

FLORAE MALESIANAE PRAECURSORES XLV.
NOTES ON RINOREA (VIOLACEAE)
FROM MALESIA AND ADJACENT REGIONS

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This paper complements the revision which before long will appear in the Flora Malesiana, where a key to all species will be given, and descriptions of the Malesian taxa over their whole area; the few non-Malesian taxa are here described. It accounts for the complete synonymy (147 binomials) and typification, with the literature relating to the regions adjacent to Malesia.

An Identification List of all examined specimens was separately issued in the Flora Malesiana Lists, number 27 (1966) 430—442; the Herbaria which supplied the materials are: Arnold Arboretum (A), British Museum, Natural History (BM), Bogor (BO), Brisbane (BRI), Cambridge (CGE), Dehra Dun (DD), Gray Herbarium (GH), Kew (K), Leiden (L), Leningrad (LE), Michigan (MICH), Sydney (NSW), Paris (P), Manila (PNH), Singapore (SING), Utrecht (U), Berkeley (UC), and Washington (US). Thanks are due to the directors of all these institutions.

Rinorea has long been known under its later synonym *Alsodeia*. Most species occur in Africa, written up in revisions by De Wildeman, Bull. Jard. Bot. Brux. 6 (1920) 131—194 (part of these species reduced by Tennant); Keay in Hutch. & Dalz., Fl. West Trop. Afr. 2nd ed. 1, 1 (1954) 99—104; Perrier de la Bathie in Humbert, Fl. Madag. fam. 139 (1954) 10—46; Robson, Fl. Zambes. 1 (1960) 246—260; Tennant, Kew Bull. (1963) 409—436, and Fl. Trop. East Afr. (in press). The keystone is at present being elaborated at Utrecht by Mr. W. H. A. Hekking, who is doing the New World species. On the completion of his work, an attempt can be made to draw a subdivision in the genus.

The present paper is a result of the first revision of the genus in this region; of the 68 species recognized by Melchior in 1925 there remain 10, with *R. macrantha* from Borneo as a new addition. A twelfth species, *R. scorpioidea* (Boissieu) Gagn. is incompletely known. *Rinorea nhatrangensis* Gagn. has been reduced to a forma under *R. bengalensis* (Wall.) O.K.

A remarkable constancy was found in the aestivation; the calyx is right- or left-quincuncial, and the corolla is generally contorted in the same direction.

I. *Rinorea anguifera* (Lour.) O. Kuntze, Rev. Gen. Pl. 1 (1891) 42; Merr., Comm. Lour. (1935) 270. — *Medusa anguifera* Lour., Fl. Cochinch. (1790) 406. — *Jürgensia anguifera* Spreng., Syst. 3 (1826) 50. — Neotype: *Thorel* 646 (K! L! P, holo!), from Indo-China, Cochin-china, Thu-dau-moth, fl. fr. 1862/66.

Pentaloba sessilis Lour., Fl. Cochinch. (1790) 154; Arnott, Mag. Zool. Bot. 2 (1848) 544; — *Alsodeia sessilis* Spreng., Syst. 1 (1825) 806. See also R. Brown, Tuckey's Congo (1818) in Misc. Works 1: 123. — *Rinorea sessilis* O. Kuntze, Rev. Gen. Pl. 1 (1891) 42; Merr., Comm. Lour. (1935) 270; Gagn., Fl. Gén. I.-C. Suppl. 1 (1939) 195. — Type: *Loureiro* (BM!), from Indo-China, Cochin-china, fl.

Alsodeia echinocarpa Korth., Ned. Kruidk. Arch. 1 (1848) 360. — *Rinorea echinocarpa* Burk., Gard. Bull. S. S. 6 (1930) 172. — Type: *Korthals* (L, sh. 925.250-388, holotype); several isotypes, from Sumatra, 'in sylvis Toeboe-Kilangun', fl. fr.

Pentaloba corylifolia Turcz., Bull. Soc. Nat. Moscou 27, ii (1854) 341. — *Alsodeia corylifolia* Turcz., Bull. Soc. Nat. Moscou 36 i (1863) 559. — Type: *Zollinger* 3052 (BO! L, fragm.! P!), from S. Sumatra, Lampung Districts, Tenombong, fl. 20-IX-1845 (not from Java; distributed as *Imhofia trichocarpa*).

Alsodeia capillata King, J. As. Soc. Beng. 58, ii (1889) 407. — Type: *King's Coll.* 2462 (BM! DD! K!), from Malaya, Perak, Larut, fr. X-1881.

Alsodeia comosa King, J. As. Soc. Beng. 58, ii (1889) 407. — *Rinorea comosa* Merr., En. Born. (1921) 410. — Lectotype: *Wray* 3299 (BM, fragm.! SING!), from Malaya, Perak, Tupai, fr. X-1888.

Alsodeia beckeri Boissieu, Bull. Soc. Bot. Fr. 55 (1908) 469; Fl. Gén. I.-C. 1 (1909) 213. — *Rinorea beckeri* Gagn., Fl. Gén. I.-C. Suppl. 1 (1939) 189. — Lectotype: *Pierre* (L! P!), from Indo-China, Cochinchina, prov. Bien-hoa, Song-la, fl. III-1877.

Alsodeia echinocarpa Korth. var. *nervosa* Capit., Bull. Soc. Bot. Fr. 57 (1910) 394. — *Rinorea anguifera* (Lour.) O. K. var. *nervosa* Merr., Philip. J. Sc. 11 (1916) Bot. 100. — Type: *Teijsmann* 8505 (BO! L!), from Borneo, W. Kalimantan, Mt Peneijn, fl. fr.

Alsodeia echinocarpa Korth. var. *zollingeri* Boerl. ex Capit., Bull. Soc. Bot. Fr. 57 (1910) 394. — Type: *Teijsmann* (BO! K! L!), from Bangka, Riengan, Pangkal Pinang, fl. fr.

Alsodeia murtonii Craib, Bull. Misc. Inf. Kew (1910) 275. — *Rinorea murtonii* Craib, Fl. Siam. En. 1 (1925) 90. — Type: *Murton* 15 (K!), from SE. Siam, Chantaburi, Kaw Klon, fl.

Rinorea helicterifolia Craib, Bull. Misc. Inf. Kew (1925) 15; Fl. Siam. En. 1 (1925) 89. — Type: *Kerr* 7092 (K!), from Siam, Pattani, Bukit, fl. fr. 7-VII-1923.

Rinorea sp. Craib, Fl. Siam. En. 1 (1925) 91: Schmidt 619 D (C!).

Rinorea acommianthera Gagn., Bull. Soc. Bot. Fr. 85 (1938) 601; Fl. Gén. I.-C. Suppl. 1 (1939) 187, f. 18: 1—4. — Lectotype: *Eberhardt* 1537 (L! P!), from Indo-China, Annam, Thua-thien, Haimit, fl.

Notes: Type material is existent of *R. sessilis*; that of *R. anguifera* has not been found, but the latter name is adopted because of its being in general use. The neotype differs from Loureiro's description in the leaves being hairy on the veins.

In the 'beckeri' materials (besides the cited one there is also *Pierre* fr. I-1872, prov. Bien-hoa, Dong-nai), there are sometimes two collateral inflorescences, each borne on a velvety stalk 1—3½ cm long, with several dozens of comparatively large flowers in a cluster 3—4½ cm diameter. The branchlets and leaves are vigorous, too. The specimens seem to represent a local strain in the population.

Rinorea acommianthera was described on plants with straight, slender twigs, long-petioled, discolorous, subglabrous leaves, and small fruits poorly provided with appendages. The plants named *R. comosa* and *R. capillata* are intergrades between the former and the common stock. Such fruits have also been found in Borneo, but there the leaves are broad-based and the stipules persistent.

2. *Rinorea bengalensis* (Wall.) O. Kuntze. — *R. nhatrangensis* Gagn.: 2b. — All other synonyms: 2a.

2a. f. *bengalensis*. — *Alsodeia bengalensis* Wall., Trans. Med. Phys. Soc. Calc. 7 (1835) 224. — *Pentaloba bengalensis* Wall. ex Arn., Mag. Zool. Bot. 2 (1848) 544. — *R. bengalensis*

O. Kuntze, Rev. Gen. Pl. 1 (1891) 42. — Type: *H. B(ruce) hb. Wallich* 4896 (DD! K, holo!), from India, East Bengal, Sillet, fl.

Pentaloba ceylanica Arn., Mag. Zool. Bot. 2 (1848) 543. — *Alsodeia zeylanica* Thw., En. Pl. Zeyl. (1858) 21; Trimen, Handb. Fl. Ceylon 1 (1893) 68; Gamble, Fl. Madras 1 (1915) 49. — *Rinorea zeylanica* O. Kuntze, Rev. Gen. Pl. 1 (1891) 42. — Type: *Wight Cat.* 268 (K; see Note), from Ceylon, fl.

Alsodeia obtusa Korth., Ned. Kruidk. Arch. 1 (1848) 359. — *Rinorea obtusa* O. Kuntze, Rev. Gen. Pl. 1 (1891) 42. — Lectotype: *Korthals* (L! sh. 908.267—1031), from Sumatra, Melintang, fr.

Pentaloba fasciculata Turcz., Bull. Soc. Nat. Moscou 27, ii (1854) 341. — *Alsodeia fasciculata* Turcz., Bull. Soc. Nat. Moscou 36 i (1863) 559. — *Rinorea fasciculata* Merr., Philip. J. Sc. 12 (1917) Bot. 286. — Type: *Cuming* 1074 (A! K! L! LE! P!), from Philippines, Manila, fl.

Pentaloba semigyrata Turcz., Bull. Soc. Nat. Moscou 27, ii (1854) 342. — *Alsodeia semigyrata* [Turcz., Bull. Soc. Nat. Moscou 36 i (1863) 559, as supposed by] J. J. Smith in K. & V., Bijdr. 13 (1914) 72. — *Rinorea semigyrata* J. J. Smith in K. & V., Bijdr. 13 (1914) 73, although unintentionally, see Merr., J. Arn. Arb. 35 (1954) 145. — Type: *Zollinger* 2979 (A! BM! L, fragm.! P!), from Java, in Hort. Bot. Bogor., fr. VIII-1845.

Alsodeia paradoxa Bl. ex Oudem. in Miq., Ann. 3 (1867) 71. — *Rinorea paradoxa* J. J. Smith in K. & V., Bijdr. 13 (1914) 67. — Type: *Blume* (L! sh. 908.267-1055), reputedly from Java, Mts Salak and Burangrang, fl.

Alsodeia griffithii Hook. f. & Th. in Hook. f., Fl. Br. Ind. 1 (1872) 187. — *Rinorea griffithii* O. Kuntze, Rev. Gen. Pl. 1 (1891) 42. — Type: *Griffith Birma and Malay Pen.* 223 (K! P!), from Burma, Hookoom Valley, fl. 4-V-1837.

Alsodeia wallichiana Hook. f. & Th. in Hook. f., Fl. Br. Ind. 1 (1872) 187. — *Rinorea wallichiana* O. Kuntze, Rev. Gen. Pl. 1 (1891) 42; Henders., J. As. Soc. Mal. 17 (1939) 35. — Type: *Porter* hb. *Wallich* 4024 (BM! K! LE!), from Malaya, Penang, fl. fr.

Alsodeia decora Trimen, J. Bot. 23 (1885) 203; Handb. Fl. Ceylon 1 (1893) 69. — Type: *Thwaites CP* 4006 (K! US!), from Ceylon, Great Western Hill, Hewahette, Central prov., fl. fr. 1868.

Gelonium glandulosum Elm., Leafl. Philip. Bot. 3 (1910) 917. — *Rinorea glandulosa* Merr., Philip. J. Sc. 12 (1917) Bot. 286. — *Suregada glandulosa* Croizat, Bull. Jard. Bot. Btzg III, 17 (1942) 216; see Merr., J. Arn. Arb. 32 (1951) 80. — Type: *Elmer* 12315 (BO! K! GH! NSW! L! US!), from Philippines, Sibulan, Magallanes, Mt Giting-Giting, prov. Capiz, fl. IV-1910.

Gelonium trifidum Elm., Leafl. Philip. Bot. 3 (1910) 918. — *Suregada trifida* Croizat, Bull. Jard. Bot. Btzg 11, 17 (1942) 216; see Merr., J. Arn. Arb. 32 (1951) 80. — Type: *Elmer* 12143 (A! BO! GH! K! L! NSW! US!), from Philippines, Sibulan, Magallanes, Mt Giting-Giting, prov. Capiz, fl. IV-1910.

Alsodeia lankawiense Ridl., J. Str. Br. Roy. As. Soc. 59 (1911) 70. — *Rinorea lankawiensis* Craib, Fl. Siam. En. 1 (1925) 90. — Lectotype: *Ridley* 8292 (K! SING!; in description 8392), from Peninsular Siam, Langkawi, Kwah, fl. I-1897.

Alsodeia pruinosa Pulle, Nova Guinea 8 (1912) 669. — *Rinorea pruinosa* Melch. in E. & P., Pfl. Fam. 2nd ed. 21 (1925) 352. — Type: *Gjellerup* 167 (K! L! U, holo!), from New Guinea, near Hollandia, fl. 20-VII-1910.

Alsodeia salomonensis Rech. in Fedde, Rep. 11 (1912) 184. — *Rinorea salomonensis* Melch. in E. & P., Pfl. Fam. 2nd ed. 21 (1925) 352. — Lectotype: *Rechinger* 4668 (W,n.v.), from Pacific, Solomon Islands, Bougainville.

Rinorea fasciculata var. *minor* Elm., Leafl. Philip. Bot. 8 (1915) 2877. — Lectotype:

Elmer 12724 (BO! K! L! LE! NSW! P! U! US!), from Philippines, Palawan, Mt Pulgar, Puerto Princesa, fl. III-1911.

Alsodeia immersa Craib, Bull. Misc. Inf. Kew (1924) 83. — *Rinorea immersa* Craib, Fl. Siam. En. 1 (1925) 89. — Lectotype: *Kerr 6011* (K! P! UC!), from N. Siam, Nakawn Sawan, Me Wong, fl. 24-V-1922.

Rinorea australasica C. T. White, Contr. Arn. Arb. 4 (1933) 73, pl. 8. — Type: *Kajewski/C. T. White 1425* (A! BRI! K! NSW!), from Australia, N. Queensland, Daintree R., fl. fr. 2-XII-1929.

Rinorea carolinensis Kaneh., Bot. Mag. Tokyo 48 (1934) 921, f. 8. — Type: *Nisida 2782* (n.v.), from Pacific, Carolines, Palau, fl. II-1933.

Rinorea palauica Kaneh. & Hatus., Bot. Mag. Tokyo 53 (1939) 153. — Lectotype: *Hatusima 4785* (A!), from Pacific, Caroline Islands, Palau, Peliliu, fl. 7-IV-1938.

Distribution: Ceylon, S. India, Assam, Burma, Further India and Hainan, Andamans, Great Cocos, Narcondam Is; scattered through Malesia (not in S. Sumatra, Java, Lesser Sunda Islands); N. Queensland, Melanesia, Carolines.

Notes: In Ceylon there seem to be two local strains. In the one (*ceylanica*), represented by several specimens, the internodes are c. 1½ cm, the leaves c. 7—12 cm long and up to 5 cm wide, brownish in the dried state and sometimes with domatia (although Trimen says never); the top is acutish, the margin finely incised. The Wight specimen at Kew that might be the type of *Pentaloba ceylanica* bears neither that name nor a number. In the other (*decora*), the internodes are 0.3—1 cm, the leaves 5—7 by 2—3½ cm, greenish in the dried state, the top obtuse, the margin distinctly incised. There is only CP 4006; the analyzed flowers agree with *R. bengalensis* but are too young for description.

Alsodeia disticha Zoll. ex Miq., Ann. 4 (1869) 216, and *A. bengalensis* var. *disticha* Boerl., Cat. Hort. Bog. 1 (1899) 49, are *nomina nuda*, relating to the above species.

2b. f. nhatrangensis (Gagn.) Jacobs, nov. stat. — *Rinorea nhatrangensis* Gagn., Bull. Soc. Bot. Fr. 85 (1938) 602; Fl. Gén. I.-C. Suppl. 1 (1939) 193. — Lectotype: *Poilane 5223* (BO! P, holo! UC!), from Indo-China, Annam, prov. Nhatrang, Phu-hu, fr. 13-I-1923.

A rather dense, persistent indumentum of patent yellow-brown hairs occurs on twigs, petiole, and lower leaf surface. The leaves are rather dull and livid above, the stipules sparsely hairy, the nearly mature fruits c. ¾ cm Ø.

INDO-CHINA. Annam, prov. Nhatrang, Phu-hu: *Poilane 5204, 5223*; Massif de la Mère et l'Enfant: *Poilane 6768*; Song Cay: *Evrard 634*.

Ecology: Shrubs of about ¾ m to treelets of about 7 m tall, in light forest on rocky or good loamy soil, also on recently deforested land.

Note: A hairy state of the otherwise quite homogeneous and characteristic local population of the species in eastern Annam.

3. *Rinorea horneri* (Korth.) O. Kuntze, Rev. Gen. Pl. 1 (1891) 42. — *Alsodeia horneri* Korth., Ned. Kruidk. Arch. 1 (1848) 360. — Type: *Korthals* (L! sh. 908.267-1289, holo; -1264, -1274, iso), from Borneo, Pulau Lampei, fr.

Alsodeia brownii Korth., Ned. Kruidk. Arch. 1 (1848) 361. — *Rinorea brownii* O. Kuntze, Rev. Gen. Pl. 1 (1891) 42. — Type: *Korthals* (BO! L!), from Sumatra, Singgalang, Indrapura, fl. fr.

Alsodeia kunstleriana King, J. As. Soc. Beng. 58, ii (1889) 401. — *Rinorea kuenstleriana*

Taub. in E. & P., Pfl. Fam. iii, 6 (1895) 329. — Lectotype: King's Coll. 3306 (CAL, K! L! US!), from Malaya, Perak, Larut, fl. IX-1882.

Alsodeia astrolabes K. Sch. & Laut., Fl. Schutzgeb. (1901) 451. — *Rinorea astrolabes* Melch. in E. & P., Pfl. Fam. 2nd ed. 21 (1925) 351. — Type: Lauterbach 2887 (B? †; K, fragm.!), from New Guinea, Territory, Astrolabe Plains, fl. 16-IX-1896.

Rinorea copelandii Merr., Philip. Govt. Lab. Bur. Bull. 35 (1906) 45. — Type: Copeland 943 (not 945; K! US!), from Philippines, Mindanao, Davao, Catalonan, fl. IV-1904.

Rinorea acuminata Merr., Philip. J. Sc. 5 (1910) Bot. 201. — Type: Everett FB 6455 (K! US!), from Philippines, Cebu, Mt Licos, st. II-1907.

Alsodeia curtisii Ridl., J. Str. Br. Roy. As. Soc. 59 (1911) 71. — *Rinorea curtisii* Craib, Fl. Siam. En. 1 (1925) 88. — Type: Curtis 2998 (SING!), from Asia, Peninsular Siam, Puket, Pang-nga (Pungah on label), fl. II-1893.

Alsodeia hirtella Ridl., Bull. Misc. Inf. Kew (1914) 377. — *Rinorea hirtella* Merr., En. Born. (1921) 410. — Lectotype: Haviland 1715 (K! SING!), from Borneo, Sarawak, Mt Koum fl. 22-IX-1892.

Rinorea amboinensis Merr., Philip. J. Sc. 11 (1916) Bot. 292. — Type: C. B. Robinson 1669 (BO! K! L! P!), from Moluccas, Ambon, Hutumuri Road, fl. 30-IX-1913.

Alsodeia kunstleriana King var. *latifolia* Ridl., J. Fed. Mal. St. Mus. 10 (1920) 82. — *Rinorea kunstleriana* Taub. var. *latifolia* Craib, Fl. Siam. En. 1 (1925) 90. — Type: C. B. Kloss 7028 (K! SING!), from Peninsular Siam, Tasan, fl. III-1919.

Rinorea castilloi Merr., Philip. J. Sc. 21 (1922) 530. — Type: Castillo 618 (A! K!), from Borneo, Sabah, Sandakan, fl. I/VIII-1918.

Rinorea ledermannii Melch., Bot. Jahrb. 62 (1929) 370. — Type: Ledermann 7039A (B? †, SING!), from New Guinea, Territory, Sepik area, fl. fr. 18-IV-1912.

Rinorea astrolabes (K. Sch. & Laut.) Melch. var. *hirta* Melch., Bot. Jahrb. 62 (1929) 372. — Type: Ledermann 8394 (B? †, SING!), from New Guinea, Territory, Sepik area, fl. 17-VIII-1912.

Rinorea elmeri Merr., Un. Calif. Publ. Bot. 15 (1929) 206. — Type: Elmer 20556 (A! BM! BO! K! L! P! PNH! SING! U! UC!), from Borneo, Sabah, Tawao, fl. fr. X-1922/III-1923.

Rinorea celebica Melch., Notizbl. Gart. Berl. 12 (1934) 205. — Type: Kjellberg 3159 (B? †, BO!), from Celebes, Kawata, fl. 1929.

Rinorea hamelii Merr., Pap. Mich. Ac. Sc. 19 (1934) 171. — Type: Rahmat 1411 (A! MICH! NY, SING!), from Sumatra, East Coast, Si Tunggir, 9 km from Damuli, Kualu, fl. 20-IX-1928.

4. *Rinorea sclerocarpa* (Burgersd.) Jacobs, nova comb. — *Alsodeia sclerocarpa* Burgersdijk in Miq., Pl. Jungh. (1852) 122. — Type: Junghuhn (L! sh. 908.267-1008 holo, -1028 iso), from Sumatra, presumably East Coast Res., Batak Lands, fr.

Alsodeia rugosa Miq., Sumatra (1860) 390. — Type: Teysmann HB 3935 (BO! L! U!), from S. Sumatra, Palembang, Ipil, Batang Lekuh, bud.

Alsodeia condensa King, J. As. Soc. Beng. 58, ii (1889) 405. — *Rinorea condensa* Merr., Pap. Mich. Ac. Sc. 19 (1934) 173. — Lectotype: King's Coll. 3717 (K! numbered 5717; SING! US!), from Malaya, Perak, fl. III-1884.

Alsodeia pachycarpa King, J. As. Soc. Beng. 58, ii (1889) 407. — *Rinorea pachycarpa* (King) Craib, Fl. Siam. En. 1 (1925) 91. — Lectotype: King's Coll. 10235 (DD!), from Malaya, Perak, fr. VI-1886.

Alsodeia scortechinii King, J. As. Soc. Beng. 58, ii (1889) 405. — *Rinorea scortechinii* Craib, Fl. Siam. En. 1 (1925) 91. — Lectotype: Wray 2294 (BM! SING!), from Malaya Perak, fl. VII-1888.

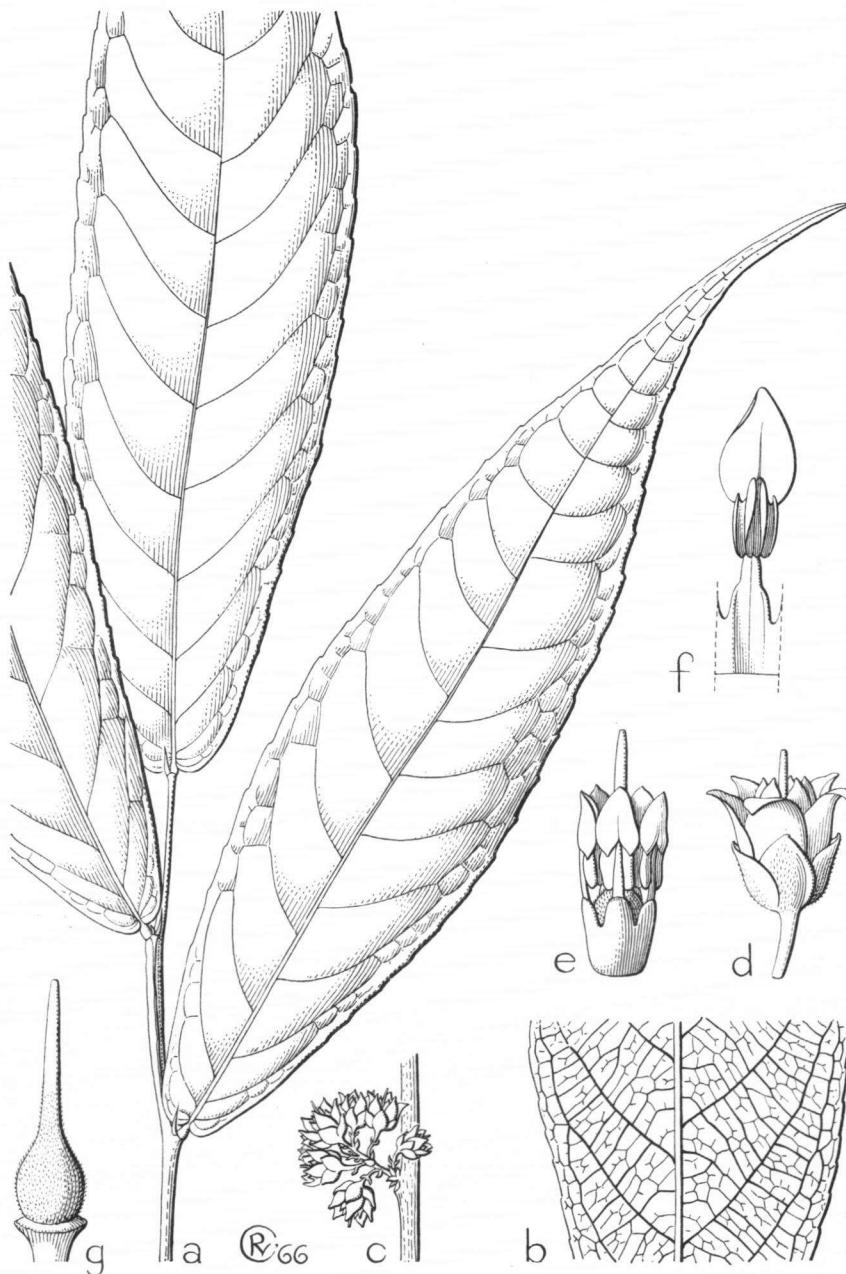


Fig. 1. *Rinorea macrantha* Jacobs. a. Habit, b. leaf from beneath, both $\times \frac{2}{3}$ (Hallier 3069), c. inflorescence, $\times \frac{2}{3}$, d. flower, $\times 2$, e. stamens surrounding pistil, $\times 4$, f. stamen from inside, $\times 6$, g. pistil, $\times 4$ (Jaheri 419, type).

Rinorea sumatrana Merr., Pap. Mich. Ac. Sc. 19 (1934) 172. — Type: Yates 1640 (BO! K! MICH! NY, holo; UC!), from Sumatra, East Coast Res., Asahan, Bandar Puluh, at 3000 fr, fl. fr. 28-VI-1925.

5. *Rinorea lanceolata* (Wall.) O. Kuntze, Rev. Gen. Pl. 1 (1891) 42. — *Vareca lanceolata* Wall. in Roxb., Fl. Ind. 1st ed., 2 (1824) 445. — *Pentaloba lanceolata* Arn., Mag. Zool. Bot. 2 (1848) 544. — *Alsodeia lanceolata* Oudem. in Miq., Ann. 3 (1867) 68. — Type: Porter hb. Wallich 4023 (A! BM! K, holo! L! LE! P!), from Malaya, Penang, fl. yfr.

Pittosporum? *serrulatum* Jack ex Roxb., Fl. Ind. 1st ed., 2 (1824) 401, 'Pittospora serrulata'; Jack ex Griff., Calc. J. Nat. Hist. 4 (1843) 195. — Type: Jack (n.v.), from Malaya, Penang. Identified by Merrill, J. Arn. Arb. 33 (1952) 240; see Ding Hou, Fl. Mal. I, 6 (1963) 237.

Alsodeia cymulosa Miq., Fl. Ind. Bat. 1, 2 (1859) 116, non Welw. in Oliv., Fl. Trop. Afr. 1 (1868) 108. — *Rinorea cymulosa* O. Kuntze, Rev. Gen. Pl. 1 (1891) 42. — *Alsodeia browniei* (non Korth.) Hassk., Retzia ed. nov., 1 (1858) 22. — Type: apparently a living plant in the Bogor Gardens; no material traceable.

Alsodeia dasypyxis Miq., Sumatra (1860) 391, 'dasypyxis' in Kew Index. — Type: Teysmann 4416 HB (BO! LE! P! U!), from S. Sumatra, Lampongs, Kabagusan, fr.

Alsodeia maingayi Hook. f. & Th. in Hook. f., Fl. Br. Ind. 1 (1872) 188. — *Rinorea maingayi* O. Kuntze, Rev. Gen. Pl. 1 (1891) 42. — Lectotype: Griffith Birma and Malay Pen. 224 (BM! K! P!), from Malaya, Malacca, fl. yfr. 1845.

Alsodeia mollis Hook. f. & Th. in Hook. f., Fl. Br. Ind. 1 (1872) 188. — *Rinorea mollis* O. Kuntze, Rev. Gen. Pl. 1 (1891) 42. — Lectotype: Helfer 225A (K! L! P!), from Burma, Tenasserim, fl.

Alsodeia floribunda King, J. As. Soc. Beng. 58, ii (1889) 406. — *Rinorea floribunda* (King) Merr., Pap. Mich. Ac. Sc. 19 (1934) 171. — Lectotype: King's Coll. 6110 (BO! P! SING! US!), from Malaya, Perak, Larut, fl. V-1884.

Alsodeia grandiflora Ridl., Bull. Misc. Inf. Kew (1914) 377. — Lectotype: Ridley 6383 (BM! K! SING!), from Malaya, Singapore, Anghio Kio, fl. 1894.

6. *Rinorea macrantha* Jacobs, nova spec. — Typus: *Jaheri* 419 (BO! L, holo!), from Borneo, Sungai Bloe-oe, fl. 1896/7. — Fig. 1.

Descriptio typi: Glabra, ramuli angulares brunnei, posterior teretes, zigzagiter curvati. Stipulas non vidi. *Folia* subsessilia, tenui coriacea, 15—26 cm longa 5½—10 cm lata, elliptica, basi obtuse subcordata apice distincte acuminata, nervis c. 1½ cm distantibus, reticulatione plus minusve scalariforme, margine crenulata, faciebus opacis, glabris, brunneo-viridibus plus minusve concoloribus. *Racemi* laterales laxi 1—1½ cm longi, bracteis 2—3 mm, pedicellis 6—7 mm longis plane supra medium articulatis. *Flores* in sicco 9 mm longi latique. Sepala tenua, 4½—5 mm longa 3—4½ mm lata, subglabra. Petala tenua, 9 mm longa 3½ mm lata, glabra. Androecium glabrum, 6 mm longum; tubus filamentorum 5 lobis filamenta ferentibus, anthera appendice dorsale magna late triangulare sed sine appendices ventrales. Pistillum clavatum, in parte basali puberulum, ovario 6 ovulis. *Fructus* deest.

Notes: The second specimen, Hallier 3069 (BO! L!), from Borneo, Liang Gagang, fl. 1893/4, has stipules 7 mm long, brown, striate. Petiole ½—¾ mm. Leaves coriaceous, c. 22—33 by 6—9½ cm, brown above, greenish beneath. Sepals glabrous, c. 3½ by 2½ mm. Petals 6 by 2 mm. Androecium as long as the petals, filament tube fleshy, 5-lobed, anthers subsessile, the cells ½, the tapering dorsal appendage ⅓ of their length. Pistil woolly puberulous for ⅓ part.

Jaheri 471, also from Sungai Bloe-oe, belongs here but is too fragmentary for description. A specimen from North Borneo, *A.* 3411, with still larger subentire leaves, may belong here but is sterile.

A sterile collection from Singkep in the Lingga Archipelago, *Binnemeijer* 7384 (BO) may also belong here.

7. *Rinorae javanica* (Bl.) O. Kuntze, Rev. Gen. Pl. 1 (1891) 42 (based on *Alsodeia javanica*). — *Prosthesia javanica* Bl., Bijdr. (1826) 867. — *Alsodeia javanica* Miq., Fl. Ind. Bat. 1, 2 (1859) 117. — Lectotype: *Blume* 770 (L!), from W. Java, Mt Salak, fl. fr. — Note: Endlicher reduced *Prosthesia*, but did not transfer the species.

Alsodeia haplobotrys Hassk., Versl. Kon. Ak. Wet. 4 (1856) 137, diagnosis; Retzia ed. nov., 1 (1858) 19, description. — *Rinorea haplobotrys* O. Kuntze, Rev. Gen. Pl. 1 (1891) 42. — Type unknown, presumably a living plant in the Bogor Gardens, originally from W. Java, fl.

Alsodeia hookeriana King, J. As. Soc. Beng. 58, ii (1889) 402. — *Rinorea hookeriana* Burk., Bull. Misc. Inf. Kew (1935) 319. — Lectotype: *Wray* 3301 (SING!), from Malaya, Perak, Tupai, fl. yfr. X-1888.

Alsodeia wrayi King, J. As. Soc. Beng. 58, ii (1889) 403. — *Rinorea wrayi* Taub. in E. & P., Pfl. Fam. iii, 6 (1895) 329. — Lectotype: *Wray* 2848 (LE! SING!), from Malaya, Perak, Larut, Tupai, fl. VIII-1888.

Alsodeia minahassae Koord., Meded. Lands Pl. Tuin 19 (1898) 645. — Type: *Koorders* 16794 (BO! L!), from NE. Celebes, Ratatotok, fl. 22-III-1895.

Alsodeia formicaria Elm., Leaf. Philip. Bot. 5 (1913) 1850. — *Rinorea formicaria* Merr., Philip. J. Sc. 12 (1917) Bot. 286. — Type: *Elmer* 12886 (A! BM! K! NSW! P! U! US!), from the Philippines, Palawan, Puerto Princesa, Mt Pulgar, fr. III-1911.

Rinorea quangtriensis Gagn., Bull. Soc. Bot. Fr. 95 (1938) 601; Fl. Gén. I.-C. Suppl. 1 (1939) 192, f. 18: 8—12. — Lectotype: *Poilane* 10936 (A! BO! K! L! P! UC!), from Indo-China, Annam, prov. Quang-tri, Lang-vieng, fr. 14-VI-1924.

8. *Rinorea longiracemosa* (Kurz) Craib, Fl. Siam. En. 1 (1925) 90. — *Alsodeia longiracemosa* Kurz, J. As. Soc. Beng. 39, ii (1870) 63. — Type: *Brandis* (CAL? n.v.), from SE. Burma, Martaban, fl.

Alsodeia racemosa Hook. f. & Th. in Hook. f., Fl. Br. Ind. 1 (1872) 187; Kanj. & Das, Fl. Assam 1 (1934) 83. — *Rinorea racemosa* O. Kuntze, Rev. Gen. Pl. 1 (1891) 42. — Type: *Hb. Griffith* (K!), from India, Assam (with doubt — M. J.), fl. 1-XI-1835.

Alsodeia cinerea King, J. As. Soc. Beng. 58, ii (1889) 403. — Type: *King's Coll.* 2746 (DD! K!), from Malaya, Perak, Larut, fl. I-1882.

Alsodeia cinerea King var. *hirsutiflora* King, J. As. Soc. Beng. 58, ii (1889) 404. — Type: *Wray* 2752 (K! SING!), from Malaya, Perak, Changkat Jerin, fl. VIII-1888.

Alsodeia thoreliana Boissieu, Bull. Soc. Bot. Fr. 55 (1908) 161; Fl. Gén. I.-C. 1 (1909) 214, 'thorelii'. — Type: *Thorel* 3146 (P!), from Indo-China, Laos, Saiabury, fl. III-1866/68.

Alsodeia macropyxis Capit., Bull. Soc. Bot. Fr. 57 (1910) 395. — *Rinorea macropyxis* (Capit.) Merr., En. Born. (1921) 411. — Lectotype: *Hallier* 1506 (BO! L!), from Borneo, Kalimantan, Kenepai, fr. 22-XII-1893.

Alsodeia boissieu Gagn. in Lecomte, Not. Syst. 3 (1916) 249. — *Rinorea boissieu* Gagn., Fl. Gén. I.-C. Suppl. 1 (1939) 191. — Type: *Thorel* 5249 (L! P!), from Indo-China, Laos, Vientiane, Lakhon, fl. 1866/68.

Rinorea gaultheriiflora J. J. Smith, Bull. Jard. Bot. Btzg III, 4 (1922) 231, t. 5. — Type: *Backer* 17003 (BO! L! U!), from W. Java, SW. Priangan, Lengkong, fl. 12-XI-1914.

Scyphellandra marcanii Craib, Bull. Misc. Inf. Kew (1925) 16; Fl. Siam. En. 1 (1925) 91; Gagn., Fl. Gén. I.-C. Suppl. 1 (1939) 197. — Type: *Marcan* 1324 (K!), from Siam, Kaw Chang, fl. fr. 5-IV-1923.

Rinorea borneensis Merr., Un. Calif. Publ. Bot. 15 (1929) 206. — Type: *Elmer* 20807 (A! BM! BO! GH! K! L! P! SING! U! UCI!), from Borneo, Sabah, Tawau, fl. X-1922/III-1923.

9. ***Rinorea virgata* (Thw.) O. Kuntze, Rev. Gen. Pl. 1 (1891) 42.** — *Scyphellandra virgata* Thw., En. Pl. Zeyl. (1858) 21. — *Alsodeia virgata* Hook. f. & Th. in Hook. f., Fl. Br. Ind. 1 (1872) 189; Trimen, Handb. Fl. Ceylon 1 (1893) 69, Atlas pl. 5. — Type: *Thwaites* CP 1085 (BM! DD! GH! K, holo! LE! P! US!), from Ceylon, fl.

Scyphellandra pierrei Boissieu, Bull. Soc. Bot. Fr. 55 (1908) 33; Fl. Gén. I.-C. 1 (1909) 218, f. 20: 7-12; Craib, Fl. Siam. En. 1 (1925) 91. — *Rinorea pierrei* (Boissieu) Melch. in E. & P., Pf. Fam. 2nd ed., 21 (1925) 352. — Lectotype: *Harmand* (L! P!), from Indo-China, Cochinchina, delta of the Mekong, fl. 1876.

Alsodeia minutiflora Ridl., J. Str. Br. Roy. As. Soc. 59 (1911) 71. — Lectotype: *Ridley* 15237 (K! SING!), from Malaya, Perlis, Kangah, fl. fr. III-1910.

Here also belongs the invalidly published *Scyphellandra poilanei* Gagn., Fl. Gén. I.-C. Suppl. 1 (1939) 196, f. 18: 13-17, descr. in French.

10. ***Rinorea macrophylla* (Decne.) O. Kuntze, Rev. Gen. Pl. 1 (1891) 42;** Williams, Bull. Herb. Boiss. II, 5 (1905) 24. — *Alsodeia macrophylla* Decne., Nouv. Ann. Mus. Paris 3 (1834) 468, t. 19. — Type: *Riedlé* (C! K! L! LE! P, holo!), from Lesser Sunda Islands, Timor, fl. fr.

Alsodeia horsfieldii Miq., Fl. Ind. Bat. 1, 2 (1859) 117. — *Alsodeia horsfieldii* Turcz., Bull. Soc. Nat. Moscou 36, 1 (1863) 559. — *Rinorea horsfieldii* (Miq.) O. Kuntze, Rev. Gen. Pl. 1 (1891) 42. — Type: *Horsfield* 617 (BM! K! KW, U!), from Java, Surakarta, fl. fr.

Alsodeia dasycaula Miq., Sumatra (1860) 391. — *Rinorea dasycaula* Craib, Fl. Siam. En. 1 (1925) 88. — Type: *Teijmann* 4464 HB (BO! K! LE! U!), from S. Sumatra, Lampung Districts, Gedong Areta, fl. 22-XII.

Alsodeia membranacea King, J. As. Soc. Beng. 58, ii (1889) 402, not with Boissieu, Fl. Gén. I.-C. 1 (1909) 215, which is *Casearia flexuosa* (Flacour.), according to Gagn. in Lecomte, Not. Syst. 3 (1916) 251. — Lectotype: *King's Coll.* 5909 (BO! K! P! UC! US!), from Malaya, Perak, Gopeng, fl. IV-1884.

Rinorea palawanensis Merr., Philip. J. Sc. 1 (1906) Suppl. 210. — Lectotype: *BS* 252 *Bermejos* (K! US!), from Philippines, Palawan, fl. fr. XII-1905.

Alsodeia hispida Ridl., J. Str. Br. Roy. As. Soc. 6 (1912) 50. — Type: *Ridley* 15891 (BM! K! SING!), from Peninsular Siam, Pulau Adang, fl. IV-1911.

Rinorea palawanensis Merr. var. *mollis* Merr., En. Philip. 3 (1923) 104. — Lectotype: *Merrill* 621 (K! US!), from Philippines, Culion, fl. 1-I-1903.

Alsodeia smithiae Craib, J. Siam Soc. Nat. Hist. Suppl. 6 (1923) 46. — *Rinorea smithiae* Craib, Fl. Siam. En. 1 (1925) 91. — Type: *Eryl Smith* 510 (K!), from Peninsular Siam, Nakawn Sritamarat, Klawng Keo, fl. fr.

Rinorea fistulosa Craib, Bull. Misc. Inf. Kew (1925) 15. — Type: *Kerr* 8394 (K!), from E. Siam, Nakawn Panom, Mukdahan, fl. 5-II-1924.

Rinorea sp. Craib, Fl. Siam. En. 1 (1925) 91: *Murton* 72 (K!).

Rinorea yatesii Merr., Pap. Mich. Ac. Sc. 19 (1934) 173. — Type: *Yates* 1627 (BO! K! MICH! NY, holo, US!), from Sumatra, East Coast, Asahan, Goerach Batoe, fl. yfr. 21-VI-1925.

11. Rinorea heteroclita (Roxb.) Craib, Fl. Siam. En. 1 (1925) 89. — *Vareca heteroclita* Roxb., Fl. Ind. 1st ed., 2 (1824) 445; 2nd ed., 1 (1832) 647. — *Pentaloba roxburghii* Wall., Cat. (1832) n. 7189; Arn., Mag. Zool. Bot. 2 (1848) 544. — *Dioryctandra roxburghii* Hassk., Retzia (1855) 125, ed. nov., 1 (1858) 17. — *Alsodeia roxburghii* Hook. f. & Th. in Hook. f., Fl. Br. Ind. 1 (1872) 186; Kurz, For. Fl. Burma 1 (1877) 69; Kanj. & Das, Fl. Assam 1 (1934) 82. — Neotype: *Hb. Wallich* 7189 (CGE! K, holo! LE! P!), fl. fr.

Twigs when young furrowed, fulvous-puberulous, straight; the base of a flush surrounded by several stipule-like scales. Branchlets terete, the bark finely striate, grey-brown, later darkening, the indumentum long persistent. Leaves generally distichous, subsessile; stipules 2—3 mm long, with broad base, distinct keel, and acute top, brown-membranous, often ciliate. Blade firmly herbaceous, to 3½—5(—6) by 1½—2(—2½) cm, index 2—2.7(—3.2), widest at to slightly above the middle; base cuneate, top acutish to subacuminate and often blunt with sometimes a mucro; midrib slender, prominent, major veins 4—5 on either side, thin, irregular, with pit-domatia in their axils; reticulation lax and irregular; margins crenate but entire near the base; surfaces glabrous, sometimes with a few hairs on the midrib beneath, dull, above green-brown, beneath light greyish. Flowers with a few to several, subsessile in dense axillary clusters; bud conical. Sepals somewhat fleshy, (1½)—2—2½ by 1½—1¾ mm, the outer ones flatter and sometimes shorter than the inner ones which are more carinate, glabrous, at least partly ciliate. Petals thin, 4—5 by c. ¼ mm, glabrous, more or less ciliate. Filaments of c. ¼—½ the length of the stamens, each (?) at the outside of the base with a pair of free thin lobes ¼ of the filament's length; anthers slender, grasping each other with a beard of crooked hairs inside at their base; dorsal appendage small, ventral appendages none. Gynoecium consisting of a small glabrous ovary containing 3 (Arnott) or 6 ovules, and a persistent style hairy in the middle portion. Fruit before dehiscence subglobose, greenish, the valves when open 6—7 mm long. Seeds ellipsoid, 3 mm long, brown, with distinct raphe and hilum.

Distribution: Andaman Islands, a few collections. India: Bengal (?).

Ecology: In jungle on slopes, and bamboo-flats.

Notes: Material scanty, and mostly from gardens. The name was already mentioned by Roxburgh in Hort. Beng. (1814) 18, from 'Amboyna', which has never been confirmed. The plant mentioned in the Flora Indica, 'A small shrub, received into this garden from General Martin at Lucknow. Blossoms in October', has not been retrieved. Long ago recorded from Behar, but not mentioned in Haines's work on that region. Occurrence in Siam also unconfirmed. Kanjilal & Das say: 'appears to have spread from Bengal into South Sylhet. Wallich.' In Wallich's Catalogue no collector is mentioned; on a sheet in Cambridge I found W. Gr. (W. Griffith), Serampore, on a sheet in Paris I found B. S. C., 14 July 1834; the letters may stand for Bhorul Singh Collector, one of Wallich's employees.

INCOMPLETELY KNOWN

12. Rinorea scorpioidae (Boissieu) Gagnepain, Fl. Gén. I.-C. Suppl. 1 (1939) 195. — *Alsodeia scorpioidae* Boissieu, Bull. Soc. Bot. Fr. 55 (1908) 469; Fl. Gén. I.-C. 1 (1909) 216, fig. 20: 1—5. — Type: *Pierre* (A! L! P, holo!), from Indo-China, Cambodia, Mts Cam Chay, fl. IV-1874.

Alsodeia scorpioidae Boissieu var. *schralensis* Pierre ex Boissieu, Bull. Soc. Bot. Fr. 55 (1908) 469; Fl. Gén. I.-C. 1 (1909) 217. — Type: *Pierre* 581 (A! K! P!), from Indo-China, Cambodia, Mts Srâl, fl. IV-1870.

Twigs when young angular, dark-coloured, brown-pubescent. Branchlets rather straight, terete, the bark grey or brownish, with lenticels and fine longitudinal ribs. Leaves distichous; stipules long persistent, to 2 mm long, with broad base and narrow top which soon turns pale. Petiole 5—8 mm. Blade papyraceous, 8—13 by 2½—4½ cm, widest about the middle, ± 3 times as long as wide; base acute to cuneate, sometimes slightly decurrent; top more or less distinctly acuminate; midrib thin, prominent above and beneath, major veins 6—8 on either side, reticulation dense, irregular, and equally distinct above and beneath; margins finely to coarsely dentate but near the base entire; surfaces olive-green-brownish, slightly duller and paler beneath than above, glabrous but with some hairs on both sides of the midrib in the basal part. Inflorescences largely on leafless (parts of) twigs, lateral, ½—1 cm long, the stalk short, the top recurved, producing flowers in two parallel acrostical rows, c. 10—20 in all, the basal part of the pedicels c. 1—1½ mm long, persistent; bracts small, triangular; pedicels above the joint c. ½ mm long. Sepals thin-fleshy, c. 2 by ¼—1 mm, elliptic or triangular, with acutish top, sparsely ciliate. Petals thin, 3—3½ by c. 1 mm, sparsely ciliate. Androecium glabrous; filamental tube 0.3 part of the total length of the stamens, filaments c. 0.3 part, anthers c. 0.4 part, dorsal appendage broad-triangular, as long as the cells, ventral appendages slightly shorter. Pistil glabrous, ovary small, with (3—?)6 ovules. Fruit unknown.

Distribution: SE. Siam, Cambodia, Cochin-china.

Ecology: Evergreen forest; sea level to 800 m.

Notes: Treelet 4—12 m. Besides the two collections mentioned, there are two more: *Pierre s. n.* from Cochin-china, Bao-chiang, fl. IX-1865, and *Kerr 10895* from Prachuap in Siam at Lat. 12°, fl. 8-VII-1926. All collections agree very well, although *Pierre* IX-1865 and IV-1874 have no domatia, while the other two have hairy ones. There is all reason to reduce the var. *schralensis*, but in absence of fruits there is not enough evidence to alter the present specific status of *R. scorpioidea* which might appear conspecific with *R. bengalensis*.

Alsodeia sp. Kurz, J. As. Soc. Beng. 45, ii (1876) 117, from the Nicobar Islands, not seen.

Rinorea sp. Merr., Lingn. Sc. J. 5 (1927) 131: *Chun* 6552, from Hainan, not seen.

EXCLUDED

Alsodeia bourdaisii Panch. ex Beauvis., Ann. Soc. Bot. Lyon 26 (1901) 81 (not seen) = *Hybanthus ilicifolius* (Vieill.) Schinz & Guill. (*Violaceae*), according to Index Kewensis; the plant, from New Caledonia, not seen.

Alsodeia caledonica Turcz., Bull. Soc. Nat. Moscou 36, i (1863) 558. — Type: *Vieillard* 849 (K!), from Pacific, New Caledonia, Balade, fl. 1855/60 = *Hybanthus caledonicus* Cretzoiu, J. Jap. Bot. 17 (1941) 409 (*Violaceae*).

Alsodeia chrysodasys Miq., Sumatra (1861) 390; Ann. 4 (1869) 215. — Type: *Junghuhn* (U!), from N. Sumatra, 'Hochangkola', fl. = *Paropsis vareiformis* (Griff.) Mast. (*Flacourtiaceae*), identified by Dr. H. O. Sleumer, Leiden, 1966; see Fl. Mal. I, 5 (1954) 14.

Alsodeia dubia Elmer, Leafl. Philip. Bot. 8 (1915) 2875. — Type: *Elmer* 13956 (K! LE! NSW! P! US!), from Philippines, Mindanao, fl. IX-1912 = *Trigonopleura malayanum* Hook. f. (*Euphorbiaceae*), identified by Mr. H. K. Airy Shaw, Kew, 1966.

Alsodeia glabra Burgersdijk in Miq., Pl. Jungh. (1852) 122; Miq., Fl. Ind. Bat. 1, 2 (1859) 116. — *Rinorea glabra* O. Kuntze, Rev. Gen. Pl. 1 (1891) 42. — Type: *Junghuhn* (L!), from Sumatra, fr. = *Celastrus paniculatus* Willd. (*Celastraceae*); see Ding Hou, Fl. Mal. I, 6 (1962) 235.

Alsodeia grandis Miq., Sumatra (1861) 391; Ann. 4 (1869) 215. — Type: *Teijsmann* 4023 HB (U!), from Sumatra, Palembang, Muara Enim, st. = *Eriobotrya bengalensis* (Roxb.) Hook. f. (*Rosaceae*), identified by Mr. F. H. Hildebrand, Leiden, 1966.

Alsodeia storkii Seem., Fl. Vitiensis (1865) 7. — *Rinorea 'storkii'* Melch. in E. & P., Pfl. Fam. 2nd ed., 21 (1935) 352; J. W. Parham, Pl. Fiji Is. (1964) 109. — Type: J. Storck 867 (BM! K!), from Pacific, Fiji, fr. 1860 = *Casearia disticha* A. Gray (Flacourtiaceae), identified by Mr. J. W. Gillespie, Kew, 1932.

Gestroa Beccari, Malesia I (1877) 184, reckoned by Boerlage, Handl. I (1890) 66 to the *Violaceae*, belongs under *Erythrospermum* (Flacourtiaceae); see Fl. Mal. I, 5 (1954) 6.

Neckia Korth., Ned. Kruidk. Arch. I (1848) 358, reckoned by Boerlage, Handl. I (1890) 68, and others to the *Violaceae*, belongs to the *Ochnaceae*.

Perissandra laotica Gagn., Bull. Soc. Bot. Fr. 95 (1948) 27. — Type: *Poilane 12090* (L! P, holo!), from Indo-China, Laos, Savannakhet, described under a new genus reckoned to the *Violaceae*, belongs under *Vatica* (Dipterocarpaceae).

The material, still in bud, was dissected and compared with Gagnepain's description; the sepals are valvate not imbricate, 2 sepals being obtuse, 3 slightly shorter and acute; the filaments are free not connate; the ovary 2-locular not unilocular; the ovules 2 in each cell no more and attached to the septum not to the ceiling of the ovary. The indumentum consists of bundle-hairs. The plant seems to be of the affinity of *Vatica harmandiana* Pierre. Thanks are due to Dr. C. G. G. J. van Steenis and Dr. R. C. Bakhuizen van den Brink Jr for the suggestion.

Rinorea pulgarensis Elmer, Leaf. Philip. Bot. 5 (1913) 1849. — Type: *Elmer 12839* (K! LE! P! US!), from Philippines, Palawan, fl. III-1911 = *Diospyros cauliflora* Bl. (Ebenaceae), according to Bakh., Bull. Jard. Bot. Btzg III, 15 (1937) 140.

Sauvagesia L., Sp. Pl. (1753) 203, reckoned by Boerlage, Handl. I (1890) 67, and others to the *Violaceae*, belongs to the *Ochnaceae*.

Schinzia inconspicua Dennst., Schlüss. Hort. Malab. (1818) 31. — No generic description given and hence invalid, referring to *Katou Patsjotti* Rheed., Hort. Malab. 5 (1865) t. 7, which is, however, not a *Rinorea*.

Schuurmansi Bl., Mus. Bot. I (1850) 177, t. 32, reckoned by Boerlage, Handl. I (1890) 67, and others to the *Violaceae*, belongs to the *Ochnaceae*.

Vareca moluccana Roxb., Fl. Ind. 2nd ed., I (1832) 647. Type: *Anonymous* (BM!), fl. = *Pittosporum moluccanum* (Lamk) Miq. (Pittosporaceae), identified by Mr. H. K. Airy Shaw, Kew, 1966.

In Fl. Mal. I, 5 (1954) 33 it was excluded from *Hydnocarpus* in the Flacourtiaceae and tentatively assigned to *Rinorea*.