

A REVIEW OF THE GENUS *ERYCIBE* ROXB.

by

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In this paper I intend to give a review of the genus *Erycibe* Roxb. in which all the names published in the genus will be accounted for. The representatives from Malaysia have been dealt with more extensively in the revision of the genus in *Flora Malesiana*, Ser. I, Vol. 4, 4th instalment, 1953, pp. 404—431. — Technical descriptions of new taxa have been published in another paper in *Blumea* 7, 1953, pp. 310—319.

In the present paper the literature will be published more extensively than in *Flora Malesiana*; besides I have included citation of all type specimens. The extra-Malaysian species have been studied less extensively than the Malaysian ones, but as I have seen nearly all the types, some notes are inserted which will be, I hope, useful for future study of the genus. Particularly the specimens from the Indian Peninsula need closer study.

An enumeration of the species was given by Hallier f. (*Bull. Herb. Boiss.* 5, 1897, p. 737—739); this enumeration was adapted for the Netherlands Indies by Boerlage (*Handl. Fl. Ned. Ind.* 2, 2, 1899, p. 508). There are some other local revisions and enumerations, the most important of which are: Prain, *J. As. Soc. Beng.* 74, II, 1906, p. 287—296 (Malay Peninsula), Gagnepain & Curchet, *Fl. Gén. Ind.-Ch.* 4, 1915, p. 304—310 (Indo-China), Merrill, *En. Philip. Fl. Pl.* 3, 1923, p. 358—359 (Philippines), Masamune, *En. Phan. Born.*, 1942, p. 633 (Borneo), How, *Sunyatsenia* 6, 1946, p. 221—230 (China), Kerr, *Fl. Siam. En.* 3, 1951, p. 94—98 (Siam).

The genus *Fissipetalum* was described by Merrill with doubtful reference to *Olacaceae* or possibly *Icacinaceae*. Sleumer (in Engler & Prantl, *Nat. Pfl. Fam.* 2nd ed. 16b, 1935, p. 32) excluded the genus from *Olacaceae* and expressed doubt as regards its affinities to *Icacinaceae*. Later on he excluded it from the latter family (in Engler & Prantl, *Nat. Pfl. Fam.* 2nd ed. 20b, 1942, p. 293) and brought it, correctly, into synonymy under *Erycibe*. Independently the same was done by Airy Shaw (*Kew Bull.* 1947, 1947, p. 22).

Typification. For *E. paniculata* Roxb. the specimen from the Roxburgh-herbarium in Brussels (*Herbarium Martii*) has been chosen as the lectotype as there is a label attached to this specimen indicating that

this is the plant figured. The types of some of the early described species (Blume's species, *E. obtusifolia* Benth.), for which no specimens were cited, have been chosen from the material seen by the authors and labelled in their handwriting (lectotype), the other specimens being considered paratypes. For species for which more than one collection was cited by the author, one of these has been chosen as the lectotype, preferably the specimen in the herbarium where the author has worked, unless the author has indicated a holotype: the other collections mentioned are paratypes. For species described by Prain the lectotype is considered to be in the Calcutta herbarium; I have not seen these but I have seen duplicates of all lectotypes of his species. I have only seen isotypes of *E. angustifolia* Hallier f. (holotype in München), *E. hirsuta* Hallier f. (holotype in Hamburg?), *E. sumatrensis* Merr. (holotype said to be in NY, though it was not among the material sent on loan to me), *E. dolichotricha* Merr. (holotype said to be in NY), *E. schmidtii* Craib (holotype in Aberdeen?).

Among the specimens sent to me on loan there are a number of which the material is insufficient for identification. Some of these probably belong to one of the species listed below, but there are also some probably representing new species. The material of the latter is, however, too incomplete to base new species on it.

I express my sincere thanks to the directors of the herbaria from which I have been able to study the specimens. These herbaria have been cited by the abbreviations proposed in the Index Herbariorum.

ERYCIBE

Erycibe Roxb., Pl. Corom. 2, 1798, p. 31, t. 159; type species *E. paniculata* Roxb. l. c. — *Catonia* Vahl, Skrivt. Nat. Hist. Selsk. Kjøbenh. 6, 1810, p. 98; type species (lectotype) *C. elliptica* Vahl l. c. p. 101, = *Erycibe paniculata* Roxb. — *Erimatalia* Roem. & Schult., Syst. 5, 1819, p. XXVII; type species *E. rheedii* R. & S. l. c. p. 331, = *Erycibe paniculata* Roxb. — *Fissipetalum* Merr., J. Str. Br. R. A. S. 85, 1922, p. 168; type species *F. borneense* Merr. l. c., = *Erycibe borneensis* (Merr.) Hoogl.

Infrageneric taxa (all published without indication of rank): *Rimosae* Hallier f., Bull. Herb. Boiss. 5, 1897, p. 737; type species (lectotype) *E. subspicata* Wall. ex G. Don — *Tereticaules* Hallier f. l. c. p. 738; type species (lectotype) *E. stapfiana* Prain — *Venulosae* Hallier f. l. c. p. 738 (under *Tereticaules*); type species (lectotype) *E. stapfiana* Prain — *Fibrosae* Hallier f. l. c. p. 739 (under *Tereticaules*); type species (lectotype) *E. forbesii* Prain.

1. **Erycibe aenea** Prain, J. As. Soc. Beng. 58, II, 1894, p. 85; Prain, J. As. Soc. Beng. 74, II, 1906, p. 295; Ridl., Fl. Mal. Pen. 2, 1923, p. 446; Moore, J. of Bot. 62, 1924, Suppl. p. 71; Burk. & Henders., Gard. Bull. S. S. 3, 1925, p. 400; Burk., Dict. Econ. Prod. Mal. Pen., 1935, p. 933; Hoogl., Fl. Mal. I, 4, 1953, p. 424.

Types: *Kunstler 7337*, lectotype in CAL, isotypes in B, G, K, L.

Distr. Malay Peninsula, Sumatra.

2. *Erycibe albida* Prain, J. As. Soc. Beng. 58, II, 1894, p. 87; Hoogl., Fl. Mal. I, 4, 1953, p. 414. — *E. glomerata* Auct. non Bl.; Hallier f., Bull. Herb. Boiss. 5, 1897, p. 382, 739, p.p.; Prain, J. As. Soc. Beng. 74, II, 1906, p. 294 (excl. syn. *E. angustifolia*); Ridl., Fl. Mal. Pen. 2, 1923, p. 447; Burk. & Henders., Gard. Bull. S. S. 3, 1925, p. 400; Kerr, Fl. Siam. En. 3, 1951, p. 96. — *E. glomerata* "var. *typica*" Prain, J. As. Soc. Beng. 74, II, 1906, p. 294; Ridl., Fl. Mal. Pen. 2, 1923, p. 448. — *E. glomerata* var. *longifolia* Auct. non Bl.; Prain, J. As. Soc. Beng. 74, II, 1906, p. 295 (excl. syn. *E. angustifolia*); Ridl., Fl. Mal. Pen. 2, 1923, p. 448.

Types: *Kunstler 7373*, lectotype in CAL, isotypes in B, BM, G, K, L; paratypes *Scortechini s.n.* (not seen), *Curtis 2947* (K, SING).

Distr. Peninsular Siam, Malay Peninsula.

3. *Erycibe beccariana* Hoogl., Blumea 7, 1953, p. 310; Hoogl., Fl. Mal. I, 4, 1953, p. 428.

Types: *Beccari P.P. 91*, holotype in FI; paratype *Beccari P.P. 532* (FI).

Distr. New Guinea.

4. *Erycibe borneensis* (Merr.) Hoogl., Blumea 7, 1953, p. 310; Hoogl., Fl. Mal. I, 4, 1953, p. 424. — *Fissipetalum borneense* Merr., J. Str. Br. R. A. S. 85, 1922, p. 168; Merr., Univ. Calif. Publ. Bot. 15, 1929, p. 58.

Types: *Ramos 1454*, lectotype in K, isotypes in A, B.

Var. *borneensis*.

Distr. Borneo.

Var. *collina* Hoogl., Blumea 7, 1953, p. 310; Hoogl., Fl. Mal. I, 4, 1953 p. 424.

Types: *Clemens 40357*, Penibukan, Mt Kinabalu, 1200 m, 9. IX. 1933, holotype in L, isotypes in A, BM, BO, G, K, UC; paratypes: *Clemens 40258*, same locality, 8. VIII. 1933 (A, BM, BO); *Clemens 40388*, same locality, 17. IX. 1933 (BM, K, SING); *Clemens 40418A*, same locality, 22. IX. 1933 (BM, L); *Clemens 40418B*, same locality, IX—X. 1933 (BM); *Clemens 40438*, same locality, 26. IX. 1933 (BM); *Hose 627*, Mt Irekan, 600 m, VII. 1895 (BM, K).

Distr. Borneo.

Var. *collina* particularly differs from var. *borneensis* by the indumentum on the outer side of the sepals. In general the flowers are distinctly different by this character. A single intermediate collection is known: *Motley (Barber) 6* (K).

5. *Erycibe brassii* Hoogl., Blumea 7, 1953, p. 311; Hoogl., Fl. Mal. I, 4, 1953, p. 430.

Types: *Brass 7981*, holotype in L, isotype in A.

Distr. New Guinea.

6. *Erycibe bullata* Ridl. ex Hoogl., Blumea 7, 1953, p. 311; Hoogl., Fl. Mal. I, 4, 1953, p. 422.

Types: *Hose 572*, Baram, Sarawak, 10. IV. 1895, holotype in K; paratypes: *Beccari P.B. 651*, Kuching, Sarawak, IX. 1865 (FI); *Haviland & Hose s.n.*, Kuching, Sarawak, 13. XI. 1894 (K); *Haviland & Hose 3708*, Baram, Sarawak, VIII. 1894 (K); *Haviland & Hose 3730*, Rejang, Sarawak, 1894 (K).

Distr. Borneo.

7. *Erycibe carrii* Hoogl., *Blumea* 7, 1953, p. 312; Hoogl., *Fl. Mal. I*, 4, 1953, p. 421.

Types: *Carr 15000*, holotype in L, isotype in BM; paratypes: *Carr 13583* (L); *Clemens 11056* (A).

Distr. New Guinea.

8. *Erycibe citriniflora* Griff., *Notul.* 4, 1854, p. 284; Prain, *J. As. Soc. Beng.* 73, II, 1904, p. 17; Brandis, *Indian Trees*, 1906, p. 714; Ridl., *Fl. Mal. Pen.* 2, 1923, p. 445; Kerr, *Fl. Siam. En.* 3, 1951, p. 94; Hoogl., *Fl. Mal. I*, 4, 1953, p. 425. — *E. glomerata* (non Bl. 1826) Wall. [Cat., 1828, no 1338, nomen] ex Choisy, *Ann. Sc. Nat. Sér.* 2, 1, 1834, p. 224; DC., *Prod.* 9, 1845, p. 465 (excl. syn. *E. glomerata* Bl.); Kurz, *For. Fl. Br. Burma* 2, 1877, p. 213; Clarke, *Fl. Br. Ind.* 4, 1883, p. 183; Prain, *J. As. Soc. Beng.* 63, II, 1894, p. 85. — *E. wallichii* Prain & Hallier f. ex Hallier f., *Bull. Herb. Boiss.* 5, 1897, p. 382; Prain, *J. As. Soc. Beng.* 73, II, 1904, p. 17; Brandis, *Indian Trees*, 1906, p. 483. — *E. hololobula* Kerr, *Kew Bull.* 1941, 1941, p. 11; Kerr, *Fl. Siam. En.* 3, 1951, p. 96.

Types: *E. citriniflora*: Griffith 390 (distr. 5881), lectotype in K, isotypes in K, P; *E. glomerata*: Wallich 1338, holotype in G; *E. wallichii* = preceding; *E. hololobula*: Kerr 16371, holotype and isotype in K.

Distr. Burma, Siam, Malay Peninsula.

9. *Erycibe clemensae* Van Ooststr., *J. Arn. Arb.* 29, 1948, p. 414, f. 1, pl. 1; Hoogl., *Fl. Mal. I*, 4, 1953, p. 429.

Types: *Clemens 1622*, holotype in L, isotype in A; paratype *Clemens 1502* (L).

Distr. New Guinea.

10. *Erycibe coccinea* (F. M. Bail.) Hoogl., *Fl. Mal. I*, 4, 1953, p. 431. — *E. paniculata* var. *coccinea* F. M. Bail., *Dept Agric. Queensl. Bot. Bull.* 8, 1893, p. 80; F. M. Bail., *Queensl. Fl.* 4, 1901, p. 1053; F. M. Bail., *Compr. Cat. Queensl. Pl.*, 1909, p. 347, f. 325. — *E. paniculata* Auct. non Roxb.; Benth., *Fl. Austral.* 4, 1869, p. 411; F. M. Bail., *Queensl. Fl.* 4, 1901, p. 1053; F. M. Bail., *Compr. Cat. Queensl. Pl.*, 1909, p. 347.

Type: *Cowley s.n.*, holotype in BRI.

Distr. Queensland.

11. *Erycibe cochinchinensis* Gagnep., *Not. Syst.* 3, 1915, p. 138; Gagnep. & Courch., *Fl. Gén. Ind.-Ch.* 4, 1915, p. 308; Kerr, *Fl. Siam. En.* 3, 1951, p. 94.

Types: *Harmand 1298*, lectotype in P, isotypes in A, BO, P; paratypes: *Thorel s.n.* (P); *Pierre s.n.*, *Cây Công* (K, NY, P); *Pierre s.n.*, *Ton-mán* (BM, BO, BR, G, NY, P).

Distr. Indo-China, Siam.

12. *Erycibe coriacea* Wall. [Cat., 1828, no 1337, nomen] ex Choisy, *Ann. Sc. Nat. Sér.* 2, 1, 1834, p. 224; DC., *Prod.* 9, 1845, p. 465; Drury, *Handb. Ind. Fl.* 2, 1866, p. 324; Kurz, *For. Fl. Br. Burma* 2, 1877, p. 213; Clarke, *Fl. Br. Ind.* 4, 1883, p. 182; Prain, *J. As. Soc. Beng.* 65, II, 1896, p. 536; Brandis, *Indian Trees*, 1906, p. 484; Kerr, *Fl. Siam. En.* 3, 1951, p. 93; Hoogl., *Fl. Mal. I*, 4, 1953, p. 417. — *E. fragrans* Wall. [Cat., 1828,

no 1336, nomen] ex G. Don, Gen. Hist. Dichl. Pl. 4, 1838, p. 392. — *E. coriacea* var. *pauciflora* DC., Prod. 9, 1845, p. 465. — *E. coriacea* var. *fragrans* (Wall. ex G. Don) Clarke, Fl. Br. Ind. 4, 1883, p. 182.

Types: *E. coriacea*: Wallich 1337, holotype in G; *E. fragrans*: Wallich 1336, holotype in K, isotypes in B, BM, G, K, L; *E. coriacea* var. *pauciflora*: = preceding, holotype in G.

Distr. Chittagong, Peninsular Burma, W. Siam.

According to Prain (J. As. Soc. Beng. 73, II, 1904, p. 17 under *E. citriniflora*) Kurz's reference partly applies to *E. citriniflora* Griff.. As I have not seen the material from the Calcutta Herbarium, on which Kurz's Forest Flora of British Burma was mainly based, I cannot confirm this statement.

13. *Erycibe crassipes* Ridl. ex Hoogl., Blumea 7, 1953, p. 312; Hoogl., Fl. Mal. I, 4, 1953, p. 422.

Types: *Haviland 3116*, Kuching, Sarawak, 9.V.1893, holotype in K; paratypes: *Haviland 2265*, Kuching, Sarawak, 25.I.1893 (K); *Haviland & Hose 3725*, Kuching, Sarawak, III.1893 (K); *Van Steenis 1212*, E. slope of G. Ranai, Bunguran, Natuna Islands, 250 m, 10.IV.1928 (BO, L, SING; fa *glabra* Hoogl.).

Fa *crassipes*.

Distr. Borneo.

Fa *glabra* Hoogl., Blumea 7, 1953, p. 312; Hoogl., Fl. Mal. I, 4, 1953, p. 422.

Types: *Van Steenis 1212*, holotype in L, isotypes in BO, SING.

Distr. Natuna Islands, 4° N 107° E.

14. *Erycibe crassiuscula* Gagnep., Not. Syst. 3, 1915, p. 139; Gagnep. & Courch., Fl. Gén. Ind.-Ch. 4, 1915, p. 306, f. 36.

Types: *Bon 5569*, holotype and isotypes in P.

Distr. Indo-China, once collected.

Though the type collection is not very good, I think it may represent indeed a good species. Nevertheless it is possible that it is only an aberrant, small-leaved form of *E. elliptilimba* Merr. & Chun.

15. *Erycibe elliptilimba* Merr. & Chun, Sunyatsenia 2, 1934, p. 45; Masamune, Fl. Kainant., 1943, p. 272; How, Sunyatsenia 6, 1946, p. 227; Hoogl., Fl. Mal. I, 4, 1953, p. 419. — *E. fecunda* Kerr, Kew Bull. 1941, 1941, p. 10; Kerr, Fl. Siam. En. 3, 1951, p. 96. — *E. noei* Kerr, Kew Bull. 1941, 1941, p. 11; Kerr, Fl. Siam. En. 3, 1951, p. 97. — *E. rabilii* Kerr, Kew Bull. 1941, 1941, p. 12; Kerr, Fl. Siam. En. 3, 1951, p. 97. — *E. poilanei* Gagnep., Not. Syst. 14, 1950, p. 28. — *E. paniculata* Auct. non Roxb.; Gagnep. & Courch., Fl. Gén. Ind.-Ch. 4, 1915, p. 305.

Types: *E. elliptilimba*: Liang 61534, holotype in NY, isotypes in A, E, K, P; paratype: Liang 61634 (A, NY); *E. fecunda*: Kerr 8535, holotype and isotype in K; *E. noei*: Noe 210, holotype in K; *E. rabilii*: Rabil 225, holotype and isotype in K; *E. poilanei*: Potlane 416, holotype and isotypes in P.

Distr. China (Hainan), Indo-China, and Siam.

16. *Erycibe expansa* Wall. [Cat., 1828, no 1331, nomen] ex G. Don, Gen. Hist. Dichl. Pl. 4, 1838, p. 392; Clarke, Fl. Br. Ind. 4, 1883, p. 181;

Prain, J. As. Soc. Beng. 63, II, 1894, p. 84; Brandis, Ind. Trees, 1906, p. 483; Prain, J. As. Soc. Beng. 74, II, 1906, p. 289; Ridl., Fl. Mal. Pen. 2, 1923, p. 445; Kerr, Fl. Siam. En. 3, 1951, p. 95; Hoogl., Fl. Mal. I, 4, 1953, p. 426. — *E. paniculata* var. *expansa* (Wall. ex G. Don) Choisy ex DC., Prod. 9, 1845, p. 464; Miq., Fl. Ind. Bat. 2, 1859, p. 1032. — *E. ferruginosa* Griff., Notul. 4, 1854, p. 283.

Types: *E. expansa*: Wallich 1331/2, lectotype in K, isotypes in K, G; paratypes Wallich 1331/1 (B, G, K); *E. ferruginosa*: Griffith s.n., holotype and isotype in K.

Distr. Peninsular Burma and Siam and (?) Nicobar Islands.

Wallich 1331 as a whole is the type of the species. This collection consists of specimens representing two species, the present one and *E. peguensis* (Clarke) Prain. Clarke was the first to realise this, and he retained the name *E. expansa* for the species represented by the collection from Tavoy (1331/2). As to the typification of the species he must be followed. The two species are here considered to be distinct, though narrowly related.

There is only a single, fragmentary, old collection from the Nicobar Islands (*Anonymus* 225, G).

17. *Erycibe festiva* Prain, J. As. Soc. Beng. 58, II, 1894, p. 87; Prain, J. As. Soc. Beng. 65, II, 1896, p. 536; Prain, J. As. Soc. Beng. 74, II, 1906, p. 292; Ridl., Fl. Mal. Pen. 2, 1923, p. 447; Burk. & Henders., Gard. Bull. S. S. 3, 1925, p. 400; Hoogl., Fl. Mal. I, 4, 1953, p. 417.

Types: *Kunstler* 6445, lectotype in CAL, isotypes in B, BM, G, K, L, SING, UC; paratype *Hullett* 624 (not seen).

Distr. Malay Peninsula, Banka, Java.

18. *Erycibe floribunda* Pilger, Bot. Jahrb. 59, 1924, p. 84; Van Ooststr., J. Arn. Arb. 29, 1948, p. 416; Hoogl., Fl. Mal. I, 4, 1953, p. 420.

Types: *Moszkowski* 308, lectotype in B; paratype *Moszkowski* 305 (B).

Distr. New Guinea.

19. *Erycibe forbesii* Prain, J. As. Soc. Beng. 73, II, 1904, p. 15; Moore, J. of Bot. 62, 1924, Suppl. p. 71; Hoogl., Fl. Mal. I, 4, 1953, p. 420.

Types: *Forbes* 1454, holotype in CAL, isotypes in B, BM, FI, K, SING.

Distr. Sumatra, Java, Kangean Archipelago, Borneo, Philippines.

The Philippine specimens differ from the Sumatran and Javanese ones in fruiting stage, the fruit being scurfy for the whole surface, whereas it is smooth in the lower part, scurfy in the upper part in the Sumatran and Javanese specimens. I have not been able to find reliable differences in the flowering specimens. The only specimen known from Borneo is a flowering one.

20. *Erycibe glaucescens* Wall. [Cat., 1828, no 1334] ex Choisy, Ann. Sc. Nat. Sér. 2, 1, 1834, p. 223; G. Don, Gen. Hist. Dichl. Pl. 4, 1838, p. 392; DC., Prod. 9, 1845, p. 464; Miq., Fl. Ind. Bat. 2, 1859, p. 1033, p.p.; Kurz, For. Fl. Br. Burma 2, 1877, p. 213; Clarke, Fl. Br. Ind. 4, 1883, p. 181; Brandis, Indian Trees, 1906, p. 484; Kanjilal, Das, Kanjilal. & De, Fl. Assam 3, 1939, p. 361. — *E. laevigata* Wall. [Cat., 1828, no 1333, p.p.]

ex Choisy, Ann. Sc. Nat. Sér. 2, 1, 1834, p. 223; G. Don, Gen. Hist. Dichl. Pl. 4, 1838, p. 392; DC., Prod. 9, 1845, p. 464; Drury, Handb. Ind. Fl. 2, 1866, p. 323.

Types: *E. glaucescens*: Wallich 1334, holotype in G, isotypes in B, G, K; *E. laevigata*: Wallich 1333, holotype in G, isotypes in B, BM, E, G, K, L.

Distr. Bengal (Silhet) and Peninsular Burma.

Under Wallich 1333 2 species are represented. The one described by Choisy is slightly different from *E. glaucescens* Wall. ex Choisy, though I think not specifically. The other, for which the name *E. laevigata* has usually been used, should probably be named *E. schmidtii* Craib (see there).

21. *Erycibe glomerata* Bl., Bijdr. 16, 1826, p. 1047; G. Don, Gen. Hist. Dichl. Pl. 4, 1838, p. 392; Miq., Fl. Ind. Bat. 2, 1859, p. 1033; Hallier f., Bull. Herb. Boiss. 5, 1897, p. 382; Koord., Exk. Fl. Java 3, 1912, p. 115; Van Ooststr. in Back., Bekn. Fl. Java (Nooduitg.) 8, 1949, fam. 191, p. 8; Hoogl., Fl. Mal. I, 4, 1953, p. 419. — *E. glomerata* var. *longifolia* Bl., Bijdr. 16, 1826, p. 1047; G. Don, Gen. Hist. Dichl. Pl. 4, 1838, p. 392; Hallier f., Bull. Herb. Boiss. 5, 1897, p. 382; Merr., Bibl. En. Born. Pl., 1921, p. 507 (excl. syn. *E. longifolia* Becc.); Masamune, En. Phan. Born., 1942, p. 633. — *E. angustifolia* Hallier f., Bot. Jahrb. 16, 1893, p. 524.

Types: *E. glomerata*: Blume 720, lectotype in L, paratypes Blume s.n. (L, U); *E. glomerata* var. *longifolia*: Blume s.n., lectotype in L; paratypes Blume 1721 (L), Blume s.n. (NY); *E. angustifolia*: Beccari PB 183, holotype in M, isotypes in BM, BO, FI, G, K, P, UC.

Ssp. *glomerata*. — *E. glomerata* Bl., *E. glomerata* var. *longifolia* Bl.

Distr. Sumatra, Java.

Ssp. *angustifolia* (Hallier f.) Hoogl., Fl. Mal. I, 4, 1953, p. 419. — *E. angustifolia* Hallier f.

Distr. Borneo.

The two subspecies differ primarily in the indumentum on the outer side of the sepals. I do not think the differences are sufficient to keep them apart as distinct species, but in view of the geographical isolation I have given them the rank of subspecies.

22. *Erycibe grandiflora* Adelb. in Hoogl., Blumea 7, 1953, p. 313; Hoogl., Fl. Mal. I, 4, 1953, p. 428.

Types: Cultivated in Hortus Bogoriensis under no XVI. A. 2a, holotype in L, isotypes in BO; paratypes idem XVI. A. 2 (B, BO, L), Beccari PP 920 (FI), Britton & Winder 71 (A, L), Ledermann 10434 (L), Meyer Drees 224 (BO), Feuilletau de Bruyn 323 (L), Ledermann 10434 (L), Meyer Drees 224 (BO), Womersley NGF 4362 (L).

Distr. New Guinea.

23. *Erycibe grandifolia* Merr. ex Hoogl., Blumea 7, 1953, p. 313; Hoogl., Fl. Mal. I, 4, 1953, p. 420. — *E. angulata* Auct. non Prain; Merr., J. Mal. Br. R. A. S. 1, 1923, p. 29; Merr., Univ. Calif. Publ. Bot. 15, 1929, p. 259; Masamune, En. Phan. Born., 1942, p. 633. — *E. rheedii* Auct. non Bl.; Merr., Philip. J. Sc. 29, 1926, p. 413; Masamune, En. Phan. Born., 1942, p. 633.

Types: *Elmer 21455*, Tawao, Elphinstone Prov., British North Borneo, X. 1922—III. 1923, holotype in L, isotypes in A, B, BM, BO, C, G, K, MO, NY, P, SING, U, UC; paratypes *Agama 705*, near Betotan River, Sandakan District, British North Borneo, 29. V. 1919 (A, K, P); *Agama & Kadir A 2818*, Lun Manggis, Sandakan, British North Borneo, 21. V. 1950 (SING); *Castro & Melegrito 1608*, Banguey Island, British North Borneo (A, BO, K, UC); *Elmer 21313*, Tawao, Elphinstone Prov., British North Borneo, X. 1922—III. 1923 (A, B, BM, BO, C, G, K, L, MO, NY, P, SING, U, UC); *Elmer 21824*, same data (A, B, BM, BO, C, G, K, L, MO, NY, P, SING, U, UC); *Ender 4872*, near Long Pukus, W. Kutai, alt. 80 m, 14. XI. 1925 (BO); *Van Slooten 2254*, NE of Stagen, Pulau Laut, alt. 75 m, 5. XI. 1928 (BO); *Van Slooten 2283*, same locality, alt. 100 m, 6. XI. 1928 (BO).

Distr. Borneo, along the E. coast from N. to S.

The specimens cited above certainly do not belong to *E. rheedii* Bl. (syn.: *E. angulata* Prain), but represent a good species, characterised by the impressed venation below and the short, dark purplish red indumentum of different parts.

24. *Erycibe griffithii* Clarke. Fl. Br. Ind. 4, 1883, p. 182; Prain, J. As. Soc. Beng. 63, II, 1894, p. 85; Hallier f., Bull. Herb. Boiss. 5, 1897, p. 738, p.p.; Brandis, Ind. Trees, 1906, p. 295; Ridl., Fl. Mal. Pen. 2, 1923, p. 447; Burk. & Henders., Gard. Bull. S. S. 3, 1925, p. 400; Kerr, Fl. Siam. En. 3, 1951, p. 96 (syn. *E. maingayi* excl.: Hallier f. 1897, Prain 1906, Ridl. 1923); Hoogl., Fl. Mal. I, 4, 1953, p. 411, f. 13. — *E. cupreum* Gagnep., Not. Syst. 14, 1950, p. 27.

Types: *E. griffithii*: *Griffith s.n.*, lectotype in K; paratypes *Griffith s.n.* (distr. 5880) (K), *Maingay 2572* (distr. 1520) (K); *E. cupreum*: *Poilane 29904*, lectotype and isotype in P; paratype *Poilane 29846* (P).

Distr. Indo-China, Peninsular Burma and Siam, Malay Peninsula.

25. *Erycibe hainanensis* Merr., Philip. J. Sc. 21, 1922, p. 353; Merr., Lingn. Sc. J. 5, 1927, p. 153; Masamune, Fl. Kainant., 1943, p. 272; How, Sunyatsenia 6, 1946, p. 223. — *E. bachmaense* Gagnep., Not. Syst. 14, 1950, p. 27.

Types: *E. hainanensis*: *MacClure 8547*, lectotype in A, isotypes in K, MO, NY, P; *E. bachmaense*: *Poilane 29895*, lectotype and isotypes in P.

Distr. China (Hainan, Kwantung) and Indo-China.

I do not agree with Gagnepain in his opinion that *Poilane 29895* represents a different species. The flowerbuds are too young to see the character of the fimbriate margin of the lobules of the corolla, and the indicated difference in the indumentum of the leaves is insufficient for specific distinction as this character is rather variable in the Hainan specimens; the latter may be nearly identical to *Poilane 29895*.

26. *Erycibe hellwigii* Prain, J. As. Soc. Beng. 63, II, 1894, p. 84, note; K. Schum. & Laut., Fl. Deut. Schutzgeb. Südsee, 1901, p. 518, p.p.; Moore, J. of Bot., 61, 1923, Suppl. p. 37; Van Ooststr., J. Arn. Arb. 29, 1948, p. 414; Hoogl., Fl. Mal. I, 4, 1953, p. 423. — *E. paniculata* Auct. non Roxb.; Warb., Bot. Jahrb. 13, 1891, p. 413, p.p.

Types: *Hellwig 87*, lectotype in CAL, isotypes in B, BM, BO, K; paratype *Forbes 439* (BO, FI, K, L).

Distr. New Guinea.

27. *Erycibe henryi* Prain, J. As. Soc. Beng. 73, II, 1904, p. 15; Dunn, J. Linn. Soc. Bot. 39, 1911, p. 446; Sasaki, Cat. Govt Herb. Formosa, 1930, p. 424; Yamamoto, J. Soc. Trop. Agric. 6, 1934, p. 552; How, Sunyatsenia 6, 1946, p. 225. — *E. obtusifolia* Auct. non Benth.; Hayata, Ic. Pl. Formos. 2, 1912, p. 122, and Suppl. to Vol. 6, 1917, p. 50. — *E. acutifolia* Hayata, Ic. Pl. Formos. 9, 1919, p. 76; Yamamoto, Suppl. Ic. Pl. Formos. 1, 1925, p. 44; Sasaki, Cat. Govt Herb. Formosa, 1930, p. 424.

Types: *E. henryi*: Henry 1884, lectotype in CAL, isotypes in A, BM, E, NY; *E. acutifolia*: Hayata & Sasaki s.n. (Formosa Herbarium 20525), holotype in Formosa Herbarium, photo of holotype in A.

Distr. Formosa, Liukiu Islands, S. Japan (Yakushima).

I have not seen the figure of this species in Makino & Nemoto, Nippon-shokubutsu-sôran (Flora of Japan), 2nd ed., 1931, p. 974.

28. *Erycibe hollrungii* Hoogl., Blumea 7, 1953, p. 314; Hoogl., Fl. Mal. I, 4, 1953, p. 418. — *E. paniculata* Auct. non Roxb.; K. Schum. & Hollr., Fl. Kais. Wilhelmsl., 1889, p. 114. — *E. hellwigii* Auct. non Prain; K. Schum. & Laut., Fl. Deut. Schutzgeb. Südsee, 1901, p. 518, p.p.

Types: *Hollrung s.n.*, holotype in B, isotypes in B, BO, K, L, P.

Distr. New Guinea.

29. *Erycibe impressa* Hoogl., Blumea 7, 1953, p. 314; Hoogl., Fl. Mal. I, 4, 1953, p. 430.

Types: *Clemens 29099*, Kundusan, Kinabalu, British North Borneo, alt. 50 m, 10. IV. 1932, holotype in L, isotypes in A, BM, BO, G, K.

Distr. British North Borneo, once collected.

30. *Erycibe induta* Pilger, Bot. Jahrb. 59, 1924, p. 86; Hoogl., Fl. Mal. I, 4, 1953, p. 430.

Types: *Ledermann 10397*, holotype in B, isotypes in K, L.

Distr. New Guinea.

31. *Erycibe kinabaluensis* Hoogl., Blumea 7, 1953, p. 315; Hoogl., Fl. Mal. I, 4, 1953, p. 416.

Type: *Carr SF 27115*, Upper Kinunut Valley, Kinabalu, British North Borneo, alt. 1200 m, 26. IV. 1933, holotype in SING.

Distr. Borneo, once collected.

32. *Erycibe leucoxyloides* King ex Prain, J. As. Soc. Beng. 73, II, 1904, p. 16; Prain, J. As. Soc. Beng. 74, II, 1906, p. 292; Ridl., Fl. Mal. Pen. 2, 1923, p. 446; Henders., Gard. Bull. S. S. 4, 1927, p. 100; Henders., Gard. Bull. S. S. 4, 1928, p. 292; Hoogl., Fl. Mal. I, 4, 1953, p. 415.

Types: *Ridley 6897*, lectotype in CAL, isotypes in BM, K, SING; paratypes: *Curtis 2402* (BM, SING), *Hallier s.n.* (G, L), *Ridley 2051* (not seen), *Ridley 10927* (not seen).

Distr. Malay Peninsula.

33. *Erycibe macrophylla* Hallier f., Bull. Herb. Boiss. 5, 1897, p. (739), 741; Koord., Exk. Fl. Java 3, 1912, p. 115; Dakkus, Bull. Jard. Bot. Btzg Suppl. 1, 1930, p. 131; Hoogl., Fl. Mal. I, 4, 1953, p. 424.

Types: *Hallier C 22a*, lectotype in L, isotypes in L, G; paratypes *Hallier C 22b* (G), C. H. B. XVI. A. 13 (BO), *Kurz s.n.* (not seen).

Distr. Java.

34. *Erycibe magnifica* Prain, J. As. Soc. Beng. 73, II, 1904, p. 18; Prain, J. As. Soc. Beng. 74, II, 1906, p. 289; Ridl., Fl. Mal. Pen. 2, 1923, p. 445; Burk. & Henders., Gard. Bull. S. S. 3, 1925, p. 400; Hoogl., Fl. Mal. I, 4, 1953, p. 412.

Types: *Kunstler 3454*, lectotype in OAL, isotypes in BM, E, K, SING, UC; paratypes: *Kunstler 3897* (K, P), *Kunstler 6721* (K).

Distr. Malay Peninsula.

35. *Erycibe maingayi* Clarke, Fl. Br. Ind. 4, 1883, p. 182; Hallier f., Bull. Herb. Boiss. 5, 1897, p. 1052; Hoogl., Fl. Mal. I, 4, 1953, p. 417. — *E. griffithii* Auct. non Clarke; Prain, J. As. Soc. Beng. 74, II, 1906, p. 295, p.p.; Ridl., Fl. Mal. Pen. 2, 1923, p. 447, p.p.

Types: *Maingay 1718* (distr. 1156), lectotype and isotype in K.

Distr. Sumatra, Malay Peninsula, Borneo.

36. *Erycibe malaccensis* Clarke, Fl. Br. Ind. 4, 1883, p. 182; Prain, J. As. Soc. Beng. 63, II, 1894, p. 85; Prain, J. As. Soc. Beng. 74, II, 1906, p. 291; Ridl., Fl. Mal. Pen. 2, 1923, p. 446; Burk. & Henders., Gard. Bull. S. S. 3, 1925, p. 400; Burk., Diet. Econ. Prod. Mal. Pen., 1935, p. 944; Hoogl., Fl. Mal. I, 4, 1953, p. 428. — *E. paniculata* Auct. non Roxb.; Naves & Villar, Novissima Appendix, 1880, p. 139; Vidal, Sinopsis, 1883, p. 195, Atlas t. 71, f. A; Vidal, Revis. Pl. Vasc. Filip., 1886, p. 195. — *E. dubia* Elm., Leaflet. Philip. Bot. 2, 1909, p. 589; Merr., En. Philip. Fl. Pl. 3, 1923, p. 358. — *E. celebica* Hallier f. in Elbert, Sunda-Exped., 1912, p. 286, nomen.

Types: *E. malaccensis*: *Maingay 2209* (distr. 1154), lectotype in K; paratypes *Griffith s.n.* (K), *Lobb s.n.* (K), *Maingay 2205* (distr. 1154) (K), *Maingay 2209A* (distr. 1154) (K), *Maingay* (distr. 1154) (B, L); *E. dubia*: *Elmer 10342*, lectotype in L, isotypes in A, BM, BO, E, FI, G, K, MO, NY.

Distr. Peninsular Burma, Malay Peninsula, Philippines, Celebes.

37. *Erycibe micrantha* Hallier f., Bot. Jahrb. 16, 1893, p. 524; Hoogl., Fl. Mal. I, 4, 1953, p. 412. — *E. griffithii* Auct. non Clarke; Hallier f., Versl. Plantent. Btzg 1895, Bijl. 2, 1896, p. 126; Merr., En. Philip. Fl. Pl. 3, 1923, p. 358; Dakkus, Bull. Jard. Bot. Btzg Suppl. 1, 1930, p. 131. — *E. lateraliflora* Elm., Leaflet. Philip. Bot. 5, 1913, p. 1767; Merr., Philip. J. Soc. Bot. 11, 1916 (issued 1917), p. 309 (*lateriflora*). — *E. javanica* Koord. & Val., Bijdr. 13 Booms. Java, 1914, p. 37; Van Ooststr. in Back., Bekn. Fl. Java (nooduitg.) 8, 1949, fam. 191, p. 9.

Types: *E. micrantha*: *Cuming 1743*, lectotype in G, isotypes in FI, G, K; *E. lateraliflora*: *Elmer 12750*, lectotype in L, isotypes in A, B, BM, BO, E, FI, G, K, MO, NY, P, U; *E. javanica*: *Koorders 9985* β , lectotype in BO, isotypes in BO, L.

Distr. Sumatra, Java, Borneo, Philippines, Moluccas.

38. *Erycibe myriantha* Merr., Lingn. Sc. J. 13, 1934, p. 70; Masamune, Fl. Kainant., 1943, p. 272; How, Sunyatsenia 6, 1946, p. 224.

Types: *Tsang & Fung (555) L. U. 18089*, holotype in NY, isotypes in A, BM, BO, E, G, K, MO, NY, P, SING.

Distr. Hainan.

39. *Erycibe nitidula* Pilger, Bot. Jahrb. 59, 1924, p. 85; Hoogl., Fl. Mal. I, 4, 1953, p. 422.

Types: *Schlechter 16941*, holotype in B, isotypes in P, UC

Distr. New Guinea.

40. *Erycibe obtusifolia* Benth., Fl. Honkong., 1861, p. 236; Forb. & Hemsl., J. Linn. Soc. Bot. 26, 1890, p. 156; Dunn & Tutcher, Kew Bull. Add. Ser. 10, 1912, p. 178; Merr., Lingn. Sc. J. 11, 1932, p. 55; Handel-Mazz., Beih. Bot. Centralbl. 56, 1937, p. 451; Masamune, Fl. Kainant., 1943, p. 272; How, Sunyatsenia 6, 1946, p. 225. — *E. glaucescens* Auct. non Wall. ex Choisy; Hook. & Arn., Bot. Beechey's Voy., 1841, p. 201. — *E. boniana* Gagnep., Not. Syst. 3, 1915, p. 137; Gagnep. & Courch., Fl. Gén. Ind.-Ch. 4, 1915, p. 309. — *E. laevigata* Auct. non Wall. ex Choisy nec aliores; How, Sunyatsenia 6, 1946, p. 228.

Types: *E. obtusifolia*: *Makikis (?) 165* (Herb. Benthamianum), lectotype in K; *E. boniana*: *Bon 4333*, lectotype and isotypes in P.

Distr. China (Hongkong, Kwangtung, Hainan), Indo-China (Tonkin).

I cannot agree with How, who considers the Hainan specimens cited by Merrill to represent *E. laevigata* (neither the true *laevigata* = *E. glaucescens*, nor *E. schmidtii*). The specimens differ slightly from the other Chinese specimens by the shape of the apex of the leaves, but I do not believe that this is of specific value.

41. *Erycibe oligantha* Merr. & Chun, Sunyatsenia 5, 1940, p. 175; How, Sunyatsenia 6, 1946, p. 225. — *E. pallidifolia* Merr. & Chun ex Tanaka & Odashima, J. Soc. Trop. Agric. 10, 1938, p. 379, nomen; Masamune, Fl. Kainant., 1943, p. 272, nomen.

Types: *How 73077*, holotype in A, isotypes in BM, BO, G, P; paratypes *How 72543* (A, BM, G, P), *How 73260* (A, BM, P), *Liang 65192* (A).

Distr. Hainan.

42. *Erycibe paniculata* Roxb., Pl. Corom. 2, 1798, p. 31, t. 159; Poir., Encycl. Méth. Suppl. 2, 1811, p. 582; Roxb., Hort. Beng., 1814, p. 16; Roxb., Fl. Ind. (ed. Carey & Wall.) 2, 1824, p. 284; Wall., Cat., 1828, no 1330; Roxb., Fl. Ind. (ed. Carey) 1, 1832, p. 585; Choisy, Ann. Sc. Nat. Sér. 2, 1, 1834, p. 222; G. Don, Gen. Hist. Diehl. Pl. 4, 1838, p. 392; Grah., Cat. Pl. Bomb. & Vicin., 1839, p. 137; DC., Prod. 9, 1845, p. 464; Voigt, Hort. Suburb. Calc., 1845, p. 441; Wight, Ill. Ind. Bot. 2, 1850, p. 226, t. 180; Dalz. & Gibs., Bomb. Fl., 1861, p. 169; Thwaites, En. Pl. Zeyl., 1864, p. 213; Schnizl., Iconogr. 2, 1843—70, t. 144; Drury, Handb. Ind. Fl. 2, 1866, p. 323; Brandis, For. Fl. N.W. & C. India, 1874, p. 344; Clarke, Fl. Br. Ind. 4, 1883, p. 180 (excl. syn. *E. rheedii* Bl.); Watt, Dict. Econ. Prod. Ind. 3, 1890, p. 268; Talbot, Syst. List Bomb. Pres., 1894, p. 146; Trim., Handb. Fl. Ceyl., 3, 1895, p. 205; Gamble, Manual Ind. Timb. 2nd ed., 1902, p. 505; Talbot, Trees Shrubs Woody Climbers Bombay Pres. 2nd ed., 1902, p. 247; Prain, Bengal Pl., 1903, p. 724; Cooke, Fl. Pres. Bomb. 2, 1905, p. 225; Brandis, Indian Trees, 1906, p. 483; Duthie, Fl. Upp. Gang. Pl. 2, 1911, p. 101; Kirtikar, Basu, & An, Ind. Med. Pl., 2nd ed., 1918, p. 1704, t. 654 A; Haines, Bot. Bihar & Orissa 4, 1922,

p. 605; Gamble, Fl. Pres. Madras 5, 1923, p. 930; Alston, Handb. Fl. Ceyl. 6 (Suppl.), 1931, p. 201; Clarke in Kanjilal, Das, Kanjilal, & De, Fl. Assam 3, 1939, p. 360. — *Erima-tály* Rheede, Hort. Malab. 7, 1688, p. 73, t. 39; Lam., Dict. 2, 1786, p. 385. — *Catonia glauca* Vahl, Skrivt. Nat. Hist. Selsk. Kjøbenh. 6, 1810, p. 99. — *C. elliptica* Vahl, Skrivt. Nat. Hist. Selsk. Kjøbenh. 6, 1810, p. 101. — *Erimatalia rheedii* Roem. & Schult., Syst. Veg. 5, 1819, p. 331. — *Erycibe wightiana* Grah., Cat. Pl. Bomb. & Vicin., 1839, p. 137; Dalz. & Gibs., Bomb. Fl., 1861, p. 170; Drury, Handb. Ind. Fl. 2, 1866, p. 324; Brandis, Indian Trees, 1906, p. 483; Gamble, Fl. Pres. Madras 5, 1923, p. 930. — *E. paniculata* var. *wightiana* (Grah.) Clarke, Fl. Br. Ind. 4, 1883, p. 180; Woodrow, J. Bomb. Nat. Hist. Soc. 12, 1898, p. 170; Cooke, Fl. Pres. Bomb. 2, 1905, p. 225. — *E. albiflora* Hallier f., Bull. Herb. Boiss. 5, 1897, p. 1052; Prain, J. As. Soc. Beng. 73, II, 1904, p. 14; Brandis, Indian Trees, 1906, p. 714; Clarke in Kanjilal, Das, Kanjilal, & De, Fl. Assam 3, 1939, p. 361.

Types: *E. paniculata*: Roxburgh 68, lectotype in BR; *Catonia glauca*: König s.n., lectotype and isotypes in C; *C. elliptica*: collector unknown, lectotype and isotype in C; *Erimatalia rheedii*: Rheede, l. c. t. 39; *Erycibe wightiana*: Graham s.n. unknown to me; *E. albiflora*: I leave the indication of a lectotype to future authors on *Erycibe* in India, best to be selected from material seen by Hallier f. (B, G, L).

Distr. Ceylon, India, and Pakistan, not W. of Bombay.

I have studied a number of specimens from the Indian peninsula, considered to represent partly *E. paniculata* s.s., partly *E. wightiana*. I have not been able to find a good difference to separate the two species in the herbarium, and I have therefore considered them to be identical. *Catonia glauca*, however, from Ceylon is slightly different and may represent a good species, for which the epithet shall then have to be transferred to *Erycibe*. I have not studied these specimens sufficiently to decide this matter. The epithet *elliptica* from *Catonia elliptica* may have to be used if *E. wightiana* is considered a good species.

Erycibe albiflora was named by Hallier f. for "*E. laevigata* Prain non Wall.". The specimens in the herbaria which I have seen under this name, named by Hallier f., do not look to me specifically different from *E. paniculata* Roxb. and certainly do not represent *E. laevigata* Prain non Wall. = *E. cf. schmidtii* Craib. Some had been labeled "*E. laevigata* Wall.".

In Wight's figure (1850) the structure of the stigma is given about as it is in *E. sapotacea* Prain (cf. Flora Malesiana). I have not found this structure in any of the specimens from Peninsular India I have studied.

43. *Erycibe papuana* Wernh., Trans. Linn. Soc. Bot. 9, 1916, p. 118; Hoogl., Fl. Mal. I, 4, 1953, p. 422.

Type: Kloss s.n., holotype in BM.

Distr. New Guinea.

44. *Erycibe pedicellata* Ridl. ex Hoogl., Blumea 7, 1953, p. 315; Hoogl., Fl. Mal. I, 4, 1953, p. 410.

Types: Beccari P.B. 3271, Marop, Batang-Lupar, Sarawak, IV. 1867, holotype in K, isotypes in FI, G, P.

Distr. Borneo (Sarawak).

45. *Erycibe peguensis* (Clarke) Prain, J. As. Soc. Beng. 63, II, 1894, p. 83; Prain, Bengal Pl., 1903, p. 724; Brandis, Indian Trees, 1906, p. 483; Clarke in Kanjilal, Das, Kanjilal, & De, Fl. Assam 3, 1939, p. 362. — *E. expansa* Wall. [Cat., 1828, no 1331, p.p.] ex G. Don, Gen. Hist. Diehl. Pl. 4, 1837, p. 392, p.p., lectotypo excluso. — *E. paniculata* var.; Kurz, J. As. Soc. Beng. 45, II, 1876, p. 141. — *E. paniculata* Auct. non Roxb.; Kurz, For. Fl. Br. Burma 2, 1877, p. 213; Parkinson, For. Fl. Andam. Isls, 1923, p. 212; Kerr, Fl. Siam. En. 3, 1951, p. 97. — *E. paniculata* var. *peguensis* Clarke, Fl. Br. Ind. 4, 1883, p. 180.

Types: *E. paniculata* var. *peguensis*: Griffith 686 (distr. 5885), lectotype in K, isotypes in B, P; paratypes: *Falconer s.n.* (not seen), *Hooker & Thomson s.n.* (B, P), *Parish s.n.* (not seen).

Distr. Assam, Bengal, Burma, Andaman and Nicobar Islands.

46. *Erycibe praecipua* Prain, J. As. Soc. Beng. 63, II, 1894, p. 86; Prain, J. As. Soc. Beng. 74, II, 1906, p. 294; Ridl., Fl. Mal. Pen. 2, 1923, p. 447; Burk. & Henders., Gard. Bull. S. S. 3, 1925, p. 400; Hoogl., Fl. Mal. I, 4, 1953, p. 409, f. 12 a—b.

Types: *Curtis 911*, collected VII. 1886, lectotype in CAL, isotypes in K, L, SING; paratypes: *Curtis 911*, collected 1890 (E), *Curtis 1273* (K, SING), *Curtis = 1273* (K, SING).

Ssp. *praecipua*.

Distr. Malay Peninsula.

Ssp. *borneensis* Hoogl., Blumea 7 (1953) p. 315; Hoogl., Fl. Mal. I, 4, 1953, p. 410, f. 12 c.

Types: *Clemens 50087*, ridge E of Dahobang River, Penibukan, Kinabalu, British North Borneo, 1200 m, 2. XI. 1933, holotype in L, isotypes in A, BM, G, K, UC.

Distr. Borneo (Kinabalu).

The Bornean collection differs from the Malayan ones by the distinctly larger leaves and the much laxer inflorescences. Because of its geographical isolation I have given it subspecific rank.

47. *Erycibe puberula* Hoogl., Blumea 7, 1953, p. 316; Hoogl., Fl. Mal. I, 4, 1953, p. 429.

Types: *Meyer Drees 497*, Bernhard Bivouac, North New Guinea, alt. 50 m, 3. VIII. 1938, holotype and isotypes in BO; paratype *Brass 12803*, 6 km SW of Bernhard Camp, Idenburgh River, North New Guinea, alt. 1200 m, II. 1939 (A, L).

48. *Erycibe ramiflora* Hallier f., Ann. Jard. Bot. Btzg 14, 1897, p. 352; Hallier f., Bull. Herb. Boiss. 5, 1897, p. 743; Dakkus, Bull. Jard. Bot. Btzg Suppl. 1, 1930, p. 131; Hoogl., Fl. Mal. I, 4, 1953, p. 413, f. 14—15. — *E. cauliflora* Hallier f. ex Costerus & J. J. Sm., Ann. Jard. Bot. Btzg 19, II, 4, 1904, p. 160, t. 23, f. 68, sphalm. (teratology).

Types: *Hallier C21c*, lectotype in L, isotypes in L, G; paratype: *Teysmann HB 3692* (not seen), cultivated in Hortus Bogoriensis (BO, G, L).

Distr. Sumatra.

49. *Erycibe ramosii* Hoogl., Blumea 7, 1953, p. 316; Hoogl., Fl. Mal. I, 4, 1953, p. 419.

Types: *Ramos BS 15096*, San Antonio, Laguna Prov., Luzon, VI. 1912, holotype in K; paratypes: *Alvarez FB 12973*, Bataan Prov., Luzon, XII. 1909 (K), *Mabesa FB 26910*, Los Banos, Laguna Prov., Luzon, VIII—IX. 1917 (A, BM, K, NY, P), *Wenzel 1100*, Leyte, 9. IX. 1914 (A, BM, G).

Distr. Philippines.

A yet little known species, the holotype collection being the only one in flower. By its distinctly rimose branches, by a (in the herbarium) different colour of the leaves, and by a different shape of the latter not difficult to distinguish from *E. terminaliflora* Elm.

50. *Erycibe rheedii* Bl., Bijdr. 16, 1826, p. 1047; G. Don, Gen. Hist. Diehl. Pl. 4, 1838, p. 392; Koord., Exk. Fl. Java 3, 1912, p. 115; Koord. & Val., Bijdr. 13 Booms. Java, 1914, p. 33; Van Ooststr. in Back., Bekn. Fl. Java (nooduitg.) 8, 1949, fam. 191, p. 9; Hoogl., Fl. Mal. I, 4, 1953, p. 425. — *E. paniculata* Auct. non Roxb.; Miq., Fl. Ind. Bat. 2, 1856, p. 1032 et Suppl. 1, 1860, p. 248, 578. — *E. angulata* Prain, J. As. Soc. Beng. 63, II, 1894, p. 84; Prain, J. As. Soc. Beng. 74, II, 1906, p. 291; Ridl., Fl. Mal. Pen. 2, 1923, p. 448; Henders., Gard. Bull. S. S. 4, 1928, p. 292; Burk., Dict. Econ. Prod. Mal. Pen., 1935, p. 943.

Types: *E. rheedii*: Blume 648, lectotype in L; paratypes Blume s.n. (L, P, U); *E. angulata*: Kunstler 7379, lectotype in CAL, isotypes in B, BM, G, K, L, P, SING; paratypes Kurz s.n. (not seen), Scortechini 1816 (K, SING), Teysmann HB 3632 (BO, U).

Distr. Sumatra, Malay Peninsula, Java, Borneo.

51. *Erycibe sapotacea* Hallier f. & Prain ex Prain, J. As. Soc. Beng. 73, II, 1904, p. 16; Prain, J. As. Soc. Beng. 74, II, 1906, p. 293; Ridl., Fl. Mal. Pen. 2, 1923, p. 447; Hoogl., Fl. Mal. I, 4, 1953, p. 409, f. 11.

Types: Curtis 772, holotype in CAL, isotypes and paratypes in CAL, K, P, SING.

Distr. Malay Peninsula (Penang).

The species was originally described on fruits only. In some specimens of Curtis 772 (which consists of more than one collection, all from the locality) there are flowers.

52. *Erycibe sargentii* Merr., Philip. J. Sc. Bot. 13, 1918, p. 56; Merr., En. Philip. Fl. Pl. 3, 1923, p. 359; Hoogl., Fl. Mal. I, 4, 1953, p. 413.

Types: Williams 593, lectotype and isotype in NY; paratypes: Adduru 18 (A, K, MO, P), Cuming 1071 (BM, FI, G, K), Madarang s.n. (not seen), Otanes BS 17696 (L), Williams 798 (NY).

Distr. Philippines.

53. *Erycibe schlechteri* Pilger, Bot. Jahrb. 59, 1924, p. 85; Hoogl. Fl. Mal. I, 4, 1953, p. 429.

Types: Schlechter 20286, holotype in B, isotypes in BR, K.

Distr. New Guinea.

54. *Erycibe schmidtii* Craib, Bot. Tidsskr. 32, 1916, p. 352; Kerr, Fl. Siam. En. 3, 1951, p. 98. — *E. laevigata* [Wall., Cat., 1828, no 1333, nomen, p.p.] Auct. non Wall. ex Choisy; Clarke, Fl. Br. Ind. 4, 1883, p. 181; Gamble, List Darjeeling Distr. Beng. 2nd ed., 1896, p. 58; Gamble, Man. Ind. Timb. 2nd ed., 1902, p. 506; Brandis, Indian Trees, 1906, p. 483, 714; Dunn, J. Linn. Soc. Bot. 39, 1911, p. 446; Gagnep. & Curch., Fl. Gén. Ind.-Ch. 4, 1915, p. 306; Clarke in Kanjilal, Das, Kanjilal, & De, Fl. Assam 3, 1939, p. 361. — *E. semipilosa* Gagnep., Not. Syst. 14, 1950, p. 28.

Types: *E. schmidtii*: Schmidt 686b, holotype in ♀, isotype in K; *E. semipilosa*: Poilane 6193, lectotype and isotype in P.

Distr. Sikkim, Bengal, Assam, Burma, Siam, Indo-China, China (Yunnan).

The isotype present in the Kew herbarium is a bad fragmentary specimen. I am not quite sure that indeed the present species is thus properly named; it is possible that the species should be named *E. semipilosa*, and that *E. schmidtii* is a good species, different from the latter. The holotype is possibly in the Aberdeen herbarium; it is not in Copenhagen.

In the type of *E. semipilosa* the 2 outer sepals are glabrous outside, the 2 inner ones are hairy; not all sepals are glabrous as described by Gagnepain.

5. *Erycibe sericea* Hoogl., Blumea 7, 1953, p. 317; Hoogl., Fl. Mal. I, 4, 1953, p. 416.

Type: *Vidal 3361*, Malamaui Island, Philippines, holotype in K.

Distr. Malamaui Island (Philippines).

56. *Erycibe stapfiana* Prain, J. As. Soc. Beng. 58, II, 1894, p. 87; Brandis, Indian Trees, 1906, p. 484; Prain, J. As. Soc. Beng. 74, II, 1906, p. 293; Ridl., Fl. Mal. Pen. 2, 1923, p. 448; Burk. & Henders., Gard. Bull. S. S., 3, 1925, p. 400; Henders., Gard. Bull. S. S. 4, 1927, p. 100; Hoogl., Fl. Mal. I, 4, 1953, p. 423.

Types: *Kunstler 4015*, lectotype in CAL, isotypes in K, SING; paratypes: *Kunstler 4115* (BM, E, P, SING), *Kunstler 7784* (BM, G, K, NY), *Parish s.n.* (not seen), *Scortechini 1793* (B, BM, G, K, L).

Distr. Malay Peninsula and (?) Peninsular Burma.

57. *Erycibe stenophylla* Hoogl., Blumea 7, 1953, p. 317; Hoogl., Fl. Mal. I, 4, 1953, p. 415, f. 16. — *E. longifolia* Becc., Nelle Foreste Borneo, 1902, p. 403, 524, f. 65, nomen.

Types: *Beccari P.B. 2832*, rapids of the Redjang River, Sarawak, IX. 1869, holotype in FI, isotypes in FI, G, K, L.

Distr. Borneo (Sarawak).

I have not retained Beccari's epithet *longifolia* to avoid difficulties with *E. glomerata* var. *longifolia* Bl.; Merrill (Bibl. En. Born. Pl., 1921, p. 507) cited *E. longifolia* Becc. as a synonym under this variety. As Beccari's publication of the new species was not accompanied by a description nor by a figure showing any analyses, I am free to give it a new name.

58. *Erycibe strigosa* Prain, J. As. Soc. Beng. 65, II, 1896, p. 536; Prain, J. As. Soc. Beng. 74, II, 1906, p. 288; Ridl., Fl. Mal. Pen. 2, 1923, p. 445; Burk. & Henders., Gard. Bull. S. S. 3, 1925, p. 400; Hoogl., Fl. Mal. I, 4, 1953, p. 416.

Types: *Kunstler 8461*, lectotype in CAL, isotypes in B, G, K, L, SING.

Distr. Malay Peninsula.

The species is known only from the type collection with very young buds only. It is strongly characterized by the long-strigose lower surface of the leaves.

59. *Erycibe subglabra* Scheff. ex Hoogl., Blumea 7, 1953, p. 317; Hoogl., Fl. Mal. I, 4, 1953, p. 430.

Types: *Kornassi 226*, Tandjong Perigi, Ceram, seashore, 17. X. 1917, holotype in L, isotypes in BO, U; paratypes: *Warburg 17300*, Amboina (B), Cultivated in Hortus Bogoriensis, from Amboina (BO, L, MICH).

Distr. Moluccas (Ceram and Amboina).

60. *Erycibe subsericea* Hoogl., Blumea 7, 1953, p. 318; Hoogl., Fl. Mal. I, 4, 1953, p. 416.

Types: *Kostermans 5116*, along Menubar River, E. Kutei, E. Borneo, 10 m, 10. VI. 1951, holotype in BO, isotypes to be distributed to Canberra, K, L.

Distr. East Borneo.

61. *Erycibe subspicata* Wall. [Cat., 1828, no 1332, nomen] ex G. Don. Gen. Hist. Diehl. Pl. 4, 1838, p. 392; Clarke, Fl. Br. Ind. 4, 1883, p. 181; Prain, J. As. Soc. Beng. 63, II, 1894, p. 84; Brandis, Indian Trees, 1906, p. 483; Dunn, J. Linn. Soc. Bot. 39, 1911, p. 446; Clarke in Kanjilal, Das, Kanjilal, & De, Fl. Assam 3, 1939, p. 360; Merr., J. Arn. Arb. 23, 1942, p. 192; How, Sunyatsenia 6, 1946, p. 226; Kerr, Fl. Siam. En. 3, 1951, p. 98. — *E. paniculata* var. *subspicata* (Wall. ex G. Don) Choisy ex DC., Prod. 9, 1845, p. 464; Miq., Fl. Ind. Bat. 2, 1856, p. 1032.

Types: *Wallich 1332*, holotype in K, isotypes in B, G.

Distr. Bengal, Assam, Burma, Siam, Indo-China, China (Yunnan).

62. *Erycibe sumatrensis* Merr., Pap. Mich. Acad. Sc. Arts Lett. 19, 1934, p. 190; Hoogl., Fl. Mal. I, 4, 1953, p. 414.

Types: *Yates 2393*, holotype in NY (?), isotypes in A, BO, K, MICH, P.

Distr. Sumatra, once collected.

63. *Erycibe terminaliflora* Elm., Leaf. Philip. Bot. 5, 1913, p. 1768; Merr., En. Philip. Fl. Pl. 3, 1923, p. 359; Hoogl., Fl. Mal. I, 4, 1953, p. 418. — *E. hallieriana* Elm., Leaf. Philip. Bot. 7, 1915, p. 2601. — *E. pararan* Elm., Leaf. Philip. Bot. 7, 1915, p. 2603. — *E. copelandii* Elm., Leaf. Philip. Bot. 8, 1919, p. 3077. — *E. rheedii* Auct. non Bl.; Merr., En. Philip. Fl. Pl. 3, 1923, p. 358, p.p.

Types: *E. terminaliflora*: *Elmer 13221*, lectotype in L, isotypes in B, BM, BO, E, FI, G, K, MO, NY, U; *E. hallieriana*: *Elmer 10918*, lectotype in L, isotypes in A, B, BM, BO, E, FI, G, K, MO, NY, P; *E. pararan*: *Elmer 11270*, lectotype in L, isotypes in A, B, BM, BO, E, FI, G, K, MO, NY, P; *E. copelandii*: *Elmer 18001*, lectotype in L, isotypes in A, B, BM, BO, C, FI, G, K, MO, NY, P, UC.

Distr. Philippines.

Among the specimens cited by Merrill (l.c.) under *E. rheedii* are some belonging to *E. ramosii* Hoogl.

64. *Erycibe timorensis* Hallier f. ex Hoogl., Blumea 7, 1953, p. 318; Hoogl., Fl. Mal. I, 4, 1953, p. 423. — *E. rheedii* Auct. non Bl.; Spanoghe, Linnaea 15, 1841, p. 325.

Types: *Spanoghe 43*, in the mountains of Timor, holotype in L, isotype in P; paratypes: *Zippelius s.n.*, Timor (L), *Zippelius 43*, Timor (L), Timor (L).

Distr. Timor.

65. *Erycibe tomentosa* Bl., Bijdr. 16, 1826, p. 1048; G. Don, Gen. Hist. Diehl. Pl. 4, 1838, p. 392; DC., Prod. 9, 1845, p. 464; Miq., Fl. Ind.

Bat. 2, 1859, p. 1033; Koord., Exk. Fl. Java 3, 1912, p. 115; Van Ooststr., in Back., Bekn. Fl. Java (nooduitg.) 8, 1949, fam. 191, p. 8; Hoogl., Fl. Mal. I, 4, 1953, p. 426, f. 18. — *E. princi* Wall. [Cat., 1828, no 1335, nomen: *princei*] ex Choisy, Ann. Sc. Nat. Sér. 2, 1, 1834, p. 223; G. Don, Gen. Hist. Dichl. Pl. 4, 1838, p. 392; DC., Prod. 9, 1845, p. 464; Miq., Fl. Ind. Bat. 2, 1859, p. 1033; Clarke, Fl. Br. Ind. 4, 1883, p. 182; Prain, J. As. Soc. Beng. 63, II, 1894, p. 85; Prain, J. As. Soc. Beng. 74, II, 1906, p. 290; Hallier f., Bot. Jahrb. 49, 1913, p. 376; Merr., Bibl. En. Born. Pl., 1921, p. 508; Merr., En. Philip. Fl. Pl. 3, 1923, p. 358; Ridl., Fl. Mal. Pen. 2, 1923, p. 446; Moore, J. of Bot. 62, 1924, Suppl. p. 71; Merr., Univ. Calif. Publ. Bot. 15, 1929, p. 259; Burk., Diet. Econ. Prod. Mal. Pen., 1935, p. 944; Masamune, En. Phan. Born., 1942, p. 633; Henders., Malayan Wild Flowers 2, 1950, p. 313. — *E. camptobotrya* Miq., Fl. Ind. Bat. Suppl., 1860, p. 248, 578; Kurz, Nat. Tijdschr. Ned. Ind. 27, 1864, p. 214. — *E. parvifolia* Hallier f., Bull. Herb. Boiss. 5, 1897, p. 739; Dakkus, Bull. Jard. Bot. Btzig Suppl. 1, 1930, p. 131. — *E. hirsuta* Hallier f., Bot. Jahrb. 49, 1913, p. 376; Merr., Bibl. En. Born. Pl., 1921, p. 508; Masamune, En. Phan. Born., 1942, p. 633. — *E. dolichotricha* Merr., Pap. Mich. Acad. Sc. Arts Lett. 19, 1934, p. 189.

Types: *E. tomentosa*: Blume 1355, lectotype and isotype in L; paratype Blume s.n. (BM, BO, L, P, U); *E. princi*: Wallich 1335, holotype in G, isotypes in B, K; *E. camptobotrya*: holotype Teysmann HB 3347 in U; *E. hirsuta*: Hub. Winkler 3337, holotype in Hamburg, isotypes in B, BM, BO, K, L; *E. dolichotricha*: Bartlett 6665, holotype in NY (?), isotype in MICH; paratypes: Bartlett 6700 (MICH, NY), Bartlett 7088 (MICH, NY), Yates 2253 (BO, MICH, NY, UG).

Var. *tomentosa*. — *E. tomentosa* Bl. — *E. princi* Wall. ex Choisy — *E. camptobotrya* Miq. — *E. parvifolia* Hallier f.

Distr. Sumatra, Malay Peninsula, Java, Borneo, Philippines (Leyte).

Var. *hirsuta* (Hallier f.) Hoogl., Fl. Mal. I, 4, 1953, p. 428. — *E. hirsuta* Hallier f. — *E. dolichotricha* Merr.

Distr. Sumatra, Malay Peninsula (Johore), Borneo.

66. *Erycibe zippelii* Hoogl., Blumea 7, 1953, p. 319; Hoogl., Fl. Mal. I, 4, 1953, p. 431.

Types: *Zippelius* 131, holotype in L; paratype *Zippelius* 110 (L).

Distr. New Guinea.

Species unknown to me and uncertain records.

67. *Erycibe sinii* How, Sunyatsenia 6, 1946, p. 226.

Type: Sin 594.

Distr. China (Kwangsi).

Judging from the description it is possible that the specimen represents *E. schmidtii* Craib ("*E. laevigata* Auct."; "*E. laevigata* How" is *E. obtusifolia* Benth.).

68. *Erycibe paniculata* Auct. non Roxb.; Kurz, Nat. Tijdschr. Ned. Ind. 27, 1864, p. 214.

As I have not seen the specimen cited (Batu-Rusak) I cannot decide

about its identity. As *E. paniculata* is not known as far East as Banka, it is improbable that the identification is correct.

69. *Erycibe paniculata* var. *coccinea* an F. M. Bail.?; F. M. Bail., Queensl. Agric. J. 23, 1909, p. 219.

This is the only record of *E. coccinea* from New Guinea. As I have not seen the specimen cited (Mrs H. P. Schlenker, Boku) I am doubtful whether the identification is correct.

70. *Erycibe paniculata* an Roxb.?; Guill., Fl. Anal. Synopt. Nouv.-Caled., 1948, p. 302.

I have seen the specimen on which this record has been based: *Vieillard 107*, Port de France, 1855—60 (P). The specimen is in bud and insufficient for specific identification. On the label there is no indication that the species was cultivated, as stated by Guillaumin. It may be, indeed, *E. paniculata*. The locality (Port de France, near Nouméa) certainly does not make it probable that the genus is indigenous in New Caledonia, and Guillaumin's opinion that the collected plant is an introduction seems justified.

Excluded species and record.

Erycibe longipes Gagnep., Not. Syst. 3, 1915, p. 140; Gagnep. & Courch., Fl. Gén. Ind.-Ch. 4, 1915, p. 309, f. 36.

Types: *Pierre 857*, holotype in P, isotypes in A, K, P.

The type collection is a fruiting specimen, not belonging to *Erycibe* but to *Argyreia* Lour. I cannot judge whether the species has already been described in that genus.

Erycibe sp. Kanehira, J. Dept Agric. Kyushu Imp. Univ. 4, 1935, p. 398.

This is the only record of the genus from Micronesia. The collection cited (*Kanehira 1363*, Kusai) is present in the New York herbarium. It is not *Erycibe*, but probably belongs to *Embelia* (Myrsinaceae).

Erycibe ?integripetala Merr. & Chun, Sunyatsenia 5, 1940, p. 174.

Types: *How 72839*, holotype in A, isotypes in BM, BO, G, P; paratypes *How 72788* (A, BM, BO, G, P).

As already noted by How (Sunyatsenia 6, 1946, p. 230) the species does not belong to *Erycibe*, but is synonymous for *Neuropeltis racemosa* Wall. Dr Van Ooststroom was so kind to study the specimens for me and confirmed this statement.

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