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CYPERACEAE OF THAILAND II *)

by

J. H. KERN **)

SUMMARY

This supplement contains an account of a rather large number of Thailand specimens, collected by A. F. G. Kerr, Marcan, Put, and some others, kindly sent on loan to me by the Keeper of the British Museum (Nat. Hist.), Botany Department, Mr J. E. Dandy. A few additions from the Rijksherbarium, Leyden, marked (L) and Copenhagen, marked (C), & c. are also added.

Three species (nos 175 — 177) are new for Thailand. Among them *Lipocarpha pygmaea* is very remarkable, as it was so far only known from a recent collection by Van Steenis in Cambodia. Probably this dwarfish sedge was often overlooked.

From the species recorded for Thailand as doubtful (Kern, *l.c.* 79) the record of 1. *Cyperus eleusinoides* Kunth has appeared to be 95. *Cyperus nutans* Vahl.

Furthermore, the record of 7. *Mariscus clarkei* Turr. could be reduced to a variety of *Cyperus cyperoides* (L.) O. K.

The numbers of the species are those used in the first paper. An index to collectors' numbers is given at the end.

2. MAPANIA CUSPIDATA (Miq.) Uitt. var. CUSPIDATA.

PEN. — Pattani, Bukit: *Put s.n.*

var. PETIOLATA (Clarke) Uitt.

PEN. — Pattani, Betong, in evergeen forest by stream, 200 m: *Kerr 7521*; Puket, Kao Soi Dao (Trang), evergreen forest: *Kerr 19439* (L).

4. MAPANIA KURZII Clarke.

S.E. — Koh Chang, scrub near sea, 0.50 m: *Marcan 1288.*

7. HYPOLYTRUM NEMORUM (Vahl) Spreng.

S.E. — Sriracha, Hup Ben, in evergreen jungle, 120 m: *Kerr 4189.*

8. FUIRENA UMBELLATA Rottb.

N. — Doi Suthep, Chiengmai, by stream in deciduous jungle, 300 ft: *Kerr 1179*; same locality, in swamp, 1100 ft: *Kerr 1924.*

*) The first part was published in Reinwardtia **6**, part 1: 25—83. 1961.

**) Rijksherbarium, Leyden.

9. FUIRENA CILIARIS (L.) Roxb.

N. — Chiengmai, in rice-fields, 1000 ft: *Kerr 2809.*
C. — Bangkok, in flooded rice-fields, tidal: *Kerr 3833*; same locality: *Put s.n.*
S.E. — Kaw Chang, Salak Kawk, in rice-field: *Kerr s.n.*

10. LIPOCARPHA CHINENSIS (Osb.) Kern

N. — Doi Suthep, Chiengmai, in marshy ground, 2200 ft: *Kerr 1178.*

14. SCIRPUS GROSSUS L. f.

N. — Doi Suthep, in swamp, 1100 ft: *Kerr 1918.*
C. — Bangkok, in canals and ditches, tidal: *Kerr 3775*; same locality, canal bank; *Marcan 1407.*

18. SCIRPUS MUCRONATUS L.

N. — Doi Suthep, in marshy ground, 2200 ft: *Kerr 1143.*

20. SCIRPUS ARTICULATUS L.

C. — Bangkok: *Put s.n.*

23. SCIRPUS SQUARROSUS L.

N. — Doi Suthep, in eng jungle, 1200 ft: *Kerr 2244*; Me Ping, Raheng, on sand-bank: *Kerr s.n.*

30. ELEOCHARIS OCHROSTACHYS Steud.

N. — Doi Suthep, in swamp, 1100 ft: *Kerr 1931.*

31. ELEOCHARIS DULCIS (Burm. f.) Henschel

N. — Doi Suthep, in marshy ground, 1100 ft: *Kerr 2621.*
C. — Bangkok, along edge of canal, tidal: *Kerr 3830.*

33. FIMBRISTYLIS THOMSONII Boeck.

N. — Doi Suthep, top area, common: *Kerr s.n.*
S.W. — Hin Dat, Kanburi: *Put 66.*

35. FIMBRISTYLIS DURA (Zoll. & Mor.) Merr.

N. — Phitsanulok, near Pine Grove, common in evergreen forest, 600 m: *Smitinand & St. John 6852* (*RFD 22136*) (L).

37. FIMBRISTYLIS FALCATA (Vahl) Kunth

S.W. — Kanburi, Kao Tok, in clearing, 50 m: *Marcan 2524.*

39. FIMBRISTYLIS SERICEA R. Br.

S.W. — Hua Hin, strand, sealevel: *Marcan 2255, 2273.*

41. *FIMBRISTYLIS GLOBULOSA (Retz.) Kunth*

N. — Chiengmai, in rice-fields, 1000 ft: *Kerr 1539, 1539B.*
PEN. — Ban Wo, Toh Moh, in marshy places: *Lakshnakara 677* (BK, BM, L).

42. FIMBRISTYLIS MILIACEA (L.) Vahl

N. — Chiengmai, rice-fields, 1000 ft: *Kerr 1538, 1538B.*

C. — Bangkok, a troublesome weed among growing paddy, under 5 m: *Kerr 4517*; same locality, edge of canal, tidal: *Kerr 3742*; same locality, open grassy ground, tidal: *Kerr 3797*; same locality, in marsh: *Marcan 1718.*

45. FIMBRISTYLIS PAUCIFLORA R. Br.

S.E. — Klong non tri, Kao Chawng, common on rocks, 30 m: *Smitinand 2297* (*RFD 21198*) (L).

PEN. — Surat, Tha Phet, scattered along edge of water-hole in sandy soil, 50 m: *Smitinand 5608* (*RFD 21344*) (L).

47. FIMBRISTYLIS MONOSTACHYOS (L.) Hassk.

N. — Chiengmai, in scrub jungle, 1000 ft: *Kerr 1906.*

S.W. — Kanburi, hill foot, open jungle, 40 m: *Marcan 881.*

48. FIMBRISTYLIS ERAGROSTIS (Nees) Hance

N. — Doi Suthep, Chiengmai, in eng jungle, 1000—2000 ft: *Kerr 825*; same locality, in deciduous jungle, 1100—1800 ft: *Kerr 1271.*

E. — Korat, Lat Bua Kao: *Put 4387* (L).

Kerr 1271 is the type collection of *Fimbristylis tortispica* Turr., Kew Bull. 348. 1911. Holotype in K, dupl. in BM.

49. FIMBRISTYLIS CINNAMOMETORUM (Vahl) Kunth

N. — Doi Suthep, Chiengmai, in deciduous jungle, 1500 - 1800 ft: *Kerr 1270.*

58. FIMBRISTYLIS YUNNANENSIS Clarke

N. — Doi Suthep, Chiengmai, in deciduous jungle, 1500—2000 ft: *Kerr 1193*; same locality, 1300 ft: *Kerr 1861.*

60. FIMBRISTYLIS FERRUGINEA (L.) Vahl

C. — Bangkok, at edge of river, below 5 m: *Kerr 4276*; same locality, canal bank: *Marcan 1408.*

62. FIMBRISTYLIS SCHOENOIDES (Retz.) Vahl

N. — Doi Suthep, marshy ground, 1100 ft: *Kerr 2239.*

64. FIMBRISTYLIS DICHOTOMA (L.) Vahl

N. — Doi Suthep, Chiengmai, by stream in deciduous jungle, 1300 ft: *Kerr 1181*; same locality, marshy ground in eng jungle, 1600 ft: *Kerr 1896*; same locality, in open marsh, 2200 ft: *Kerr 2649.*

S.W. — Bang Son: *Put 1541.*

65. FIMBRISTYLIS BISUMBELLATA (Forsk.) Bub.

S.E. — Wang Chao, dry sand-bank: *Kerr s.n.*

71. FIMBRISTYLIS NELMESII Kern

E. — Chanuman, Ubon, in crevices of rocks in Me Kong, submerged at high water, 100 m: *Kerr 8380*.

79. FIMBRISTYLIS POLYTRICHOIDES (Retz.) R. Br.

S.W. — Hua Hin, Prachuap, saline flat, near strand: *Marcan 2431*.

81. FIMBRISTYLIS NUTANS (Retz.) Vahl

N. — Doi Suthep, in open marshy ground, 1100 ft: *Kerr 2665*.

82. FIMBRISTYLIS TETRAGONA R. Br.

N. — Chiengmai, by edge of paddy field, 1000 ft: *Kerr 1594*.
S.E. — Watana: *Put 1948* (BM, L).

83. FIMBRISTYLIS DIPSACEA (Rottb.) Clarke

N. — Raheng, on damp sand-bank, 450 ft: *Kerr 2973*.
N.E. — Muk Tahan, Udawn, on sand-bank in Me Kong, 100 m: *Kerr s.n.*
C. — Tonburi, in dry mud at edge of river, 20 m: *Kerr 3906*; Chainat, Chao Phaya Dam, common in wet ground, 150 m: *Smitinand 4423* (*RFD 18963*) (L).

85. BULBOSTYLIS BARBATA (Rottb.) Clarke

N. — Doi Suthep, in deciduous jungle, 1200 ft: *Kerr 1349*; same locality, in a clearing, 1100 ft: *Kerr 1920*.

87. CYPERUS DIGITATUS Roxb.

C. — Bangkok, in dry ditch, under 5 m: *Kerr 4467*; same locality, in open, marshy ground, under 5 m: *Kerr 4496*; same locality, waste land: *Marcan 1830*.
S.W. — Pran, Ban Pak Tawan, in swamp, 30 m: *Marcan 2701*.

In the Marcan collection *n. 1830* the spikelets are broader and the glumes larger than in the typical *C. digitatus* (2 mm broad, and 3 mm long respectively). It may represent a special race, and is possibly the same as *C. neesii* Kunth

88. CYPERUS ELATUS L.

C. — Bangkok, in canal, tidal: *Kerr 3794*; same locality, on bank of canal, below 5 m: *Kerr 4223*; same locality, on the edge of an irrigation ditch, under 5 m: *Kerr 4501;* same locality, along open ditch in fruit garden: *Kerr s.n.*

89. CYPERUS IMBRICATUS Retz.

N. — Chiengmai, Chiengmai moat, in swampy ground, 1000 ft: *Kerr 1921*; Chiengmai, Me Teng, on mud flats, 300 m: *Kerr 3642*.
C. — Bangkok, in open marshy ground, under 5 m: *Kerr 4495*.

90. CYPERUS EXALTATUS Retz.

C. — Bangkok: *Marcan 1939*.
S.W. — Pran, Ban Pak Tawan, in swamp, 30 m: *Marcan 2699* (BM, L).

91. CYPERUS STOLONIFERUS Retz.

PEN. — Kaw Tao, Surat, in sand on beach: *Kerr s.n.*

92. CYPERUS ROTUNDUS L.

N. — Chiengmai, in paddy fields, 1000 ft: *Kerr 1540, 1540B*; same locality, abundant in pastures, 1000 ft: *Kerr 2628.*

C. — Bangkok, in open grassland, tidal: *Kerr 3765, 3773, 3798*; same locality, waste grassland: *Marcan 1452.*

93. CYPERUS TENUICULMIS Boeck.

N. — Doi Suthep, in mixed jungle, 1100 ft: *Kerr 1900*; same locality, common in open grassy jungle, 900—1000 m: *Kerr 3357.*

94. CYPERUS DISTANS L.f.

N. — Doi Suthep, beside stream, 1100 ft: *Kerr 1937.*

C. — Bangkok, waste ground, tidal: *Kerr 3811, 3874, 4221*; same locality, at edge of ditch, under 5 m: *Kerr 4303*; same locality, in open grassy space, under 5 m: *Kerr 4503*; samel ocality, by pathside in damp ground, under 5 m: *Kerr 4513*; same locality, paved courtyard: *Marcan 1405.*

S.E. — Lem Dan Kao, Kaw Chang, open grassy ground by sea, under 5 m: *Kerr s.n.*

95. CYPERUS NUTANS Vahl

N. — Doi Suthep, Chiengmai, by stream in deciduous jungle, 1300 ft: *Kerr 1180*; same locality, edge of stream, 1100 ft: *Kerr 1923*; same locality, in open marshy ground, 2200 ft: *Kerr 2640.*

Turrill (*in* Kew Bull. 422. 1912) misidentified these gathering as *Cyperus eleusinoides* Kunth, a species which has not so far been collected in Thailand.

96. CYPERUS PROCERUS Rottb.

C. — Bangkok, in canal, tidal: *Kerr 3780*; same locality, in fllooded rice-fields, tidal: *Kerr 3832.*

97. CYPERUS PILOSUS Vahl

N. — Doi Suthep, in swamp, 1100 ft: *Kerr 1930*; Chiengmai, Me Ting, on mud flats, 300 m: *Kerr 3643, 3644.*

98. CYPERUS BABAKAN Steud.

N. — Doi Suthep, in swamp, 1100 ft: *Kerr 1925.*

99. CYPERUS CORYMBOSUS Rottb.

C. — Bangkok, canal edge, in water: *Marcan 2147;* same locality, in marshy ground by river, tidal: *Kerr 4084.*

100. CYPERUS MALACCENSIS Lamk

C. — Bangkok, along canals, tidal: *Kerr 4060*; same locality, along edge of river, below 5 m: *Kerr 4275.*

102. CYPERUS IRIA L.

N. — Chiengmai, on recently deposited silt, 1000 ft: *Kerr 892*; Chiengmai, Me Ping, on mud flats, 300 m: *Kerr 3641*; Me Ping, Wang Chao, on dry sand-bank: *Kerr s.n.*; Ke Ban, Prae: *Franck 267* (C); Khun Tan Mts, 4200 ft: *Hugh M. Smith 453* (US).

C. — Bangkok: *Kerr s.n.*; same locality, paddy field, in water: *Marcan 1497*.

S.E. — Chanburi, Makham, common in the plain, 130 m: *Bunnak 220* (*RFD 9529*) (L).

103. CYPERUS COMPRESSUS L.

N. — Chiengmai: *F. H. W. Kerr 35*.

C. — Bangkok, on railway line, under 5 m: *Kerr 4459, s.n.*

105. CYPERUS DIFFUSUS Vahl

N. — Doi Suthep, in mixed jungle, 1100 ft: *Kerr 1903*.

106. CYPERUS TRIALATUS (Boeck.) Kern

S.E. — Aranya, Krabin, in evergreen forest, under 50 m: *Kerr 19312* (BM, L).

108. CYPERUS RADIANS Nees & Mey. *ex* Kunth

S.W. — Hua Hin, strand: *Marcan 2269, 2278, 2432*.

109. CYPERUS DIFFORMIS L.

N. — Raheng, damp sand-bank, 450 ft: *Kerr 2972*.

C. — Bangkok, in flooded rice-fields, tidal: *Kerr 3818*; same locality, at edge of ditch, under 5 m: *Kerr 4300*.

110. CYPERUS PULCHERRIMUS Willd. *ex* Kunth

C. — Bangkok, common in paddy fields, tidal: *Kerr 3741, s.n.*; same locality: *Put s.n.*

111. CYPERUS HASPAN L.

N. — Doi Suthep, in marshy ground, eng jungle, 1600 ft: *Kerr 1895*.

112. CYPERUS TENUISPICA Steud.

C. — Bangkok, in flooded rice-fields, tidal: *Kerr 3835*.

116. CYPERUS LEUCOCEPHALUS Retz.

N. — Doi Suthep, in deciduous jungle, 1100 ft: *Kerr 1849*; same locality, in grassy open places, 330 m: *Kerr s.n.*

E. — Lat Bua Kao, Korat: *Put 4344*.

117. CYPERUS NIVEUS Retz.

N. — Ban Tak, Raheng, in deciduous jungle, 450 ft: *Kerr 2971*; Me Chang, in deciduous jungle, 300 m: *Kerr 3636*.

S.W. — Wang Kanai, Kanburi, in deciduous forest: *Marcan 2167*.

118. CYPERUS CEPHALOTES Vahl

N. — Chiengmai, in Chiengmai moat, 1000 ft: *Kerr 1958.*

119. CYPERUS PYGMAEUS Rottb.

N. — Doi Suthep, in marsh, 1100 ft: *Kerr 1860.*
N.E. — Muk Tahan, Udawn, on sand-bank in Me Kong, 100 m: *Kerr s.n.*
C. — Bangkok, in shallow water, under 5 m: *Kerr 4299;* Bangkok, Nontaburi, in marsh: *Marcan 1717.*

120. CYPERUS UNIOLOIDES R. Br.

N. — Doi Suthep, marshy ground in deciduous jungle, 1300 ft: *Kerr 1901.*

122. CYPERUS GLOBOSUS All.

N. — Doi Suthep, in marshy ground, 1100 ft: *Kerr 1916*; Wang Chao, on sand-bank: *Kerr 2986.*

123. CYPERUS POLYSTACHYOS Rottb.

PEN. — Kaw Tao, Surat, in rock crevices near the sea, near sealevel: *Kerr 12815.*

125. CYPERUS PUMILUS L.

N. — Chiengmai: *F.H.W. Kerr 36*; Raheng, on damp sand-bank, 450 ft: *Kerr 2974.*
C. — Bangkok, on railway line: *Kerr s.n.*

128. CYPERUS JAVANICUS Houtt.

C. — Bangkok, in scrub jungle, tidal: *Kerr 4083;* Tacheen, near Bangkok, in mangrove swamp, 1 m: *Marcan 1813.*

129. CYPERUS COMPACTUS Retz.

N. — Doi Suthep, in marshy ground, 1100 ft: *Kerr 1915.*
C. — Dong Pya Yen, Chaibadan, on damp mud in mixed forest, 50 m: *Kerr s.n.*

131. CYPERUS CYPEROIDES (L.) O. Kuntze

N. — Doi Suthep, in evergreen jungle, scattered, 3000 ft: *Kerr 2637.*
C. — Bangkok, open waste ground recently drained: *Kerr 6989*; same locality, waste ground, below 5 m: *Kerr 4222.*

Kerr 2637 is syntype collection of *Mariscus clarkei* Turr., *in* Kew Bull. 422. 1912, which was reduced to varietal rank (*Cyperus cyperoides* var. *clarkei*) by Kükenthal *in* Pflanzenreich Heft **101**: 518. 1936. The specimen in BM has no ripe spikelets. Also in my opinion it belongs to *Cyperus cyperoides.*

132. CYPERUS CYPERINUS (Retz.) Valck. Sur.

N. — Doi Suthep, by stream, 1100 ft: *Kerr 1928.*
PEN. — Kaw Tao, Surat, in glade in evergreen forest, under 5 m: *Kerr 12656* (very young).

152. SCLERIA CARICINA (R. Br.) Benth.

PEN. – Telok Udang: *Haniff & Nur SF 7456.*

154. SCLERIA LEVIS Retz.

N. – Me Ban, Prae: *Franck 442, 1306* (C); Ban Cheng, in open fields, damp soil, 1200 ft: *Howard 15* (K).

S.W. – Petchaburi, in open deciduous forest, 100 m, local name *ya kom bung: Kerr 20599* (BM, BKF).

155. SCLERIA TERRESTRIS (L.) Fass.

S.W. – Chanburi, Pong Namrawn: *Dee 1151* (*RFD 23026*) (L).

PEN. – Nakhawn Srithamarat, scattered in evergreen forest, 600 m: *Snan 55* (L).

162. SCLERIA PURPURASCENS Steud.

S.E. – Trat, Khao Saming, in evergreen jungle: *Dee 120* (L).

S.W. – Bang Son: *Put 1511* (BKF, BM, L).

PEN. – Surat, Tha Phet, in evergreen forest, 50 m: *Smitinand 5600* (L).

170. SCLERIA NEESII Kunth

S.E. – Aran Prathet: *Put 3134* (BM, L).

PEN. – Kantuli, Surat: *Put 4167* (BM, L); Satul, open grassy sandy ground, 5 m: *Kerr 13683.*

172. SCLERIA LITHOSPERMA (L.) Sw.

S.E. – Sriracha, clearing, hillside, 100 m: *Marcan 1358.*

PEN. – Huey Moot, in forest, sealevel: *F. Kingdom Ward SF 37552* (K, SING).

175. LIPOCARPHA PYGMAEA Kern, Blumea **10**: 638. 1960.

N. – Doi Suthep, in unattended rice-field, 1100 ft: *Kerr 2749.*

DISTR. Cambodia.

176. FIMBRISTYLIS PODOCARPA Nees & Mey. *ex* Nees *in* Wight, Contr. Bot. Ind.: 98. 1834, *p.p. typ.;* Nov. Act. Ac. Nat. Cur. **19**, Suppl. 1: 77. 1843, *p.p.;* F.B.I.: 638; F.I.C.: 107.

C. – Bangkok, open waste land: *Marcan 1477.*

DISTR. India, Indo-China, S. China, Malaysia, Micronesia.

177. FIMBRISTYLIS ALBOVIRIDIS Clarke, Fl. Br. Ind. **6**: 638. 1893.

C. – Bangkok, on open grassy ground, tidal: *Kerr 3796.*

DISTR. S.E. Asia, from India to Malaysia (Malay Peninsula, W. and E. Java, Luzon).

178. SCHOENUS PUNCTATUS R. Br., Prodr.: 232. 1810.

PEN. – Tan Sang: *Haniff & Nur SF 4288* (SING).

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