–1.5 cm. lata, utrinque glabra, distincte nervata. *Ovarium* e carpellis 6 constitutum, 8 mm. altum, superne adpresse albo-pubescent; styli 8 mm. longi, uncinati, glabri.—*Craib*, *Kew Bull.* 1911, p. 8.

Hills between Muang Prow and Chieng Dao, 600 m., in mixed jungle, *Kerr*, 1046; Chiengmai, in mixed jungle on Doi Sootep, 660 m., *Kerr*, 1787.

Lao name, M'San Kweng (ex *Kerr*).

Dillenia pulcherrima, *Kurz*—*F.B.I.*, i. p. 37; *For. Fl. Burma*, i. p. 19; *Coll. et Hemsl., Journ. Linn. Soc.*, xxviii. p. 16.

Meh Teng, 360 m., *Kerr*, 1063.

Distr. Burma.

Lao name, M'San Luang (ex *Kerr*).

MAGNOLIACEAE.

Talauma Hodgsoni, *Hook. f. et Th.*—*F.B.I.*, i. p. 40.

Chiengmai, in evergreen jungle on Doi Sootep, 660–900 m., *Kerr*, 1098.

Distr. Sikkim, Khasia, Upper Burma.

Lao name, Bun Ta (ex *Kerr*).

Michelia Champaca, *Linn.*—*F.B.I.*, i. p. 42; *For. Fl. Burma*, i. p. 25; *Williams, Bull. Herb. Boiss.*, v. (1905) p. 23; *Fl. Indo-Chine*, i. p. 38; *Hossens*, ii. p. 389.

Chiengmai, Doi Sootep, 900–1140 m., *Kerr*, 1279, *Hossens*, 480.

Distr. India, Yunnan, throughout Indo-China, Malaya.

Lao name, Chüm Pi (ex *Kerr*).