

Endemic Seed Plant Species from Hainan Island: A Checklist

Javier Francisco-Ortega^{1,2} · Fa-Guo Wang^{3,12} · Zhong-Sheng Wang⁴ ·
Fu-Wu Xing⁴ · Hong Liu^{5,2} · Han Xu⁶ · Wei-Xiang Xu³ · Yi-Bo Luo⁷ ·
Xi-Qiang Song⁸ · Stephan Gale⁹ · David E. Boufford¹⁰ · Mike Maunder^{1,2,11} ·
Shu-Qing An^{4,12}

¹ Department of Biological Sciences, Florida International University, Miami, FL 33199, USA

² Center for Tropical Plant Conservation, Fairchild Tropical Botanic Garden, Coral Gables, Miami, FL 33156, USA

³ South China Botanical Garden, Chinese Academy of Sciences, Guangzhou 510650, People's Republic of China

⁴ Laboratory of Forest Ecology and Global Change, School of Life Science, Nanjing University, Nanjing 210093, People's Republic of China

⁵ Department of Earth and Environment, Florida International University, Miami, FL 33199, USA

⁶ Research Institute of Tropical Forestry, Chinese Academy of Forestry, Guangzhou 510520, People's Republic of China

⁷ Institute of Botany, Chinese Academy of Sciences, Xiangshan, Beijing 100093, People's Republic of China

⁸ Key Laboratory of Tropical Horticultural Plant Resources and Genetic Improvement, Hainan University, Haikou 570228, People's Republic of China

⁹ Kadoorie Farm and Botanic Garden, Lam Kam Road, Tai Po, New Territories, Hong Kong SAR, People's Republic of China

¹⁰ Harvard University Herbaria, 22 Divinity Avenue, Cambridge, MA 02138, USA

¹¹ Al Ain Wildlife Park and Resort, PO Box 1204, Al Ain, Abu Dhabi, United Arab Emirates

¹² Author for Correspondence; e-mail: wangfg@scib.ac.cn; anshq@nju.edu.cn

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Abstract Global conservation of plant biodiversity on tropical islands is a major priority, as approximately one third of all endangered plant species are insular endemics. Checklists can be an important first step in determining conservation priorities on islands. Hainan, the largest island in the Indo-Burma Biodiversity Hotspot, and therefore an international focus for conservation, has the most extensive and best preserved tropical forests in China. In this study we enumerate the endemic seed plants of Hainan Island. The checklist was prepared by consulting: (1) several bibliographic/taxonomic data base resources, (2) relevant taxonomic treatments and floras, and (3) plant taxonomists who are actively working with Chinese plants. The checklist also contains information concerning conservation status, the occurrence of Hainan endemics in four protected areas on the island, and available molecular phylogenies. An additional checklist of the species that were until recently thought to be endemic to Hainan, but are no longer considered to be, is also presented. In a separate paper in this issue of *Botanical Review* the patterns of endemism on Hainan Island are discussed.

Keywords Floristic Inventories · Tropical Islands · Asia · China · Plant Conservation · Plant Biodiversity · IUCN

Introduction

Plants on tropical and subtropical islands are not only speciation paradigms but are well known because many of them are on the verge of extinction (Whittaker & Fernández-Palacios, 2007). About one in six vascular plant species grows on oceanic islands, and one in three of all endangered plants is an insular endemic (World Conservation Monitoring Centre, 1992). One of the most extraordinary features of islands is that they harbor a high number of endemics within a very small area (Kruckeberg & Rabinowitz, 1985). It is, therefore, not surprising that 10 of the 34 biodiversity hotspots are islands (Mittermeier et al., 2004).

Despite their biological importance and conservation priority, there is an urgent need for floristic inventories of islands (Campbell & Hammond, 1989). Major insular systems from the tropics, such as the Caribbean Islands, Philippines, Madagascar, and Indonesia do not have recent comprehensive floras, or even checklists of their endemic species. We are aware that developing comprehensive floras for these islands can be a Herculean task requiring massive resources. However we argue, that by preparing checklists of insular endemics we are paving the way for more extensive floristic studies and practical conservation investments. Checklists can help in establishing conservation actions and priorities and provide a framework for additional floristic surveys and treatments. More importantly, checklists of endemics can be instrumental in increasing conservation awareness among those directly involved in the management of plant biodiversity on these islands and can provide educational and research tools for environmental biologists and educators.

In this study, we compiled a checklist of endemic seed plants from Hainan Island. In a separate paper in this issue of *Botanical Review* (Francisco-Ortega et al., [in press](#)) we discuss the patterns of endemism on Hainan. Hainan is the second largest island of China and represents the most important insular element in the Indo-Burma Biodiversity Hotspot. The island has the most extensive and best preserved tropical forests in China and therefore is a major priority for conservation (Deng et al., 2008; Zang & Ding, 2009).

We prepared an initial list of seed plants endemic to Hainan based on the checklist developed for the indigenous flora of the island by Wu et al. (1994) (see Francisco-Ortega et al. ([In press](#)) for a more extensive discussion of the history of floristic accounts for Hainan). Consequently we updated the initial list by using several bibliographic/taxonomic data base resources, including the *Catalogue of Life, China* (The Biodiversity Committee of the Chinese Academy of Sciences, 2008), the *Kew Bibliographic Database* (Royal Botanic Gardens – Kew, 2009), the *International Plant Name Index* (IPNI, 2009), the *ISI Web of Knowledge* (Thomson Reuters, 2009), the *World Checklist of Selected Plant Families* (World Checklist of Selected Plant Families, 2009), and the *International Legume Database & Information Service* (ILDIS, 2009). We also consulted relevant taxonomic treatments and available volumes of the *Flora of China*, including unpublished family drafts posted

on the Flora of China website (Flora of China, 2009). Additionally, we circulated early drafts of the final checklist among plant taxonomists who are actively working with Chinese plants (see acknowledgement section below). The resulting checklist of seed plants endemic to Hainan is presented in Appendix 1. The checklist also contains information concerning conservation status, the occurrence of Hainan endemics in four protected areas, and available molecular phylogenies. We found that many of the species regarded as endemic to Hainan by Wu et al. (1994) also occur on the mainland or have since then been merged with other, more widespread taxa. An additional checklist of the species that were until recently thought to be endemic to Hainan, but are no longer considered to be, and the reason for their exclusion, is presented in Appendix 2. Among those species previously thought to be endemic, 23 of them are reported to be in Vietnam, but not in mainland China.

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- Zhou, Z. & M. G. Gilbert.** 2003. Moraceae. Pp 21–73 In: Z. Y. Wu, P. H. Raven & D. Y. Hong (eds.), *Flora of China* Vol. 5 (Ulmaceae through Basellaceae). Science Press, Beijing, and Missouri Botanical Garden Press, St. Louis.

Appendix 1. List of Endemic Seed Plant Species Currently Recognized on Hainan Island

As a working taxonomy we have mostly followed the *Flora of China* series and the family classifications established by the Angiosperm Phylogeny Group (2003). We have assigned to each species the following descriptors:

Bas.: Date of publication of basionym.

Conserv. stat.: Conservation status of endemic species according to Fu and Jin (1992), Compilation Group of China's Biodiversity (1998), Yu (1999; List of National Protected Key Wild Plants (First Batch)), Wang & Xie (2004), IUCN (2009, abbreviated as IUCN), or CSIS (2009; abbreviated as CSIS). Conservation categories provided by CSIS and IUCN follow guidelines described by IUCN (2001).

Reserve: Presence of species in the nature reserves of Bawangling, Diaoluoshan, Jianfengling, and Yinggeling (Zeng et al., 1995; Kadoorie Farm and Botanic Garden, 2001; Jiang et al., 2006a; Bawangling National Nature Reserve, unpublished; Yinggeling Nature Reserve, unpublished).

Molec.: Species for which molecular phylogenies are available.

Notes: Additional relevant information, such as endemics restricted to limestone areas (Xing et al., 2004; Wang et al., 2006).

ACANTHACEAE

Cosmianthemum viriduliflorum (C. Y. Wu & H. S. Lo) H. S. Lo, *Guihaia* 17: 42, 1997. **Bas.:** 1974. **Reserve:** Diaoluoshan.

Peristrophe strigosa C. Y. Wu & H. S. Lo, *Fl. Hainan.* 3: 596, 1974. **Reserve:** Bawangling, Jianfengling.

Staurogyne hainanensis C. Y. Wu & H. S. Lo, *Fl. Hainan.* 3: 589, 1974. **Reserve:** Jianfengling, Yinggeling.

Staurogyne paotingensis C. Y. Wu & H. S. Lo, *Fl. Hainan.* 3: 589, 1974. **Reserve:** Diaoluoshan.

Staurogyne stenophylla Merr. & Chun, *Sunyatsenia* 2: 322, 1935. **Reserve:** Yinggeling.

Staurogyne strigosa C. Y. Wu & H. S. Lo, *Fl. Hainan.* 3: 590, 1974.

ANNONACEAE

Artabotrys hainanensis R. E. Fr., *Ark. Bot. Ser.* 2, 3: 41, 1955. **Reserve:** Bawangling, Jianfengling, Yinggeling.

- Artabotrys pilosus* Merr. & Chun, Sunyatsenia 2: 224, 1935. **Reserve:** Diaoluoshan, Yinggeling.
- Chieniodendron hainanense* (Merr.) Y. Tsiang & P. T. Li, Acta Phytotax. Sin. 9: 375, 1964. **Bas.:** 1925.
- Fissistigma tungfangense* Y. Tsiang & P. T. Li, Acta Phytotax. Sin. 9: 377, 1964. **Conserv. stat.:** CR (CSIS, IUCN). **Reserve:** Bawangling, Jianfengling.

APOCYNACEAE

- Cosmostigma hainanense* Y. Tsiang, Sunyatsenia 6: 156, 1941. **Conserv. stat.:** VU (CSIS, IUCN). **Reserve:** Diaoluoshan.
- Gymnema hainanense* Y. Tsiang, Acta Phytotax. Sin. 10: 37, 1965. **Reserve:** Jianfengling.
- Hoya baishaensis* S. Y. He & P. T. Li, Ann. Bot. Fenn. 46: 155, 2009.
- Hoya bawanglingensis* S. Y. He & P. T. Li, Novon 19: 357, 2009. **Conserv. stat.:** VU (He et al., 2009a). **Reserve:** Bawangling (He et al., 2009a).
- Hoya persicinicoronaria* S. Y. He & P. T. Li, Novon 19: 475, 2009. **Conserv. stat.:** VU (He et al., 2009b). **Reserve:** Bawangling (He et al., 2009b).
- Hoya dasyantha* Y. Tsiang, Sunyatsenia 3: 174, 1936. **Reserve:** Diaoluoshan.
- Hoya lasiogynostegia* P. T. Li, Bull. Bot. Res., Harbin 4(1): 118, 1984.
- Hoya liangii* Y. Tsiang, Sunyatsenia 3: 177, 1936. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.
- Kopsia hainanensis* Y. Tsiang, Sunyatsenia 2: 111, 1934. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.
- Pentastelma auritum* Y. Tsiang & P. T. Li, Fl. Hainan. 3: 577, 1974. **Conserv. stat.:** CR (CSIS, IUCN). **Reserve:** Diaoluoshan.
- Rauvolfia tiaolushanensis* Y. Tsiang, Sci. Rep. Kwangtung Coll. Forest 1: 10, 1962. **Reserve:** Diaoluoshan.
- Toxocarpus hainanensis* Y. Tsiang, Sunyatsenia 4: 69, 1939. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.
- Toxocarpus laevigatus* Y. Tsiang, Sunyatsenia 4: 70, 1939.
- Toxocarpus patens* Y. Tsiang, Sunyatsenia 6: 128, 1941. **Reserve:** Jianfengling.
- Tylophora picta* Y. Tsiang, Sunyatsenia 3: 218, 1936. **Reserve:** Diaoluoshan.
- Tylophora uncinata* M. G. Gilbert & P. T. Li, Novon 5: 16, 1995.

AQUIFOLIACEAE

- Ilex angulata* Merr. & Chun, Sunyatsenia 2: 266, 1935. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.
- Ilex dolichopoda* Merr. & Chun, Sunyatsenia 5: 107, 1940. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.
- Ilex huiana* S. J. Chen & Y. X. Feng, Acta Phytotax. Sin. 37: 143, 1999. **Notes:** The name *Ilex huiana* C. J. Tseng, Bull. Bot. Res., Harbin 1(1–2): 9 was invalidly published in 1981.
- Ilex liangii* S. Y. Hu, J. Arnold Arbor. 31: 246, 1950. **Reserve:** Diaoluoshan.
- Ilex nuculicava* S. Y. Hu, J. Arnold Arbor. 30: 385, 1949. **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.

Ilex shimeica K. F. Kwok, Acta Phytotax. Sin. 8: 357, 1963. **Conserv. stat.:** EN (CSIS, IUCN). **Reserve:** Diaoluoshan.

ARACEAE

Arisaema hainanense C. Y. Wu ex H. Li, Y. Shiao & S. L. Tseng, Acta Phytotax. Sin. 15(2): 107, 1977. **Conserv. stat.:** Endangered or Rare Species of Chinese Angiosperms (Compilation Group of China's Biodiversity, 1998). **Reserve:** Bawangling, Diaoluoshan, Jianfengling. **Molec.:** Renner et al. (2004).

Homalomena hainanensis H. Li, Acta Phytotax. Sin. 15(2): 103, 1977. **Conserv. stat.:** VU (CSIS). **Reserve:** Diaoluoshan.

Schismatoglottis hainanensis H. Li, Acta Phytotax. Sin. 15(2): 103, 1977. **Conserv. stat.:** CR (CSIS); Endangered or Rare Species of Chinese Angiosperms (Compilation Group of China's Biodiversity, 1998).

ARALIACEAE

Dendropanax oligodontus Merr. & Chun, Sunyatsenia 5: 151, 1940. **Conserv. stat.:** CR (CSIS, IUCN). **Reserve:** Yinggeling.

Heteropanax hainanensis C. B. Shang, Adansonia Sér. 3, 19: 80, 1997.

Macropanax decandrus G. Hoo, Acta Phytotax. Sin. Addit. 1: 164, 1965. **Conserv. stat.:** VU (CSIS). **Reserve:** Bawangling, Diaoluoshan, Yinggeling.

ARECACEAE

Calamus egregius Burret, Notizbl. Bot. Gart. Berlin 13: 599, 1937. **Conserv. stat.:** VU (CSIS, IUCN). **Reserve:** Bawangling, Jianfengling, Yinggeling.

Calamus multispicatus Burret, Notizbl. Bot. Gart. Berlin 13: 592, 1937. **Reserve:** Diaoluoshan, Yinggeling.

Calamus simplicifolius C. F. Wei, Guihaia 6: 36, 1986. **Reserve:** Bawangling, Jianfengling.

Calamus tetradactyloides Burret, Notizbl. Bot. Gart. Berlin 13: 596, 1937. **Reserve:** Bawangling, Jianfengling, Yinggeling.

Chuniophoenix hainanensis Burret, Notizbl. Bot. Gart. Berlin 13: 583, 1937. **Conserv. stat.:** EN (CSIS, IUCN); Endangered (Fu & Jin, 1992); Endangered or Rare Species of Chinese Angiosperms with Species Priority Category (Compilation Group of China's Biodiversity, 1998). **Reserve:** Diaoluoshan, Jianfengling, Yinggeling.

Chuniophoenix humilis C. Z. Tang & T. L. Wu, Acta Phytotax. Sin. 15(2): 111, 1977. **Conserv. stat.:** Endangered or Rare Species of Chinese Angiosperms with Species Priority Category (Compilation Group of China's Biodiversity, 1998). **Reserve:** Yinggeling.

Licuala hainanensis A. J. Hend., L. X. Guo & Barfod, Syst. Bot. 32: 718, 2007.

ARISTOLOCHIACEAE

- Aristolochia fulvicoma* Merr. & Chun, Sunyatsenia 5: 48, 1940. **Conserv. stat.:** VU (CSIS). **Reserve:** Diaoluoshan.
- Aristolochia howii* Merr. & Chun, Sunyatsenia 5: 46, 1940. **Reserve:** Diaoluoshan.
- Aristolochia polymorpha* S. M. Hwang, Acta Phytotax. Sin. 19: 222, 1981. **Notes:** Limestone species.
- Thottea hainanensis* (Merr. & Chun) D. Hou, Blumea 27: 321, 1981. **Bas.:** 1935. **Conserv. stat.:** VU (CSIS); Endangered or Rare Species of Chinese Angiosperms (Compilation Group of China's Biodiversity, 1998). **Reserve:** Diaoluoshan.

ASPARAGACEAE

- Disporum hainanense* Merr., Philipp. J. Sci. 21: 338, 1922.

ASTERACEAE

- Calotis caespitosa* C. C. Chang, Sunyatsenia 3: 280, 1937. **Reserve:** Jianfengling.
- Sinosenecio hainanensis* (C. C. Chang & Y. C. Tseng) C. Jeffrey & Y. L. Chen, Kew Bull. 39: 238, 1984. **Bas.:** 1974. **Conserv. stat.:** VU (CSIS); Endangered or Rare Species of Chinese Angiosperms (Compilation Group of China's Biodiversity, 1998). **Reserve:** Bawangling.
- Strobocalyx chunii* (C. C. Chang) H. Rob., S. C. Keeley, Skvarla & R. Chan, Proc. Biol. Soc. Washington 121: 31, 2008. **Bas.:** 1937. **Reserve:** Jianfengling.

BALANOPHORACEAE

- Balanophora saxicola* F. W. Xing & Z. X. Li, Acta Bot. Austro Sin. 10: 17, 1995. **Reserve:** Diaoluoshan. **Notes:** Limestone species.

BALSAMINACEAE

- Impatiens hainanensis* Y. L. Chen, Guihaia 7: 9, 1987. **Reserve:** Bawangling, Jianfengling. **Notes:** Limestone species.

BEGONIACEAE

- Begonia hainanensis* Chun & F. Chun, Sunyatsenia 4: 20, 1939. **Conserv. stat.:** EN (IUCN); Endangered or Rare Species of Chinese Angiosperms (Compilation Group of China's Biodiversity, 1998). **Reserve:** Diaoluoshan.
- Begonia howii* Merr. & Chun, Sunyatsenia 5: 138, 1940. **Reserve:** Diaoluoshan.

Begonia peltatifolia H. L. Li, J. Arnold Arbor. 25: 209, 1944. **Conserv. stat.:** EN (IUCN); Endangered or Rare Species of Chinese Angiosperms (Compilation Group of China's Biodiversity, 1998).

Begonia sublongipes Y. M. Shui, Acta Bot. Yunnan. 26: 484, 2004.

BORAGINACEAE

Ehretia changjiangensis F. W. Xing & Z. X. Li, Acta Phytotax. Sin. 31: 472, 1993.

Notes: Limestone species.

Ehretia hainanensis I. M. Johnst., J. Arnold Arbor. 32: 108, 1951.

BUXACEAE

Buxus hainanensis Merr., Lingnan Sci. J. 14: 25, 1935. **Conserv. stat.:** EN (CSIS).

Reserve: Diaoluoshan.

Buxus pubiramea Merr. & Chun, Sunyatsenia 5: 104, 1940. **Conserv. stat.:** CR (CSIS). **Reserve:** Diaoluoshan.

CAMPANULACEAE

Lobelia hainanensis E. Wimm., Ann. Naturhist. Mus. Wien 56: 348, 1948.

CAPPARACEAE

Capparis dasyphylla Merr. & F. P. Metcalf, Lingnan Sci. J. 16: 192, 1937. **Reserve:** Bawangling, Jianfengling, Yinggeling.

Capparis hainanensis Oliv., Hooker's. Icon. Pl. 16: 1588, 1887.

CAPRIFOLIACEAE

Lonicera calvescens (Chun & F. C. How) P. S. Hsu & H. J. Wang, Acta Phytotax. Sin. 17(4): 81, 1979. **Bas.:** 1958. **Reserve:** Jianfengling.

CELASTRACEAE

Euonymus hainanensis Chun & F. C. How, Acta Phytotax. Sin. 7: 47, 1958. **Conserv. stat.:** VU (CSIS). **Reserve:** Diaoluoshan, Yinggeling.

Euonymus potingensis Chun & F. C. How ex J. S. Ma, Harvard Pap. Bot. 10: 94, 1997.

Glyptopetalum fengii (Chun & F. C. How) Ding Hou, Fl. Males. Ser. 1 Spermat. 6: 256, 1963. **Bas.:** 1958. **Reserve:** Jianfengling.

Gymnosporia tiaoloshanensis Chun & F. C. How, Acta Phytotax. Sin. 7: 52, 1958. **Reserve:** Diaoluoshan.

Maytenus dongfangensis F. W. Xing & X. S. Qin, Bot. J. Linn. Soc. 158: 534, 2008. **Notes:** Limestone species.

Maytenus hainanensis (Merr. & Chun) C. Y. Cheng, Fl. Reipubl. Popularis Sin. 45 (3): 146, 1999. **Bas.:** 1935.

- Microtropis obscurinervia* Merr. & F. L. Freeman, Proc. Amer. Acad. Arts 73: 283, 1940. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.
Salacia amplifolia Chun & F. C. How, Acta Phytotax. Sin. 7: 55, 1958.
Salacia confertiflora Merr., Lingnan Sci. J. 14: 27, 1935.
Salacia hainanensis Chun & F. C. How, Acta Phytotax. Sin. 7: 56, 1958.

CONNARACEAE

- Ellipanthus glabrifolius* Merr., Philipp. J. Sci. 23: 246, 1923. **Conserv. stat.:** VU (CSIS). **Reserve:** Bawangling, Jianfengling, Diaoluoshan, Yinggeling.

CONVOLVULACEAE

- Erycibe oligantha* Merr. & Chun, Sunyatsenia 5: 175, 1940. **Reserve:** Bawangling, Jianfengling, Diaoluoshan, Yinggeling.

CYCADACEAE

- Cycas changjiangensis* N. Liu, Acta Phytotax. Sin. 36: 552, 1998. **Conserv. stat.:** CR (CSIS), EN (IUCN); National Protected Key Wild Plant (First Batch). **Notes:** Limestone species.
Cycas hainanensis C. J. Chen, Acta Phytotax. Sin. 13(4): 82, 1975. **Conserv. stat.:** CR (CSIS), EN (IUCN); National Protected Key Wild Plant (First Batch).
Reserve: Bawangling, Diaoluoshan, Jianfengling, Yinggeling.
Cycas shanyagensis G. A. Fu, Bull. Bot. Res., Harbin 26: 2, 2006. **Conserv. stat.:** National Protected Key Wild Plant (First Batch).

CYPERACEAE

- Carex planiscapa* Chun & F. C. How, Acta Phytotax. Sin. 7: 82, 1958. **Reserve:** Diaoluoshan.
Carex tsoi Merr. & Chun, Sunyatsenia 2: 207, 1935. **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.
Carex tungfangensis L. K. Dai & S. M. Huang, Fl. Hainan. 4: 536, 1977. **Reserve:** Jianfengling.
Fimbristylis chingmaiensis S. M. Huang, Fl. Hainan. 4: 536, 1977.
Fimbristylis longistipitata T. Tang & F. T. Wang, Fl. Reipubl. Popularis Sin. 11: 108, 229, 1961. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.
Hypolytrum ohwianum T. Koyama, Jap. J. Bot. 15: 183, 1956.
Hypolytrum paucistrobiferum T. Tang & F. T. Wang, Fl. Reipubl. Popularis Sin. 11: 200, 234, 1961. **Reserve:** Diaoluoshan.
Lipocarpha bawangensis R. H. Miao, Acta Sci. Nat. Univ. Sunyatseni 30(2): 86, 1991. **Reserve:** Bawangling.
Machaerina myriantha (Chun & F. C. How) Y. C. Tang, Fl. Hainan. 4: 537, 1977. **Bas.:** 1958. **Reserve:** Diaoluoshan.
Mariscus hainanensis Chun & F. C. How, Acta Phytotax. Sin. 7: 87, 1958. **Reserve:** Jianfengling.

- Mariscus monospermus* S. M. Huang, Fl. Hainan. 4: 537, 1977.
Scirpus chunianus T. Tang & F. T. Wang, Fl. Reipubl. Popularis Sin. 11: 13, 221, 1961. **Reserve:** Diaoluoshan.
Scirpus pseudoarticulatus L. K. Dai & S. M. Huang, Fl. Hainan. 4: 538, 1977.
Reserve: Jianfengling.

DIOSCOREACEAE

- Dioscorea changjiangensis* F. W. Xing & Z. X. Li, Acta Bot. Austro Sin. 10: 19, 1995. **Notes:** Limestone species.

EBENACEAE

- Diospyros chunii* F. P. Metcalf & L. Chen, Lingnan Sci. J. 14: 618, 1935.
Diospyros corallina Chun & L. Chen, Sunyatsenia 3: 120, 1936. **Conserv. stat.:** CR (CSIS); Endangered or Rare Species of Chinese Angiosperms (Compilation Group of China's Biodiversity, 1998).
Diospyros hainanensis Merr., Philipp. J. Sci. 23: 258, 1923. **Reserve:** Diaoluoshan, Yinggeling.
Diospyros howii Merr. & Chun, Sunyatsenia 2: 299, 1935. **Reserve:** Diaoluoshan.
Diospyros inflata Merr. & Chun, Sunyatsenia 5: 163, 1940. **Conserv. stat.:** EN (CSIS). **Reserve:** Jianfengling, Yinggeling.
Diospyros maclurei Merr., Philipp. J. Sci. 23: 259, 1923. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.
Diospyros oliviformis R. H. Miao, Acta Sci. Nat. Univ. Sunyatseni 32(4): 65, 1993.
Diospyros strigosa Hemsl., Bull. Misc. Inform. Kew 1910: 193, 1910. **Reserve:** Jianfengling, Yinggeling.

ELAEocarpaceae

- Sloanea hainanensis* Merr. & Chun, Sunyatsenia 5: 123, 1940. **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.

ERICACEAE

- Vaccinium hainanense* Sleumer, Bot. Jahrb. Syst. 71: 469, 1941. **Reserve:** Diaoluoshan.

ERIOCAULACEAE

- Eriocaulon kaikoense* Masam., Trans. Nat. Hist. Soc. Taiwan 33: 25, 1943.
Eriocaulon kainantense Masam., Trans. Nat. Hist. Soc. Taiwan 33: 13, 1943.
Eriocaulon odashimai Masam., Trans. Nat. Hist. Soc. Taiwan 33: 26, 1943.
Eriocaulon sclerophyllum W. L. Ma, Acta Phytotax. Sin. 29: 306, 1991.

EUPHORBIACEAE

- Acalypha chuniana* H. G. Ye, Y. S. Ye, X. S. Qin & F. W. Xing, Ann. Bot. Fenn. 43: 148, 2006. **Notes:** Limestone species.

- Acalypha hainanensis* Merr. & Chun, Sunyatsenia 5: 91, 1940. **Conserv. stat.:** VU (CSIS). **Notes:** Limestone species.
- Croton chunianus* Croizat, J. Arnold Arbor. 21: 497, 1940. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.
- Croton howii* Y. T. Chang, Acta Phytotax. Sin. 27: 147, 1989. **Reserve:** Diaoluoshan.
- Croton laevigatus* Vahl, Symb. Bot. 2: 97, 1791. **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.
- Croton laui* Merr. & F. P. Metcalf, Lingnan Sci. J. 16: 389, 1937. **Conserv. stat.:** VU (CSIS); Vulnerable (Fu & Jin, 1992); Endangered or Rare Species of Chinese Angiosperms (Compilation Group of China's Biodiversity, 1998). **Reserve:** Bawangling, Jianfengling, Yinggeling.
- Drypetes longistipitata* P. T. Li, J. South China Agric. Univ. 21(4): 59, 2000.
- Euphorbia hainanensis* Croizat, J. Arnold Arbor. 21: 505, 1940.
- Leptopus hainanensis* (Merr. & Chun) Pojark., Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk S.S.S.R. 20: 271, 1960. **Bas.:** 1940. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.
- Mallotus anomalus* Merr. & Chun, Sunyatsenia 5: 99, 1940. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.
- Phyllanthus hainanensis* Merr., Lingnan Sci. J. 14: 20, 1935. **Reserve:** Bawangling, Jianfengling. **Molec.:** Lee et al. (2006).
- Phyllanthus nanellus* P. T. Li, Acta Phytotax. Sin. 25: 376, 1987.
- Phyllanthus rheophyticus* M. G. Gilbert & P. T. Li, Fl. China 11: 188, 2008.
- Trigonostemon xyphophylloides* (Croizat) L. K. Dai & T. L. Wu, Acta Phytotax. Sin. 8: 278, 1963. **Bas.:** 1940. **Reserve:** Diaoluoshan.

FABACEAE

- Christia hainanensis* Y. C. Yang & P. H. Huang, Bull. Bot. Lab. N. E. Forest. Inst., Harbin 8: 5, 1980.
- Crotalaria hainanensis* C. C. Huang, Acta Phytotax. Sin. 6: 395, 1957. **Reserve:** Bawangling, Jianfengling.
- Crotalaria jianfengensis* C. Y. Yang, Acta Phytotax. Sin. 20: 478, 1982. **Conserv. stat.:** CR (CSIS). **Reserve:** Jianfengling.
- Crotalaria yaihsienensis* T. C. Chen, Acta Phytotax. Sin. 8: 349, 1963.
- Dalbergia hainanensis* Merr. & Chun, Sunyatsenia 2: 32, 1934. **Conserv. stat.:** VU (CSIS). **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.
- Dalbergia peishaensis* Chun & T. C. Chen, Acta Phytotax. Sin. 7: 24, 1958. **Reserve:** Yinggeling.
- Dalbergia tsoi* Merr. & Chun, Sunyatsenia 2: 244, 1935. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.
- Derris breviramosa* F. C. How, Acta Phytotax. Sin. 3: 219, 1954. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.
- Indigofera litoralis* Chun & T. C. Chen, Acta Phytotax. Sin. 7: 27, 1958. **Reserve:** Bawangling, Jianfengling.
- Paraderris hainanensis* (Hayata) Adema, Blumea 48: 138, 2003. **Bas.:** 1913.

Sophora praetorulosa Chun & T. C. Chen ex P. T. Li, J. South China Agric. Univ. 21(4): 59, 2000. **Reserve:** Jianfengling. **Notes:** *Sophora praetorulosa* Chun & T. C. Chen, Acta Phytotax. Sin. 7: 28 was invalidly published for this species in 1958.

FAGACEAE

Castanopsis hainanensis Merr., Philipp. J. Sci. 21: 340, 1922. **Conserv. stat.:** VU (CSIS). **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.

Castanopsis hairocarpa G. A. Fu, Guihaia 21: 96, 2001.

Castanopsis jianfenglingensis S. Duanmu, Sci. Silvae Sin. 8(2): 187, 1963. **Conserv. stat.:** VU (CSIS). **Reserve:** Jianfengling.

Castanopsis ledongensis C. C. Huang & Y. T. Chang, Guihaia 16: 301, 1996. **Conserv. stat.:** VU (CSIS). **Notes:** The name *Castanopsis ledongensis* C. C. Huang & Y. T. Chang, Guihaia 10: 5 was published in 1990; however, the species description did not have a holotype.

Castanopsis oleifera G. A. Fu, Guihaia 21: 97, 2001.

Castanopsis qingbeiensis G. A. Fu, Guihaia 21: 96, 2001.

Castanopsis wenchangensis G. A. Fu & C. C. Huang, Acta Phytotax. Sin. 27: 151, 1989.

Castanopsis wuzhishangensis G. A. Fu, Guihaia 21: 95, 2001.

Cyclobalanopsis albicaulis (Chun & W. C. Ko) Y. C. Hsu & H. W. Jen, J. Beijing Forest. Univ. 15(4): 45, 1993. **Bas.:** 1958. **Conserv. stat.:** CR (CSIS); Endangered or Rare Species of Chinese Angiosperms (Compilation Group of China's Biodiversity, 1998).

Cyclobalanopsis changhuaglingensis G. A. Fu & X. J. Hong, Guihaia 27: 29, 2007.

Cyclobalanopsis dongfangensis (C. C. Huang, F. W. Xing & Z. X. Li) Y. Y. Luo & R. J. Wang, J. Trop. Subtrop. Bot. 15: 261, 2007. **Bas.:** 1996.

Cyclobalanopsis fuliginosa (Chun & W. C. Ko) Y. Y. Luo & R. J. Wang, J. Trop. Subtrop. Bot. 15: 261, 2007. **Bas.:** 1958. **Reserve:** Bawangling, Jianfengling.

Cyclobalanopsis litoralis Y. C. Hsu & H. W. Jen, Acta Bot. Yunnan. 1(1): 147, 1979. **Conserv. stat.:** VU (CSIS). **Reserve:** Bawangling, Jianfengling.

Cyclobalanopsis subhinoidea (Chun & W. C. Ko) Y. T. Chang, Acta Phytotax. Sin. 34: 339, 1996. **Bas.:** 1958. **Conserv. stat.:** CR (CSIS).

Cyclobalanopsis tiaoloshanica (Chun & W. C. Ko) Y. C. Hsu & H. W. Jen, Acta Bot. Yunnan. 1(1): 148, 1979. **Bas.:** 1958. **Conserv. stat.:** VU (CSIS). **Reserve:** Bawangling, Diaoluoshan, Jianfengling.

Cyclobalanopsis yin-qianii G. A. Fu, Bull. Bot. Res., Harbin 27: 1, 2007.

Lithocarpus chiungchungensis Chun & P. C. Tam, Acta Phytotax. Sin. 10: 207, 1965. **Conserv. stat.:** EN (CSIS). **Reserve:** Yinggeling.

Lithocarpus elmerrillii Chun, J. Arnold Arbor. 28: 232, 1947. **Conserv. stat.:** EN (CSIS). **Reserve:** Bawangling, Diaoluoshan, Jianfengling.

Lithocarpus fenzelianus A. Camus, Bull. Mus. Natl. Hist. Nat. Sér. 2, 4: 912, 1932. **Conserv. stat.:** VU (CSIS). **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.

Lithocarpus handelianus A. Camus, Bull. Mus. Natl. Hist. Nat. Sér. 2, 6: 93, 1934. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.

- Lithocarpus naiadarum* (Hance) Chun, J. Arnold Arbor. 9: 152, 1928. **Bas.:** 1884. **Reserve:** Bawangling, Jianfengling.
- Lithocarpus obovatilimbus* Chun, J. Arnold Arbor. 28: 236, 1947. **Reserve:** Diaoluoshan.
- Quercus bawanglingensis* C. C. Huang, Z. X. Li & F. W. Xing, Guihaia 16: 302, 1996. **Conserv. stat.:** VU (CSIS). **Reserve:** Bawangling. **Notes:** The name *Quercus bawanglingensis* C. C. Huang, Z. X. Li & F. W. Xing, Guihaia 10: 10 was published in 1990; however, the species description did not have a holotype. **Notes:** Limestone species.

GESNERIACEAE

- Cathyanthe biflora* Chun, Sunyatsenia 6: 283, 1946. **Conserv. stat.:** EN (CSIS). **Reserve:** Diaoluoshan.
- Chirita heterotricha* Merr., Lingnan Sci. J. 13: 71, 1934. **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling. **Molec.:** Li & Wang (2007).
- Metapetrocosmea peltata* (Merr. & Chun) W. T. Wang, Bull. Bot. Res., Harbin 1(4): 39, 1981. **Bas.:** 1935. **Conserv. stat.:** Endangered or Rare Species of Chinese Angiosperms (Compilation Group of China's Biodiversity, 1998). **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.
- Oreocharis dasyantha* Chun, Sunyatsenia 6: 287, 1946. **Reserve:** Yinggeling.
- Oreocharis flavida* Merr., Philipp. J. Sci. 21: 354, 1922. **Conserv. stat.:** VU (CSIS). **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.
- Paraboea changjiangensis* F. W. Xing & Z. X. Li, Acta Bot. Yunnan. 15: 121, 1993. **Notes:** Limestone species.
- Paraboea hainanensis* (Chun) B. L. Burtt, Notes Roy. Bot. Gard. Edinburgh 41: 429, 1984. **Bas.:** 1974. **Reserve:** Jianfengling.

HAMAMELIDACEAE

- Chunia bucklandioides* H. T. Chang, Sunyatsenia 7: 63, 1948. **Conserv. stat.:** EN (CSIS), VU (IUCN); Rare (Fu & Jin, 1992); National Protected Key Wild Plant (First Batch); Endangered or Rare Species of Chinese Angiosperms (Compilation Group of China's Biodiversity, 1998). **Reserve:** Bawangling, Diaoluoshan, Jianfengling.
- Distyliopsis salicifolia* (E. Walker) P. K. Endress, Bot. Jahrb. Syst. 90: 30, 1970. **Bas.:** 1944. **Conserv. stat.:** VU (CSIS). **Reserve:** Diaoluoshan.

HYDRANGEACEAE

- Dichroa mollissima* Merr., Philipp. J. Sci. 23: 245, 1923.

ICACINACEAE

- Nothapodytes obtusifolia* (Merr.) R. A. Howard, J. Arnold Arbor. 23: 70, 1942. **Bas.:** 1935. **Conserv. stat.:** CR (CSIS). **Reserve:** Jianfengling, Yinggeling.
- Platea parvifolia* Merr. & Chun, Sunyatsenia 5: 112, 1940. **Conserv. stat.:** EN (CSIS). **Reserve:** Jianfengling, Yinggeling.

JUGLANDACEAE

Engelhardia hainanensis P. Y. Chen, Acta Phytotax. Sin. 19: 251, 1981. **Reserve:** Jianfengling, Yinggeling.

LAMIACEAE

Callicarpa basitruncata Merr., Phytologia 3: 406, 1951.

Callicarpa erythrosticta Merr. & Chun, Sunyatsenia 5: 178, 1940. **Reserve:** Diaoluoshan.

Gomphostemma hainanense C. Y. Wu, Acta Phytotax. Sin. 10: 145, 1965. **Reserve:** Diaoluoshan, Yinggeling.

Premna hainanensis Chun & F. C. How, Acta Phytotax. Sin. 7: 77, 1958. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.

Scutellaria hainanensis C. Y. Wu, Fl. Hainan. 4: 532, 1977. **Reserve:** Jianfengling.

Wenchengia alternifolia C. Y. Wu & S. Chow, Acta Phytotax. Sin. 10: 251, 1965.

Conserv. stat.: EN (CSIS); Endangered or Rare Species of Chinese Angiosperms (Compilation Group of China's Biodiversity, 1998). **Reserve:** Diaoluoshan.

LARDIZABALACEAE

Stauntonia oligophylla Merr. & Chun, Sunyatsenia 5: 54, 1940. **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.

LAURACEAE

Actinodaphne glaucina C. K. Allen, Ann. Missouri Bot. Gard. 25: 410, 1938.

Conserv. stat.: EN (CSIS). **Reserve:** Bawangling, Diaoluoshan, Jianfengling.

Actinodaphne paotingensis Y. C. Yang & P. H. Huang, Acta Phytotax. Sin. 16(4): 63, 1978. **Reserve:** Diaoluoshan. **Molec.:** Li et al. (2006).

Alseodaphne rugosa Merr. & Chun, Sunyatsenia 2: 232, 1935. **Conserv. stat.:** EN (CSIS, IUCN); Endangered or Rare Species of Chinese Angiosperms (Compilation Group of China's Biodiversity, 1998). **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.

Beilschmiedia appendiculata (C. K. Allen) S. K. Lee & Y. T. Wei, Acta Phytotax. Sin. 17(2): 65, 1979. **Bas.:** 1942. **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.

Beilschmiedia baotingensis S. K. Lee & Y. T. Wei, Acta Phytotax. Sin. 17(2): 64, 1979. **Reserve:** Diaoluoshan.

Beilschmiedia brevifolia Y. T. Wei, Guihaia 4: 196, 1984.

Beilschmiedia longepetiolata C. K. Allen, J. Arnold Arbor. 23: 450, 1942. **Reserve:** Diaoluoshan.

Beilschmiedia macropoda C. K. Allen, J. Arnold Arbor. 23: 452, 1942. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.

Beilschmiedia obconica C. K. Allen, J. Arnold Arbor. 23: 453, 1942.

Beilschmiedia tungfangensis S. K. Lee & L. F. Lau, Acta Phytotax. Sin. 8: 194, 1963. **Conserv. stat.:** VU (CSIS). **Reserve:** Bawangling, Jianfengling.

- Cryptocarya impressinervia* H. W. Li, Acta Phytotax. Sin. 17(2): 70, 1979. **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling. **Notes:** The name *C. obtusifolia* Merr., Philipp. J. Sci. 21: 344, published for this species in 1922 is a later homonym of *C. obtusifolia* Meisn. in DC., Prodr. 15(1): 508, 1864.
- Cryptocarya leiana* C. K. Allen, J. Arnold Arbor. 23: 456, 1942.
- Cryptocarya metcalfiana* C. K. Allen, J. Arnold Arbor. 23: 457, 1942. **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.
- Cryptocarya tsangii* Nakai, J. Jap. Bot. 16: 121, 1940.
- Dehaasia hainanensis* Kosterm., Bot. Jahrb. Syst. 93: 439, 1973. **Reserve:** Bawangling, Jianfengling, Yinggeling. **Molec.:** Chen et al. (2009).
- Endiandra hainanensis* Merr. & F. P. Metcalf, J. Arnold Arbor. 23: 461, 1942. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.
- Litsea litseifolia* (C. K. Allen) Y. C. Yang & P. H. Huang, Acta Phytotax. Sin. 16(4): 57, 1978. **Bas.:** 1938. **Conserv. stat.:** EN (CSIS). **Reserve:** Diaoluoshan.
- Lindera robusta* (C. K. Allen) H. P. Tsui, Acta Phytotax. Sin. 16(4): 64, 1978. **Bas.:** 1941. **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.
- Litsea verticillifolia* Y. C. Yang & P. H. Huang, Acta Phytotax. Sin. 16(4): 48, 1978. **Conserv. stat.:** EN (CSIS).
- Machilus monticola* S. K. Lee, Acta Phytotax. Sin. 8: 185, 1963. **Conserv. stat.:** Endangered or Rare Species of Chinese Angiosperms (Compilation Group of China's Biodiversity, 1998). **Reserve:** Diaoluoshan, Jianfengling, Yinggeling. **Molec.:** Chen et al. (2009).
- Machilus pomifera* (Kosterin.) S. K. Lee, Acta Phytotax. Sin. 8: 186, 1963. **Bas.:** 1961. **Reserve:** Bawangling, Diaoluoshan, Jianfengling. **Molec.:** Chen et al. (2009).
- Neolitsea hainanensis* Y. C. Yang & P. H. Huang, Acta Phytotax. Sin. 16(4): 43, 1978. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.
- Neolitsea howii* C. K. Allen, Ann. Missouri Bot. Gard. 25: 424, 1937. **Conserv. stat.:** CR (CSIS). **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.
- Neolitsea obtusifolia* Merr., Lingnan Sci. J. 14: 6, 1935. **Conserv. stat.:** EN (CSIS). **Reserve:** Bawangling, Diaoluoshan, Jianfengling.
- Phoebe hainanensis* Merr., Philipp. J. Sci. 21: 343, 1922. **Reserve:** Jianfengling, Yinggeling.
- Syndiclis chinensis* C. K. Allen, J. Arnold Arbor. 23: 462, 1942. **Conserv. stat.:** EN (CSIS). **Reserve:** Diaoluoshan.
- Syndiclis lotungensis* S. K. Lee, Acta Phytotax. Sin. 8: 191, 1963. **Conserv. stat.:** CR (CSIS). **Reserve:** Bawangling, Jianfengling.

LOWIACEAE

- Orchidantha insularis* T. L. Wu, Acta Phytotax. Sin. 9: 340, 1964. **Conserv. stat.:** CR (CSIS). **Reserve:** Diaoluoshan.

MAGNOLIACEAE

- Lirianthe albosericea* (Chun & C. H. Tsoong) N. H. Xia & C. Y. Wu, Fl. China 7: 63, 2008. **Bas.:** 1964. **Conserv. stat.:** EN (CSIS). **Reserve:** Bawangling, Diaoluoshan, Jianfengling. **Molec.:** Shi et al. (2000); Kim et al. (2001).

- Magnolia bawangensis* Y. W. Law, R. Z. Zhou & D. M. Liu, *Nordic J. Bot.* 27: 4, 2009. **Conserv. stat.:** CR (Liu et al., 2009). **Reserve:** Bawangling (Liu et al., 2009).
Michelia shiluensis Chun & Y. F. Wu, *Acta Phytotax. Sin.* 8: 286, 1963. **Conserv. stat.:** EN (CSIS). **Reserve:** Diaoluoshan, Yinggeling. **Molec.:** Kim et al. (2001).

MALVACEAE

- Firmiana hainanensis* Kosterm., *Pengum. Balai Besar Penjel. Kehut. Indonesia* 54: 30, 1956. **Conserv. stat.:** VU (CSIS, IUCN); Endangered (Fu & Jin, 1992); National Protected Key Wild Plant (First Batch); Endangered or Rare Species of Chinese Angiosperms with Species Priority Category (Compilation Group of China's Biodiversity, 1998). **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.
Firmiana pulcherrima H. H. Hsue, *Acta Phytotax. Sin.* 8: 271, 1963. **Reserve:** Diaoluoshan, Jianfengling.
Grewia chuniana Burret, *Notizbl. Bot. Gart. Berlin* 13: 488, 1937.
Reevesia botingensis H. H. Hsue, *Acta Phytotax. Sin.* 8: 272, 1963. **Conserv. stat.:** CR (CSIS). **Reserve:** Diaoluoshan.
Reevesia lancifolia H. L. Li, *J. Arnold Arbor.* 25: 208, 1944. **Conserv. stat.:** CR (CSIS).
Reevesia longipetiolata Merr. & Chun, *Sunyatsenia* 2: 40, 1934. **Conserv. stat.:** VU (CSIS). **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.

MELASTOMATACEAE

- Medinilla arboricola* F. C. How, *Acta Phytotax. Sin.* 8: 345, 1963. **Conserv. stat.:** VU (CSIS). **Reserve:** Diaoluoshan, Yinggeling.
Melastoma dendrisetosum C. Chen, *J. South China. Agri. Coll.* 4(1): 35, 1983. **Reserve:** Bawangling, Jianfengling.
Phyllagathis hainanensis (Merr. & Chun) C. Chen, *Bull. Bot. Res., Harbin* 4(3): 42, 1984. **Bas.:** 1940. **Reserve:** Diaoluoshan, Yinggeling.
Phyllagathis melastomatoides (Merr. & Chun) W. C. Ko, *Acta Phytotax. Sin.* 8: 267, 1963. **Bas.:** 1935.
Phyllagathis stenophylla (Merr. & Chun) H. L. Li, *J. Arnold Arbor.* 25: 32, 1944. **Bas.:** 1940. **Reserve:** Bawangling, Jianfengling.
Scorpiothyrus erythrotrichus (Merr. & Chun) H. L. Li, *J. Arnold Arbor.* 25: 35, 1944. **Bas.:** 1940. **Conserv. stat.:** CR (CSIS). **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.
Scorpiothyrus xanthostictus (Merr. & Chun) H. L. Li, *J. Arnold Arbor.* 25: 34, 1944. **Bas.:** 1940. **Conserv. stat.:** VU (CSIS). **Reserve:** Diaoluoshan, Yinggeling.
Sonerila hainanensis Merr., *Philipp. J. Sci.* 23: 256, 1923. **Conserv. stat.:** EN (CSIS). **Reserve:** Yinggeling.

MELIACEAE

- Munronia yinggelingensis* R. J. Zhang, Y. S. Ye & F. W. Xing, *Nordic J. Bot.* 27: 376, 2009. **Conserv. stat.:** EN (Zhang et al., 2009). **Reserve:** Yinggeling (Zhang et al., 2009).

MENISPERMACEAE

- Arcangelisia gusanlung* H. S. Lo, Acta Phytotax. Sin. 18(1): 100, 1980. **Conserv. stat.:** VU (CSIS); Endangered or Rare Species of Chinese Angiosperms (Compilation Group of China's Biodiversity, 1998). **Reserve:** Yinggeling. **Molec.:** Wang et al. (2007).
- Stephania hainanensis* H. S. Lo & Y. Tsoong, Acta Phytotax. Sin. 16(1): 39, 1978. **Conserv. stat.:** EN (CSIS). **Reserve:** Bawangling. **Molec.:** Hong et al. (2001). **Notes:** Limestone species.
- Stephania succifera* H. S. Lo & Y. Tsoong, Acta Phytotax. Sin. 16(1): 36, 1978. **Conserv. stat.:** EN (CSIS). **Reserve:** Yinggeling. **Molec.:** Hong et al. (2001); Wang et al. (2007).
- Tinospora hainanensis* H. S. Lo & Z. X. Li, Guihaia 6: 51, 1986. **Conserv. stat.:** Endangered or Rare Species of Chinese Angiosperms with Species Priority Category (Compilation Group of China's Biodiversity, 1998).

MORACEAE

- Ficus dinganensis* S. S. Chang, Guihaia 3: 300, 1983.

MYRSINACEAE

- Ardisia baotingensis* C. M. Hu, Acta Bot. Austro Sin. 6: 27, 1990. **Reserve:** Diaoluoshan, Yinggeling.
- Ardisia densilepidotula* Merr., Lingnan Sci. J. 6: 284, 1928. **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.
- Ardisia ordinata* E. Walker, Philipp. J. Sci. 73: 137, 1940. **Conserv. stat.:** VU (CSIS). **Reserve:** Bawangling, Jianfengling, Yinggeling.
- Ardisia porifera* E. Walker, Philipp. J. Sci. 73: 70, 1940. **Conserv. stat.:** VU (CSIS). **Reserve:** Jianfengling.
- Ardisia retroflexa* E. Walker, Philipp. J. Sci. 73: 60, 1940. **Conserv. stat.:** VU (CSIS). **Reserve:** Yinggeling.
- Maesa confusa* (C. M. Hu) Pipoly & C. Chen, Novon 5: 357, 1995. **Bas.:** 1992. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.
- Maesa consanguinea* Merr., Philipp. J. Sci. 23: 258, 1923. **Reserve:** Jianfengling, Yinggeling.

MYRTACEAE

- Decaspermum albociliatum* Merr. & L. M. Perry, J. Arnold Arbor. 19: 202, 1938. **Conserv. stat.:** EN (CSIS). **Reserve:** Diaoluoshan.
- Decaspermum austro-hainanicum* Hung T. Chang & R. H. Miao, Acta Bot. Yunnan. 4: 24, 1982. **Conserv. stat.:** CR (CSIS).
- Decaspermum hainanense* (Merr.) Merr., Lingnan Sci. J. 14: 42, 1935. **Bas.:** 1923. **Conserv. stat.:** EN (CSIS). **Reserve:** Yinggeling.
- Decaspermum teretis* H. T. Chang & R. H. Miao ex Craven, Harvard Pap. Bot. 11: 27, 2006. **Conserv. stat.:** EN (CSIS). **Reserve:** Bawangling, Jianfengling. **Notes:**

- The name *Pyrenocarpa teretis* H. T. Chang & R. H. Miao, Acta Sci. Nat. Univ. Sunyatseni 1975: 64 was invalidly published for this species in 1975.
- Syzygium buxifolioideum* Hung T. Chang & R. H. Miao, Acta Bot. Yunnan. 4: 20, 1982. **Conserv. stat.:** CR (CSIS). **Reserve:** Diaoluoshan.
- Syzygium conspersipunctatum* (Merr. & L. M. Perry) Craven & Biffin, Blumea 51: 136, 2006. **Bas.:** 1937. **Conserv. stat.:** EN (CSIS). **Reserve:** Bawangling, Jianfengling, Yinggeling.
- Syzygium hainanense* Hung T. Chang & R. H. Miao, Acta Bot. Yunnan. 4: 20, 1982. **Conserv. stat.:** CR (CSIS). **Reserve:** Yinggeling.
- Syzygium howii* Merr. & L. M. Perry, J. Arnold Arbor. 19: 243, 1938. **Conserv. stat.:** CR (CSIS). **Reserve:** Bawangling, Jianfengling.
- Syzygium infra-rubiginosum* Hung T. Chang & R. H. Miao, Acta Bot. Yunnan. 4: 23, 1982. **Conserv. stat.:** CR (CSIS). **Reserve:** Bawangling, Jianfengling.
- Syzygium jienfunicum* Hung T. Chang & R. H. Miao, Acta Bot. Yunnan. 4: 19, 1982. **Conserv. stat.:** CR (CSIS). **Reserve:** Jianfengling.
- Syzygium rysopodum* Merr. & L. M. Perry, J. Arnold Arbor. 19: 221, 1938. **Conserv. stat.:** EN (CSIS). **Reserve:** Bawangling, Diaoluoshan, Jianfengling.
- Syzygium stenocladum* Merr. & L. M. Perry, J. Arnold Arbor. 19: 220, 1938. **Conserv. stat.:** EN (CSIS). **Reserve:** Bawangling, Jianfengling, Yinggeling.
- Syzygium tephrodes* (Hance) Merr. & L. M. Perry, J. Arnold Arbor. 19: 223, 1938. **Bas.:** 1885. **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.

OLEACEAE

- Chionanthus hainanensis* (Merr. & Chun) B. M. Miao, Invest. Stud. Nat. Mus. Hist. Nat. Shanghaiense 7: 18, 1987. **Bas.:** 1940. **Reserve:** Yinggeling.
- Jasminum rehderianum* Kobuski, Sunyatsenia 3: 110, 1936. **Reserve:** Jianfengling.
- Olea neriifolia* H. L. Li, J. Arnold Arbor. 25: 212, 1944. **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling. **Molec.:** Besnard et al. (2009).
- Olea parvilimba* (Merr. & Chun) B. M. Miao, Fl. Reipubl. Popularis Sin. 61: 126, 1992. **Bas.:** 1940. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.

ORCHIDACEAE

- Anoectochilus baotingensis* (K. Y. Lang) Ormerod, Taiwania 48: 87, 2003. **Bas.:** 1996. **Reserve:** Yinggeling.
- Anoectochilus hainanensis* H. Z. Tian, F. W. Xing & L. Li, Ann. Bot. Fenn. 45: 220, 2008.
- Apostasia ramifera* S. C. Chen & K. Y. Lang, Acta Phytotax. Sin. 24: 349, 1986. **Conserv. stat.:** CR (CSIS); Endangered or Rare Species of Chinese Angiosperms with Species Priority Category (Compilation Group of China's Biodiversity, 1998).
- Bulbophyllum hainanense* Z. H. Tsi, Bull. Bot. Res., Harbin 1(1–2): 118, 1981. **Conserv. stat.:** CR (CSIS).
- Bulbophyllum ledungense* T. Tang & F. T. Wang, Acta Phytotax. Sin. 12: 45, 1974. **Conserv. stat.:** EN (CSIS). **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.

Bulbophyllum obtusiangulum Z. H. Tsi, Acta Phytotax. Sin. 33: 578, 1995.

Conserv. stat.: CR (CSIS). **Notes:** Chen and Vermeulen (2009) consider this taxon to be a synonymy of *Bulbophyllum lepidum* (Blume) J. J. Smith, Orch. Java: 471, 1905; a species also found on mainland China, Taiwan, and Vietnam. Until additional data are available, however, we consider *B. obtusiangulum* to be a distinct species endemic in Hainan.

Bulbophyllum wuzhishanensis X. H. Jin, Brittonia 57: 255, 2005.

Ceratostylis hainanensis Z. H. Tsi, Acta Phytotax. Sin. 33: 582, 1995.

Conserv. stat.: VU (CSIS). **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.

Crepidium hainanense (T. Tang & F. T. Wang) S. C. Chen & J. J. Wood, Fl. China 25: 234, 2009. **Conserv. stat.:** CR (CSIS). **Reserve:** Diaoluoshan.

Crepidium insulare (T. Tang & F. T. Wang) S. C. Chen & J. J. Wood, Fl. China 25: 233, 2009. **Conserv. stat.:** VU (CSIS).

Dendrobium hainanense Rolfe, Bull. Misc. Inform. Kew 1896: 193, 1896. **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.

Dendrobium sinense T. Tang & F. T. Wang, Acta Phytotax. Sin. 12: 41, 1974.

Conserv. stat.: EN (CSIS, IUCN). **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.

Gastrochilus acinacifolius Z. H. Tsi, Bull. Bot. Res., Harbin 9(2): 25, 1989.

Conserv. stat.: VU (CSIS). **Reserve:** Yinggeling.

Gastrodia longitubularis Q. W. Meng, X. Q. Song & Y. B. Luo, Nordic J. Bot. 25: 23, 2008. **Conserv. stat.:** CR (Meng et al., 2008).

Liparis bautingensis T. Tang & F. T. Wang, Acta Phytotax. Sin. 12: 39, 1974.

Conserv. stat.: EN (CSIS, IUCN). **Reserve:** Diaoluoshan.

Liparis fissilabris T. Tang & F. T. Wang, Acta Phytotax. Sin. 12: 37, 1974. **Conserv. stat.:** EN (CSIS). **Reserve:** Diaoluoshan.

Liparis hainanensis T. Tang & F. T. Wang, Acta Phytotax. Sin. 12: 38, 1974.

Reserve: Bawangling, Diaoluoshan, Jianfengling. **Notes:** Chen et al. (2009e) consider this taxon to be a synonymy of *Liparis balansae* Gagnepain, Bull. Soc. Bot. France 79:165, 1932; a species also found on mainland China, Thailand, and Vietnam. Until additional data are available, however, we consider *L. hainanensis* to be a distinct species endemic in Hainan.

Oxystophyllum changjiangense (S. J. Cheng & C. Z. Tang) M. A. Clem., Telopea 10: 276, 2003. **Bas.:** 1980. **Conserv. stat.:** EN (CSIS, IUCN). **Reserve:** Bawangling, Jianfengling, Yinggeling. **Notes:** Limestone species.

Phaius hainanensis C. Z. Tang & S. J. Cheng, Acta Phytotax. Sin. 20: 199, 1982.

Conserv. stat.: CR (CSIS).

Pinalia quinquelamellosa (Tang & F. T. Wang) S. C. Chen & J. J. Wood, Fl. China 25: 356, 2009. **Bas.:** 1934.

Sunipia hainanensis Z. H. Tsi, Acta Phytotax. Sin. 33: 590, 1995. **Conserv. stat.:** CR (CSIS).

Thrixspermum odoratum X. Q. Song, Q. W. Meng, & Y. B. Luo, Ann. Bot. Fenn. 46: 595, 2009.

Trichotosia dongfangensis X. H. Jin & L. P. Siu, Ann. Bot. Fenn. 41: 465, 2004.

PENTAPHYLACACEAE

- Adinandra angustifolia* (S. H. Chun ex H. G. Ye) B. M. Barthol. & T. L. Ming, Fl. China 12: 477, 2007. **Bas.:** 2001.
- Adinandra epunctata* Merr. & Chun, Sunyatsenia 5: 132, 1940. **Conserv. stat.:** CR (CSIS). **Reserve:** Yinggeling.
- Adinandra howii* Merr. & Chun, Sunyatsenia 5: 131, 1940. **Conserv. stat.:** EN (CSIS).
- Cleyera angustifolia* H. G. Ye, J. Trop. Subtrop. Bot. 9: 313, 2001.
- Eurya hainanensis* (Kobuski) Hung T. Chang, Acta Phytotax. Sin. 3: 37, 1954. **Bas.:** 1938. **Reserve:** Bawangling, Jianfengling.
- Eurya ovatifolia* Hung T. Chang, Acta Phytotax. Sin. 3: 40, 1954. **Conserv. stat.:** VU (CSIS). **Reserve:** Bawangling, Diaoluoshan.
- Eurya pentagyna* Hung T. Chang, Acta Phytotax. Sin. 3: 21, 1954. **Conserv. stat.:** VU (CSIS). **Reserve:** Diaoluoshan.
- Ternstroemia hainanensis* Hung T. Chang, Acta Sci. Nat. Univ. Sunyatseni 9(4): 135, 1963. **Conserv. stat.:** EN (CSIS).

PINACEAE

- Keteleeria hainanensis* Chun & Y. Tsiang, Acta Phytotax. Sin. 8: 259, 1963. **Conserv. stat.:** CR (CSIS); Endangered (Fu & Jin, 1992). **Reserve:** Yinggeling.
- Pinus orthophylla* Businský, Willdenowia 34: 229, 2004.

PIPERACEAE

- Piper infossibaccatum* A. Huang, Guihaia 10: 295, 1990. **Reserve:** Diaoluoshan.
- Piper lingshuiense* Y. C. Tseng, Acta Phytotax. Sin. 17(1): 28, 1979. **Conserv. stat.:** VU (CSIS). **Reserve:** Bawangling, Diaoluoshan, Jianfengling.
- Piper senporeiense* Yamamoto, Contrib. Fl. Kainan. 1: 21, 1943. **Reserve:** Diaoluoshan, Yinggeling.

POACEAE

- Ampelocalamus actinotrichus* (Merr. & Chun) S. L. Chen, T. H. Wen & G. Y. Sheng, Acta Phytotax. Sin. 19: 334, 1981. **Bas.:** 1935. **Conserv. stat.:** Endangered or Rare Species of Chinese Angiosperms (Compilation Group of China's Biodiversity, 1998). **Reserve:** Jianfengling. **Molec.:** Guo et al. (2002).
- Bambusa bicicatricata* (W. T. Lin) L. C. Chia & H. L. Fung, Acta Phytotax. Sin. 18: 214, 1980. **Bas.:** 1978.
- Bambusa boniopsis* McClure, Lingnan Univ. Sci. Bull. 9: 7, 1940. **Reserve:** Diaoluoshan, Jianfengling.
- Bambusa brunneo-aciculia* G. A. Fu, Guihaia 13: 108, 1993.
- Bambusa diaoluoshanensis* L. C. Chia & H. L. Fung, Acta Phytotax. Sin. 19: 369, 1981. **Reserve:** Diaoluoshan.
- Bambusa duriuscula* W. T. Lin, Bull. Bot. Lab. N. E. Forest. Inst., Harbin 1980(6): 87, 1980.

- Bambusa glabro-vagina* G. A. Fu, Acta Phytotax. Sin. 20: 489, 1982.
- Bambusa insularis* L. C. Chia & H. L. Fung, Acta Phytotax. Sin. 19: 370, 1981.
- Bambusa malingensis* McClure, Lingnan Univ. Sci. Bull. 9: 11, 1940. **Molec.:** Sungkaew et al. (2009).
- Bambusa mutabilis* McClure, Lingnan Univ. Sci. Bull. 9: 12, 1940. **Reserve:** Jianfengling.
- Bambusa piscatorum* McClure, Lingnan Univ. Sci. Bull. 9: 14, 1940. **Reserve:** Diaoluoshan.
- Bonia levigata* (L. C. Chia, H. L. Fung & Y. L. Yang) N. H. Xia, Kew Bull. 51: 568, 1996. **Bas.:** 1988. **Molec.:** Yang et al. (2008).
- Eragrostis alta* Keng, Lingnan Sci. J. 16: 1, 1937.
- Eragrostis hainanensis* L. C. Chia, Fl. Hainan. 4: 539, 1977. **Reserve:** Jianfengling.
- Eragrostis rufinerva* L. C. Chia, Fl. Hainan. 4: 539, 1977.
- Eulalia micranthera* Y. L. Keng & S. L. Chen, Fl. Hainan. 4: 539, 1977. **Reserve:** Jianfengling.
- Fargesia hainanensis* T. P. Yi, Bull. Bot. Res., Harbin 3(3): 151, 1983.
- Imperata flavida* S. M. Phillips & S. L. Chen, Novon 15: 469, 2005. **Reserve:** Diaoluoshan, Yinggeling. **Notes:** *Imperata flavida* Y. L. Keng, Clav. Gener. Spec. Gramin. Primar. Sinic.: 138, 234 was invalidly published for this species in 1957.
- Lingnania hainanensis* (L. C. Chia & H. L. Fung) T. P. Yi, J. Sichuan Forest. Sci. Technol. 28(3): 17, 2007. **Bas.:** 1980. **Molec.:** Sun et al. (2005).
- Lingnania longianthera* G. A. Fu, J. Bamboo Res. 5(2): 41, 1986. **Notes:** This species is not included in the treatment of Bambuseae in the *Flora of China*. Until additional studies are available, however, we follow Fu (2003) and consider this taxon to be endemic to Hainan.
- Oligostachyum gracilipes* (McClure) G. H. Ye & Z. P. Wang, J. Nanjing Univ., Nat. Sci. Ed. 26(3): 488, 1990. **Bas.:** 1940.
- Oligostachyum nuspiculum* (McClure) Z. P. Wang & G. H. Ye, J. Nanjing Univ., Nat. Sci. Ed. 1982(1): 98, 1982. **Bas.:** 1940.
- Oligostachyum scopulum* (McClure) Z. P. Wang & G. H. Ye, J. Nanjing Univ., Nat. Sci. Ed. 1982(1): 98, 1982. **Bas.:** 1940.
- Pogonatherum biaristatum* S. L. Chen & G. Y. Sheng, Bull. Bot. Res., Harbin 13: 76, 1993.
- Schizostachyum diaoluoshanense* N. H. Xia, L. L. Zhang & R. S. Lin, Nordic J. Bot. 26: 21, 2008. **Reserve:** Diaoluoshan (Zhang et al., 2008).
- Setiactis diffusa* (L. C. Chia) S. L. Chen & Y. X. Jin, Acta Phytotax. Sin. 26: 219, 1988. **Bas.:** 1977.

POLYGALACEAE

- Polygala bawanglingensis* F. W. Xing & Z. X. Li, Acta Bot. Austro Sin. 6: 54, 1990. **Reserve:** Bawangling. **Notes:** Limestone species.
- Polygala hainanensis* Chun & F. C. How, Acta Phytotax. Sin. 7: 5, 1958. **Reserve:** Diaoluoshan.
- Polygala wuzhishanensis* S. K. Chen & J. Parn., Fl. China 11: 148, 2008.

PROTEACEAE

Heliciopsis lobata (Merr.) Sleumer, *Blumea* 8: 83, 1955. **Bas.:** 1930. **Reserve:** Bawangling, Diaoluoshan, Yinggeling. **Molec.:** Mast et al. (2008).

RANUNCULACEAE

Clematis hainanensis W. T. Wang, *Acta Bot. Yunnan.* 4: 134, 1982.

RHAMNACEAE

Rhamnus hainanensis Merr. & Chun, *Sunyatsenia* 2: 273, 1935. **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.

ROSACEAE

Prunus hainanensis (G. A. Fu & Y. S. Lin) H. Yu, N. H. Xia & H. G. Ye, *Nordic J. Bot.* 25: 31, 2008. **Bas.:** 1988. **Conserv. stat.:** EN (Yu et al., 2007). **Reserve:** Bawangling, Yinggeling.

Rhaphiolepis wuzhishanensis W. B. Liao, R. H. Miao & Q. Fan, *Novon* 17: 429, 2007. **Conserv. stat.:** EN (Fan et al., 2007).

Rubus howii Merr. & Chun, *Sunyatsenia* 5: 71, 1940. **Reserve:** Diaoluoshan.

RUBIACEAE

Argostemma discolor Merr., *Philipp. J. Sci.* 23: 265, 1923. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.

Argostemma hainanicum H. S. Lo, *Bull. Bot. Res., Harbin* 6(4): 46, 1986. **Reserve:** Jianfengling.

Benkara rectispina (Merr.) Ridsdale, *Reinwardtia* 12: 299, 2008. **Bas.:** 1935.

Ceriscoides howii H. S. Lo, *Bull. Bot. Res., Harbin* 18: 281, 1998. **Conserv. stat.:** EN (CSIS).

Damnacanthus hainanensis (H. S. Lo) Y. Z. Ruan, *Fl. Reipubl. Popularis Sin.* 71(2): 176, 1999. **Bas.:** 1979. **Reserve:** Yinggeling.

Hedyotis baotingensis W. C. Ko, *J. South China Agric. Coll.* 16(4): 43, 1995.

Hedyotis cathayana W. C. Ko, *Fl. Hainan.* 3: 579, 1974. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.

Hedyotis cheniana R. J. Wang, *Novon* 18: 264, 2008. **Conserv. stat.:** LC (Wang, 2008). **Notes:** Although Wang (2008) considers this species to have a Least Concern conservation status, no herbarium specimens have been collected since 1959.

Hedyotis communis W. C. Ko, *Fl. Hainan.* 3: 579, 1974. **Reserve:** Jianfengling.

Hedyotis cryptantha Dunn, *Bull. Misc. Inform. Kew* 1912: 367, 1912. **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.

Hedyotis hainanensis (Chun) W. C. Ko, *Fl. Hainan.* 3: 580, 1974. **Bas.:** 1934. **Reserve:** Bawangling, Yinggeling.

Hedyotis minutopuberula Merr. & F. P. Metcalf, *J. Arnold Arbor.* 23: 229, 1942. **Reserve:** Diaoluoshan.

- Hedyotis paridifolia* Dunn, Bull. Misc. Inform. Kew 1912: 366, 1912. **Reserve:** Diaoluoshan.
- Hedyotis terminaliflora* Merr. & Chun, Sunyatsenia 2: 326, 1935. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.
- Hedyotis wuzhishanensis* R. J. Wang, Novon 18: 266, 2008. **Conserv. stat.:** LC (Wang, 2008). **Notes:** Although Wang (2008) considers this species to have a Least Concern conservation status, only five herbarium specimens have been collected between 1933 and 1989.
- Hedyotis yazhouensis* F. W. Xing & R. J. Wang, Acta Phytotax. Sin. 41: 87, 2003.
- Lasianthus calycinus* Dunn, Bull. Misc. Inform. Kew 1912: 367, 1912. **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.
- Lasianthus verrucosus* H. S. Lo, Bot. J. South China 2: 2, 1993. **Reserve:** Jianfengling, Yinggeling.
- Meyna hainanensis* Merr., Lingnan Sci. J. 14: 57, 1935. **Conserv. stat.:** EN (CSIS). **Reserve:** Jianfengling.
- Morinda brevipes* S. Y. Hu, J. Arnold Arbor. 32: 399, 1951. **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.
- Morinda hainanensis* Merr. & F. C. How, Sunyatsenia 5: 188, 1940. **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.
- Mussaenda antiloga* Chun & W. C. Ko, Fl. Hainan. 3: 582, 1974. **Reserve:** Diaoluoshan, Yinggeling.
- Mussaenda hainanensis* Merr., Lingnan Sci. J. 14: 58, 1935. **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.
- Mussaenda lotungensis* Chun & W. C. Ko, Fl. Hainan. 3: 581, 1974. **Conserv. stat.:** CR (CSIS). **Reserve:** Jianfengling, Yinggeling.
- Mussaenda membranifolia* Merr., Philipp. J. Sci. 23: 267, 1923. **Reserve:** Jianfengling.
- Mycetia hainanensis* H. S. Lo, Guihaia 11: 112, 1991. **Reserve:** Jianfengling.
- Ophiorrhiza hainanensis* Y. C. Tseng, Fl. Hainan. 3: 582, 1974. **Reserve:** Diaoluoshan, Yinggeling.
- Ophiorrhiza humilis* Y. C. Tseng, Fl. Hainan. 3: 583, 1974. **Reserve:** Diaoluoshan.
- Psychotria hainanensis* H. L. Li, J. Arnold Arbor. 25: 213, 1944. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.
- Saprosma hainanensis* Merr., Lingnan Sci. J. 9: 44, 1930. **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.
- Saprosma merrillii* H. S. Lo, Bot. J. South China 2: 15, 1993. **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.
- Tarenna laui* Merr., Lingnan Sci. J. 14: 59, 1935.
- Wendlandia merrilliana* Cowan, Notes Roy. Bot. Gard. Edinburgh 18: 303, 1935. **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.

RUTACEAE

- Clausena hainanensis* C. C. Huang & F. W. Xing, Guihaia 12: 215, 1992. **Conserv. stat.:** CR (CSIS). **Reserve:** Diaoluoshan. **Notes:** Limestone species.
- Melicope chunii* (Merr.) T. G. Hartley, Allertonia 8: 237, 2001. **Bas.:** 1925.
- Melicope patulinervia* (Merr. & Chun) C. C. Huang, Acta Phytotax. Sin. 6: 132, 1957. **Bas.:** 1940. **Conserv. stat.:** EN (CSIS). **Reserve:** Diaoluoshan.

SALICACEAE

Homalium stenophyllum Merr. & Chun, Sunyatsenia 2: 287, 1935. **Conserv. stat.:** VU (CSIS).

Populus qionghaoensis T. Hong & P. Luo, Bull. Bot. Res., Harbin 7(3): 67, 1987.

Reserve: Bawangling, Yinggeling.

Salix hainanica A. K. Skvortsov, Harvard Pap. Bot. 3: 107, 1998.

SANTALACEAE

Viscum hainanense R. L. Han & D. X. Zhang, Nordic J. Bot. 23: 720, 2006.

Reserve: Bawangling (Han et al., 2006).

SAPINDACEAE

Allophylus repandifolius Merr. & Chun, Sunyatsenia 5: 113, 1940. **Conserv. stat.:** CR (CSIS). **Reserve:** Yinggeling.

Allophylus trichophyllus Merr. & Chun, Sunyatsenia 2: 270, 1935. **Conserv. stat.:** EN (CSIS).

Lepisanthes hainanensis H. S. Lo, Acta Phytotax. Sin. 17(2): 31, 1979. **Conserv. stat.:** EN (CSIS). **Reserve:** Diaoluoshan.

Lepisanthes oligophylla (Merr. & Chun) N. H. Xia & Gadek, Fl. China 12: 13, 2007.

Bas.: 1935. **Reserve:** Jianfengling, Yinggeling.

Lepisanthes unilocularis Leenh., Blumea 17: 73, 1969. **Conserv. stat.:** EX (CSIS, IUCN); Extinct (Fu & Jin, 1992).

Mischocarpus hainanensis H. S. Lo, Fl. Hainan. 3: 574, 1974. **Reserve:** Jianfengling.

Nephelium topengii (Merr.) H. S. Lo, Fl. Hainan. 3: 574, 1974. **Bas.:** 1923. **Reserve:** Bawangling, Diaoluoshan, Jianfengling, Yinggeling.

Paranephelium hainanense H. S. Lo, Fl. Hainan. 3: 575, 1974. **Conserv. stat.:** CR (CSIS), EN (IUCN); Endangered (Fu & Jin, 1992); Endangered or Rare Species of Chinese Angiosperms with Species Priority Category (Compilation Group of China's Biodiversity, 1998).

SAPOTACEAE

Madhuca hainanensis Chun & F. C. How, Acta Phytotax. Sin. 7: 71, 1958. **Conserv. stat.:** VU (CSIS, IUCN); Vulnerable (Fu & Jin, 1992); National Protected Key Wild Plant (First Batch); Endangered or Rare Species of Chinese Angiosperms (Compilation Group of China's Biodiversity, 1998). **Reserve:** Bawangling, Diaoluoshan, Jianfengling. **Molec.:** Smedmark et al. (2006).

Xantolis longispinosa (Merr.) H. S. Lo, Fl. Hainan. 3: 575, 1974. **Bas.:** 1934.

Reserve: Jianfengling, Yinggeling.

SCROPHULARIACEAE

Lindernia cyrtotricha P. C. Tsoong & T. C. Ku, Fl. Reipubl. Popularis Sin. 67(2): 148, 398, 1979. **Conserv. stat.:** VU (CSIS). **Reserve:** Diaoluoshan.

SMILACACEAE

Heterosmilax micrandra T. Koyama, Brittonia 36: 201, 1984.

STEMONACEAE

Stemona parviflora C. H. Wright, J. Linn. Soc. Bot. 32: 49, 1896. **Conserv. stat.:** EN (CSIS). **Reserve:** Jianfengling, Yinggeling. **Molec.:** Jiang et al. (2006b).

SYMPLOCACEAE

Symplocos crassilimba Merr., Lingnan Sci. J. 14: 47, 1935. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.

Symplocos euryoides Hand.-Mazz., Beih. Bot. Centralbl. 62(B): 27, 1943. **Reserve:** Jianfengling. **Molec.:** Wang et al. (2004); Fritsch et al. (2006).

Symplocos ovatilobata Noot., Rev. Symploc. Old World: 257, 1975. **Conserv. stat.:** EN (CSIS); Endangered or Rare Species of Chinese Angiosperms (Compilation Group of China's Biodiversity, 1998). **Reserve:** Diaoluoshan, Yinggeling. **Molec.:** Wang et al. (2004); Fritsch et al. (2006).

THEACEAE

Camellia amplexifolia Merr. & Chun, Sunyatsenia 5: 129, 1940. **Conserv. stat.:** EN (CSIS). **Reserve:** Diaoluoshan.

Camellia parviflora Sealy, Rev. Gen. Camellia: 139, 1958. **Conserv. stat.:** VU (CSIS).

Camellia paucipunctata (Merr. & Chun) Chun, Sunyatsenia 4: 187, 1940. **Bas.:** 1935. **Conserv. stat.:** CR (CSIS). **Reserve:** Bawangling, Jianfengling.

Camellia xanthochroma K. M. Feng & L. S. Xie, Acta Bot. Yunnan. 2: 424, 1980. **Conserv. stat.:** CR (CSIS).

Polyspora hainanensis (Hung T. Chang) B. M. Barthol. & T. L. Ming, Novon 15: 264, 2005. **Bas.:** 1983. **Conserv. stat.:** EN (CSIS). **Reserve:** Bawangling, Yinggeling. **Molec.:** Prince & Parks (2001); Yang et al. (2004).

THYMELAEACEAE

Daphne axillaris (Merr. & Chun) Chun & C. F. Wei, Acta Phytotax. Sin. 8: 264, 1963. **Bas.:** 1940. **Conserv. stat.:** VU (CSIS). **Reserve:** Bawangling, Diaoluoshan, Jianfengling.

Wikstroemia chuii Merr., Lingnan Sci. J. 9: 41, 1930. **Conserv. stat.:** VU (CSIS). **Reserve:** Diaoluoshan.

Wikstroemia hainanensis Merr., Lingnan Sci. J. 14: 40, 1935. **Conserv. stat.:** VU (CSIS). **Reserve:** Bawangling, Jianfengling, Yinggeling.

Wikstroemia liangii Merr. & Chun, Sunyatsenia 5: 140, 1940. **Conserv. stat.:** VU (CSIS). **Reserve:** Diaoluoshan.

URTICACEAE

- Boehmeria lohuiensis* S. S. Chien, Acta Phytotax. Sin. 8: 355, 1963. **Reserve:** Yinggeling.
- Pilea subedentata* C. J. Chen, Bull. Bot. Res., Harbin 2(3): 79, 1982. **Reserve:** Bawangling, Jianfengling.

VITACEAE

- Cayratia lanceolata* (C. L. Li) J. Wen & Z. D. Chen, Acta Bot. Yunnan. 28: 471, 2006. **Bas.:** 1996.
- Leea longifoliola* Merr., Lingnan Sci. J. 14: 33, 1935. **Reserve:** Jianfengling, Yinggeling.
- Tetrastigma pseudocruciatum* C. L. Li, Chin. J. Appl. Environm. Biol. 1: 318, 1995.

ZINGIBERACEAE

- Alpinia coriacea* T. L. Wu & S. J. Chen, Acta Phytotax. Sin. 16(3): 31, 1978. **Reserve:** Diaoluoshan. **Molec.:** Kress et al. (2005).
- Alpinia hibinoi* Masam., Trans. Nat. Hist. Soc. Taiwan 33: 108, 1943.
- Amomum chinense* Chun, Fl. Hainan. 4: 533, 1977. **Reserve:** Bawangling, Diaoluoshan, Jianfengling.

Appendix 2. Taxa no longer considered endemic to Hainan Island and names of uncertain application

ACANTHACEAE

- Calophanoides hainanensis* C. Y. Wu & H. S. Lo, Fl. Hainan. 3: 597, 1974 (accepted name: *Justicia hainanensis* (C. Y. Wu & H. S. Lo) N. H. Xia & Y. F. Deng, J. Trop. Subtrop. Bot. 13: 533, 2005, also occurring in mainland China (Xia & Deng, 2005)).
- Championella machurei* (Merr.) C. Y. Wu & H. S. Lo, Fl. Hainan. 3: 592, 1974 (accepted name: *Strobilanthes anamitica* Kuntze, Rev. Gen. Pl.: 498, 1891, also occurring in mainland China and Vietnam (The Biodiversity Committee of the Chinese Academy of Sciences, 2008; Y. F. Deng, pers. comm.)).
- Graptophyllum viriduliflorum* C. Y. Wu & H. S. Lo, Fl. Hainan. 3: 594, 1974 (accepted name: *Cosmianthemum viriduliflorum*, endemic to Hainan (Hu, 2009)).
- Lepidagathis hainanensis* H. S. Lo, Fl. Hainan. 3: 598, 1974 (also occurring in mainland China (Hu, 2009)).
- Pararuellia hainanensis* C. Y. Wu & H. S. Lo, Fl. Hainan. 3: 593, 1974 (also occurring in mainland China (The Biodiversity Committee of the Chinese Academy of Sciences, 2008; Y. F. Deng, pers. comm.)).

- Rostellularia humilis* H. S. Lo, Fl. Hainan. 3: 598, 1974 (accepted name: *Justicia demissa* N. H. Xia & Y. F. Deng, J. Trop. Subtrop. Bot. 13: 534, 2005, also occurring in mainland China (Xia & Deng, 2005)).
- Staurogyne sinica* C. Y. Wu & H. S. Lo, Fl. Hainan. 3: 590, 1974 (also occurring in mainland China (Y. Deng, pers. comm.)).

ANNONACEAE

- Miliusa prolifica* (Chun & F. C. How) P. T. Li, Guihaia 13: 315, 1993 (also occurring in mainland China (X.-L. Hou, unpublished)).
- Meiogyne hainanensis* (Merr.) N. T. Ban, Bot. Zhurn. (Moscow & Leningrad) 58: 1148, 1973 (accepted name: *Oncodostigma hainanense* (Merr.) Y. Tsiang & P. T. Li, Fl. Reipubl. Popularis Sin. 30(2): 81, 1979, also occurring in mainland China (Li, 2009; X.-L. Hou, pers. comm.)).
- Polyalthia consanguinea* Merr., Philipp. J. Sci. 23: 243, 1923 (accepted name: *Polyalthia obliqua* Hook. f. & Thomson, Fl. Ind. 1: 138, 1855, also occurring in Malaysia and mainland China (Li, 2009; X.-L. Hou, unpublished)).
- Polyalthia laui* Merr., Lingnan Sci. J. 14: 5, 1935 (also occurring in mainland China and Vietnam (Li, 2009; X.-L. Hou, unpublished)).
- Species of uncertain status
- Meiogyne kwangtungensis* P. T. Li, Acta Phytotax. Sin. 14: 104, 1976 (this species is known only from the type specimen and is of uncertain taxonomic status (X.-L. Hou, unpublished)).
- Richella hainanensis* (Y. Tsiang & P. T. Li) Y. Tsiang & P. T. Li, Fl. Reipubl. Popularis Sin. 30(2): 128, 1979 (this species is known only from the type specimen and is of uncertain taxonomic status (X.-L. Hou, pers. comm.)).

APOCYNACEAE

- Alyxia lehtungensis* Y. Tsiang, Acta Phytotax. Sin. 10: 30, 1965 (accepted name: *Alyxia sinensis* Benth., Hook. J. Bot. Kew Gard. Misc. 4: 334, 1852, also occurring in mainland China and Taiwan (Li et al., 1995b; D. Middleton, pers. comm.)).
- Anodendron affine* (Hook. & Arn.) Druce, Bot. Soc. Exch. Club Brit. Isles 4: 605, 1917 (also occurring in mainland China, Taiwan, India, Japan, and Vietnam (Li et al., 1995b)).
- Beaumontia breviflora* Oliv., Hooker's. Icon. Pl. 16: 1582, 1887 (also occurring in mainland China (Li et al., 1995b)).
- Marsdenia hainanensis* Y. Tsiang, Sunyatsenia 3: 206, 1936 (also occurring in mainland China and Vietnam (Li et al., 1995a)).
- Marsdenia lachnostoma* Benth., Fl. Hongk.: 226, 1861 (also occurring in Hong Kong and SE Asia (Li et al., 1995b)).
- Parabarium hainanense* Y. Tsiang, Sunyatsenia 2: 123, 1934 (accepted name: *Urceola quintareti* (Pierre) D. J. Middleton, Novon 4: 151, 1994, also occurring in mainland China and SE Asia (Li et al., 1995b)).
- Parsonsia howii* Y. Tsiang, Sunyatsenia 2: 167, 1934 (also occurring in Vietnam (D. Middleton, pers. comm.)).

Sindechites chinensis (Merr.) Markgr. & Y. Tsiang, Sunyatsenia 3: 152, 1936 (also occurring in SE Asia (Li et al., 1995b)).

Tylophora cycleoides Y. Tsiang, Sunyatsenia 3: 224, 1936 (also occurring in mainland China (Li et al., 1995a)).

AQUIFOLIACEAE

Ilex kaushue S. Y. Hu, J. Arnold Arbor. 30: 372, 1949 (also occurring in mainland China (Chen et al., 2008a)).

Ilex revoluta P. C. Tam, Acta Phytotax. Sin. 8: 356, 1963 (accepted name: *Ilex tamii* T. R. Dudley, Hollies Gen. *Ilex*: 244, 1997, also occurring in mainland China (Chen et al., 2008a)).

ARACEAE

Alocasia hainanensis K. Krause in Engler, Pflanzenr. Arac. Colocas.: 91, 1920 (accepted name: *Alocasia hainanica* N. E. Brown, J. Linn. Soc. Bot. 36: 183, 1903, also occurring in Vietnam (Li & Zhu, 2009)).

ARALIACEAE

Schefflera hainanensis Merr. & Chun, Sunyatsenia 2: 295, 1935 (also occurring in Vietnam (Shang & Lowry, 2007)).

ARECACEAE

Calamus pulchellus Burret, Notizbl. Bot. Gart. Berlin 13: 597, 1937 (also occurring in mainland China (Henderson & Guo, 2008; Pei et al., 2009)).

Plectocomia microstachys Burret, Notizbl. Bot. Gart. Berlin 15: 731, 1942 (also occurring in mainland China (Henderson & Guo, 2008; Pei et al., 2009)).

ASTERACEAE

Inula intermedia C. C. Chang & Y. C. Tseng, Fl. Hainan. 3: 584, 1974 (accepted name: *Duhaldea chinensis* DC., Prodr. 5: 366, 1836, also occurring in mainland China, India, and SE Asia (Chen & Anderberg, 2009)).

Vernonia chunii C. C. Chang, Sunyatsenia 3: 272, 1937 (accepted name: *Strobocalyx chunii*, endemic to Hainan (Robinson et al., 2008)).

BERBERIDACEAE

Mahonia hainanensis C. M. Hu, Z. X. Li & F. W. Xing, Guihaia 14: 18, 1994 (accepted name: *Mahonia oiwakensis* Hayata, Icon. Pl. Formosan. 6: 1, 1916, also occurring in mainland China and Taiwan (The Biodiversity Committee of the Chinese Academy of Sciences, 2008; D. Boufford, unpublished)).

CELASTRACEAE

- Euonymus fengii* Chun & F. C. How, Acta Phytotax. Sin. 7: 44, 1958 (accepted name: *Glyptopetalum fengii*, endemic to Hainan (Liu & Funston, 2008a)).
- Euonymus geloniifolius* Chun & F. C. How, Acta Phytotax. Sin. 7: 45, 1958 (accepted name: *Glyptopetalum geloniifolium* (Chun & F. C. How) C. Y. Cheng, Fl. Reipubl. Popularis Sin. 45(3): 94, 1999, also occurring in mainland China (Liu & Funston, 2008a)).
- Euonymus longipedicellatus* Merr. & Chun, Sunyatsenia 2: 36, 1934 (accepted name: *Glyptopetalum longipedicellatum* (Merr. & Chun) C. Y. Cheng, Fl. Reipubl. Popularis Sin. 45(3): 90, 1999, also occurring in mainland China (Liu & Funston, 2008a)).
- Gymnosporia hainanensis* Merr. & Chun, Sunyatsenia 2: 267, 1935 (accepted name: *Maytenus hainanensis*, endemic to Hainan (Liu & Funston, 2008b)).
- Loeseneriella merrilliana* A. C. Smith, J. Arnold Arbor. 26: 172, 1945 (also occurring in mainland China (Peng & Funston, 2008)).

CLUSIACEAE

- Garcinia oligantha* Merr., Philipp. J. Sci. 22: 254, 1923 (also occurring in mainland China and Vietnam (Li et al., 2007)).

CONVOLVULACEAE

- Jacquemontia paniculata* (Burm. f.) Hallier f., Bot. Jahrb. Syst. 16: 541, 1893 (also occurring in mainland China, Taiwan, Australia, India, Indonesia, Pacific Islands, and SE Asia (Fang & Staples, 1995)).
- Merremia hainanensis* H. S. Kiu, Fl. Hainan. 3: 587, 1974 (also occurring in Vietnam (Staples 2010)).

CYPERACEAE

- Carex laxisquamata* T. Tang & F. T. Wang, Fl. Hainan. 4: 535, 1977 (accepted name: *Carex breviscapa* C. B. Clarke in Hook., Fl. Brit. India 6: 736, 1894, also occurring in mainland China, Taiwan, Australia, India, Indonesia, and SE Asia (Dai et al., 2009)).
- Carex saxicola* T. Tang & F. T. Wang, Fl. Hainan. 4: 535, 1977 (also occurring in mainland China (Dai et al., 2009)).
- Fimbristylis pauciflora* R. Br., Prodr. Fl. Nov. Holl.: 225, 1810 (also occurring in mainland China, Australia, and India (Govaerts & Simpson, 2007)).
- Hypolytrum hainanense* (Merr.) T. Tang & F. T. Wang, Fl. Reipubl. Popularis Sin. 11: 201, 1961 (also occurring in Vietnam (Dai, 2009)).
- Mariscus compactus* (Retz.) Bold., Zakfl. Land. Java: 77, 1916 (accepted name: *Cyperus compactus* Retz., Observ. Bot. 5: 10, 1788, also occurring in mainland China, Taiwan, India, Indonesia, SE Asia, N Australia, and Madagascar (Govaerts & Simpson, 2007)).
- Scirpus hainanensis* S. M. Huang, Fl. Hainan. 4: 538, 1977 (also occurring in mainland China (S. Zhang, pers. comm.)).

DIOSCOREACEAE

Dioscorea cirrhosa Lour., Fl. Cochinch. 2: 625, 1790 (also occurring in mainland China, Taiwan, and SE Asia (Ting & Gilbert, 2000)).

DIPTEROCARPACEAE

Hopea exalata W. T. Lin, Y. Y. Yang & Q. S. Hsue, Acta Phytotax. Sin. 16: 87, 1978 (accepted name: *Hopea reticulata* Tardieu, Notul. Syst. (Paris) 10: 123, 1942, also occurring in Vietnam (Li & Ashton, 2007)).

Hopea hainanensis Merr. & Chun, Sunyatsenia 5: 134, 1940 (also occurring in Vietnam (Li & Ashton, 2007)).

EBENACEAE

Diospyros metcalffii Chun & L. Chen, Sunyatsenia 3: 119, 1936 (also occurring in mainland China (Lee et al., 1996)).

ELAEOCARPACEAE

Elaeocarpus hainanensis Oliv., Hooker's. Icon. Pl. 25: 2462, 1896 (also occurring in mainland China and SE Asia (Tang & Phengklai, 2007)).

Elaeocarpus limitaneus Hand.-Mazz., Sinensia 3: 193, 1933 (also occurring in mainland China and Vietnam (Tang & Phengklai, 2007)).

ERICACEAE

Pieris obliquinervis Merr. & Chun, Sunyatsenia 5: 157, 1940 (accepted name: *Lyonia ovalifolia* (Wall.) Drude in Engler & Prantl, Nat. Pflanzenfam. 4(1, lief 37): 44, 1889 var. *lanceolata* (Wall.) Hand.-Mazz., Symb. Sin. 7: 788, 1936, also occurring in mainland China, India, and SE Asia (Fang & Stevens, 2005)).

Rhododendron simiarum Hance, J. Bot. 19: 243, 1881 (also occurring in mainland China (Fang & Chamberlain, 2005)).

EUPHORBIACEAE

Actephila merrilliana Chun, Sunyatsenia 3: 26, 1935 (also occurring in mainland China (Li & Gilbert, 2008a)).

Andrachne hainanensis Merr. & Chun, Sunyatsenia 5: 102, 1940 (accepted name: *Leptopus hainanensis*, endemic to Hainan (Li & Vorontsova, 2008)).

Antidesma apiculatum Hemsl., J. Linn. Soc. Bot. 26: 430, 1894 (accepted name: *Antidesma montanum* Blume, Bijdr. Fl. Ned. Ind. 17: 1124, 1827, also occurring in mainland China, Taiwan, Australia, India, Japan, Indonesia, and SE Asia (Li & Hoffmann, 2008)).

Antidesma maclurei Merr., Philipp. J. Sci. 23: 248, 1923 (also occurring in Vietnam (Li & Hoffmann, 2008)).

- Antidesma pseudomicrophyllum* Croizat, J. Arnold Arbor. 21: 496, 1940 (accepted name: *Antidesma montanum* var. *microphyllum* (Hemsley) Petra Hoffm., Kew Bull. 54: 357, 1999, also occurring in mainland China and SE Asia (Li & Hoffmann, 2008)).
- Blachia chunii* Y. T. Chang & P. T. Li ex P. T. Li, J. S. China Agric. Univ. 21(4): 59, 2000 (accepted name: *Blachia siamensis* Gagnep., Bull. Soc. Bot. France 71: 620, 1924, also occurring in mainland China and Thailand (Li & Gilbert, 2008b)).
- Blachia yaihsienensis* F. W. Xing & Z. X. Li, Bull. Bot. Res., Harbin 11(4): 57, 1991 (accepted name: *Blachia jatrophifolia* Pax & K. Hoffm. in Engler, Pflanzenr. Euphorb. Clu.: 39, 1911, also occurring in SE Asia (Li & Gilbert, 2008b)).
- Claoxylon hainanense* Pax & K. Hoffm. in Engler, Pflanzenr. Euphorb.-Mercurial: 128, 1914 (also occurring in mainland China and Vietnam (Chiu & Gilbert, 2008a)).
- Cleistanthus dongfangensis* (P. T. Li) H. S. Kiu, Acta Phytotax. Sin. 27: 454, 1989 (accepted name: *Cleistanthus concinnus* Croizat, J. Arnold Arbor. 23: 41, 1942, also occurring in Vietnam (Li & Dressler, 2008)).
- Cnesmone anisosepala* (Merr. & Chun) Croizat, J. Arnold Arbor. 22: 429, 1941 (accepted name: *Cnesmone tonkinensis* (Gagnep.) Croizat, J. Arnold Arbor. 22: 429, 1941, also occurring in mainland China and Vietnam (Chiu & Gillespie, 2008)).
- Cnesmone hainanensis* (Merr. & Chun) Croizat, J. Arnold Arbor. 22: 430, 1941 (also occurring in mainland China (Chiu & Gillespie, 2008)).
- Croton olivaceus* Y. T. Chang & P. T. Li, Guihaia 8: 54, 1988 (accepted name: *Croton lauioides* Radcl.-Sm. & Govaerts, Kew Bull. 52: 187, 1997, also occurring in mainland China (Li & Esser, 2008a)).
- Drypetes congestiflora* Chun & T. Chen, Acta Phytotax. Sin. 8: 175, 1963 (also occurring in mainland China and Philippines (Li & Gilbert, 2008c)).
- Drypetes hainanensis* Merr., J. Arnold Arbor. 6: 134, 1925 (also occurring in SE Asia (Li & Gilbert, 2008c)).
- Drypetes nienkui* Merr. & Chun, Sunyatsenia 2: 258, 1935 (accepted name: *Drypetes indica* (Müll. Arg.) Pax & K. Hoffm. in Engler, Pflanzenr.-Euphorb.-Phyllanthoid.-Phyllanth.: 278, 1921, also occurring in mainland China, Taiwan, India, and SE Asia (Li & Gilbert, 2008c)).
- Euphorbia lingiana* C. Shih, Acta Phytotax. Sin. 8: 276, 1963 (accepted name: *Euphorbia atoto* G. Forst., Fl. Ins. Austr.: 36, 1786, also occurring in mainland China, Taiwan, Australia, India, Indonesia, Pacific Islands, and SE Asia (Ma & Gilbert, 2008)).
- Macaranga bracteata* Merr., Lingnan Sci. J. 6: 281, 1930 (accepted name: *Macaranga andamanica* Kurz, Forest Fl. Burma 2: 389, 1877, also occurring in mainland China, India, and SE Asia (Chiu & Gilbert, 2008b)).
- Mallotus grossedentatus* Merr. & Chun, Sunyatsenia 5: 98, 1940 (accepted name: *Mallotus esquirolii* H. Lévl., Repert. Spec. Nov. Regni Veg. 9: 327, 1911, also occurring in mainland China and Vietnam (Chiu & Gilbert, 2008c)).
- Sapium laui* Croizat, J. Arnold Arbor. 21: 505, 1940 (accepted name: *Triadica cochinchinensis* Lour., Fl. Cochinch. 2: 610, 1790, also occurring in mainland China, Taiwan, India, Indonesia, and SE Asia (Li & Esser, 2008b)).
- Trigonostemon fungii* Merr., Lingnan Sci. J. 11: 47, 1932 (accepted name: *Trigonostemon chinensis* Merr., Philipp. J. Sci. 21: 498, 1922, also occurring in mainland China and Vietnam (Li & Gilbert, 2008d)).

Trigonostemon howii Merr. & Chun, Sunyatsenia 2: 262, 1935 (also occurring in mainland China and Vietnam (Li & Gilbert, 2008d)).

FABACEAE

Amphicarpaea linearis Chun & T. C. Chen, Acta Phytotax. Sin. 7: 23, 1958 (also occurring in mainland China (ILDIS, 2009)).

Bauhinia hainanensis H. Y. Chen, J. Arnold Arbor. 19: 132, 1938 (also occurring in mainland China (Huang, 1997; Zhang et al., 2009)).

Dalbergia odorifera T. C. Chen, Acta Phytotax. Sin. 8: 351, 1963 (also occurring in mainland China (Chen & Larsen, 2009)).

Derris hainanensis Hayata, Icon. Pl. Formosan. 3: 77, 1913 (accepted name: *Paraderris hainanensis*, endemic to Hainan (Chen & Pedley, 2009)).

Indigofera chuniana F. P. Metcalf, Sunyatsenia 4: 155, 1940 (accepted name: *Indigofera colutea* (Burm. f.) Merr., Philipp. J. Sci. 19: 355, 1921, also occurring in mainland China (Gao & Schrire, 2009)).

Indigofera hainanensis Tsai & T. T. Yu, Bull. Fan Mem. Inst. Biol. Bot. 7: 30, 1936 (accepted name: *Indigofera wightii* Wight & Arn., Prodr. Fl. Ind. Orient.: 202, 1834, also occurring in mainland China (Gao & Schrire, 2009)).

Ormosia howii Merr. & Chen, Sargentia 3: 112, 1943 (also occurring in mainland China (ILDIS, 2009)).

Ormosia inflata Merr. & Chen, Sargentia 3: 100, 1943 (also occurring in mainland China and Vietnam (ILDIS, 2009)).

FAGACEAE

Lithocarpus brachystachyus Chun, J. Arnold Arbor. 28: 230, 1947 (also occurring in mainland China (Huang et al., 1999)).

Lithocarpus caudatilimbus (Merr.) A. Camus, Notul. Syst. (Paris) 6: 185, 1938 (also occurring in mainland China (Huang et al., 1999)).

Lithocarpus elaeagnifolius (Seemen) Chun, J. Arnold Arbor. 9: 151, 1928 (also occurring in Vietnam (Huang et al., 1999)).

Lithocarpus fenestrata (Roxb.) Rehder, J. Arnold Arbor. 1: 126, 1919 (also occurring in mainland China, India, and SE Asia (Huang et al., 1999)).

Lithocarpus howii Chun, J. Arnold Arbor. 28: 235, 1947 (also occurring in mainland China (Huang et al., 1999)).

Quercus insularis Chun & P. C. Tam, Acta Phytotax. Sin. 10: 208, 1965 (accepted name: *Cyclobalanopsis phanera* (Chun) Y. C. Hsu & H. W. Jen, Acta Bot. Yunnan. 1(1): 148, 1979, also occurring in mainland China (Huang et al., 1999)).

Quercus basellata Chun & W. C. Ko, Acta Phytotax. Sin. 7: 35, 1958 (accepted name: *Cyclobalanopsis phanera*, also occurring in mainland China (Huang et al., 1999)).

Trigonobalanus verticillata Forman, Taxon 11: 140, 1962 (also occurring in SE Asia (Ng & Lin, 2008)).

Species of uncertain status

Castanopsis undulatifolia G. A. Fu, Guihaia 14: 301, 1994 (Huang et al., 1999).

GESNERIACEAE

Lysionotus hainanensis Merr. & Chun, Sunyatsenia 2: 321, 1935 (accepted name: *Lysionotus pauciflorus* Maxim., Bull. Acad. Imp. Sci. Saint-Petersbourg 19: 534, 1874, also occurring in mainland China, Taiwan, Japan, and Vietnam (Wang et al., 1998)).

HAMAMELIDACEAE

Sycopsis salicifolia E. Walker, J. Arnold Arbor. 25: 341, 1944 (accepted name: *Distyliopsis salicifolia*, endemic to Hainan (Zhang et al., 2003)).

Altingia obovata Merr. & Chun, Sunyatsenia 2: 238, 1935 (accepted name: *Altingia chinensis* (Champ. ex Benth.) Oliv. ex Hance, J. Linn. Soc. Bot. 13: 103, 1873, also occurring in mainland China and Vietnam (Ickert-Bond et al., 2007)).

LAMIACEAE

Callicarpa brevipes (Benth.) Hance, Ann. Sci. Nat., Bot. Sér. 5, 5: 233, 1866 (accepted name: *Callicarpa dentosa* (H. T. Chang) W. Z. Fang, Fl. Reipubl. Popularis Sin. 1: 300, 1951, also occurring in mainland China and Vietnam (Chen & Gilbert, 1994)).

Callicarpa kochiana Makino, Bot. Mag. (Tokyo) 28: 181, 1914 (also occurring in mainland China, Japan, Taiwan, and Vietnam (Chen & Gilbert, 1994)).

Callicarpa longibracteata Hung T. Chang, Acta Phytotax. Sin. 1: 277, 1951 (endemic to Hong-Kong (Chen & Gilbert, 1994)).

Dysophylla stellata (Lour.) Benth. in Wallich, Pl. Asiat. Rar. 1: 30, 1830 (accepted name: *Pogostemon stellatus* (Lour.) Kuntze, Revis. Gen. Pl. 2: 429, 1891, also occurring in mainland China, Australia, India, Japan, and SE Asia (Li & Hedge, 1994)).

Paraphlomis pagantha Dunn, Fl. Indo-Chine 4: 1015, 1936 (accepted name: *Paraphlomis lancidentata* Y. Z. Sun, Contr. Biol. Lab. Sci. China, Bot. Ser. 10: 30, 1935, also occurring in mainland China and Vietnam (Suddee & Paton, 2006)).

Premna maclurei Merr., Lingnan Sci. J. 6: 330, 1928 (also occurring in Vietnam (Govaerts, 2003a)).

Premna octonervia Merr. & F. P. Metcalf, J. Arnold Arbor. 20: 354, 1939 (also occurring in SE Asia (Govaerts, 2003a)).

Sphenodesme floribunda Chun & F. C. How, Acta Phytotax. Sin. 7: 79, 1958 (also occurring in mainland China (Chen & Gilbert, 1994)).

LAURACEAE

Alseodaphne hainanensis Merr., Lingnan Sci. J. 13: 57, 1934 (also occurring in Vietnam (Li et al., 2008a)).

Beilschmiedia glauca S. K. Lee & L. F. Lau, Acta Phytotax. Sin. 8: 193, 1963 (also occurring in mainland China (Li et al., 2008b)).

Cryptocarya howii C. K. Allen, J. Arnold Arbor. 23: 458, 1942 (accepted name: *Cryptocarya metcalfiana*, endemic to Hainan (Li et al., 2008c)).

- Machilus cicatricosa* S. K. Lee, Acta Phytotax. Sin. 8: 182, 1963 (also occurring in Vietnam (Wei & Van Der Werff, 2008)).
- Machilus dinganensis* S. K. Lee & F. N. Wei, Guihaia 4: 94, 1984 (also occurring in mainland China and Vietnam (Wei & Van Der Werff, 2008)).
- Machilus lohuiensis* S. K. Lee, Acta Phytotax. Sin. 8: 184, 1963 (also occurring in Vietnam (Wei & Van Der Werff, 2008)).
- Machilus wenchangensis* G. A. Fu & X. J. Hong, Bull. Bot. Res., Harbin 26: 2, 2004 (accepted name: *Machilus lohuiensis*, also occurring in Vietnam (Wei & Van Der Werff, 2008)).
- Neolitsea ellipsoidea* C. K. Allen, Ann. Missouri Bot. Gard. 25: 428, 1937 (also occurring in mainland China (F. N. Wei, pers. comm.)).
- Neolitsea oblongifolia* Merr. & Chun, Sunyatsenia 2: 234, 1935 (also occurring in mainland China (Huang & Van Der Werff, 2008)).

LILIACEAE

- Aspidistra hainanensis* Chun & F. C. How, Fl. Hainan. 4: 533, 1977 (also occurring in mainland China (Liang & Tamura, 2000)).
- Ophiopogon reversus* C. C. Huang, Fl. Hainan. 4: 534, 1977 (also occurring in mainland China (Chen & Tamura, 2000)).

LYTHRACEAE

- Rotala kainantensis* Masam., Trans. Nat. Hist. Soc. Taiwan 33: 251, 1943 (accepted name: *Rotala hexandra* Koehne, Bot. Jahrb. Syst. 1: 167, 1880, also occurring in mainland China, Central Asia, Taiwan, India, Indonesia, Japan, Korea, and SE Asia (Qin & Graham, 2007)).
- Sonneratia* × *hainanensis* W. C. Ko, E. Y. Chen & W. Y. Chen, Acta Phytotax. Sin. 23: 311, 1985 (this taxon is the natural hybrid *Sonneratia alba* Sm. × *S. ovata* Backer (Qin et al., 2007)).

MAGNOLIACEAE

- Magnolia albosericea* Chun & C. H. Tsoong, Acta Phytotax. Sin. 9: 117, 1964 (accepted name: *Lirianthe albosericea*, endemic to Hainan (Xia et al., 2008)).
- Manglietia albistaminea* Y. W. Law, R. Z. Zhou & X. S. Qin, Novon 16: 260, 2006 (accepted name: *Manglietia fordiana* Oliv., Hooker's. Icon. Pl. 20: 1953, 1891 var. *hainanensis* (Dandy) N. H. Xia, Fl. China 7: 58, 2008, this variety is endemic to Hainan (Xia et al., 2008)).
- Manglietia hainanensis* Dandy, J. Bot. 68: 204, 1930 (accepted name: *Manglietia fordiana* var. *hainanensis*, this variety is endemic to Hainan (Xia et al., 2008)).
- Michelia rubriflora* Y. W. Law & R. Z. Zhou, Pakistan J. Bot. 37: 559, 2005 (accepted name: *Michelia mediocris* Dandy, J. Bot. 66: 47, 1928, also occurring in mainland China and SE Asia (Xia et al., 2008)).

MALVACEAE

- Decaschistia nervifolia* Masam., Trans. Nat. Hist. Soc. Taiwan 33: 252, 1943 (accepted name: *Decaschistia mouretii* Gagnep., Notul. Syst. (Paris) 1: 79, 1909 var. *nervifolia* (Masam.) H. S. Kiu, Guihaia 14: 304, 1994, this variety is endemic to Hainan (Tang et al., 2007a)).
- Grewia concolor* Merr., Lingnan Sci. J. 14: 35, 1935 (also occurring in mainland China (Tang et al., 2007b)).
- Heritiera parvifolia* Merr., J. Arnold Arbor. 6: 137, 1925 (also occurring in India and SE Asia (Tang et al., 2007c)).
- Microcos chungii* (Merr.) Chun, Sunyatsenia 4: 196, 1940 (also occurring in mainland China and Vietnam (Tang et al., 2007b)).

MARANTACEAE

- Phrynium hainanense* T. L. Wu & S. J. Chen, Fl. Reipubl. Popularis Sin. 16(2): 162, 1981 (also occurring in mainland China, India, and Vietnam (Wu & Kennedy, 2000)).

MELASTOMATACEAE

- Medinilla hainanensis* Merr. & Chun, Sunyatsenia 2: 292, 1935 (accepted name: *Medinilla rubicunda* (Jack) Blume, Flora 14: 512, 1831, also occurring in mainland China, India, and SE Asia (Chen & Renner, 2007)).
- Osbeckia kainantensis* Masam., Trans. Nat. Hist. Soc. Taiwan 33: 253, 1943 (accepted name: *Osbeckia chinensis* L., Sp. Pl. 1: 345, 1753, also occurring in mainland China, Taiwan, Australia, India, Indonesia, Japan, and SE Asia (Chen & Renner, 2007)).
- Scorpiothyrus glabrifolius* H. L. Li, J. Arnold Arbor. 25: 34, 1944 (accepted name: *Scorpiothyrus xanthostictus*, endemic to Hainan (Chen & Renner, 2007)).
- Scorpiothyrus oligotrichus* H. L. Li, J. Arnold Arbor. 25: 34, 1944 (accepted name: *Scorpiothyrus erythrotrichus*, endemic to Hainan (Chen & Renner, 2007)).
- Scorpiothyrus xanthotrichus* (Merr. & Chun) H. L. Li, J. Arnold Arbor. 25: 35, 1944 (accepted name: *Scorpiothyrus erythrotrichus*, endemic to Hainan (Chen & Renner, 2007)).

MELIACEAE

- Aglaiia tsangii* Merr., Lingnan Sci. J. 6: 280, 1930 (accepted name: *Aglaiia lawii* (Wight) C. J. Saldanha ex Ramamoorthy in Saldanha & Nicolson, Fl. Hassan Dist.: 392, 1976, also occurring in mainland China, Taiwan, India, Indian Ocean Islands, Indonesia, Pacific Islands, and SE Asia (Peng & Pannell, 2008)).
- Munronia simplicifolia* Merr., Lingnan Sci. J. 14: 18, 1935 (accepted name: *Munronia unifoliolata* Oliv., Hooker's. Icon. Pl. 18: 1709, 1887, also occurring in mainland China and Vietnam (Peng & Bartholomew, 2008)).

MORACEAE

Taxotrophis aquifolioides W. C. Ko, Acta Phytotax. Sin. 8: 353, 1963 (accepted name: *Streblus ilicifolius* (Vidal) Corner, Gard. Bull. Singapore 19: 227, 1962, also occurring in mainland China, India, and SE Asia (Zhou & Gilbert, 2003)).

MYRSINACEAE

Ardisia chinensis Benth., Fl. Hongk.: 207, 1861 (also occurring in mainland China, Taiwan, Japan and SE Asia (Chen & Pipoly, 1996)).

Ardisia crassinervosa E. Walker, Philipp. J. Sci. 73: 86, 1940 (accepted name: *Ardisia crenata* Sims, Bot. Mag. 45: 1950, 1817 subsp. *crassinervosa* (E. Walker) C. M. Hu & J. E. Vidal, J. Trop. Subtrop. Bot. 4(4): 7, 1996, also occurring in SE Asia (Chen & Pipoly, 1996; C. M. Hu, pers. comm.)).

Ardisia crassirhiza Z. X. Li & F. W. Xing ex C. M. Hu., Bot. J. South China, 1: 9, 1992 (accepted name: *Ardisia crenata* subsp. *crassinervosa*, also occurring in SE Asia (Chen & Pipoly, 1996; C. M. Hu, pers. comm.)).

Ardisia nervosa E. Walker, Philipp. J. Sci. 73: 88, 1940 (accepted name: *Ardisia crenata* subsp. *crassinervosa*, also occurring in SE Asia (Chen & Pipoly, 1996; C. M. Hu, pers. comm.)).

MYRTACEAE

Cleistocalyx conspersipunctatus Merr. & L. M. Perry, J. Arnold Arbor. 18: 335, 1937 (accepted name: *Syzygium conspersipunctatum*, endemic to Hainan (Chen & Craven, 2007)).

Pyrenocarpa hainanensis (Merr.) H. T. Chang & R. H. Miao, Acta Sci. Nat. Univ. Sunyatseni 1975(1): 63, 1975 (accepted name: *Decaspermum hainanense*, endemic to Hainan).

Pyrenocarpa teretis H. T. Chang & R. H. Miao, Acta Sci. Nat. Univ. Sunyatseni 1975(1): 64, 1975 (accepted name: *Decaspermum teretis*, endemic to Hainan (Chen & Craven, 2007)).

Syzygium chunianum Merr. & L. M. Perry, J. Arnold Arbor. 19: 240, 1938 (also occurring in mainland China (Chen & Craven, 2007)).

Syzygium fluviatile (Hemsl.) Merr. & L. M. Perry, J. Arnold Arbor. 19: 241, 1938 (also occurring in mainland China (Chen & Craven, 2007)).

Syzygium myrsinifolium (Hance) Merr. & L. M. Perry, J. Arnold Arbor. 19: 226, 1938 (also occurring in mainland China (Chen & Craven, 2007)).

OLEACEAE

Jasminum cordatulum (L. C. Chia) L. C. Chia, Fl. Hainan. 3: 205, 576, 1974 (accepted name: *Jasminum pierreanum* Gagnep., Bull. Bot. Soc. France 80: 76, 1933, also occurring in SE Asia (Chang et al., 1996)).

- Jasminum pilosicalyx* Kobuski, J. Arnold Arbor. 20: 68, 1939 (accepted name: *Jasminum craibianum* Kerr, Bull. Misc. Inform. Kew 1938: 27, 1938, also occurring in Thailand (Chang et al., 1996)).
- Linociera hainanensis* Merr. & Chun, Sunyatsenia 5: 168, 1940 (accepted name: *Chionanthus hainanensis*, endemic to Hainan (Chang et al., 1996)).
- Linociera leucoclada* Merr. & Chun, Sunyatsenia 5: 170, 1940 (accepted name: *Chionanthus brachythyrus* (Merr.) P. S. Green, Kew Bull. 50: 326, 1995, also occurring in Vietnam (Chang et al., 1996)).
- Linociera parvilimba* Merr. & Chun, Sunyatsenia 5: 169, 1940 (accepted name: *Olea parvilimba*, endemic to Hainan (Chang et al., 1996)).
- Linociera ramiflora* (Roxb.) G. Don, Gen. Hist. 4: 52, 1837 (accepted name: *Chionanthus ramiflorus* Roxb., Fl. Ind. 1: 106, 1820, also occurring in mainland China, Taiwan, Australia, India, Nepal, Pacific Islands, and Vietnam (Chang et al., 1996)).
- Myxopyrum hainanense* L. C. Chia, Fl. Hainan. 3: 577, 1974 (accepted name: *Myxopyrum pierreii* Gagnep., Bull. Soc. Bot. France 80: 78, 1933, also occurring in SE Asia (Chang et al., 1996)).
- Osmanthus didymopetalus* P. S. Green, Notes Roy. Bot. Gard. Edinburgh 22: 536, 1958 (also occurring in mainland China (Ye et al., 2006)).
- Osmanthus hainanensis* P. S. Green, Notes Roy. Bot. Gard. Edinburgh 22: 504, 1958 (also occurring in mainland China (Xu et al., 2005)).

ORCHIDACEAE

- Ania hookeriana* (King & Pantl.) Summerh., Bot. Mag. 161: 9553, 1939 (accepted name: *Tainia penangiana* Hook. f., Fl. Brit. India 5: 820, 1890, also occurring in mainland China, Taiwan, India, and SE Asia (Chen & Wood, 2009a)).
- Bulbophyllum hastatum* T. Tang & F. T. Wang, Acta Phytotax. Sin. 12: 44, 1974 (accepted name: *Bulbophyllum depressum* King & Pantl., J. Asiat. Soc. Bengal Pt. 2 Nat. Hist. 66: 585, 1895, also occurring in mainland China, India, and SE Asia (Chen & Vermeulen, 2009)).
- Ceratostylis caespitosa* (Rolfe) T. Tang & F. T. Wang, Acta Phytotax. Sin. 1: 87, 1951 (accepted name: *Ceratostylis hainanensis*, endemic to Hainan (Chen & Wood, 2009b)).
- Dendrobium changjiangense* S. J. Cheng & C. Z. Tang, Acta Phytotax. Sin. 18: 98, 1980 (accepted name: *Oxystophyllum changjiangense*, endemic to Hainan (Chen & Wood, 2009c)).
- Didymoplexiella hainanensis* X. H. Jin & S. C. Chen, Novon 14: 176, 2004 (accepted name: *Didymoplexiopsis khiriwongensis* Seidenfaden, Contr. Orchid Fl. Thailand 13: 13, 1997, also occurring in Thailand and Vietnam (Chen et al., 2009a)).
- Eria bulbophylloides* T. Tang & F. T. Wang, Acta Phytotax. Sin. 12: 42, 1974 (accepted name: *Campanulorchis thao* (Gagnep.) S. C. Chen & J. J. Wood, Fl. China 25: 346, 2009, also occurring in Vietnam (Chen et al., 2009c)).
- Eria hainanensis* Rolfe, J. Linn. Soc. Bot. 36: 16, 1903 (accepted name: *Dendrolirium tomentosum* (J. König) S. C. Chen & J. J. Wood, Fl. China 25:

- 350, 2009, also occurring in mainland China, India, and SE Asia (Chen et al., 2009d)).
- Hetaeria hainanensis* T. Tang & F. T. Wang, Acta Phytotax. Sin. 12: 35, 1974 (accepted name: *Hetaeria anomala* Lindl., J. Proc. Linn. Soc. Bot. 1: 185, 1857, also occurring in Taiwan, India, and SE China (Chen et al., 2009b)).
- Liparis subplicata* T. Tang & F. T. Wang, Acta Phytotax. Sin. 12: 40, 1974 (accepted name: *Liparis bootanensis* Griff., Not. Pl. Asiat. 3: 278, 1851, also occurring in Taiwan, India, Indonesia, Japan, and SE China (Chen et al., 2009e)).
- Phalaenopsis hainanensis* T. Tang & F. T. Wang, Acta Phytotax. Sin. 12: 47, 1974 (also occurring in mainland China and Vietnam (Chen & Wood, 2009d)).
- Schoenorchis hainanensis* (Rolfe) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 1: 986, 1913 (accepted name: *Schoenorchis gemmata* (Lindl.) J. J. Sm., Natuurk. Tijdschr. Ned.-Indië. 72: 100, 1912, also occurring in mainland China, India, and SE Asia (Chen & Wood, 2009e)).
- Thrixspermum austrosinense* T. Tang & F. T. Wang, Acta Phytotax. Sin. 12: 46, 1974 (accepted name: *Thrixspermum annamense* (Guillaum.) Garay, Bot. Mus. Leaflet. 23: 206, 1972, also occurring in mainland China, Taiwan, and SE Asia (Chen & Wood, 2009f)).
- Thrixspermum hainanense* (Rolfe) Schltr., Orchis 5: 55, 1911 (accepted name: *Thrixspermum centipeda* Lour., Fl. Cochinch. 2: 520, 1790, also occurring in mainland China, India, Indonesia, and SE Asia (Chen & Wood, 2009f)).
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PANDANACEAE

- Pandanus austrosinensis* T. L. Wu, Fl. Hainan. 4: 535, 1977 (also occurring in mainland China Sun & DeFilippis, 2009)).

PENTAPHYLACACEAE

- Cleyera obscurinervia* (Merr. & Chun) Hung T. Chang, Acta Sci. Nat. Univ. Sunyatseni 5(2): 28, 1959 (also occurring in mainland China (Min & Bartholomew, 2007)).
- Eurya cuneata* Kobuski, Ann. Missouri Bot. Gard. 25: 317, 1938 (also occurring in Vietnam (Min & Bartholomew, 2007)).

PINACEAE

- Pinus massoniana* Lamb., Descr. Pinus 1: 17, 1803 (also occurring in mainland China (Fu et al., 1999)).

POACEAE

- Arthraxon hainanensis* Y. L. Keng & S. L. Chen, Fl. Hainan. 4: 538, 1977 (accepted name: *Arthraxon castratus* (Griff.) Bor, Fl. Assam 5: 376, 1940, also occurring in Australia, India, and SE Asia (Chen & Phillips, 2006a)).

- Arundinaria hirtivaginata* W. T. Lin, Bull. Bot. Res., Harbin 12: 354, 1992 (accepted name: *Pseudosasa hindsii* (Munro) S. L. Chen & G. Y. Sheng ex T. G. Liang, Fujian Bamboos: 142, 1987, also occurring in mainland China (Chu et al., 2006)).
- Bambusa austrosinensis* N. H. Xia, J. Trop. Subtrop. Bot. 1(1): 8, 1993 (accepted name: *Bambusa remotiflora* (Kuntze) L. C. Chia & H. L. Fung, Acta Phytotax. Sin. 18: 214, 1980, also occurring in mainland China and Vietnam (Ohrnberger, 1999; Li & Stapleton, 2006)).
- Digitaria heterantha* (Hook. f.) Merr., Enum. Philipp. Fl. Pl. 1: 54, 1923 (also occurring in mainland China, Taiwan, Indonesia, and SE Asia (Chen & Phillips, 2006b)).
- Eragrostis pulchra* S. C. Sun & H. Q. Wang, Acta Phytotax. Sin. 19: 511, 1981 (accepted name: *Eragrostis multicaulis* Steud., Syn. Pl. Glumac. 1: 426, 1854, also occurring in mainland China, India, Japan, and SE Asia (Chen & Peterson, 2006)).
- Eulalia nana* Y. L. Keng & S. L. Chen, Fl. Hainan. 4: 539, 1977 (accepted name: *Polytrias indica* (Houtt.) Veldkamp Blumea 36: 180, 1991 var. *nana* (Y. L. Keng & S. L. Chen) S. M. Phillips & S. L. Chen, Novon 15: 470, 2005, this variety is endemic to Hainan (Chen & Phillips, 2006c)).
- Garnotia maxima* Santos, Nat. Appl. Sci. Bull. Univ. Philipp. 10: 89, 1950 (accepted name: *Garnotia patula* (Munro) Benth., Fl. Hongk.: 416, 1861, also occurring in mainland China and Vietnam (Wu & Phillips, 2006)).
- Hymenachne insulicola* (Steud.) L. Liu, Fl. Reipubl. Popularis Sin. 10(1): 298, 1990 (accepted name: *Panicum auritum* Nees, Fl. Bras. Enum. Pl. 2: 176, 1829, also occurring in mainland China, Indonesia, India, and SE Asia (Chen & Renvoize, 2006)).
- Indocalamus pseudosinicus* McClure, Sunyatsenia 6: 37, 1941 (also occurring in mainland China (Wang & Stapleton, 2006)).
- Lingnania fimbriligulata* McClure, Lingnan Univ. Sci. Bull. 9, 35, 1940 (accepted name: *Bambusa remotiflora* Kuntze, Rev. Gen. Pl.: 760, 1891, also occurring in mainland China and Vietnam (Li & Stapleton, 2006)).
- Monocladus levigatus* L. C. Chia, H. L. Fung & Y. L. Yang, Acta Phytotax. Sin. 26: 216, 1988 (accepted name: *Bonia levigata*, endemic to Hainan (Xia & Stapleton, 2006)).
- Urochloa cordata* S. L. Chen & Y. X. Jin., Acta Phytotax. Sin. 22: 472, 1984 (accepted name: *Urochloa setigera* (Retzius) Stapf in Prain, Fl. Trop. Africa 9: 598, 1920, also occurring in mainland China, India, Nepal, and SE Asia (Chen & Phillips, 2006d)).
- Species of uncertain status
- Bambusa concava* W. T. Lin, J. Bamboo Res. 16(3): 24, 1997 (description based on sterile material).
- Dinochloa orenuda* McClure, Lingnan Univ. Sci. Bull. 9: 18, 1940 (description based on sterile material).
- Dinochloa puberula* McClure, Lingnan Univ. Sci. Bull. 9: 19, 1940 (description based on sterile material).
- Dinochloa utilis* McClure, Lingnan Univ. Sci. Bull. 9: 20, 1940 (description based on sterile material).

- Sasa hainanensis* C. D. Chu & C. S. Chao, Acta Phytotax. Sin. 18: 31, 1980 (description based on sterile material).
Semiarundinaria shapoensis McClure, Lingnan Univ. Sci. Bull. 9: 54, 1940 (description based on sterile material).

POLYGALACEAE

- Polygala insularis* C. Y. Wu & S. K. Chen, Acta Bot. Yunnan. 2: 80, 1980 (accepted name: *Polygala wuzhishanensis*, endemic to Hainan (Chen et al., 2008b)).

RHAMNACEAE

- Smythea nitida* Merr., J. Arnold Arbor. 6: 136, 1925 (accepted name: *Ventilago leiocarpa* Benth., J. Proc. Linn. Soc. Bot. 5: 77, 1861, also occurring in mainland China, India, and SE Asia (Chen & Schirarend, 2007)).
Ziziphus laui Merr., Lingnan Sci. J. 14: 32, 1935 (also occurring in Vietnam (Chen & Schirarend, 2007)).

RUBIACEAE

- Adina hainanensis* F. C. How, Sunyatsenia 6: 240, 1946 (accepted name: *Pertusadina metcalfii* (H. L. Li) Y. F. Deng & C. M. Hu, Blumea 51: 559, 2006, also occurring in mainland China and Thailand (Govaerts et al., 2009)).
Argostemma saxatile Chun & F. C. How, Fl. Hainan. 3: 578, 1974 (also occurring in mainland China (Chen & Zhu, 2009)).
Canthium spinosissimum Merr., Lingnan Sci. J. 11: 56, 1932 (accepted name: *Fagerlindia depauperata* (Drake) Tirveng., Nordic J. Bot. 3: 458, 1983, also occurring in mainland China and Vietnam (Chen & Zhu, 2009)).
Hedyotis ampliflora Hance, J. Bot. 17: 11, 1879 (also occurring in Vietnam (Govaerts et al., 2009)).
Hedyotis obliquinervis Merr., Lingnan Sci. J. 14: 56, 1935 (also occurring in mainland China (Chen & Zhu, 2009)).
Hedyotis ovata Maxim., Bull. Acad. Imp. Sci. Saint-Petersbourg 29: 161, 1883 (also occurring in Vietnam (Chen & Zhu, 2009)).
Ixora effusa Chun & F. C. How, Fl. Hainan. 3: 580, 1974 (also occurring in mainland China (Chen & Zhu, 2009)).
Morinda officinalis F. C. How, Acta Phytotax. Sin. 7: 326, 1958 (also occurring in mainland China (Chen & Zhu, 2009)).
Oldenlandia cryptantha (Dunn) Chun, Sunyatsenia 1: 311, 1934 (accepted name: *Hedyotis cryptantha*, endemic to Hainan (Chen & Zhu, 2009)).
Oldenlandia hainanensis Chun, Sunyatsenia 1: 311, 1934 (accepted name: *Hedyotis hainanensis*, endemic to Hainan (Chen & Zhu, 2009)).
Oldenlandia paridifolia (Dunn) Chun, Sunyatsenia 1: 313, 1934 (accepted name: *Hedyotis paridifolia*, endemic to Hainan (Chen & Zhu, 2009)).

- Ophiorrhiza hainanensis* Y. C. Tseng, Fl. Hainan. 3: 582, 1974 (accepted name: *Ophiorrhiza nutans* C. B. Clarke in Hook., Fl. Brit. India 3: 84, 1880, also occurring in mainland China and Himalayas (Govaerts et al., 2009)).
- Oxyceros rectispina* (Merr.) T. Yamaz., J. Jap. Bot. 45: 340, 1970 (accepted name: *Benkara rectispina*, endemic to Hainan (C. Taylor, pers. comm.)).
- Paederia stenobotrya* Merr., Lingnan Sci. J. 11: 57, 1932 (also occurring in mainland China (R. J. Wang, pers. comm.)).
- Psychotria laui* Merr. & F. P. Metcalf, Lingnan Sci. J. 16: 403, 1937 (accepted name: *Cephaelis laui* (Merr. & F. P. Metcalf) F. C. How & W. C. Ko, Fl. Hainan 3: 1974, also occurring in Vietnam (Chen & Zhu, 2009)).
- Randia hainanensis* Merr., Lingnan Sci. J. 11: 58, 1932 (accepted name: *Oxyceros griffithii* (Hook. f.) W. C. Chen, Fl. Reipubl. Popularis Sin. 71(1): 346, 1999, also occurring in mainland China (Chen & Zhu, 2009)).
- Randia merrillii* Chun, Sunyatsenia 2: 46, 1934 (accepted name: *Aidia cochinchinensis* Lour., Fl. Cochinch. 1: 143, 1790, also occurring in mainland China, Taiwan, SE Asia, and Pacific Islands (Chen & Zhu, 2009 (as *Aidia merrillii* (Chun) Tirveng., Adansonia Sér. 4, 8: 271, 1987))).
- Randia rectispina* Merr., Lingnan Sci. J. 14: 60, 1935 (accepted name: *Benkara rectispina*, endemic to Hainan (Govaerts et al., 2009)).
- Saprosma crassipes* H. S. Lo, Bot. J. South China 2: 15, 1993 (also occurring in mainland China (Chen & Zhu, 2009)).
- Spiradiclis hainanensis* H. S. Lo, Acta Bot. Yunnan. 9: 301, 1987 (also occurring in mainland China (C. Taylor, pers. comm.)).
- Tarenna lancilimba* W. C. Chen, Acta Phytotax. Sin. 22: 141, 1984 (also occurring in mainland China and Vietnam (Chen & Zhu, 2009)).
- Tarenna tsangii* Merr., Lingnan Sci. J. 11: 59, 1932 (also occurring in mainland China (Chen & Zhu, 2009)).
- Tsiangia hongkongensis* (Seem.) But, H. H. Hsue & P. T. Li, Blumea 31: 311, 1986 (accepted name: *Ixora chinensis* Lam., Encycl. 3: 344, 1789, also occurring in mainland China and SE Asia (Govaerts et al., 2009)).

RUTACEAE

Murraya microphylla (Merr. & Chun) Swingle, J. Wash. Acad. Sci. 32: 26, 1942 (also occurring in mainland China (Zhang & Hartley, 2008)).

Species of uncertain status:

Fortunella bawangica C. C. Huang, Guihaia 11: 8, 1991 (likely equal to *Citrus japonica* Thunb., Nova Acta Regiae Soc. Sci. Upsal. 3: 208, 1780 (Zhang & Mabberley, 2008)).

SAPINDACEAE

Amesiodendron chinense (Merr.) Hu, Bull. Fan Mem. Inst. Biol. 7: 209, 1936 (also occurring in mainland China and SE Asia (Xia & Gadek, 2007)).

Aphania oligophylla (Merr. & Chun) H. S. Lo, Fl. Hainan. 3: 573, 1974 (accepted name: *Lepisanthes oligophylla*, endemic to Hainan (Xia & Gadek, 2007)).

Otophora unilocularis (Leenh.) H. S. Lo, Fl. Hainan. 3: 575, 1974 (accepted name: *Lepisanthes unilocularis*, endemic to Hainan (Xia & Gadek, 2007)).

SAPOTACEAE

Sarcosperma kachinense (King & Prain) Exell, J. Bot. 69: 100, 1931 (also occurring in mainland China and Vietnam (Lee & Pennington, 1996)).

Sarcosperma laurinum (Benth.) Hook. f. in Benth. & Hook. f., Gen. Pl. 2: 655, 1876 (also occurring in mainland China and Vietnam (Lee & Pennington, 1996)).

SCROPHULARIACEAE

Lindernia megaphylla P. C. Tsoong, Acta Phytotax. Sin. 8: 67, 1959 (also occurring in mainland China (Hong et al., 1998)).

SOLANACEAE

Solanum nienkui Merr. & Chun, Sunyatsenia 2: 318, 1935 (also occurring in Vietnam (Hop & Phuong, 2005)).

STYRACACEAE

Styrax hainanensis F. C. How, Fl. Hainan. 3: 576, 1974 (also occurring in mainland China (Huang & Grimes, 1996)).

SYMPLOCACEAE

Symplocos atriolivacea H. L. Li, J. Arnold Arbor. 25: 212, 1944 (also occurring in mainland China and Vietnam (Wu & Nootboom, 1996)).

Symplocos hainanensis H. L. Li, J. Arnold Arbor. 25: 210, 1944 (also occurring in mainland China (Wu & Nootboom, 1996)).

Symplocos maclurei Merr., Philipp. J. Sci. 23: 260, 1923 (accepted name: *Symplocos adenophylla* G. Don, Gen. Hist. 4: 3, 1837, also occurring in mainland China and SE Asia (Wu & Nootboom, 1996)).

Symplocos punctulata Masam. & Syozi, Acta Phytotax. Geobot. 12: 201, 1950 (accepted name: *Symplocos pendula* Wight, Icon. Pl. Ind. Orient. 4: 1237, 1848, also occurring in India and Malaysia (Wu & Nootboom, 1996)).

THEACEAE

Gordonia hainanensis Hung T. Chang, Acta Sci. Nat. Univ. Sunyatseni 22(2): 111, 1983 (accepted name: *Polyspora hainanensis*, endemic to Hainan (Min & Bartholomew, 2007)).

Parapyrenaria multisejala (Merr. & Chun) Hung T. Chang, Acta Sci. Nat. Univ. Sunyatseni 1979(3): 74, 1979 (accepted name: *Pyrenaria jonquieriana* Lanessan, Pl. Util. Col. Franc.: 295, 1886 subsp. *multisejala* (Merr. & Chun) S. X. Yang,

Novon 15: 380, 1950, this subspecies is endemic to Hainan (Min & Bartholomew, 2007)).

Tutcheria ovalifolia H. L. Li, J. Arnold Arbor. 25: 209, 1944 (accepted name: *Pyrenaria microcarpa* (Dunn) H. Keng, Gard. Bull. Singapore 26: 134, 1972 var. *ovalifolia* (H. L. Li) T. L. Ming & S. X. Yang, Chin. J. Appl. Environm. Biol. 3: 287, 1997, also occurring in mainland China and Taiwan (Min & Bartholomew, 2007)).

URTICACEAE

Laportea hainanensis Merr. & F. P. Metcalf, Lingnan Sci. J. 16: 189, 1937 (accepted name: *Dendrocnide stimulans* (L. f.) Chew, Gard. Bull. Singapore 21: 206, 1965, also occurring in mainland China, Taiwan, and SE Asia (Chen et al., 2003)).

Pilea tsiangiana F. P. Metcalf, Lingnan Sci. J. 15: 633, 1936 (also occurring in mainland China and Vietnam (Chen & Monro, 2003)).

VITACEAE

Cayratia papillata (Hance) Merr. & Chun, Sunyatsenia 5: 118, 1940 (accepted name: *Tetrastigma papillatum* (Hance) C. Y. Wu, Chin. J. Appl. Environm. Biol. 1: 312, 1995, also occurring in mainland China (Ren & Wen, 2007a)).

Parthenocissus subferruginea Merr. & Chun, Sunyatsenia 5: 120, 1940 (accepted name: *Cissus repanda* Vahl, Symb. Bot. 3: 18, 1794 var. *subferruginea* (Merr. & Chun) C. L. Li, Chin. J. Appl. Environm. Biol. 2: 49, 1996, this variety is endemic to Hainan Island (Ren & Wen, 2007b)).

Tetrastigma cauliflorum Merr., Lingnan Sci. J. 11: 48, 1932 (also occurring in mainland China, Laos, and Vietnam (Ren & Wen, 2007a)).

Tetrastigma hainanense Chun & F. C. How., Acta Phytotax. Sin. 7: 65, 1958 (accepted name: *Tetrastigma papillatum* (Hance) C. Y. Wu, Chin. J. Appl. Environm. Biol. 1: 312, 1995, also occurring in mainland China (Ren & Wen, 2007a)).

ZINGIBERACEAE

Amomum longiligulare T. L. Wu, Fl. Hainan. 4: 533, 1977 (also occurring in Vietnam (Govaerts, 2003b)).

Amomum longipetiolatum Merr., Lingnan Sci. J. 11: 40, 1932 (also occurring in mainland China (Wu & Larsen, 2000)).

Hornstedtia hainanensis T. L. Wu & S. J. Chen, Acta Phytotax. Sin. 16: 38, 1978 (also occurring in mainland China (Wu & Larsen, 2000)).

UNPUBLISHED NAMES ATTRIBUTED TO HAINAN ISLAND ENDEMIC

Although the following two species were reported as endemic to Hainan by Wu et al. (1994), we have not been able to locate their original descriptions.

Distylium rigidifolium Hung T. Chang (Hamamelidaceae).

Syzygium intermediiforme Hung T. Chang & R. H. Miao (Myrtaceae).