

NOTES ON ASIATIC COSTOIDEAE (ZINGIBERACEAE) II.
A NEW *COSTUS* FROM CELEBES

P. J. M. & H. MAAS*

ABSTRACT. *Costus sopuensis* P. J. M. & H. Maas *sp. nov.* is described from Celebes.

Costus sopuensis P. J. M. & H. Maas, Fig. 1, species nova ab aliis speciebus Asiaticis inflorescentia longissima, bracteis acutis (nec pungentibus), bracteola longissima, lobis calycis inaequalibus bene distincta.

Herba 2-2.5m alta. Vagina glabra vel apice dense sericea (pilis 0.3mm longis), 15-30mm diametro. Ligula truncata, 2-3mm, glabra, in sicco atrata. Petiolus ad 5mm, glaber vel sericeus. Lamina anguste elliptica ad anguste obovata, 27-40 × 6-10cm, basi cuneata ad rotundata, apice acuta, facie superiore atro-viridia, subglabra, subtus subviridia, glabra vel sat dense ad dense sericea (pilis 0.4mm longis). Inflorescentia cylindrica, acuta, 20-36cm, 4-5(-7)cm diametro. Bractee rubrae, coriaceae, ovatae ad late ovatae, acutae (inferiores obtusae, amplexantes), 6.5-7 × 4-6cm, callo terminali 5-7mm, facie interiora glabrae vel apice dense sericeae, facie exteriora glabrae vel dense sericeae (pilis 0.1-0.5mm longis). Bracteola 35-45mm, facie interiora glabra, facie exteriora dense ferrugineo-sericea (pilis 1.5mm longis). Calyx 20-30mm compressus, dense ferrugineo-sericeus (pilis 2.5mm longis), lobis lateralibus triangularibus, 10mm, antico anguste ad depresso triangulari, 5-7mm. Corolla alba, c.80mm, tubo c.20mm, lobis ellipticis, c.45 × 15-21mm, extus dense sericeis, cucullatis, breviter acuminatis. Labellum album, trilobatum (?), expansum late obovatum, c.40 × 60mm, facie interiore dense puberulum (pilis ad 3mm longis), margine crispata. Stamen anguste obovatum, c.35 × 12mm, apice irregulariter lobatum, facie exteriora puberulum (pilis ad 5mm longis), anthera c.14mm. Stylus filiformis, c.75mm, 2mm diametro, basi incrassatus, stigmata bilamellata 0.2-0.4 × 0.7-0.9mm, appendice dorsali bilobata suffulto. Ovarium c.10mm, sericeum. Capsula obovoidea, compressa, 25-30 × 12-15mm, ferrugineo-sericea (pilis 2.5mm longis), seminibus brunneis.

CELEBES: Sopa valley, c.80km SSE of Palu, 1000m, rain forest on alluvial soil, *Eucalyptus deglupta* dominant, herb, 2m high, leaves spirally arranged, inflorescence terminal, bracts red, flowers white, 20 v 1979, *M. J. van Balgooy et al.* 3424 (holotype L); northern peninsula, between Palu and Parigi, 35km from Palu, (0°53'S 120°E), 800m, plant 2.5m high, bracts red, flowers white, 17 iv 1975, *W. Meyer* 9367 (L).

This species is strongly aberrant among Asiatic species of *Costus* (cf. Maas, 1979) because of its extremely long inflorescence, acute (not pungent!) bracts, unequally lobed calyx, and extremely long bracteole.

We should like to thank Miss R. M. Smith for preparing the illustration.

REFERENCE

MAAS, P. J. M. (1979). Notes on Asiatic and Australian Costoideae (Zingiberaceae). *Blumea* 25: 543-549.

* Institute of Systematic Botany, Utrecht, The Netherlands.

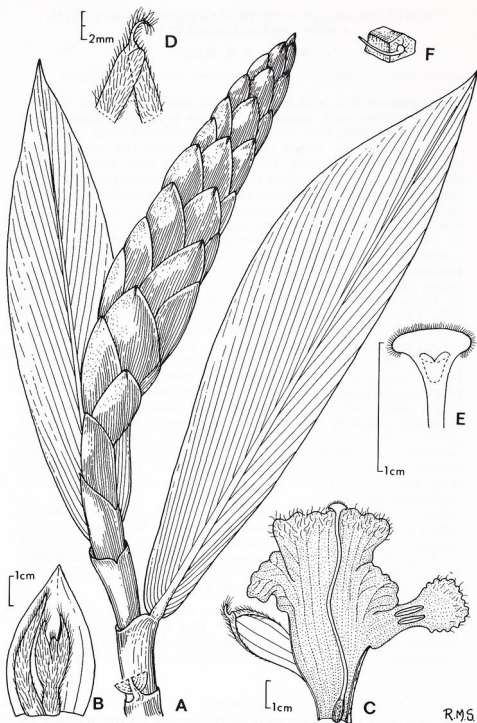


FIG. 1. *Costus sopuensis* P. J. M. & H. Maas. A, habit; B, bract, bracteole, calyx and ovary; C, flower showing corolla lobe, labellum, stamen, style and stigma; D, top of corolla lobe seen from inside; E, stigma showing bilobed appendage; F, seed, much enlarged. A-E from *van Balgooy* 3424, F from *Meyer* 9367.