

New taxa and new combinations in Western Australian Pittosporaceae

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Abstract

It is proposed that the genera *Marianthus* and *Billardiera* be combined under *Billardiera*. The necessary new combinations are made, and three new varieties described. Two new varieties are described in the genus *Cheiranthera*.

A new combination, using the earliest available epithet, is provided for the solitary species of *Pronaya*.

Introduction

The genera *Marianthus* and *Billardiera* are here combined under *Billardiera*. These genera have been distinguished by former workers on their fruit which in *Billardiera* is a berry and in *Marianthus* is a capsule. This division does not appear to be a natural one since a separation based on floral characters would provide a quite different arrangement of species. The use of fruit characters for delimiting these two genera also makes impossible the ready identification of flowering material, as an examination of the ovary provides no clue to its future form and in fact several species have been, and continue to be, incorrectly placed.

In addition two new varieties of *Cheiranthera* are described, one in each of the two species which occur in Western Australia.

In *Pronaya*, the name *P. elegans* Hueg., which has been in common use, is antedated by the name *Spiranthera fraseri* Hook. and a new combination is made accordingly.

Species have been accepted after consulting type specimens, descriptions and dates of publication, occasionally resulting in the changing of previously accepted names.

These new combinations and varieties are being published prior to a revision of the Western Australian species of *Pittosporaceae* in a forthcoming Flora part.

Billardiera

Billardiera Sm., Spec. Bot. Nov. Holl. 1:t.1 (1793). Type: *B. scandens* Sm.

Labillardiera Roem. et Schult., Syst. Veg. 5:330 (1819). nom. illeg. based on above.

Marianthus Hueg. ex Endl., Enum. Pl. Hueg. 8 (1837). Type: *M. candidus* Hueg. ex Endl.

Oncosporum Putterl. in Endl. et Fenzl., Nov. Stirp. Dec. 9 (1839). Type: *C. bicolor* Putterl.

Calopetalon J. Drumm. ex Harv., Hooker's Journ. Bot. Kew Gard. Misc. 7:52 (1855). Type: *C. ringens* J. Drumm. ex Harv.

Cyathomiscus Turcz., Bull. Soc. Imp. Nat. Mosc. 36/1:562 (1863). Type: *C. cuneatum* Turcz.

Billardiera laxiflora (Benth.) E. M. Bennett comb. nov.

Marianthus ? *laxiflorus* Benth., Fl. Austral. 1:119 (1863). Lectotype: Herb. Mueller, Porongurup Range, W. Australia, (holo:MEL).

Billardiera gracilis Diels, Bot. Jahrb. 35:213 (1904). Type: King George Sound, Diels 2259 and Pritzel 252 (syn:PERTH).

Billardiera villosa (Turcz.) E. M. Bennett comb. nov.

Oncosporum villosum Turcz., Bull. Soc. Imp. Nat. Mosc. 27:365 (1854).

Type: Western Australia, *Drummond* 5th Coll., n.242 (iso:MEL).

Oncosporum microphyllum Turcz., loc. cit. Type: not given.

Marianthus microphyllum (Turcz.) Benth., Fl. Austral. 1:117 (1863).

M. rhytidosporus F. Muell., Fragm. 2:145 (1861). Type: Near Esperance Bay, W. Australia, *Maxwell* (holo:MEL).

Billardiera granulata (Turcz.) E. M. Bennett comb. nov.

Oncosporum granulatum Turcz., Bull. Soc. Imp. Nat. Mosc. 27:366 (1854).

Type: Western Australia, *Drummond* 3rd Coll., n.210 (iso:W).

Marianthus granulatus (Turcz.) Benth., Fl. Austral. 1:118 (1863).

M. parviflorus F. Muell., Fragm. 2:144 (1861). Type: Porongurup Range, W. Australia, *Maxwell* (holo:MEL).

Billardiera candida (Hueg. ex Endl.) E. M. Bennett comb. nov.

Marianthus candidus Hueg. ex Endl., Enum. Pl. Hueg. 8 (1837).

Type: Western Australia, *Huegel* (holo:W).

Billardiera coeruleo-punctata (Klotsch) E. M. Bennett comb. nov.

Marianthus coeruleo-punctatus Klotsch in Link, Klotsch et Otto, Ic. Pl. Rar. 28 t. 12 (1840). Lectotype: Western Australia, 1839, *Drummond* (iso:W).

Pronaya pedunculosa Turcz., Bull. Soc. Nat. Mosc. 36:560 (1863).

Type: Western Australia, 1839, *J. Drummond* (holo:W).

Billardiera drummondiana (Putterl.) E. M. Bennett comb. nov.

Oncosporum drummondianum Putterl. in Lehm., Pl. Preiss. 1:194 (1844).

Lectotype: Western Australia, *Preiss* 1288 (holo:W).

Marianthus drummondianus (Putterl.) Benth., Fl. Austral. 1:119 (1863).

Billardiera dorrienii Domin. Mém.Soc.Sc.Bohême 2:24 (1923) (holo:K, photo seen).

B. drummondiana var. *collina* E. M. Bennett var. nov. (*L. collinus*—occurring on hills)

Folia, caules, calyces et pedicelli dense hirsuti pilis longis unicellulosis etiam breves multicellulosas. Pedicelli 4-10 (15) mm longi.

Type: Bushmead-Kalamunda area, W. Australia, 19 Sep. 1966, *F. W. Humphreys* 24, (holo:PERTH).

Leaves stems, calyces and pedicels densely hirsute with long unicellular and short multicellular hairs. Pedicels 4-10(15) mm long.

The typical variety differs from var. *collina* in having only unicellular hairs scattered on the leaves, stems and calyces and in having long pedicels. It is found around Cranbrook and Manjimup while var. *collina* is found in the Darling Ranges.

Billardiera bicolor (Putterl.) E. M. Bennett comb. nov.

Oncosporum bicolor Putterl. in Endl. et Fenzl., Nov. Stirp. Dec. 9 (July 1839). Type: Western Australia, *Huegel* (n.v.).

Marianthus pictus Lindl., Sketch Veg. Swan Riv. Col. 22 (Dec. 1839).

Type: Western Australia (holo:CGE, photo seen).

B. bicolor var. *lineata* (F. Muell.) E. M. Bennett comb. et stat. nov.

M. lineatus F. Muell., Fragm. 1:27 (1859). Type: Murchison River, W. Australia, *F. Mueller*. (holo:MEL; iso:W).

In var. *lineata*, the pedicel is stout, the corymbs are shorter than or just exceed the leaves and the capsule is cartilaginous. The typical variety has a slender pedicel, corymbs which exceed the leaves and a crustaceous capsule.

Billardiera erubescens (Putterl.) E. M. Bennett comb. nov.

Marianthus erubescens Putterl. in Endl. et Fenzl., Nov. Stirp. Dec. 60 (1839). *Type*: Western Australia, 1837, *Roe* (holo:W).

M. purpureus Turcz., Bull. Soc. Nat. Mosc. 27:364 (1854). *Type*: Western Australia, *J. Drummond* 4th Coll., n.96, (n.v.).

Billardiera ringens (Drumm. ex Harv.) E. M. Bennett comb. nov.

Calopetalon ringens Drumm. ex Harv., Hooker's Journ. Bot. Kew Garden. Misc. 7:52 (1855). *Type*: Chapman, W. Australia, *J. Drummond* (n.v.).

Marianthus ringens (Drumm. ex Harv.) F. Muell., Fragm. 1:218 (1859).

Billardiera sericea (Turcz.) E. M. Bennett comb. nov.

Pronaya sericea Turcz., Bull. Soc. Imp. Nat. Mosc. 27:363 (1854).

Type: Western Australia, *J. Drummond* 4th Coll., n.97 (iso:MEL).

Billardiera parviflora DC., Prodr. 1:346 (1824).

Type: Western Australia, *Leschenault* (holo:G-DC).

Marianthus tenuis Benth., Fl. Austral. 1:119 (1863). *Syntypes*: Flinders Bay, W. Australia, *Collie* (K, MEL); Geographe Bay, *Leschenault* (n.v.); Cape Naturaliste, *Oldfield* (n.v.).

M. gracilis Ostenf., Dansk. Vidensk. Selsk. Biol. Medd. 312:67 Pl. 9. (1921). *Type*: Yallingup Cave, 26 Sept. 1914, *Ostenfeld* 1018. (n.v.)

B. parviflora var. *guttata* E. M. Bennett var. nov. (*L. guttatus*—spotted)

Petala caesia, fauce atro-cyaneo-maculata.

Type: Armadale-Jarrahdale, W. Australia, 3 Aug. 1960, *F. C. J. Lullfitz* (holo:PERTH).

The var. *guttata* differs from the typical variety in the petals having dark blue spots in the throat. It occurs in the southern areas of the Darling Range whereas the typical variety is found near Augusta.

Cheiranthera

Cheiranthera preissiana Putterl. in Lehm., Pl. Preiss. 1:201 (1845).

Type: York, *Preiss* 1291 (iso:MEL).

C. parviflora Benth., Fl. Austral. 1:128 (1863). *Type*: Western Australia, *J. Drummond* n.34 and 80 (syn:MEL).

C. preissiana var. *planifolia* E. M. Bennett var. nov. (*L. planus, folium*—flat leaved)

Folia linearia, plana, glabra vel pilis sparsis. Surculi et folia juvenes pilis sparsis.

Type: Nornalup, W. Australia, *E. M. Bennett* 3184, 19 Jan. 1970 (holo:PERTH).

Leaves linear, flat, glabrous or with scattered hairs. Young shoots and leaves with scattered hairs.

The typical variety differs from var. *planifolia* in having ovate, pubescent leaves.

Cheiranthera filifolia Turcz., Bull. Soc. Nat. Mosc. 27:364 (1854).

Type: Western Australia, *Drummond* 4th Coll. n.94, (iso:MEL).

C. tortilis F. Muell., Fragm. 2:79 (1860). *Type*: South-west of Western Australia, *F. Mueller* (n.v.).

C. filifolia var. **brevifolia** (F. Muell.) Benth., Fl. Austral. 1:128 (1863).

C. brevifolia F. Muell., Fragm. 1:97 (1858). Type: Phillips Range, F. Mueller (holo:MEL).

C. filifolia var. **simplicifolia** E. M. Bennett var. nov. (*L. simplex*, *folium*—simple leaved)

Folia plana, linearia, acuminata.

Type: Pindar, W. Australia, C. A. Gardner 7766 (holo:PERTH).

Leaves flat, linear, acuminate.

This variety differs from the typical variety and from var. *brevifolia* (F. Muell.) Benth. in having flat leaves. The other two varieties have terete, canaliculate leaves.

Pronaya

Pronaya fraseri (Hook.) E. M. Bennett comb. nov.

Spiranthera fraseri Hook., Bot. Mag. 63, sub tab. 3253 (1836).

Type: Western Australia, Fraser (n.v.).

Campylanthera fraseri (Hook.) Hook., Icones Pl. 1: tab. 82 (Mar. 1837).

Pronaya speciosa Endl., in Endl. et al., Enum. Pl. Huegel: 9 (April 1837).

Type: King George Sound, W. Australia, Ferd. Bauer (holo: W).

Pronaya elegans Hueg., Bot. Archiv. tab. 6 (April-May 1837).

Type: Western Australia, F. Bauer (n.v.). *Billardiera elegans* (Hueg.) F. Muell., Pl. Indig. Col. Vict. 1: 78 (1862).

P. fraseri var. **minor** (Benth.) E. M. Bennett comb. nov.

Pronaya elegans Hueg. var. *minor* Benth., Fl. Austral. 1: 126 (1863).

Type: South coast (W. Australia), R. Brown (n.v.).