

WILHELM PETERMANN and the Oriental Spruce.

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ABSTRACT: Consideration of the works of the Leipzig botanist, WILHELM PETERMANN (1806-1855), shows that the correct authority for the oriental spruce is *Picea orientalis* (L.) PETERM. (1838-45), while two Indomalaysian plant names are correctly *Cayratia roxburghii* GAGNEP. (1911) and *Knema glauca* (BLUME) PETERM. (1838-45).

KEYWORDS: WILHELM PETERMANN, *Picea*, *Cayratia*, *Knema*.

PETERMANN's Das Pflanzenreich

When re-checking the synonymy of species of Asiatic Meliaceae for regional floras, I became aware that *Milnea racemosa* (a synonym of *Aglaia edulis* (ROXB.) WALL.) was first published by WILHELM PETERMANN (1806-1855), Professor of Botany at Leipzig, in his **Das Pflanzenreich** (1838-45; 'ed. 2' 1847 reprinted 1857) and that this had previously been disregarded. The first edition appeared in 50 parts but no precise details of publication are recorded, though internal evidence provides some information, e. g. the genus *Cassiphora* RCHB. (July 1841) is mentioned on p. 547, putting this and the rest (at least) of the book July 1841-1845. Elsewhere in PETERMANN's writings there is more evidence, e. g. in his **Flora des Bienitz** (1841) there is reference to the entry *Vignea* in his **Das Pflanzenreich** (p. 150), indicating that at least pp. 1-150 appeared before that. *Milnea racemosa* (p. 937) is 1841 - 5.

The novelties in **Flora des Bienitz** and PETERMANN's other writings have received more attention than has the monumental **Das Pflanzenreich** and appear in **Index kewensis** and elsewhere, though in his **Flora lipsiensis excursoria** (1838) the unlisted new name, *Picea excelsa* appears validly published for the first time (see below).

The Oriental Spruce

In preparing a new edition of **The Plant-book** (ed. 2, 1997), then, it seemed worthwhile to check whether any names in current use were first published by Petermann. Indeed there are, and another *Picea* name is of importance. The binomial, *P. orientalis*, the current name for the Oriental or Caucasian Spruce, was published on p. 235 of **Das Pflanzenreich**, at least two years before the usually accepted authority, LINK (1847). All 45 names first published in **Das Pflanzenreich** are listed in the Appendix.

Cissus roxburghii again

Besides *Picea orientalis*, the only name in current use is *Knema glauca* (Myristicaceae), but PETERMANN's *Cissus roxburghii* raises a minor problem in a currently accepted species name in *Cayratia* (Vitaceae), *C. roxburghii*. *Cissus roxburghii* was published on the addenda page, presumably many parts after the text to which it refers:

Cissus roxburghii PETERM. Pflanzenreich: 1011 (1845), based on '*C. latifolia* ROXB.' of p. 636, i. e. *Vitis latifolia* ROXB. (*C. latifolia* (ROXB.) PETERM. l. c. [*non C. latifolia* LAM. ('L.') of the same article]) = *Ampelocissus latifolia* (ROXB.) PLANCH.

But *C. roxburghii* PETERMANN (1845) antedates *C. roxburghii* PLANCH. (1887), which has been considered to be the basionym for *Cayratia roxburghii* (SHETTY & SINGH 1989). Now the binomial in *Cayratia* must be considered a *nomen novum* (with the same type). SHETTY & SINGH considered the type of *Cissus roxburghii* PLANCH. to be that of *Vitis roxburghii* LAWSON (*non* WIGHT & ARN. 1833) and designated a *Wight* sheet at E 'lectotype' though LAWSON (who was working at Oxford where he was Professor of Botany) in HOOK. f., Fl. Brit. India 1: 655 (1875) discusses the specimen in WIGHT's own herbarium, which is preserved at Kew.

Conclusion

The correct citations for affected names in current use are therefore as follows:

Cayratia roxburghii GAGNEP. in Not. Syst. 1: 346 (1911, Vitaceae)

Knema glauca (BLUME) PETERM. Pflanzenreich: 294 (1838-45); WARB., Mon. Myrist.: 594 (1897, Myristicaceae)

Picea orientalis (L.) PETERM. Pflanzenreich: 235 (1838-45); LINK in Linnaea 20: 294 (1847, Pinaceae)

References

PETERMANN W. L. (1838-45): Das Pflanzenreich. – Eisenach, Leipzig. [Also issued with new title page but otherwise apparently unchanged ('second edition') 1847 & reprinted 1857].

SHETTY B. V. & SINGH P. (1989). Notes on Vitaceae in India and some neighbouring regions. – Kew Bull. 44: 469-478.

Appendix: list of names published for the first time in Das Pflanzenreich

The 45 validly published new names in **Das Pflanzenreich** (first edition preserved in the British Library for example) are as follows, unlisted (though *Laurentia longiflora* (= *Hippobroma longiflora* (L.) G. DON f.) was noted in *Flora malesiana* I, 6: 140, 1960) until now, none of them causing name changes or the necessity to conserve names in current use. The binomial is followed by the basionym, or locality for new species, and the page number in **Das Pflanzenreich** unless otherwise indicated:

- Agathophytum ambrosioides* (*Chenopodium a.*) 745, t. 226 fig. 1
A. anthelminticum (*Chenopodium a.*) 746
Ballota porrigens (Germany) 466
Batatas operculatus (*Convolvulus o.*) 497
B. purga (*Ipomoea p.*) 497 t. 132 fig. 750
Blumenbachia lateritia (*Loasa l.*) 724 t. 219 fig. 1219
Cardamine palustris (Germany) 809
Cassiphone buxifolia (*Andromeda b.*) 546
C. marylandica (*A. mariana*) 546
Cissus botria (*Botria africana*) 636
C. latifolia (*Vitis l.*) 636
C. roxburghii (*V. latifolia*) 1011
Conyza quitoc (*Pluchea q.*) 392
Cosmibuena hexandra (*Buena h.*) 345, t. 91 fig. 495
Frangula sanguinea (*Rhamnus s.*) 641
Fumaria acrocarpa (Germany) 818
Gilia densiflora (*Leptosiphon d.*) 483, t. 134 fig. 762 (possibly antedated by ENDL. (1842) of *Index Kewensis*)
Hydnocarpus edulis (*Pangium e.*) 827
H. odorata (*Chaulmoogra o.*) 827 (possibly antedated by J. VOIGT (1845))
Knema glauca (*Myristica g.*) 294
K. madagascariensis (*Myristica m.*) 295
K. odorata (*Horsfieldia o.*) 295
K. tingens (*M. tingens*) 295
K. sebifera (*Virola s.*) 295

Laurentia longiflora (*Lobelia l.*) 444, t. 118 fig. 665
Luffa moghadd (*Turio m.*) 437
Majorana heracleotica (*Origanum h.*) 455
Milnea racemosa (*Nyalelia r.*) 937
Moquilea acioa (*Acioa guianensis*) 798
Pachira fastuosa (*Carolinea f.*) 908
Pepo aurantius (*Cucurbita a.*) 438
P. farinosus (*Cucurbita f.*) 440
P. ovifer (*Cucurbita o.*) 440
P. villosus (*Cucurbita v.*) 440
Pharbitis coerulea (*Ipomoea c.*) 498 (possibly antedated by O'SHAUGNESSY (1842) of *Index kewensis*)
Phegopyrum cymosum (*Polygonum c.*) 740
P. emarginatum (*Polygonum e.*) 740
Picea cedrus (*Pinus c.*) 236
P. excelsa (*Pinus e.*) Fl. Lips. Excur. (1838) 522
P. larix (*Pinus l.*) 235
P. microcarpa (*Pinus m.*) 236
P. orientalis (*Pinus o.*) 235
Pieridia ovalifolia (*Pieris o.*) 547
Rhodothamnus camtschaticus (*Rhododendron c.*) 551 t. 156 fig. 897
Vignea disticha (*Carex d.*) 150
Xylosteum sibiricum (*Lonicera s.*) 330

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