

**FOUR NEW ARTOCARPUS SPECIES FROM INDO-MALESIA
(MORACEAE)**

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SUMMARY

Artocarpus annulatus, *obtusus*, and *sarawakensis* are described from Borneo and endemic in that island; *A. excelsus* is described from Borneo but occurs also in Indo-China. Further data will be given in the forthcoming Flora Malesiana revision.

1. *Artocarpus annulatus* Jarrett, *sp. nov.*

T y p u s: *W. L. Chew & J. A. R. Anderson CWL 665* (K), Borneo, Sarawak, Kuching Dist., Mt. Mentawa, Tiang Bekap, alt. 500 ft., fr. 25.VII.1963. 'On limestone rock. Tree c. 20 ft., girth 19 in., white latex profuse. Syncarp very fragrant.'

Arbor ad 10 m alta. Ramuli 3—5 mm crassi, rugulosi pilis sparsis subreflexis apice uncinatis vel glabri. Stipulae c. 2 cm longae, pilosae. *Folia* late elliptica vel obovata 10—25 cm longa 5—16 cm lata basi cuneata nec decurrentia apice cuspidata faciebus glabris vel costa nervisque supra puberulis nervis utroque 4—6, curvatis ascendentibus, venis intercostalibus ad c. 20 parallelis oblique et fere perpendicularibus ad costam. Petiolus 25—50 mm longus. *Inflorescentia* singularis axillaris ramulis truncoque. Anthesi capitulum ♂ ovoideum c. 35 mm longum latumque facie rugosum constrictionibus annulatis 5, perianthiis 0.8 mm longis profunde 2(—4)-lobatis, staminibus simplicibus vel filamentis interdum bifido vel binato 1 mm longis loculis ellipsoideis 0.1 mm longis; bractee sparsae firme petiolatae capite anguste peltato pubescentes, pedunculo 15—25 mm longo 3 mm crasso pubescente ut in stipulis; capitulum ♀ stylis simplicibus filiformibus ad 1.2 mm exsertis. *Syncarpium* (submaturum) ellipsoideum ad 8 cm longum 6 cm latum (perianthii apicibus inclusis), apicibus carnosis cylindricis obtusis breviter hispidis 12 mm longis 1.5 mm latis obtectis bracteis numerosis inter se stipite filiforme capite infundibuliforme 0.2 mm diametro; perianthia infructescentia plura parte proximale libera carnescente. Pedunculus 30 mm longus 7 mm latus pilosus ut in stipulis.

2. *Artocarpus excelsus* Jarrett, *sp. nov.*

T y p u s: *RSNB 7046 W. L. Chew & E. J. H. Corner* (K! holo; L), Borneo, Sabah, Mesilau River, 4500 ft., fl. 1. V. 1964. 'Tree, c. 70 ft.; girth 5 ft.; bark smooth; male syncarp yellow, thin, females larger.'

Arbor ad 35 m alta interdum anteridibus, cortice cinerea. Ramuli c. 3 mm crassi superficialiter rugulosi adpresse puberulentes. Stipulae adpresse-puberulentes pilis cinereis. *Folia* anguste oblongo-elliptica ad elliptica 10—22 cm longa 3—6½ cm lata basi cuneata apice breviter acuminata supra glabra vel subglabra infra in costa nervisque adpresse-puberulenta, nervis utroque 12—20. Petiolus 15—30 mm longus. *Folia* juvenilia superficialiter irregulariterque pinnatifida. *Inflorescentiae* anthesi: capitulum ♂ cylindricum 17—22 mm longum 4—6 mm latum perianthiis 0.8 mm longis supra bilobis, stamine 1 mm longo filamentis gracile antherae loculis ellipsoideis 0.2 mm longis; capitulum ♀ stylis simplicibus exsertis ad 0.8 mm. *Syncarpium* irregulariter cylindricum ad maturitatem paulo saccatum ad 7 cm longum 4 cm latum in vivo opace ochreum apicibus carnosis

* Descriptiones a cl. M. Jacobs translatae.

conoideis obtusis puberulentis protrudentibus c. 1 mm et 1.5 mm latis obtectum, pariete c. 5 mm crasso; perianthia infructescentia numerosa regione proxima libera tenuiter carnosae albescens, a nucleo separante; pericarpia ovoidea 12 mm longa 16 mm lata; nucleus c. 10 mm diametro. Pedunculus 10—25 mm longus 4 mm crassus adpressopuberulens.

3. *Artocarpus obtusus* Jarrett *sp. nov.*

Typus: S 15740 J. A. R. Anderson (C; K! holo; L), Borneo, Sarawak, Semengoh Arboretum sub numero 653 (certe?), alt. 300 ft., fr. 29.XI.1961. 'Tree 10 in. diam. in primary lowland Dipterocarp forest.'

Arbor ad 35 m alta. Ramuli 2.5—5 mm crassi rugosi subglabri. Stipulae 1—4 cm longae adpressopuberulentes. *Folia* obovato-elliptica, 8—23 cm longa 4—8 cm lata basi cuneata apice obtusa faciebus glabra vel adpressopuberulenta in costa nervisque infra; nervi utroque 7—10. Petiolus 20—35 mm longus. *Folia* juvenilia elongata 1—2 paribus loborum lateralium. *Inflorescentiae*: capitulum ♂ (anthesin versus) ovoideum ad subconoideum, ad 25 mm longum 10 cm latum obtusum irregulariter rugosum sulcis brevibus superficialibus; perianthia 0.7 mm longa supra biloba puberulenta (stamen immaturum); pedunculus 12—25 mm longus 1.5 mm latus adpressopuberulens paucis pilis patentibus apice uncinatis; capitulum ♀ (anthesi stylis bifidis exsertis ad 0.7 mm brachiis inaequalibus. *Syncarpium* ellipsoideum c. 8 cm longum 6 cm latum apicibus perianthii carnosae obtectum longitudinum duo majoribus flexuosis angustatis solidis 10 mm longis 3 mm crassis minoribus conoideis 2—4 mm longis 2 mm crassis omnibus hispida pilis brevissimis recurvatis; pericarpia reniformia ad subglobosa c. 15 mm longa 12 mm lata; pedunculus 30—75 mm longus 4 mm crassus pilis ut in mare.

4. *Artocarpus sarawakensis* Jarrett, *sp. nov.*

Typus: S 15109 Ilias Pa'ie (C; K! holo; L!, SAN, SAR), Borneo, Sarawak, Bintulu Distr., Segan F. R., fl. 23.XI.1961. 'Tree 20 in. girth 80 ft. high, in primary LDF.'

Arbor ad 25 m alta. Ramuli c. 10 mm crassi, rugosi, hispida pilis fulvis subpatentibus 4—7 mm longis. Stipulae ad 10 cm longae dense hispidae. *Folia* elliptica 30—50 cm longa 16—25 cm lata basi cuneata apice cuspidata margine paulo crenata supra glabra sed pilis longis sparsis in costa imposita infra asperula pilis brevissimis adpressis nervis 12—17 utroque. Petiolus 10—20 mm longus hispidus. *Inflorescentiae* anthesi: capitulum ♂ obovoideum vel subellipsoideum 30—60 mm longa 15—25 mm lata perianthiis 0.8 mm longis perforatis, stamine 1.3 mm longo antherae oculis globosis 0.1 mm longis bracteis anguste stipitatae capite peltato; pedunculus 40—80 mm longus c. 4 mm crassus scaber pilis sparsis longioribus; capitulum ♀ (submaturum) stylis simplicibus ad 2 mm exsertis. *Syncarpium* subglobosum 5 cm diametro processibus obduratis cylindricis obtusis dense hispida c. 5 mm longis 1.5 mm crassis obtectum pilis patentibus paulo inflatis pariete 3 mm crasso, perianthia infructescentia numerosa regione proxima libera paulo carnosae (?); pericarpia ellipsoidea 13 mm longa 8 mm lata nucleo 10 mm diametro. Pedunculus 55 mm longus 7 mm crassus scaber pilis sparsis longioribus.