ex Willd. Wall. Cat. 7192C. 1832, *nom. nud. C. ovata* [*non* (Lamk.) Willd.] Roxb. Hort. Beng. 90. 1814. *nom. nud.*; Fl. Ind. ed. Carey 2: 420. 1832. *C. pauciflora* Royle, Ill. 170. 1835, *nom. nud. C. cheela* Royle, op. c. 170, *nom. nud. Samyda canciala* Buch.-Ham. Trans. Linn. Soc. 17.225. 1836. *S. piscidia* Buch.-Ham. op. c. 226. *Bedousia aromatica* Rafin. Sylv. Tell. 11. 1838. *Guidonia canciala* (Buch.-Ham.) Kurz, J. As. Soc. Beng. 46, pt. 2: 92. 1877 (*canziala*). *C. canciala* (Buch.-Ham.) Kurz, For. Fl. Burma 1: 592. 1877. *Guidonia tomentosa* (Roxb.) Kurz, J. As. Soc. Beng. 46, pt. 2: 92. 1877. *C. dallichi* (*non* F.v.M.) Clarke in Hook. f. Fl. Brit. Ind. 2: 593. 1879, *in syn.*

The binomial *C. lanceolata*, based on *A. lanceolata* Lamk. cannot be used due to the presence of earlier homonym *C. lanceolata* Miq. (vide Linnaea 18. 753. 1844). Again *C. elliptica* Willd. being based on *A. lanceolata* Lamk. is an illegitimate name. *C. tomentosa* Roxb. is the correct name.

It is distributed in India, Burma and Ceylon.

7. C. ovata (Lamk.) Willd. Sp. Pl. 2, pt. 2: 629. 1799. *Anavinga ovata* Lamk. in Rheede, Hort. Mal. 4: 101. t. 49. 1683; Encl. 1: 148. 1789. *C. zeylanica* (Gaert.) Thw. Enum. 1858. *Vareca zeylanica* Gaert. Fruct. 1: 290. t. 60 f. 6. 1788. *C. esculenta* Roxb. Hort. Beng. 90. 1814, *nom. nud.*; Fl. Ind. ed. Carey, 2: 1832. *C. laevigata* Dalz. Kew Journ. 4: 107. 1852. *C. championii* Thw. Enum. 19. 1858. *C. varians* Thw. var. *ovata* Thw. op. c. 19.

1. var. **ovata**

As there is no type specimen either from Rheede or Lamark, so the question of similarity between Gaertner's plant and Lamark's plant has been solved by an evaluation of the descriptions and figures in Rheede t. 49 and Gaertner t. 60, f. 6. It may be inferred that *C. ovata* (Lamk.) Willd. is the correct (oldest) name for what is named as *C. zeylanica* (Gaert.) Thw.

It is distributed in India and Ceylon.

2. var. **minor** (Thw.) Mukherjee, *comb. nov. C. varians* Thw. var. *minor* Thw. Enum. 19. 1858. *C. esculenta* Roxb. var. *angustata* Clarke in Hook. f. Fl. Brit. Ind. 2: 592. 1879.

The rank of the varietal epithet is not changed, as it has been accepted in this paper. The varietal epithet *angustata* is not valid as this was published at a later date than the former epithet.

The epithet minor was used by Thwaites with the binomial *C. varians*, but as it is used, in this paper with *C. ovata*, so the above combination has been used proposed.

It is distributed in Ceylon.

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NEW DISTRIBUTIONAL RECORDS FROM ORISSA COAST

Since the publication of Botany of Bihar and Orissa by H. H. Haines in the year 1920, many new plant species as well as new records have been discovered by various workers (Mooney 1950, Pattnaik & Patnaik 1956, Panigrahi et al., 1964 and Rao et al., 1963, 1967, 1970). During the field collection undertaken in connection with ecological studies on the vegetation of the Mahanadi Estuary, Orissa state, several taxa were col-

lected from coastal scrub jungles of which twelve were found to be new distributional records.

ANNONACEAE

Polyalthia korinti (Dunal) Thwaites, Enum. 398. 1864. *Guatteria korinti* Dunal in DC. Prodr. 1. 94. 1824.

Shrubs spreading with very variable leaves and a ring of 10-12 pea-shaped berries, common in coastal scrub jungles, in sand-bars situated along the river banks and in between the creeks and channels of Mahanadi delta, under the influence of occasional spring tide, usually in association with *Polyalthia suberosa, Ochna squarrosa* and *Carissa spinarum.*

ORISSA: Cuttack dist., Bahakud, Hetamundia and Bhitar kanika tidal forest, *L. K. Banerjee* 8513, 8519, 5821.

RHAMNACEAE

Colubrina asiatica (Linn.) Brongn. in Ann. Sci. Nat. Ser. 1, 10: 369. 1827. *Ceanthus asiaticus* Linn. Sp. Pl. 196. 1753.

Unarmed, glabrous, ascending shrubs with cream-coloured flowers and subglobose capsules, shining in the field from a distance, frequent along the intertidal zone of muddy coast near Mahanadi delta in association with *Lumnitzera racemosa, Excoecaria agallocha.*

ORISSA: Cuttack dist., Hukitola Island, *L. K. Banerjee* 8601.

CONNARACEAE

Rourea minor (Gaertn.) Leenh. in Fl. Mal. 5: 514. 1958. *Aegiceras minus* Gaertn. Fruct. 1: 216, t. 46. 1788. excl. syn. *Umbraculum maris* Rumph. *R. acuminata* Hook. f. Fl. Brit. Ind. 2: 48. 1876.

Large liana or undershrub with very variable leaves and bell-shaped deep-purple flowers common in sandy scrub jungles, sand bars and coastal thickets along the Mahanadi delta, usually in association with *Ichnocarpus frutescens, Hugonia mystax* and *Maba buxifolia.* Fruiting specimen of the liana is distinguished in the field by its fleshy yellow-coloured arils.

ORISSA: Cuttack dist., Bahakud, Hetamundia, *L. K. Banerjee* 8516, 9621.

PAPILIONACEAE

Indigofera aspalathoides Vahl ex DC. Prodr. 2: 231. 1825.

Silvery hoary spreading undershrubs with digitately 3-foliate leaves and reddish-purple flowers, frequent in sandy back-shore near Mahanadi delta usually in association with *Ipomoea pes-caprae, Dodonaea viscosa* and *Cyperus arenarius.*

ORISSA: Cuttack dist., Hukitola island, *L. K. Banerjee* 8337.

Taverniera cuneifolia Arn. in Wt. Ic. t. 1055. 1846. *Taverniera nummularia* Baker in Hook. f. Fl. Brit. Ind. 2: 140. 1876, non DC. 1825.

Much branched, diffused, pubescent herbs with deep red flowers and jointed, echinate pods. Common in sands and sandy loam, specially along the outerfringes of mangrove swamps and sand-bars in between the creeks and channels of Mahanadi delta in association with *Gloriosa superba, Acrostichum aureum* etc.

ORISSA: Cuttack dist., Mahanadi mouth at Hetamundia block, *L. K. Banerjee* 8593.

ASCLEPIADACEAE

Finlaysonia obovata Wall. Pl. As. Rar. 2: 48, t. 162. 1831. *Finlaysonia maritima* Back. ex Heyne, De Nutt. Pl-Ned. Ind. 2, 2: 1293. 1927. non *Secamone maritima* Bl. (1826).

Large, glabrous, lateciferous climbers with white-cream or pink coloured flowers in trichotomously branched cymes and divericated, turgid, beaked follicles. Usually common in the intertidal zones along the banks of several creeks and distributaries of Mahanadi delta in association with *Rhizophora apiculata, Excoecaria agallocha* and *Heritiera fomes.*

ORISSA: Cuttack dist., Batighar (False Point), Dharma mouth, *L. K. Banerjee* 8557, 10248.

Tylophora tenuis Blume Bijdr. 1062. 1826.

Slender, glabrous, lateciferous (watery) twiners, with small purple flowers and pointed follicles, common along mangrove swamps invariably associated with *Cynometra mimosoides, Xylocarpus granatum* and *Kandelia candel.*

ORISSA: Cuttack dist., Batighar (False Point), *L. K. Banerjee* 516.

CONVOLVULACEAE

Rivea hypocrateriformis Choisy in Conulv. Ind. or. 26. 1834.

Creeping, perennial herbs, rooting at the nodes with orbicular, cordate, silky tomentose leaves and pink flowers. Frequent along sandy river beds of Debi and Mahanadi estuaries usually in association with *Tribulus terrestris, Canavalia maritima* and *Toddalia aculeata.*

ORISSA: Cuttack dist., Alipingal, *L. K. Banerjee* 401.

Ipomoea macrantha Roem. & Schult. Syst. Veg. 4: 251. 1819.

Glabrous, woody, large twiners with broadly ovate to orbicular leaves, yellowish-white flowers and densly tomentose seeds. Common specially in the intertidal region under the influence of medium salinity along the banks of creeks and channels near Mahanadi estuary in association with *Hibiscus tiliaceus, Brownlowia tersa* and *Phoenix paludosa.*

ORISSA: Cuttack dist., Baitrakud, *L. K. Banerjee* 8361.

LAURACEAE

Litsea nitida (Roxb.) Hook. f. Icon. 174. 1941. *Tetranthera nitida* Roxb. (Hort. Beng.) Fl. Ind. 3: 818. 1832.

Trees 6-9 m tall with coriaceous, ovate, oblong to oblanceolate leaves and cup-shaped fruits. Frequent along coastal scrub forest and in coastal thickets of Mahanadi delta in association with *Antidesma ghaesembilla* and *Strychnos nux-vomica.*

Mooney (1950) states "I have not seen it from Chotonagpur or Orissa, it is of course an eastern Bengal and Assam plant".

ORISSA: Cuttack dist., Bahakud scrub forest, *L. K. Banerjee* 8515.

CYPERACEAE

Cyperus pachyrrhizus (Nees) Kukenth. Pfl. 101: 275. 1935. *C. pachyrrhizus* Nees ex Boeck in Linnaea 35: 545. 1870.

Perennial, rhizomatous, creeping sedges with single head inflorescences and trigonous nut. Frequent along sandy sea shore near Mahanadi delta in association with *Hydrophylax maritima* and *Ipomoea pes-caprae.* It is a sand binder, accumulates sand particles on its woolly rootlets.

ORISSA: Cuttack dist., Hukitola island, *L. K. Banerjee* 8615.

Fimbristylis ferruginea (L.) Vahl Enum. 291. 1804. *Scirpus ferrugineus* Linn. Sp. Pl. 50. 1753.

Tufted sedges with fibrous roots and ferrugineous puberlose glumes, common in mangrove swamps and esturine muddy flats along Mahanadi delta in association with *Phoenix paludosa, Kandelia candel.*

ORISSA: Cuttack dist., Batighar (False Point), *L. K. Banerjee* 8364.

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