



## A synopsis of the Asian and Australasian genus *Phanera* Lour. (Cercideae: Caesalpinioideae: Leguminosae) including 19 new combinations

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### Abstract

Historically, many authors of regional accounts of the Leguminosae (Fabaceae) tribe Cercideae divided the caesalpinoid genus *Bauhinia sens. lat.* into several segregate genera including the genus *Phanera*. However, during the last fifty years, *Bauhinia* has more often been recognised as a broadly circumscribed taxon with *Phanera* reduced to a subgenus of *Bauhinia sens. lat.* The reinstatement of *Phanera* at generic rank based on molecular and morphological evidence has now been widely accepted, resulting in the need for new combinations in *Phanera* for many taxa described in *Bauhinia*. Some of those names have been published recently by other authors so here we make the necessary combinations for those taxa still lacking names in *Phanera*. In addition, we include all published *Phanera* binomials and trinomials here and to each assign a status of accepted name, synonym or excluded name. The recent reinstatement of the New World genus *Schnella* to which c. 40 *Phanera* species were moved transforms *Phanera* into a strictly Asian and Australasian taxon. *Phanera* can be distinguished from *Bauhinia sens. str.* and from *Schnella* by a combination of morphological characters, but the morphological boundary with another closely related Asiatic genus, *Lasiobema* is unclear and warrants further investigation. We present a table comparing morphological characters of *Phanera*, *Schnella*, *Lasiobema* and *Bauhinia sens. str.*

### Introduction

Leguminosae is the third largest of the angiosperm families, numbering c. 19,500 species (LPWG 2013). Three subfamilies are traditionally recognised. The smallest is Caesalpinioideae comprising c. 2300 species in 171 genera arranged in 4 tribes. One of those tribes, Cercideae, accommodates two subtribes, Cercidinae and Bauhiniinae as recognised by Wunderlin (1979) and Wunderlin *et al.* (1981). Subtribe Cercidinae comprises three genera, namely *Cercis* L., *Adenolobus* (Harv. ex Benth. & Hook.f.) Torre. & Hillc. and *Griffonia* Baill., whilst the number of genera recognized in subtribe Bauhiniinae has varied from as many as 26 genera (Wunderlin 1976) to a single genus *Bauhinia sens. lat.* (Wunderlin *et al.* 1981). Since 1981, the majority of authors of regional taxonomic accounts have upheld the concept of a broadly circumscribed heterogeneous *Bauhinia sens. lat.* (Larsen *et al.* 1980, 1984, 1996, Li *et al.* 2010). Phylogenetic analyses of nucleotide sequence data have provided convincing evidence that *Bauhinia sens. lat.* is not a natural taxon (Bruneau *et al.* 2001 & 2008, Hao *et al.* 2003, Sinou *et al.* 2009) and the proposal by Lewis & Forest (2005) to recognise eight generic segregates, namely *Bauhinia sens. str.*, *Barkyla* F.Muell., *Brenierea* Humbert, *Gigasiphon* Drake, *Lasiobema* (Korth.) Miq., *Lysiphyllum* (Benth.) de Wit, *Phanera* Lour., *Piliostigma* Hochst. and *Tylosema* (Schweinf.) Torre & Hillc. was largely supported by the findings of Sinou *et al.* (2009) in the most broadly sampled published phylogenetic study of tribe Cercideae to date. Additional molecular-based evidence comes from a study of the *rp12* intron which is present in chloroplast DNA of most angiosperms including *Phanera* but absent from *Bauhinia sens. str.* (Lai *et al.* 1997). Non-molecular characters that distinguish *Phanera* from *Bauhinia sens. str.* include habit, morphology (de Wit 1956), pollen morphology (Larsen 1975), flavonoid data (Salatino *et al.* 1999) and volatile oil data (Duarte-Almeida *et al.* 2004).

### *Phanera* Lour.: taxonomic rank, generic limits and relationships

In 1790, Loureiro described *Phanera* to accommodate a single species, *Phanera coccinea* Lour. The most detailed regional revision of the genus ever written was published by de Wit (1956) who enumerated 44 species in Malaysia, the centre of species diversity for the genus. There has never been a monograph of *Phanera*, but Lewis and Forest (2005) estimated the genus to comprise 120–130 species, since reduced to 80–90 species following the transfer of c. 40 species to the New World genus *Schnella* (Wunderlin 2010). For much of the last thirty years the botanical taxonomic community has commonly treated *Phanera* as one of four subgenera within a broadly circumscribed *Bauhinia sens. lat.* (Bortoluzzi *et al.* 2006, Chen 1988, Larsen *et al.* 1980 & 1984, Wunderlin *et al.* 1981, Wunderlin & Eilers 2009) although other authors continued to maintain *Phanera* as a distinct genus (Verdcourt 1979) and to provide new combinations for species previously placed in *Bauhinia* (de Queiroz 2006). Wunderlin *et al.* (1976) recognised the heterogeneity within *Bauhinia* subgenus *Phanera* by proposing the subgenus be divided into 11 sections, three of which, sects. *Lasiobema*, *Lysiphyllum* and *Tylosema* were treated as distinct genera by Lewis and Forest (2005). They also suggested that *Phanera* sect. *Schnella* might need to be reinstated as a distinct genus based on a preliminary phylogenetic analysis of Cercideae by Forest (unpublished data). That view was supported by published phylogenetic analyses (Hao *et al.* 2003, Sinou *et al.* 2009). Subsequently, Wunderlin (2010) reinstated *Schnella* at generic rank to which he added the species of *Phanera* sect. *Caulotretus* as a second generic section of *Schnella*. This reclassification came only months after Vaz (2010) had transferred the majority of the same species from *Bauhinia sens. lat.* to *Phanera*. However, the decision to combine these two former *Phanera* sections in the single genus *Schnella* by Wunderlin (2010) may have been premature because a recent phylogenetic analysis of subtribe Bauhiniinae based on chloroplast and nuclear regions did not resolve species sampled from the two sections as a monophyletic group (Li *et al.*, unpublished data). Nevertheless, as a consequence of the recent reinstatement of *Schnella* into which c. 40 New World species have been transferred, *Phanera* is now a strictly Asian and Australasian taxon.

Closely associated with *Phanera* is the Asiatic genus *Lasiobema* as indicated, albeit with weak support, by Sinou *et al.* (2009). Their close relationship had previously been demonstrated by Hao *et al.* (2003) in a phylogenetic investigation of *Phanera* based on Internal Transcribed Spacer data which included 23 species of *Phanera* and four of *Lasiobema*. Those 27 species were resolved together in a strongly supported clade. Within that clade, neither genus was resolved as monophyletic but support was very low so it would be premature to draw any firm conclusions other than *Lasiobema* and *Phanera* are closely related. The relationship of *Lasiobema* with *Phanera* requires further molecular and morphological studies and, in consequence, here we do not include *Lasiobema* within *Phanera*.

The phylogenetic study of Hao *et al.* (2003) included five (of the nine) species of *Phanera* section *Corymbosae*. They were resolved together, strongly supported as a monophyletic group on a lineage placed also with strong support, as sister to the remaining *Phanera* and *Lasiobema* species samples. Section *Corymbosae* species form a morphologically homogenous group, with a distinct pollen type (Larsen 1975, Banks unpublished data), and have a generally more northerly geographical distribution than the rest of *Phanera*. Section *Corymbosae* has a centre of species diversity in S. China compared with Borneo for the remaining *Phanera* taxa. We consider this evidence sufficient to justify recognising the species of *Phanera* section *Corymbosae* as a distinct segregate genus for we propose a new name in a separate paper (Mackinder *et al.* unpublished data)

To summarise, we recognise *Phanera* here as a genus of 82 species as circumscribed by Lewis & Forest (2005) but excluding the following three groups of species: (i) sect. *Schnella* recently reinstated at generic rank by Wunderlin (2010); (ii) sect. *Caulotretus*, placed in synonymy under *Schnella* also by Wunderlin (2010) and (iii) section *Corymbosae* de Wit 1956), to be described as a new genus (Mackinder *et al.* unpublished data). A table comparing details of habit, morphology and geographical distribution of *Phanera* (as recognised here) with *Schnella*, *Lasiobema* and *Bauhinia sens. str.* is presented (Table 1).

### *How the list of names was assembled*

A list of *Phanera* binomials and trinomials was assembled from multiple sources, initially those in electronic form including IPNI (International Plant Names Index: <http://www.ipni.org/>), Tropicos (<http://www.tropicos.org/>), TPL (The Plant List: <http://www.theplantlist.org/>) and ILDIS (International Legume Database and Information Service: <http://www.legumes-online.net/ildis/aweb/database.htm>). Additionally, we consulted major regional treatments such as “A revision of Malaysian Bauhiniinae” (de Wit 1956) and the accounts of *Bauhinia sens. lat.* in

Flore du Cambodge, du Laos et du Viêt Nam (Larsen *et al.* 1980); Flora of Thailand (Larsen *et al.* 1984); Flora Malesiana (Larsen & Larsen 1996) and Flora of China (Li *et al.* 2010) as well as papers describing new taxa or publishing new combinations (Thothathri 1965, Schmitz 1977, Vaz 2010, Wunderlin 2011, Bandyopadhyay *et al.* 2012). Consequently, the taxa presented here are based principally on the taxonomy of regional flora treatments. On the few occasions that we encountered conflicting taxonomic views among the treatments, we opted to uphold the most recent taxonomic placement and have noted this under the relevant accepted name in the synopsis of species that follows.

**TABLE 1.** A comparison of morphology, distribution and species diversity between *Bauhinia sens. str.* and three generic segregates including *Phanera*.

	<i>Bauhinia sens. str.</i>	<i>Phanera</i>	<i>Schnella</i>	<i>Lasiobema</i>
Habit	trees or shrubs	tendrilled climbers	tendrilled climbers	tendrilled climbers
Calyx	spathaceous	lobed	lobed or truncate	lobed or truncate
Fertile stamens	1-10	3 (2)	10	3
Distribution	Pantropical	Asia and Australasia	Neotropical	Asia
No. of species	c. 150	82	c. 40	c. 15

We aim to account for all published *Phanera* names in this checklist. We have also identified nineteen taxa which belong in *Phanera* but until now have lacked published names in that genus. We provide the new combinations here. Previously published *Phanera* names that relate to taxa no longer referred to the genus are listed under excluded names. Regrettably we have discovered very little about a handful of *Phanera* names which are listed at the end of the account as doubtful or poorly known.

The majority of the checklist comprises *Phanera* accepted names listed alphabetically, with infraspecific taxa also listed alphabetically, except for the typical taxon which is listed first. Basionyms are included where relevant and types are cited for basionyms of new combinations as required by the International Code of Botanical Nomenclature.

#### *Country Distributions*

Distributions by country were initially taken from ILDIS, subsequently confirmed using literature sources (major Floras as listed above and from recently published new species papers). Additional previously unpublished country records, based on herbarium specimens lodged at K were added to the distribution (voucher details are cited directly after the relevant country). The native distributions for species which have infraspecific taxa are reported for the lowest individual taxonomic rank and also collectively for the whole species.

### Synopsis of *Phanera* Lour.

***Phanera aherniana*** (Perkins) de Wit, *Reinwardtia* 3(4): 448. 1956.

*Bauhinia aherniana* Perkins, *Fragm. Fl. Phillip.* 1: 8. 1904.

**DISTRIBUTION.** Sabah and the Philippines.

#### **a. *Phanera aherniana* var. *aherniana***

**DISTRIBUTION.** Endemic to the Philippines.

- b. *Phanera aherniana* var. *subglabra*** (Merr.) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 55. 2012.  
*Bauhinia subglabra* Merr., *Philipp. J. Sci.*, 3(1): 230. 1908.  
*Phanera semibifida* (Roxb.) Benth. var. *subglabra* (Merr.) de Wit, *Reinwardtia* 3(4): 469. 1956.  
*Bauhinia aherniana* var. *subglabra* (Merr.) K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 661. 1993.  
**DISTRIBUTION.** Endemic to Sabah.
- Phanera andersonii*** (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 55. 2012.  
*Bauhinia andersonii* K. Larsen & S.S. Larsen, *Nordic J. Bot.* 2(4): 330. 1982.  
**DISTRIBUTION.** Endemic to Peninsular Malaysia.
- Phanera argentea*** de Wit, *Reinwardtia* 3(4): 484. 1956.  
*Bauhinia argentea* (de Wit) Cusset, *Adansonia* n.s. 6: 279. 1966.  
*Bauhinia endertii* K. Larsen & S.S. Larsen, *Taxon* 28(5–6): 592. 1979.  
**DISTRIBUTION.** Sarawak, Sabah and Kalimantan.
- Phanera audax*** de Wit, *Reinwardtia* 3(4): 441. 1956  
*Bauhinia audax* (de Wit) Cusset, *Adansonia* n.s. 6: 278. 1966.  
**DISTRIBUTION.** Endemic to Peninsular Malaysia
- Phanera aurea*** (H. Lév.) Mackinder & R. Clark **comb. nov.**  
*Bauhinia aurea* H. Lév., *Bull. Soc. Bot. France* 54: 368. 1907. Type: China, Kouy-Tchéou, near Lo-Fou, *Cavalerie* 2614 (holotype P).  
**DISTRIBUTION.** Endemic to China.
- Phanera aureifolia*** (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 55. 2012.  
*Bauhinia aureifolia* K. Larsen & S.S. Larsen, *Nordic J. Bot.* 11(6): 634. 1991.  
**DISTRIBUTION.** Endemic to Thailand.
- Phanera bassacensis*** (Gagnep.) de Wit, *Reinwardtia* 3(4): 472. 1956.  
*Bauhinia bassacensis* Gagnep., *Notul. Syst. (Paris)* 2: 168. 1912.  
**DISTRIBUTION.** Peninsular Malaysia, Thailand, Cambodia, Laos, Vietnam, Sabah and Java.
- a. *Phanera bassacensis* var. *bassacensis***  
**DISTRIBUTION.** Peninsular Malaysia, Thailand, Cambodia, Laos, Vietnam.
- b. *Phanera bassacensis* var. *backeri*** de Wit, *Reinwardtia* 3(4): 478. 1956.  
*Bauhinia bassacensis* Gagnep. var. *backeri* (de Wit) S.S. Larsen, *Grana* 14(2–3): 122. 1975, as “bakeri”.  
**DISTRIBUTION.** Sabah and Java.
- Phanera bidentata*** (Jack) Benth. in Miq., *Pl. Jungh.* 2: 263. 1852.  
*Bauhinia bidentata* Jack, *Mal. Misc.* 2: 76. 1822.  
**DISTRIBUTION.** Peninsular Malaysia and Sumatra.
- a. *Phanera bidentata* var. *bidentata***  
**DISTRIBUTION.** Endemic to Peninsular Malaysia.
- b. *Phanera bidentata* var. *breviflora*** (Ridl.) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 55. 2012.  
*Bauhinia breviflora* Ridl., *Fl. Malay Penins.* 5: 306. 1925.  
*Bauhinia bidentata* Jack var. *breviflora* (Ridl.) K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 663. 1993.  
**DISTRIBUTION.** Endemic to Peninsular Malaysia.
- c. *Phanera bidentata* var. *cornifolia*** (Baker) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 56. 2012.

*Bauhinia cornifolia* Baker in Hook.f., *Fl. Brit. India* 2: 278. 1878.

*Phanera bidentata* (Jack) Benth. subsp. *bicornuta* (Miq.) de Wit var. *cornifolia* (Baker) de Wit, *Reinwardtia* 3(4): 499. 1956.

*Bauhinia bidentata* Jack var. *cornifolia* (Baker) Bennet, *Ind. J. For.* 5: 326. 1982.

**DISTRIBUTION.** Endemic to Peninsular Malaysia.

**d. *Phanera bidentata* var. *fraseri* de Wit, *Reinwardtia* 3(4): 497. 1956.**

*Bauhinia bidentata* Jack var. *fraseri* (de Wit) K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 663. 1993.

**DISTRIBUTION.** Endemic to Peninsular Malaysia.

**e. *Phanera bidentata* var. *gracilipes* (Merr.) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 56. 2012.**

*Bauhinia gracilipes* Merr., *Pap. Mich. Acad. Sc.* 19: 157. 1934.

**DISTRIBUTION.** Endemic to Sumatra.

**f. *Phanera bidentata* var. *monticola* (Ridl.) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 55. 2012.**

*Bauhinia monticola* Ridley, *J. As. Soc. Str. Br.* 75: 28. 1917.

*Bauhinia bidentata* Jack var. *monticola* (Ridl.) K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 663. 1993.

**DISTRIBUTION.** Endemic to Peninsular Malaysia.

***Phanera bracteata* Benth. in Miq., *Pl. Jungh.* 2: 264. 1852.**

**DISTRIBUTION.** Myanmar, Thailand, Cambodia, Laos and Vietnam.

**a. *Phanera bracteata* subsp. *bracteata***

**DISTRIBUTION.** Myanmar, Thailand, Cambodia and Laos.

**b. *Phanera bracteata* subsp. *astylosa* (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 55. 2012.**

*Bauhinia bracteata* subsp. *astylosa*. K. Larsen & S.S. Larsen, in Aubréville & Leroy, *Fl. du Cambodge, du Laos et du Vietnam* 18: 178. 1980.

**DISTRIBUTION.** Endemic to Vietnam.

***Phanera brevipedicellata* (Jarvie) Mackinder & R. Clark **comb. nov.****

*Bauhinia brevipedicellata* Jarvie, *Kew Bull.* 53(2): 495. 1988. Type: Borneo, West Kalimantan, Samba, *Jarvie & Ruskandi 5012* (holotype A, isotypes CANB, K, L).

**DISTRIBUTION.** Endemic to Kalimantan.

***Phanera burbidgei* (Stapf) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 56. 2012.**

*Bauhinia burbidgei* Stapf, *Trans. Linn. Soc. London (Bot.)*: 143. 1894.

*Phanera kockiana* (Korth.) Benth. var. *burbidgei* (Stapf) de Wit, *Reinwardtia* 3(4): 525. 1956.

Notes: De Wit (1956) recognised this taxon as one of several varieties of the polymorphous *Phanera kockiana*. Subsequently Larsen and Larsen (1996) reinstated the taxon (as *Bauhinia burbidgei*) at specific rank before Bandyopadhyay *et al.* (2012) made the new combination in *Phanera*.

**DISTRIBUTION.** Sarawak, Brunei and Sabah.

***Phanera calciphylla* (D.X. Zhang & T.C. Chen) Mackinder & R. Clark **comb. nov.****

*Bauhinia calciphylla* D.X. Zhang & T.C. Chen, *Nordic J. Bot.* 18(2): 141. 1998. Type: China, Guangxi, Tianang County, *Ind. 270* (holotype IBK).

**DISTRIBUTION.** Endemic to China.

***Phanera campanulata* (S.S. Larsen) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 56. 2012.**

*Bauhinia campanulata* S.S. Larsen, *Nordic J. Bot.* 14(3): 289. 1994.

**DISTRIBUTION.** Endemic to Brunei.

***Phanera carcinophylla* (Merr.) Mackinder & R. Clark. **comb. nov.****

*Bauhinia carcinophylla* Merr., *J. Arn. Arb.* 23: 171. 1942. Type: Vietnam, Tonkin, Quang Ninh, Taai Wong Mo Shan, near Chuk-phai Ha-Coi, *Tsang 29033* (holotype A, isotypes C, E, P).

**DISTRIBUTION.** China and Vietnam.

***Phanera chalcophylla*** (L. Chen) Mackinder & R. Clark. **comb. nov.**

*Bauhinia chalcophylla* L. Chen, *J. Arn. Arb.* 19: 130. 1938. Type: China, Yunnan, Talang, *Henry 13240* (holotype NY, isotype K).

**DISTRIBUTION.** Endemic to China.

***Phanera coccinea*** Lour., *Fl. Cochinch.* 1: 37. 1790.

*Bauhinia coccinea* (Lour.) DC., *Prodr. Syst. Nat. Reg. Veg.* 2: 516. 1825.

**DISTRIBUTION.** China, Laos and Vietnam.

**a. *Phanera coccinea* subsp. *coccinea***

**DISTRIBUTION.** Laos and Vietnam.

**b. *Phanera coccinea* subsp. *tonkinensis*** (Gagnep.) Mackinder & R. Clark **comb. nov.**

*Bauhinia ferruginea* Roxb. var. *tonkinensis* Gagnep., *Fl. Gén. Indoch.* 2: 126. 1913. Type Vietnam, Ha Son Binh, Tu Phap, *Balansa 2135* (holotype P, isotypes BR, K, P).

*Bauhinia coccinea* subsp. *tonkinensis* (Gagnep.) K. Larsen & S.S. Larsen in Aubréville & Leroy, *Fl. du Cambodge, du Laos et du Vietnam* 18: 201. 1980.

**DISTRIBUTION.** China and Vietnam.

***Phanera crudiantha*** de Wit, *Reinwardtia* 3(4): 481. 1956.

*Bauhinia crudiantha* (de Wit) Cusset, *Adansonia* n.s. 6: 279. 1966.

**DISTRIBUTION.** Endemic to Sabah.

***Phanera cuprea*** (Ridl.) de Wit, *Reinwardtia* 3(4): 503. 1956.

*Bauhinia cuprea* Ridl., *J. Str. Br. Roy. As. Soc.* 61: 2. 1912.

**DISTRIBUTION.** Endemic to Peninsular Malaysia.

***Phanera decumbens*** (M.R. Hends) de Wit, *Reinwardtia* 3(4): 503. 1956.

*Bauhinia decumbens* M.R. Hends, *Gard. Bull. Straits Settl.* 7: 99. 1933.

**DISTRIBUTION.** Endemic to Peninsular Malaysia.

***Phanera diphylla*** (Buch. - Ham.) Benth. in Miq., *Pl. Jungh.* 2: 264. 1852.

*Bauhinia diphylla* Buch. - Ham. in Symes, *Embassy*, ed. 2 (3): 311. 1800.

**DISTRIBUTION.** India, Sri Lanka and Myanmar.

***Phanera divergens*** (Baker) Thoth., *Bull. Bot. Soc. Beng.* 19: 132. 1965.

*Bauhinia divergens* Baker in Hook.f., *Fl. Brit. India* 2: 282. 1878.

**DISTRIBUTION.** India and Myanmar.

***Phanera elmeri*** (Merr.) de Wit, *Reinwardtia* 3(4): 520. 1956.

*Bauhinia elmeri* Merr., *Univ. Calif. Publ. Bot.* 15: 102. 1929.

**DISTRIBUTION.** Sarawak, Sabah and Kalimantan.

***Phanera erythropoda*** (Hayata) Mackinder & R. Clark **comb. nov.**

*Bauhinia erythropoda* Hayata, *Icon. Pl. Formosan.* 3: 83. 1913. Type: China, Hainan, *Katsumada 1910* (holotype TI).

**DISTRIBUTION.** Endemic to China.

**a. *Phanera erythropoda* var. *erythropoda***

**DISTRIBUTION.** Endemic to China.

**b. *Phanera erythropoda* var. *guangxiensis*** (D.X. Zhang & T.C. Chen) Mackinder & R. Clark **comb. nov.**

*Bauhinia erythropoda* var. *guangxiensis* D.X. Zhang & T.C. Chen, *Nordic J. Bot.* 18(2): 145. 1998. Type: China, Guangxi, Longjun County, Wulian, S.H. Chun 13442 (holotype IBSC).

**DISTRIBUTION.** Endemic to China.

**Phanera excelsa** Miq., *Fl. Ned. Ind.* 1(1): 62. 1855.

**DISTRIBUTION.** Sarawak, Brunei, Sabah and Kalimantan.

**a. Phanera excelsa** var. **excelsa**

*Bauhinia excelsa* (Miq.) Prain, *J. As. Soc. Beng.* 66 (2): 502. 1897.

*Phanera excelsa* Miq. var. *megalantha* (Merr.) de Wit, *Reinwardtia* 3(4): 453. 1956.

*Bauhinia excelsa* (Miq.) Prain var. *megalantha* (de Wit) K. Larsen & S.S. Larsen, *Nordic J. Bot.* 2(4): 332. 1982.

**DISTRIBUTION.** Sarawak, Brunei, Sabah and Kalimantan.

**b. Phanera excelsa** var. **aurora** de Wit, *Reinwardtia* 3(4): 452. 1956.

*Bauhinia excelsa* (Miq.) Prain var. *aurora* (de Wit) K. Larsen & S.S. Larsen, *Nordic J. Bot.* 2(4): 332. 1982.

**DISTRIBUTION.** Endemic to Sabah.

**Phanera excurrens** (Stapf) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 56. 2012.

*Bauhinia excurrens* Stapf, *Trans. Linn. Soc. Lond.* 2(4): 143. 1894.

*Phanera semibifida* (Roxb.) Benth. var. *excurrens* (Stapf) de Wit, *Reinwardtia* 3(4): 468. 1956.

**DISTRIBUTION.** Endemic to Sabah.

**Phanera fabrilis** (de Wit) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 56. 2012.

*Phanera riedelii* (Baker) de Wit var. *fabrilis* de Wit, *Reinwardtia* 3: 464. 1956.

*Bauhinia fabrilis* (de Wit) K. Larsen & S.S. Larsen, *Nordic J. Bot.* 11(6): 634. 1991.

**DISTRIBUTION.** Endemic to Sabah.

**Phanera ferruginea** (Roxb.) Benth. in Miq., *Pl. Jungh.* 2: 262. 1852.

*Bauhinia ferruginea* Roxb., *Fl. Indica* 2: 131. 1832.

**DISTRIBUTION.** Peninsular Malaysia, Thailand and Sumatra.

**a. Phanera ferruginea** var. **ferruginea**

*Phanera hullettii* (Prain) de Wit, *Reinwardtia* 3(4): 457. 1956.

**DISTRIBUTION.** Peninsular Malaysia and Thailand.

**b. Phanera ferruginea** var. **griffithiana** (Benth.) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 57. 2012.

*Phanera griffithiana* Benth., in Miq., *Pl. Jungh.* 2: 263. 1852.

**DISTRIBUTION.** Peninsular Malaysia and Sumatra.

**Phanera finlaysoniana** Benth. in Miq., *Pl. Jungh.* 2: 263. 1852.

**DISTRIBUTION.** Sumatra, Sarawak, Sabah, Kalimantan, Sulawesi, Philippines and Molucca Is.

**a. Phanera finlaysoniana** var. **finlaysoniana**

*Bauhinia finlaysoniana* (Benth.) Baker, Hook. f., *Fl. Br. Ind.* 2: 278. 1878.

*Phanera finlaysoniana* var. *javanica* de Wit, *Reinwardtia* 3(4): 505. 1956.

**DISTRIBUTION.** Peninsular Malaysia and Java.

**b. Phanera finlaysoniana** var. **amoena** de Wit, *Reinwardtia* 3(4): 505. 1956.

*Bauhinia finlaysoniana* var. *amoena* (de Wit) K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 663. 1993.

**DISTRIBUTION.** Sarawak and Sabah.

**c. Phanera finlaysoniana** var. **leptopus** (Perkins) de Wit, *Reinwardtia* 3(4): 509. 1956.

*Bauhinia leptopus* Perkins, *Fragm., Fl. Phillip.* 1: 10. 1904.

*Bauhinia finlaysoniana* var. *leptopus* (Perkins) K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 663. 1993.

**DISTRIBUTION.** Sumatra, Sarawak, Sabah, Kalimantan, Philippines and the Molucca Is.

**d. Phanera finlaysoniana** var. **montana** de Wit, *Reinwardtia* 3(4): 510. 1956.

*Bauhinia finlaysoniana* var. *montana* (de Wit) K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 663. 1993.

**DISTRIBUTION.** Sulawesi and Molucca Is.

**Phanera foraminifera** (Gagnep.) de Wit, *Reinwardtia* 3(4): 491. 1956.

*Bauhinia foraminifera* Gagnep., *Notul. Syst. (Paris)* 2: 171. 1912.

**DISTRIBUTION.** Sarawak and Brunei.

**a. Phanera foraminifera** var. **foraminifera**

**DISTRIBUTION.** Endemic to Sarawak.

**b. Phanera foraminifera** var. **falcata** (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 56. 2012.

*Bauhinia foraminifera* var. *falcata*. K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 661. 1993.

**DISTRIBUTION.** Endemic to Brunei.

**Phanera franckii** (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 57. 2012.

*Bauhinia franckii* K. Larsen & S.S. Larsen, *Nordic J. Bot.* 11(6): 633. 1991.

**DISTRIBUTION.** Endemic to Peninsular Malaysia.

**Phanera fulva** (Korth.) Benth. in Miq., *Pl. Jungh.* 2: 262. 1852.

*Bauhinia fulva* Korth. *Verh. Nat. Gesch. Ned. Bezitt., Bot.*: 91. 1841.

**DISTRIBUTION.** Sumatra and Java.

**Phanera glabrifolia** Benth. in Miq., *Pl. Jungh.* 2: 263. 1852.

**DISTRIBUTION.** Bhutan, India, Myanmar, Peninsular Malaysia, Thailand and Laos.

**a. Phanera glabrifolia** var. **glabrifolia**

*Bauhinia glabrifolia* (Benth.) Baker in Hook.f., *Fl. Brit. India* 2: 281. 1879.

**DISTRIBUTION.** Bhutan and Myanmar.

**b. Phanera glabrifolia** var. **maritima** (K. Larsen & S.S. Larsen) Bandyop., *Edin. J. Bot.* 70(2): 364. 2013.

*Bauhinia glabrifolia* (Benth.) Baker var. *maritima* K. Larsen & S.S. Larsen, *Thai For. Bull.* 13: 39. 1980.

**DISTRIBUTION.** Myanmar, Peninsular Malaysia and Thailand.

**c. Phanera glabrifolia** var. **sericea** (Lace) Bandyop., *Edin. J. Bot.*, 70(2): 364. 2013.

*Bauhinia sericea* Lace, *Kew Bull.* 1915: 400. 1915.

*Bauhinia glabrifolia* (Benth.) Baker subsp. *sericea* (Lace) K. Larsen & S.S. Larsen, *Nat. Hist. Bull. Siam. Soc.* 10. 1973.

*Phanera glabrifolia* Baker subsp. *sericea* (Lace) A. Schmitz, *Bull. Soc. Roy. Bot. Belg.* 110(1–2): 14. 1977.

*Bauhinia glabrifolia* (Benth.) Baker var. *sericea* (Lace) K. Larsen & S.S. Larsen in Aubréville & Leroy, *Fl. du Cambodge, du Laos et du Viêtname* 18: 187. 1980.

**DISTRIBUTION.** Myanmar, Thailand and Laos.

**Phanera glabristipes** de Wit, *Reinwardtia* 3(4): 442. 1956.

*Bauhinia glabristipes* (de Wit) Cusset, *Adansonia* n.s. 6: 278. 1966.

**DISTRIBUTION.** Endemic to Sarawak.

**Phanera gracillima** de Wit, *Reinwardtia* 3(4): 474. 1956.

*Bauhinia gracillima* (de Wit) Cusset, *Adansonia* n.s. 6: 279. 1966.

**DISTRIBUTION.** Endemic to Sabah.

**Phanera havilandii** (Merr.) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 57. 2012.

*Bauhinia havilandii* Merr., *Philipp. J. Sci., Bot.* 11(part C2): 79. 1916.

**DISTRIBUTION.** Sarawak, Brunei, Sabah and Kalimantan.

**Phanera hendersonii** de Wit, *Reinwardtia* 3(4): 456. 1956.

*Bauhinia hendersonii* (de Wit) Cusset, *Adansonia* n.s. 6: 279. 1966.



**DISTRIBUTION.** Endemic to the Anambas Is, Indonesia.

**Phanera hypochrysa** (T.C. Chen) Mackinder & R. Clark **comb. nov.**

*Bauhinia hypochrysa* T.C. Chen, *Guihaia* 8(1): 47. 1988. Type: China, Guangxi, Longzhou, Zhangshan, Longmen, Longjun Exped. 134 (holotype SCBI).

**DISTRIBUTION.** Endemic to China.

**Phanera integrifolia** (Roxb.) Benth. in Miq., *Pl. Jungh.* 2: 263. 1852.

**DISTRIBUTION.** Peninsular Malaysia, Thailand, Sabah, Sumatra and the Philippines.

*Bauhinia integrifolia* Roxb., *Hort. Beng.*: 90. 1814.

**a. Phanera integrifolia** subsp. **integrifolia**

*Phanera junghuhniana* Benth. in Miq., *Pl. Jungh.* 2: 265. 1852.

*Phanera polyantha* Miq., *Fl. Ind. Bat.* 1(1): 1079. 1858.

*Phanera bicornuta* Miq. *Fl. Ind. Bat. Suppl. Sumatra*: 265. 1860.

*Phanera bidentata* (Jack) Benth. subsp. *bicornuta* (Miq.) de Wit var. *bicornuta*, *Reinwardtia* 3(4): 499. 1956.

**DISTRIBUTION.** Thailand, Peninsular Malaysia and Sumatra.

**b. Phanera integrifolia** subsp. **cumingiana** (Benth.) de Wit, *Reinwardtia* 3(4): 480. 1956.

**DISTRIBUTION.** Sabah and Philippines.

*Phanera cumingiana* Benth. in Miq. *Plant. Jungh.*: 263. 1852.

**b(i). Phanera integrifolia** subsp. **cumingiana** var. **cumingiana**

**DISTRIBUTION.** Sabah and Philippines.

**b(ii). Phanera integrifolia** subsp. **cumingiana** var. **nymphaeifolia** Mackinder & R. Clark **comb. nov.**

*Bauhinia nymphaeifolia* Perkins, *Fragm. Fl. Philipp.*: 11. 1908. Type: Philippines, Luzon, *Cuming 1181* (lectotype K, isolectotypes E, G, K, L, P, PRC, W).

*Bauhinia integrifolia* subsp. *cumingiana* (Benth.) K. Larsen & S.S. Larsen var. *nymphaeifolia* (Perkins) K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 658. 1993.

**DISTRIBUTION.** Endemic to the Philippines.

**Phanera involucellata** (Kurz) de Wit, *Reinwardtia* 3(4): 471. 1956.

*Bauhinia involucellata* Kurz, *J. As. Soc. Bengal* 42(2): 7. 1873.

**DISTRIBUTION.** Myanmar and Thailand.

**Phanera khasiana** (Baker) Thoth., *Bull. Bot. Soc. Beng.* 19: 131. 1965.

*Bauhinia khasiana* Baker in Hook.f., *Fl. Brit. India* 2: 281. 1878.

Notes: Larsen *et al.* (1980) recognised two subspecies but in a treatment of the species for the Flora of China, Li *et al.* (2010) placed the atypical taxon, *Bauhinia khasiana* Baker subsp. *polystachya* (Gagnep.) K. Larsen & S.S. Larsen in synonymy under *B. khasiana* var. *khasiana* and we have followed that classification here. However, Bandyopadhyay *et al.* (2012) followed Larsen *et al.* (1980) and made a combination in *Phanera* for subsp. *polystachya*.

**DISTRIBUTION.** China, India, Thailand, Laos and Vietnam.

**a. Phanera khasiana** var. **khasiana**

*Bauhinia pierrei* Gagnep., *Notul. Syst.* 2: 178. 1912.

*Phanera pierrei* (Gagnep.) A. Schmitz, *Bull. Soc. Roy. Bot. Belg.* 110 (1–2): 14. 1977.

*Bauhinia polystachya* Gagnep., *Notul. Syst.* 2: 178. 1912.

*Bauhinia khasiana* Baker subsp. *polystachya* (Gagnep.) K. Larsen & S.S. Larsen in Aubréville & Leroy, *Fl. du Cambodge, du Laos et du Vietnam* 18: 189. 1980.

*Phanera khasiana* subsp. *polystachya* (Gagnep.) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 57. 2012.

**DISTRIBUTION.** China, India, Thailand, Laos and Vietnam.

**b. Phanera khasiana** var. **gigalobia** (D.X. Zhang) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 57. 2012.

*Bauhinia khasiana* Baker var. *gigalobia* D.X. Zhang, *Nordic J. Bot.* 13(4): 401. 1993.

**DISTRIBUTION.** Endemic to China.

**c. *Phanera khasiana* var. *tomentella*** (T.C. Chen) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 57. 2012.

*Bauhinia khasiana* Baker var. *tomentella* T.C. Chen, *Guihaia* 8(1): 46. 1988.

**DISTRIBUTION.** Endemic to China.

***Phanera kingii*** (Prain) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 57. 2012.

*Bauhinia kingii* Prain, *J. As. Soc. Bengal*, 66(2): 189. 1897.

*Phanera bidentata* Jack subsp. *bidentata* var. *kingii* de Wit, *Reinwardtia* 3(4): 498. 1956.

**DISTRIBUTION.** Endemic to Peninsular Malaysia.

***Phanera kockiana*** (Korth.) Benth. in Miq., *Pl. Jungh.* 2: 263. 1852.

**DISTRIBUTION.** Peninsular Malaysia, Sumatra, Sarawak, Brunei, Sabah, Kalimantan and the Lesser Sunda Is.

**a. *Phanera kockiana* var. *kockiana***

*Bauhinia kockiana* Korth., *Verh. Nat. Gesch. Ned. Bezitt.*, Bot (1841: 87).

**DISTRIBUTION.** Peninsular Malaysia, Sarawak, Brunei, Sabah, Kalimantan and the Lesser Sunda Is.

**b. *Phanera kockiana* var. *angustifolia*** (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 57. 2012.

*Bauhinia kockiana* var. *angustifolia* K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 664. 1993.

**DISTRIBUTION.** Sarawak and Sabah [Bario, 4.ix.1985, fl., *Dayang Awa S.51084(K)*].

**c. *Phanera kockiana* var. *bakoensis*** (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 57. 2012.

*Bauhinia kockiana* var. *bakoensis* K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 664. 1993.

**DISTRIBUTION.** Endemic to Sarawak.

**d. *Phanera kockiana* var. *beccarii*** (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 57. 2012.

*Bauhinia kockiana* var. *beccarii* K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 664. 1993.

**DISTRIBUTION.** Endemic to Sabah.

**e. *Phanera kockiana* var. *brevipedicellata*** (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 58. 2012.

*Bauhinia kockiana* var. *brevipedicellata* K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 664. 1993.

**DISTRIBUTION.** Endemic to Kalimantan.

**f. *Phanera kockiana* var. *calcicola*** (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 58. 2012.

*Bauhinia kockiana* var. *calcicola* K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 664. 1993.

**DISTRIBUTION.** Endemic to Sarawak.

**g. *Phanera kockiana* var. *scarlatina*** (Cammerl.) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 58. 2012.

*Bauhinia scarlatina* Cammerl., *Bul. Fac. Sti. Cernauti* 3. 171. 1929.

*Phanera scarlatina* (Cammerl.) de Wit, *Reinwardtia* 3(4): 526. 1956.

*Bauhinia kockiana* Korth. var. *scarlatina* (Cammerl.) K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 665. 1993.

**DISTRIBUTION.** Kalimantan and Sabah [Nabawan Distr., Mile 41 Rashna rd., 10.vi.1978, fl., *Abas SAN85880(K)*; Lamag Distr., Sungai Lokan, 7.vii.1983, fl., *Amin SAN97497(K)*; Sandakan Distr., Kinabatangan, 12.v.1970, fl., *Lassan SAN70656(K)*; Beaufort Distr., Mile 4 Weston Rail Line, 26.vi.1962, fl., *Mikil SAN30233(K)*; Beaufort Distr., Mesapol FR, 24.vii.1964, fl. & fr., *Rundi 43272(K)*].

**h. *Phanera kockiana* var. *sericeinervia*** de Wit, *Reinwardtia* 3(4): 524. 1956.

*Bauhinia kockiana* Korth. var. *sericeinervia* (de Wit) K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 665. 1993.

**DISTRIBUTION.** Endemic to Sumatra.

**i. *Phanera kockiana* var. *velutina*** de Wit, *Reinwardtia* 3(4): 525. 1956.

*Bauhinia kockiana* Korth. var. *velutina* (de Wit) K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 665. 1993.

**DISTRIBUTION.** Sarawak and Kalimantan.

**Phanera kurzii** (Prain) Thoth., *Bull. Bot. Soc. Beng.* 19: 133. 1965.

*Bauhinia kurzii* Prain, *J. As. Soc. Beng.* 66(2): 499. 1897.

**DISTRIBUTION.** Endemic to Myanmar.

**Phanera kostermansii** (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 58. 2012.

*Bauhinia kostermansii* K. Larsen & S.S. Larsen. *Nordic J. Bot.* 11(6): 629. 1991.

**DISTRIBUTION.** Sabah and Kalimantan.

**Phanera lambiana** (Baker f.) de Wit, *Reinwardtia* 3(4): 525. 1956.

*Bauhinia lambiana* Baker f., *J. Bot. Lond.* 76: 19. 1938.

**DISTRIBUTION.** Sarawak and Brunei.

**Phanera lingua** (DC.) Miq., *Fl. Ned. Ind.* 1(1): 67. 1855.

*Bauhinia lingua* DC., *Prodr.* 2: 516. 1825.

**a. Phanera lingua** var. **lingua**

*Phanera teysmanniana* (Scheff.) Warb., *Engl. Bot. Jahrb.* 13: 332. 1891.

**DISTRIBUTION.** Sulawesi, Lesser Sunda Is, Philippines and Papua New Guinea.

**b. Phanera lingua** var. **antipolana** (Perkins) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 58. 2012.

*Bauhinia antipolana* Perkins, *Fragm. Fl. Philipp.* 1: 9. 1904.

*Bauhinia lingua* var. *antipolana* (Perkins) K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 660. 1993.

**DISTRIBUTION.** Endemic to the Philippines.

**c. Phanera lingua** var. **riedelii** (Baker) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 58. 2012.

*Bauhinia riedelii* Baker, *J. Linn. Soc. Bot.* 15: 98. 1876.

*Phanera riedelii* (Baker) de Wit, *Reinwardtia* 3(4): 463. 1956.

*Bauhinia lingua* var. *riedelii* (Baker) K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 660. 1993.

**DISTRIBUTION.** Moluccas Is. and Sulawesi.

**Phanera lucida** Benth. in Miq., *Pl. Jungh.* 2: 262. 1852.

*Bauhinia lucida* (Miq.) Prain, *J. As. Soc. Beng.* 66 (2): 188. 1897.

*Phanera piperifolia* Benth. in Miq., *Pl. Jungh.* 2: 262. 1852.

**DISTRIBUTION.** Peninsular Malaysia and Sumatra.

**Phanera lyrata** (Raizada) Thoth., *Bull. Bot. Soc. Beng.* 19: 132. 1965.

*Bauhinia lyrata* Raizada, *Ind. For. Rec. n.s.* 3(3): 123. 1941.

**DISTRIBUTION.** Endemic to Myanmar.

**Phanera meeboldii** (Craib) Thoth., *Bull. Bot. Soc. Beng.* 19: 133. 1965.

*Bauhinia meeboldii* Craib, *Fedde Repert.* 12: 392. 1913.

**DISTRIBUTION.** Endemic to Myanmar.

**Phanera menispermacea** (Gagnep.) de Wit, *Reinwardtia* 3(4): 513. 1956.

*Bauhinia menispermacea* Gagnep., *Not. Syst.* 2: 176. 1912.

**DISTRIBUTION.** Sarawak and Kalimantan.

**Phanera merrilliana** (Perkins) de Wit, *Reinwardtia* 3(4): 461. 1956.

*Bauhinia merrilliana* Perkins, *Fragm. Fl. Philipp.* 1: 10. 1904.

**DISTRIBUTION.** Sarawak, Sabah and the Philippines.

**a. Phanera merrilliana** var. **merrilliana**

**DISTRIBUTION.** Endemic to the Philippines.

**b. *Phanera merrilliana* var. *borneensis*** (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 58. 2012.

*Bauhinia merrilliana* var. *borneensis* K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 658. 1993.

**DISTRIBUTION.** Sarawak and Sabah.

***Phanera nakhonphanomensis*** (Chatan) Mackinder & R. Clark **comb. nov.**

*Bauhinia nakhonphanomensis* Chatan, *PhytoKeys* 26: 1–5. 2013. doi: 10.3897/phytokeys.26.6008. Type Thailand, Phulangka National Park, Ban Pheang District, Nakhon Phanom Province, *Chatan 1337* (holotype: BK; isotype: MSUT).

**DISTRIBUTION.** Endemic to Thailand.

***Phanera nervosa*** Benth. in Miq., *Pl. Jungh.* 2: 262. 1852.

*Bauhinia nervosa* (Benth.) Baker in Hook. f., *Fl. Brit. India* 2: 283. 1876.

**DISTRIBUTION.** China, India, Bangladesh, Myanmar and Thailand.

***Phanera ornata*** (Kurz) Thoth., *Bull. Bot. Soc. Beng.* 19: 134. 1965.

*Bauhinia ornata* Kurz, *J. As. Soc. Beng.* 42: 72. 1873.

*Phanera ornata* (Kurz) A. Schmitz, *Bull. Soc. Roy. Bot. Belg.* 110(1–2): 13. 1977.

**DISTRIBUTION.** China, India, Myanmar, Thailand, Laos and Vietnam.

**a. *Phanera ornata* subsp. *ornata***

**a(i). *Phanera ornata* var. *ornata***

*Phanera ornata* (Kurz) A. Schmitz, *Bull. Soc. Roy. Bot. Belg.* 110(1–2): 13. 1977.

**DISTRIBUTION.** Endemic to Myanmar.

**a(ii). *Phanera ornata* var. *balansae*** (Gagnep.) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 58. 2012.

*Bauhinia ornata* var. *balansae* (Gagnep.) K. Larsen & S.S. Larsen in Aubréville & Leroy, *Fl. du Cambodge, du Laos et du Vietnam* 18: 209. 1980.

*Bauhinia balansae* Gagnep., *Notul. Syst.* 2: 168. 1912.

**DISTRIBUTION.** China and Vietnam.

**a(iii). *Phanera ornata* var. *burmanica*** (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 59. 2012.

*Bauhinia ornata* var. *burmanica* K. Larsen & S.S. Larsen, *Thai Forest Bull.*, Bot. 13: 42. 1980.

**DISTRIBUTION.** Myanmar and Thailand.

**a(iv). *Phanera ornata* var. *kerrii*** (Gagnep.) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 59. 2012.

*Bauhinia kerrii* Gagnep., *Notul. Syst.* 2: 173. 1912.

*Phanera rufa* Benth. in Miq., *Pl. Jungh.* 2: 263. 1852.

*Bauhinia bakeriana* S.S. Larsen, *Grana* 14: 126. 1975.

*Phanera bakeriana* (S.S. Larsen) A. Schmitz, *Bull. Soc. Roy. Bot. Belg.* 110(1–2): 14. 1977.

*Bauhinia ornata* var. *kerrii*. (Gagnep.) K. Larsen & S.S. Larsen in Aubréville & Leroy, *Fl. du Cambodge, Laos et du Vietnam* 18: 208. 1980.

*Bauhinia ornata* var. *subumbellata* (Gagnep.) K. Larsen & S.S. Larsen in Aubréville & Leroy, *Fl. du Cambodge, du Laos et du Vietnam* 18: 209. 1980.

*Bauhinia ornata* var. *contigua* T.C. Chen, *Guihaia* 8(1): 48. 1988.

*Phanera ornata* var. *subumbellata* (Gagnep.) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 59. 2012.

Notes. In *Flore du Cambodge, du Laos et du Vietnam*, two varieties (vars. *contigua* and *subumbellata*) are recognised (Larsen *et al.* 1980). Both varieties were later placed in synonymy under var. *kerrii* by Li *et al.* (2010) and we have followed the more recent classification here.

**DISTRIBUTION.** China, India, Myanmar, Thailand, Laos and Vietnam.

- b. *Phanera ornata* subsp. *mizoramensis*** (Bandyop., B.D. Sharma & Thoth.) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 58. 2012.  
*Bauhinia ornata* Kurz subsp. *mizoramensis* Bandyop., B.D. Sharma & Thoth., *Nordic J. Bot.* 12: 223. 1992.  
**DISTRIBUTION.** Endemic to India.
- Phanera pachyphylla*** (Merr.) de Wit, *Reinwardtia* 3(4): 461. 1956.  
*Bauhinia pachyphylla* Merr., *Philipp. J. Sc.* 27: 24. 1925.  
**DISTRIBUTION.** Endemic to the Philippines.
- a. *Phanera pachyphylla* var. *pachyphylla***  
**DISTRIBUTION.** Endemic to the Philippines.
- b. *Phanera pachyphylla* var. *wenzelii*** (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 59. 2012.  
*Bauhinia pachyphylla* Merr. var. *wenzelii* K. Larsen & S.S. Larsen, *Nord. J. Bot.* 13 (6): 659. 1993.  
**DISTRIBUTION.** Endemic to the Philippines.
- Phanera pauciflora*** (Merr.) de Wit, *Reinwardtia* 3(4): 462. 1956.  
*Bauhinia pauciflora* Merr., *Philipp. J. Sc. Bot.* 10: 13. 1915.  
**DISTRIBUTION.** Endemic to the Philippines.
- Phanera paucinervata*** (T.C. Chen) Mackinder & R. Clark **comb. nov.**  
*Phanera paucinervata* T.C. Chen, *Guihaia* 8(1): 46. Type: China, Guangxi, Longzhou, Qingshan, *S.H. Chun 11882* (holotype SCBI).  
**DISTRIBUTION.** Endemic to China.
- Phanera phoenicea*** (Wight & Arn.) Benth. in Miq., *Pl. Jungh.* 2: 264. 1852.  
*Bauhinia phoenicea* Wight & Arn., *Prodr. Fl. Ind. Orient.* 1: 296. 1832.  
**DISTRIBUTION.** Endemic to India.
- Phanera posthumi*** de Wit, *Reinwardtia* 3(4): 515. 1956.  
*Bauhinia posthumi* (de Wit) Cusset, *Adansonia* n.s. 6: 279. 1966.  
**DISTRIBUTION.** Endemic to Sumatra.
- Phanera pottingeri*** (Prain) Thoth., *Bull. Bot. Soc. Beng.* 19: 133. 1965.  
*Bauhinia pottingeri* Prain, *J. As. Soc. Beng.* 67 (2): 289. 1897.  
**DISTRIBUTION.** Endemic to Myanmar.
- Phanera praesignis*** (Ridl.) de Wit, *Reinwardtia* 3(4): 444. 1956.  
*Bauhinia praesignis* Ridley, *Fl., Malay Penins.*: 305. 1925.  
**DISTRIBUTION.** Endemic to Peninsular Malaysia.
- Phanera pyrrhoclada*** (Drake) de Wit, *Reinwardtia* 3(4): 450. 1956.  
*Bauhinia pyrrhoclada* Drake, *J. Bot. (Morot)* 5: 218. 1891.  
**DISTRIBUTION.** China and Vietnam.
- Phanera pyrrhoneura*** (Korth.) Benth. in Miq., *Pl. Jungh.* 2: 262. 1852.  
*Bauhinia pyrrhoneura* Korth., *Verh. Nat. Gesch. Ned. Bezitt., Bot.* 3: 88. 1841, as “*pyrrhaneura*”  
*Phanera catalpaefolia* Miq., *Fl. Ind. Bat.* 1(1): 1079. 1858.  
*Phanera acuminatissima* Miq., *Fl. Ind. Bat., Suppl.*: 287. 1861.  
**DISTRIBUTION.** Endemic to Sumatra.
- Phanera rubro-villosa*** (K. Larsen & S.S. Larsen) Mackinder & R. Clark **comb. nov.**

*Bauhinia rubro-villosa* K. Larsen & S.S. Larsen in Aubréville & Leroy, *Fl. du Cambodge, du Laos et du Viêtنام* 18: 204. 1980. Type: Laos, Louang Prabang, Pac Bac, *Poilane 20526* (holotype P).

**DISTRIBUTION.** China, Laos and Viêtنام.

**Phanera rahmatii** (Merr.) Bandyop, P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 59. 2012.  
*Bauhinia rahmatii* Merr., *Pap. Michigan Acad. Sci.* 19: 158. 1934.

**DISTRIBUTION.** Endemic to Sumatra.

**Phanera ridleyi** (Prain) A. Schmitz., *Bull. Soc. Roy. Bot. Belg.* 110(1–2): 15. 1977.

*Bauhinia ridleyi* Prain, *J. As. Soc. Beng.* 66 (2): 185. 1897.

*Phanera dasycarpa* Miq. var. *ridleyi* (Prain) de Wit, *Reinwardtia* 3(4): 450. 1956.

*Phanera ridleyi* (Prain) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 59. 2012.

**DISTRIBUTION.** Peninsular Malaysia and Thailand.

**Phanera saigonensis** (Pierre ex Gagnep.) Mackinder & R. Clark **comb. nov.**

*Bauhinia saigonensis* Pierre ex Gagnep., *Not. Syst.* 2: 179. 1912. Type: Thailand, Thu-dau-mot, *Pierre 1051* (holotype P, isotypes A, BM, K, US).

**DISTRIBUTION.** Thailand, Cambodia, Laos and Viêtنام.

**a. Phanera saigonensis** var. **saigonensis**

**DISTRIBUTION.** Endemic to Viêtنام.

**b. Phanera saigonensis** var. **gagnepainiana** (K. Larsen & S.S. Larsen) Mackinder & R. Clark **comb. nov.**

*Bauhinia saigonensis* var. *gagnepainiana*. K. Larsen & S.S. Larsen in Aubréville & Leroy, *Fl. du Cambodge, du Laos et du Viêtنام* 18: 196. 1980. Type: Cambodia, Stung Treng, Changoeur-Ta Trâu, *Poilane 14159* (holotype P).

**DISTRIBUTION.** Thailand, Laos and Cambodia.

**c. Phanera saigonensis** var. **poilanei** (K. Larsen & S.S. Larsen) Mackinder & R. Clark **comb. nov.**

*Bauhinia saigonensis* var. *poilanei* K. Larsen & S.S. Larsen in Aubréville & Leroy, *Fl. du Cambodge, du Laos et du Viêtنام* 18: 197. 1980. Type: Viêtنام, Nuoc Ngat, *Eberhardt 3177* (holotype P, isotype P).

**DISTRIBUTION.** Endemic to Viêtنام.

**Phanera semibifida** (Roxb.) Benth. in Miq., *Pl. Jungh.* 2: 263. 1852.

**DISTRIBUTION.** Peninsular Malaysia, Sumatra, Sarawak, Sabah, Kalimantan, Sulawesi and the Philippines.

**a. Phanera semibifida** var. **semibifida**

*Phanera sumatrana* Miq., *Fl. Ind. Bat.* 1(1): 1078. 1858.

**DISTRIBUTION.** Peninsular Malaysia, Sumatra, Sabah [Labuk Sugut Distr., Beluran, 15.ix.1984. fl. *Amin SAN67088*(K); Labuk Sugut Distr., Telupid, 15.vi.1982, fl. *Sundaling SAN90335*(K); Sandakan Distr., Mile 57 Labuk Rd. 15.ix.1972, fl., *Kumin SAN75594*(K)]; Kalimantan, Sulawesi and the Philippines.

**b. Phanera semibifida** var. **acuminata** (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 59. 2012.

*Bauhinia semibifida* Roxb. var. *acuminata* K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 660. 1993.

**DISTRIBUTION.** Endemic to Sabah.

**c. Phanera semibifida** var. **bruneiana** (K. Larsen & S.S. Larsen) Bandyop.,

P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 59. 2012.

*Bauhinia semibifida* Roxb. var. *bruneiana* K. Larsen & S. S. Larsen, *Nordic J. Bot.* 13(6): 660. 1993.

**DISTRIBUTION.** Sarawak, Brunei and Sabah.

**d. Phanera semibifida** var. **longebracteata** (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 59. 2012.

*Bauhinia semibifida* Roxb. var. *longebracteata*, K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 660. 1993.

**DISTRIBUTION.** Endemic to Kalimantan.

**e. Phanera semibifida** var. **perkinsiae** (Merr.) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 59. 2012.

*Bauhinia perkinsiae* Merr., *Publ. Bur. Sci. Gov. Lab.* 17: 21. 1904.

*Bauhinia semibifida* Roxb. var. *perkinsiae* (Merr.) K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 661. 1993.

**DISTRIBUTION.** Endemic to the Philippines.

**f. *Phanera semibifida* var. *stenostachya*** (Baker) de Wit, *Reinwardtia* 3(4): 468. 1956.

*Bauhinia stenostachya* Baker, *Bull. Misc. Inf. Kew* 1896: 22. 1896.

*Bauhinia semibifida* Roxb. var. *stenostachya* (Baker) K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 661. 1993.

**DISTRIBUTION.** Sarawak and Sabah.

***Phanera siamensis*** (K. Larsen & S.S. Larsen) Mackinder & R. Clark **comb. nov.**

*Bauhinia siamensis* K. Larsen & S.S. Larsen, *Nat. Hist. Bull. Siam Soc.* 50(1): 99. 2002. Type: Thailand, Phitsanulok Prov., Chartrakran Distr., north of Ban Dong forest Protection Station, *Wongprasert 012-01* (holotype BKF, isotypes AAU, E, K, L, MO).

**DISTRIBUTION.** Endemic to Thailand. Only known from the type locality.

***Phanera similis*** (Craib) de Wit, *Reinwardtia* 3(4): 471. 1956.

*Bauhinia similis* Craib, *Kew Bull.* 1927: 391. 1927.

**DISTRIBUTION.** Myanmar, Thailand and Laos.

***Phanera sirindhorniae*** (K. Larsen & S.S. Larsen) Mackinder & R. Clark **comb. nov.**

*Bauhinia sirindhorniae* K. Larsen & S.S. Larsen, *Nordic J. Bot.* 17(2): 113. 1997. Type: Thailand, Nong Kai Province, Bung Kla Distr., Ban Phu Sa Waad, Phu Tok Noi, *C. Niyomdham 4471* (holotype BKF, isotypes AAU, K).

**DISTRIBUTION.** Endemic to Thailand.

***Phanera stipularis*** (Korth.) Benth. in Miq., *Pl. Jungh.* 2: 263. 1852.

*Bauhinia stipularis* Korth., *Verh. Nat. Gesch. Ned. Bezitt., Bot.*: 92. 1841.

**DISTRIBUTION.** India, the Nicobar Islands and Sumatra.

**a. *Phanera stipularis* var. *stipularis***

*Phanera albolutea* Miq., *Fl. Ind. Bat.* 1(1): 1079. 1858.

*Phanera nicobarica* Balakr. & Thoth., *Bull. Bot. Surv. India* 17: 201. 1975.

**DISTRIBUTION.** India, the Nicobar Islands and Sumatra.

**b. *Phanera stipularis* var. *brachystylus*** (K. Larsen & S.S. Larsen) Bandyop.,

P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 60. 2012.

*Bauhinia stipularis* Korth. var. *brachystylus* K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 659. 1993.

**DISTRIBUTION.** Endemic to Sumatra.

***Phanera steenisii*** (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 60. 2012.

*Bauhinia steenisii* K. Larsen & S.S. Larsen, *Nordic J. Bot.* 11: 630. 1991.

**DISTRIBUTION.** Endemic to Sabah.

***Phanera sulphurea*** (C.E.C. Fischer) Thoth., *Bull. Bot. Soc. Beng.* 19: 133. 1965.

*Bauhinia sulphurea* C.E.C. Fischer, *Kew Bull.* 1927: 85. 1927.

*Phanera sulphurea* (C.E.C. Fischer) A. Schmitz, *Bull. Soc. Roy. Bot. Belg.* 110(1–2): 13. 1977.

**DISTRIBUTION.** Endemic to Myanmar.

***Phanera sylvani*** de Wit, *Reinwardtia* 3(4): 438. 1956.

*Bauhinia sylvani* (de Wit) Cusset, *Adansonia* n.s. 6: 278. 1966.

**DISTRIBUTION.** Sarawak and Sabah.

***Phanera tianlinensis*** (T.C. Chen & D.X. Zhang) Mackinder & R. Clark **comb. nov.**

*Bauhinia tianlinensis* T.C. Chen & D.X. Zhang, *Nord. J. Bot.* 18(2): 141. 1998. Type: China, Guangxi, Tianling County, Laoshan & vicinity, *Chang Chao-Chien 10969* (holotype IBSC, isotypes IBSC, IBK).

**DISTRIBUTION.** Endemic to China.

**Phanera vahlii** (Wight & Arn.) Benth. in Miq., *Pl. Jungh.* 2: 263. 1852.

*Bauhinia vahlii* Wight & Arn., *Cat. Ind. Pl.*: 38. 1833.

**DISTRIBUTION.** India and Bhutan.

**Phanera wallichii** (J.F. Macbr.) Thoth., *Bull. Bot. Soc. Beng.* 19: 131. 1965.

*Bauhinia wallichii*, J.F. Macbr., *Contribs, Gray Herb.*, n.s. 3(59): 23. 1919.

*Phanera macrostachya* Benth. in Miq., *Pl. Jungh.*: 262. 1852

**DISTRIBUTION.** India, Myanmar and Vietnam.

**Phanera williamsii** (F. Muell.) de Wit, *Reinwardtia* 3(4): 528. 1956.

*Bauhinia williamsii* F. Muell., *Descr. Notes Papuan*: 4: 61. 1876.

**DISTRIBUTION.** Papua New Guinea and Australia.

**Phanera wrayi** (Prain) de Wit, *Reinwardtia* 3(4): 517. 1956.

*Bauhinia wrayi* Prain, *J. As. Soc. Beng.* 66(2): 191. 1897.

**DISTRIBUTION.** Peninsular Malaysia, Sumatra, Sarawak, Brunei, Sabah and Kalimantan.

**a. Phanera wrayi** var. **wrayi**

**DISTRIBUTION.** Peninsular Malaysia and Sumatra.

**b. Phanera wrayi** var. **blumeana** (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 60. 2012.

*Bauhinia wrayi* var. *blumeana* K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 662. 1993.

**DISTRIBUTION.** Endemic to Sumatra.

**c. Phanera wrayi** var. **borneensis** (K. Larsen & S.S. Larsen) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 60. 2012.

*Bauhinia wrayi* var. *borneensis* K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13: 662. 1993.

**DISTRIBUTION.** Sabah and Kalimantan.

**d. Phanera wrayi** var. **cancellata** (Ridl.) de Wit, *Reinwardtia* 3(4): 518. 1956.

*Bauhinia cancellata* Ridl., *Bull. Misc. Inf. Kew* 1929: 256. 1829.

**DISTRIBUTION.** Endemic to Peninsular Malaysia.

**d. Phanera wrayi** var. **cardiophylla** (Merr.) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 60. 2012.

*Bauhinia cardiophylla* Merr., *Philipp. J. Sci.*, 11(C2): 79. 1916.

*Phanera cardiophylla* (Merr.) de Wit, *Reinwardtia* 3(4): 501. 1956.

*Bauhinia wrayi* Prain var. *cardiophylla* (Merr.) K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 662. 1993.

**DISTRIBUTION.** Sarawak and Brunei.

**e. Phanera wrayi** var. **moultonii** (Merr.) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 60. 2012.

*Bauhinia moultonii* Merr., *Philipp. J. Sci.*, 11 (part C2): 82. 1916.

*Bauhinia wrayi* Prain var. *moultonii* (Merr.) K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 662. 1993.

**DISTRIBUTION.** Sarawak, Sabah and Kalimantan.

**f. Phanera wrayi** var. **rubella** de Wit, *Reinwardtia* 3(4): 515. 1956.

*Bauhinia wrayi* var. *rubella* (de Wit) K. Larsen & S.S. Larsen, *Nordic J. Bot.* 13(6): 662. 1993.

**DISTRIBUTION.** Endemic to Sumatra.

**Phanera wuzhengyii** (S.S. Larsen) Bandyop., P.P. Ghoshal & M.K. Pathak, *Bangladesh J. Pl. Taxon.* 19(1): 60. 2012.

*Bauhinia wuzhengyii* S.S. Larsen, *Novon* 9: 526. 1999.

**DISTRIBUTION.** Endemic to China.

**Phanera yunnanensis** (Franch.) Wunderlin, *Phytoneuron* 2011-19: 1. 2011.

*Bauhinia yunnanensis* Franch., *Pl. Delavay.*: 190. 1890.



*Phanera collettii* Thoth., *Bull. Bot. Soc. Beng.* 19: 133. 1965.

**DISTRIBUTION.** China, Myanmar and Thailand.

### **Excluded Names**

- Phanera alata* (Ducke) Vaz, *Rodriguésia* 6: 34. 2010. = **Schnella alata** (Ducke) Wunderlin, *Phytoneuron* 2010-49: 3. 2010.
- Phanera altiscandens* (Ducke) Vaz, *Rodriguésia* 6: 34. 2010. = **Schnella altiscandens** (Ducke) Wunderlin, *Phytoneuron* 2010-49: 3. 2010.
- Phanera anamesa* (J.F. Macbr.) Vaz, *Rodriguésia* 6: 34. 2010. = **Schnella anamesa** (J.F. Macbr.) Wunderlin, *Phytoneuron* 2010-49: 3. 2010.
- Phanera angulosa* (Vogel) Vaz, *Rodriguésia* 6: 36. 2010. = **Schnella angulosa** (Vogel) Wunderlin, *Phytoneuron* 2010-49: 3. 2010.
- Phanera bifoliata* Miq., *Fl. Ned. Ind.* 1(1): 69. 1855. = **Lasiobema scandens** (L.) de Wit, *Reinwardtia* 3(4): 427. 1956.
- Phanera blancoi* Benth. in Miq., *Pl. Jungh.* 2: 264. 1852. = **Lysiphyllum binatum** (Blanco) de Wit, *Reinwardtia* 3(4): 432. 1956.
- Phanera carvalhoi* (Vaz) Vaz, *Rodriguésia* 6: 36. 2010. = **Schnella carvalhoi** (Vaz) Wunderlin, *Phytoneuron* 2010-49: 3. 2010.
- Phanera championii* Benth. in Miq., *Pl. Jungh.* 2: 78. 1852. = **Lasiobema championii** (Benth.) de Wit, *Reinwardtia* 3(4): 423. 1956.
- Phanera complicata* Miq., *Fl. Ned. Ind.* 1(1): 69. 1855. = **Lysiphyllum binatum** (Blanco) de Wit, *Reinwardtia* 3(4): 432. 1956.
- Phanera confertiflora* (Benth.) Vaz, *Rodriguésia* 6: 36. 2010. = **Schnella confertiflora** (Benth.) Wunderlin, *Phytoneuron* 2010-49: 3. 2010.
- Phanera corymbosa* (Roxb. ex DC.) Benth. in Miq., *Pl. Jungh.* 2: 264. 1852. = **Gen. nov. ined.**
- Phanera cunninghamii* Benth. in Miq., *Pl. Jungh.* 2: 264. 1852. = **Lysiphyllum cunninghamii** (Benth.) de Wit, *Reinwardtia* 3(4): 431. 1956.
- Phanera cupreonitens* (Ducke) Vaz, *Rodriguésia* 6: 36. 2010. = **Schnella cupreonitens** (Ducke) Wunderlin, *Phytoneuron* 2010-49: 3. 2010.
- Phanera debilis* (Hassk.) Miq., *Fl. Ned. Ind.* 1(1): 69. 1855. = **Lasiobema scandens** (L.) de Wit, *Reinwardtia* 3(4): 427. 1956.
- Phanera diptera* (Blume ex Miq.) Miq., *Fl. Ned. Ind.* 1(1): 70. 1855. = **Lysiphyllum** (combination not available).
- Phanera dubia* (Vogel) Vaz, *Rodriguésia* 6: 36. 2010. = **Schnella** (combination not available).
- Phanera burkeana* Benth. in Miq., *Pl. Jungh.* 2: 264. 1852. nomen. nud. = **Tylosema esculentum** (Burch.) A. Schreib. The type of *Bauhinia esculenta* Burch. (*Burchell* 4414(K)) is annotated (in Bentham's handwriting) with the name *Phanera burkeana* Benth, indicating it as a synonym of *B. esculenta* which in turn is the basionym of *Tylosema esculentum* (Burch.) A. Schreib.).
- Phanera elongata* Benth. in Miq., *Pl. Jungh.* 2: 262. 1852. = **Bauhinia pottsii** G. Don var. **pottsii** K. Larsen & S.S. Larsen in T. Smitinand & K. Larsen, *Fl. Thailand* 4(1): 8. 1984.
- Phanera erythrantha* (Ducke) Vaz, *Rodriguésia* 6: 36. 2010. = **Schnella erythrantha** (Ducke) Wunderlin, *Phytoneuron* 2010-49: 3. 2010.
- Phanera flexuosa* (Moric.) L.P. Queiroz, *Neodiversity* 1(1): 6. 2006. = **Schnella flexuosa** (Moric.) Walp., *Repert. Bot. Syst. (Walpers)* 5: 572. 1846.
- Phanera glabra* (Jacq.) Vaz, *Rodriguésia* 6: 36. 2010. = **Schnella glabra** (Jacq.) Dugand., *Revista Acad. Colomb. Ci. Exact.* 4: 137. 1941.
- Phanera glauca* Benth. in Miq., *Pl. Jungh.* 2: 265. 1852. = **Gen. nov. ined.**
- Phanera glauca* Benth. subsp. *tenuiflora* (C.B. Clarke) A. Schmitz, *Bull. Soc. Roy. Bot. Belg.* 110(1–2): 14. 1977 = **Gen. nov. ined.**
- Phanera grazielae* (Vaz) Vaz, *Rodriguésia* 6: 37. 2010. = **Schnella grazielae** (Vaz) Wunderlin, *Phytoneuron* 2010-49: 3. 2010.

- Phanera guianensis* (Aubl.) Vaz, *Rodriguésia* 6: 37. 2010. = **Schnella guianensis** (Aubl.) Wunderlin, *Phytoneuron* 2010-49: 3. 2010.
- Phanera klugii* (Standl.) Vaz, *Rodriguésia* 6: 37. 2010. = **Schnella klugii** (Standl.) Wunderlin, *Phytoneuron* 2010-49: 3. 2010.
- Phanera kunthiana* (Vogel) Vaz, *Rodriguésia* 6: 37. 2010. = **Schnella kunthiana** (Vogel) Wunderlin, *Phytoneuron* 2010-49: 3. 2010.
- Phanera lakhonensis* (Gagnep.) A. Schmitz, *Bull. Soc. Roy. Bot. Belg.* 110(1–2): 14. 1977. = **Gen. nov. ined**
- Phanera longiseta* (Fróes) Vaz, *Rodriguésia* 6: 37. 2010. = **Schnella longiseta** (Fróes) Wunderlin, *Phytoneuron* 2010-49: 4. 2010.
- Phanera maximiliani* (Benth.) Vaz, *Rodriguésia* 6: 37. 2010. = **Schnella maximiliani** (Benth.) Wunderlin, *Phytoneuron* 2010-49: 2. 2010.
- Phanera microstachya* (Raddi) L.P. Queiroz, *Neodiversity* 1(1): 6. 2006. = **Schnella microstachya** Raddi, *Quar. Pl. Nuov. Bras.*: 33. 1820
- Phanera outimouta* (Aubl.) L.P. Queiroz, *Neodiversity* 1(1): 7. 2006. = **Schnella outimouta** (Aubl.) Wunderlin, *Phytoneuron* 2010-49: 4. 2010.
- Phanera platycalyx* (Benth.) Vaz, *Rodriguésia* 6: 37. 2010. = **Schnella platycalyx** (Benth.) Wunderlin, *Phytoneuron* 2010-49: 4. 2010.
- Phanera poiteauana* (Vogel) Vaz, *Rodriguésia* 6: 37. 2010. = **Schnella poiteauana** (Vogel) Wunderlin, *Phytoneuron* 2010-49: 2. 2010.
- Phanera porphyrotricha* (Harms) Vaz, *Rodriguésia* 6: 37. 2010. = **Schnella porphyrotricha** (Harms) Wunderlin, *Phytoneuron* 2010-49: 4. 2010.
- Phanera pterocalyx* (Ducke) Vaz, *Rodriguésia* 6: 38. 2010. = **Schnella pterocalyx** (Ducke) Wunderlin, *Phytoneuron* 2010-49: 4. 2010.
- Phanera punctata* (Bolle) Britton, *Sci. Surv. Porto Rico & Virgin Islands* 540. 1930 = **Bauhinia galpinii** N.E.Br., *Hooker's Icon. Pl.* 20: t. 1994. 1891.
- Phanera purpurea* Benth. in Miq., *Pl. Jungh.* 2: 262. 1852. = **Bauhinia purpurea** L., *Sp. Pl.*: 375. 1753.
- Phanera radiata* (Vell.) Vaz, *Rodriguésia* 6: 38. 2010. = **Schnella** (combination not available).
- Phanera retusa* Benth. in Miq., *Pl. Jungh.* 2: 263. 1852. = **Lasiobema retusa** (Roxb.) de Wit, *Reinwardtia* 3(4): 538. 1956.
- Phanera riedeliana* (Bong.) Vaz, *Rodriguésia* 6: 38. 2010. = **Schnella riedeliana** (Bong.) Wunderlin, *Phytoneuron* 2010-49: 4. 2010.
- Phanera rutilans* (Spruce ex Benth.) Vaz, *Rodriguésia* 6: 38. 2010. = **Schnella rutilans** (Spruce ex Benth.) Pittier, *Cat. Fl. Venez.* 1: 362. 1945.
- Phanera scandens* (L.) Rafin., *Sylva Tellur.*: 122. 1838. = **Lasiobema scandens** (L.) de Wit, *Reinwardtia* 3(4): 427. 1956.
- Phanera siqueirae* (Ducke) Vaz, *Rodriguésia* 6: 38. 2010. = **Schnella siqueirae** (Ducke) Wunderlin, *Phytoneuron* 2010-49: 3. 2010.
- Phanera smilacina* (Schott) Vaz, *Rodriguésia* 6: 38. 2010. = **Schnella smilacina** G. Don, *Gen. Hist.* 2: 459. 1832.
- Phanera speciosa* Miq., *Fl. Ned. Ind.* 1(1): 61. 1855. = **Bauhinia pottsii** G. Don var. **pottsii** K. Larsen & S.S. Larsen, in T. Smitinand & K. Larsen, *Fl. Thailand* 4(1): 9. 1984.
- Phanera splendens* (Kunth) Vaz, *Rodriguésia* 6: 38. 2010. = **Schnella splendens** Benth., *J. Bot. (Hooker)* 2: 97. 1840.
- Phanera sprucei* (Benth.) Vaz, *Rodriguésia* 6: 39. 2010. = **Schnella sprucei** (Benth.) Wunderlin, *Phytoneuron* 2010-49: 4. 2010.
- Phanera surinamensis* (Amshoff) Vaz, *Rodriguésia* 6: 39. 2010. = **Schnella surinamensis** (Amshoff) Wunderlin, *Phytoneuron* 2010-49: 4. 2010.
- Phanera tenuiflora* (C.B. Clarke) de Wit, *Reinwardtia* 3(4): 490. 1956. = **Gen. nov. ined.**
- Phanera touranensis* (Gagnep.) A. Schmitz, *Bull. Jard. Bot. Belg.* 43(3–4): 381. 1973. = **Gen. nov. ined.**
- Phanera trichosepala* L.P. Queiroz, *Neodiversity* 1(1): 7. 2006. = **Schnella trichosepala** (L.P. Queiroz) Wunderlin, *Phytoneuron* 2010-49: 2. 2010.
- Phanera uleana* (Harms) Vaz, *Rodriguésia* 6: 39. 2010. = **Schnella uleana** (Harms) Wunderlin, *Phytoneuron* 2010-49: 5. 2010.

*Phanera variegata* (L.) Benth. in Miq., *Pl. Jungh.* 2: 262. 1852. = **Bauhinia variegata** L. Sp. Pl.: 375. 1753.  
*Phanera velutina* Benth. in Miq., *Pl. Jungh.* 2: 262. 1852. = **Bauhinia pottsii** G. Don var. **velutina** (Wall. ex Benth.) K. Larsen & S.S. Larsen, *Bot. Tidsskr.* 74: 8. 1979.

### **Doubtful or poorly known names**

**Here we list *Phanera* names which are not validly published or whose application is uncertain.**

*Phanera cordifolia* Miq., *Fl. Ned. Ind.* 1(1): 66. 1855. = *Bauhinia cordifolia* Roxb. *Fl. Ind., ed. 2:* 332. 1824. Type unknown. According to Hou *et al.* (1996), these names apply to a taxon described from the Molucca Is. and the specific epithet alludes to leaf shape and venation. *Phanera cordifolia* Miq belongs to *P. finlaysoniana* but cannot be placed in one of the varieties with any certainty.

*Phanera dasycarpa* Miq., *Fl. Ind. Bat.* 1(1): 1078. 1858. The name refers to a single fruiting collection made by Teijsmann in Sumatra which De Wit (1956) referred (in synonymy) to *Bauhinia (Phanera) rahmattii*, a designation disputed by Hou *et al.* (1996), who were unable to place the collection definitively.

*Phanera maculata* A. Rich. ex Teijsm. & Binn., *Cat. Hort. Bog.:* 268. 1866 “Bourbon”. *nomen. nud.*

*Phanera ochroleuca* Miq., *Fl. Ned. Ind.* 1(1): 69. 1855. Refers to a *Blume s.n.* collection (not seen), a possible variant of *Phanera glauca* possessing leaves that are slightly hairier below and bearing more numerous secondary veins than typical *P. glauca*.

*Phanera parvifolia* Teijsm. & Binn., *Cat. Hort. Bog.:* 268. 1866. “China”. *nomen. nud.*

De Wit (1956) notes that this name is represented by sterile herbarium specimens (in BO) which probably belong to *Bauhinia corymbosa* Roxb.

*Phanera rosea* A. Rich. ex Teijsm. & Binn., *Cat. Hort. Bog.:* 268. 1866. “Madagascar”. *nomen. nud.*

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