

THE TASMANIAN REPRESENTATIVES OF THE PTERIDOPHYTA

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(Communicated by Dr. Winifred Curtis)

This paper presents an enumeration and classification of the pteridophytes which are known to occur naturally in Tasmania. Authorities are cited for specific names and binomials, and publication data are set out in connection with each species. Basic synonyms are noted, and there is indicated also the manner in which each species was dealt with in the following five major botanical works:

Novae Hollandiae plantarum specimen—Part 2, by J. J. Labillardière (1806).

Prodromus Florae Novae-Hollandiae et Insulae Van Diemen, by Robert Brown (1810).

Flora Tasmaniae—Part 2, by J. D. Hooker (1860).

Flora Australiensis—Part 7, by George Bentham (1878).

The Tasmanian Flora, by Leonard Rodway (1903).

The arrangement used is that set out for the Pteridophyta in the Cambridge University publication, *A Classification of Plants* (1938), with however, the "Polypodiaceae" (as in that work) divided up into the families suggested by A. H. G. Alston in the paper entitled "The Subdivision of the Polypodiaceae" in *Taxon*. 5²: 23-25 (1956).

Neither diagnoses nor distribution data are included here, for they are available, together with illustrations of each species, in the book *Ferns of Victoria and Tasmania**, to which the present paper is complementary. [In this book however, a major part of the classification is on the lines set out by R. E. Holttum in "A revised classification of the Leptosporangiate ferns", in *Journ. Linn. Soc. London* 53: 123-158 (1947).]

The 83 local species are probably satisfactorily delimited now, but the nomenclature of some of them requires further study and some adjustment.

Division PTERIDOPHYTA

Order PSILOTALES

Family PSILOTACEAE

TMESIPTERIS Bernh.

T. BILLARDIERI Endl. *Prod. Fl. Norf.*: 6 (1833).

Based on the Tasmanian material dealt with by Labill. (*l.c.*: 105 T.252) as belonging to *T. tannensis* (Spreng.) Bernh.

* Published by the Field Naturalists Club of Victoria (Melbourne, 1955) and obtainable from the Hon. Secretary: F.N.C.V., National Herbarium, South Yarra, S.E.1. Victoria; price 7s. 6d. posted.

Treated by Hook. f. (*l.c.*: 155) as belonging to *T. forsteri* Endl., and by both Benth. (*l.c.*: 680) and Rodway (*l.c.*: 280) as belonging to *T. tannensis*, these names being used comprehensively in each case to cover all known material of the genus. [See *Vict. Nat., Melb.* 60: 142 (Jan. 1944).]

T. TUGANA H. N. Barber *Vict. Nat., Melb.* 71: 98 (Oct. 1954).

Order LYCOPODIALES

Family LYCOPODIACEAE

PHYLLOGLOSSUM Kunze

P. DRUMMONDII Kunze *Mohl et Schlecht., Bot. Ztg.* 1: 721 (1843).

LYCOPodium Rupp.

L. SCARIOSUM Forst. *Fl. Ins. Austr. Prod.*: 87 (1786).

Syn. *L. decurrens* R.Br. *l.c.*: 165.

L. DEUTERODENSUM Herter *Index Lycopod.*: 15 (1949).

Syn. *L. densum* Labill. *l.c.*: 104 T.251 fig. 1; R.Br. *l.c.*: 165; Hook. f. *l.c.*: 156; Benth. *l.c.*: 676; Rodway *l.c.*: 280; non *L. densum* Lam. (1788).

L. FASTIGIATUM R.Br. *l.c.*: 165.

Syn. *L. clavatum* var. *magellanicum* (Swartz) Hook. f. *Fl. Antarct.* 1: 113 (1844); *Fl. Tasm.* 2: 157.

L. clavatum var. *fastigiatum* (R.Br.) Benth. *l.c.*: 675; Rodway *l.c.*: 280.

L. LATERALE R.Br. *l.c.*: 165.

Including *L. diffusum* R.Br. *l.c.*: 165; Benth. *l.c.*: 675. Syn. *L. laterale* var. *diffusum* (R.Br.) Hook. f. *Fl. Nov.-Zel.* 2: 54 (1855); *Fl. Tasm.* 2: 156.

L. SELAGO L. *Sp. Pl.* 2: 1102 (1753).

It is very doubtful however whether this Australasian material is rightly identified with that of the Northern Hemisphere.

L. VARIUM R.Br. *l.c.*: 165.

Included with *L. selago* L., by Rodway (*l.c.*: 280).

L. CAROLINIANUM L. *Sp. Pl.* 2: 1102 (1753).

The recording of this species for Tasmania, by Hook. f. (*l.c.*: 170) and Benth. (*l.c.*: 675), was discredited by Rodway (*l.c.*: 280), but it was finally upheld in *Vict. Nat., Melb.* 65: 281 (Apr. 1949).

Family SELAGINELLACEAE

SELAGINELLA Beauv.

- S. ULIGINOSA (Labill). Spring *Mém. Acad. Roy. Sci., Brux.* 15: 60 (1842).
 Syn. *Lycopodium uliginosum* Labill. *l.c.*: 104 T.251 fig. 2; R.Br. *l.c.*: 165.
 S. PREISSIANA Spring *l.c.*: 61.

Family ISOËTACEAE

ISOËTES L.

- I. GUNNII A.Br. *Moatsb. Kön. Akad. Wiss., Berlin* Aug. 1868: 535 (1868).
 Listed as "*Isoëtes* sp." by Hook. f. (*l.c.*: 158).
 I. DRUMMONDII A.Br. *l.c.* 1863: 559 (1863).
 Discovered in the north of Tasmania, near George Town, since the publication of *Ferns of Victoria and Tasmania*.
 I. HUMILIOR F.Muell. ex A.Br. *Linnaea, Halle* 25: 722 (1852).
 I. ELATIOR F.Muell. ex A.Br. *l.c.*
 [All the Tasmanian material of this genus is included with the European *I. lacustris* L., by Benth. (*l.c.*: 671) and Rodway (*l.c.*: 279.)]

Order FILICALES

Family OPHIOGLOSSACEAE

OPHIOGLOSSUM L.

- O. CORIACEUM A.Cunn. Hook., *Comp. Bot. Mag.* 2: 361 (1837).
 Included with the tropical *O. gramineum* Willd., by R.Br. (*l.c.*: 163); included with the Old World *O. vulgatum* L., by Hook. f. (*l.c.*: 153 T.169) and by Benth. (*l.c.*: 688); and included with the northern *O. lusitanicum* L., by Rodway (*l.c.*: 281).

BOTRYCHIUM Swartz

- B. LUNARIA (L.) Swartz *Schrad., J. Bot., Göttingen* 1800²: 110 (1801).
 Syn. *Osmunda lunaria* L. *Sp. Pl.* 2: 1064 (1753).
 B. AUSTRALE R.Br. *l.c.*: 164.
 Included with the Asiatic *B. ternatum* (Thunb.) Swartz, by Benth. (*l.c.*: 690) and by Rodway (*l.c.*: 281); and included with the European and American *B. virginianum* (L.) Swartz, by Hook. f. (*l.c.*: 154 T.169).

Family OSMUNDACEAE

TODEA Willd.

- T. BARBARA (L.) T.Moore *Index Fil.*: cxix (1857).
 Syn. *Acrostichum barbarum* L. *Sp. Pl.* 2: 1072 (1753).
Osmunda barbara (L.) Thunb. *Prod. Fl. Cap.*: 171 (1800); R.Br. *l.c.*: 163.
Todea africana Willd. *Schr. Akad. Erf.* 1: 14 T.3 fig. 1 (1802); Hook. f. *l.c.*: 153 T.168.

Family SCHIZAEACEAE

SCHIZAEA Sm.

- S. FISTULOSA Labill. *l.c.*: 103 T.250 fig. 3.
 Included with *S. bifida* Willd., by Hook. f. (*l.c.*: 152).
 S. BIFIDA Willd. *Schr. Akad. Erf.* 1: 30 T.3 fig. 3 (1802).
 S. ASPERULA N.A.Wakefield *Vict. Nat., Melb.* 59: 89 (1942).
 The descriptions, under *S. bifida* Willd., by R.Br. (*l.c.*: 162) and by Rodway (*l.c.*: 290), apply at least in part to this species.

Family GLEICHENIACEAE

GLEICHENIA Sm.

- G. CIRCINNATA Swartz *Schrad., J. Bot., Göttingen* 1800²: 107 (1801).
 Syn. *G. dicarpa* R.Br. *l.c.*: 161; Hook. f. *l.c.*: 131; Benth. *l.c.*: 698; Rodway *l.c.*: 289.
 G. ALPINA R.Br. *l.c.*: 161.
 Syn. *G. dicarpa* var. *alpina* (R.Br.) Hook. f. *l.c.*: 131.
 Included by Benth. (*l.c.*: 698) with *G. dicarpa* R.Br. (= *G. circinnata* Swartz), and not distinguished by Rodway (*l.c.*).
 G. MICROPHYLLA R.Br. *l.c.*: 161.
 Erroneously identified as *G. circinnata* Swartz [sic], by Benth. (*l.c.*: 697) and Rodway (*l.c.*: 289).
 G. ABSCIDA Rodway *l.c.*: 289.
STICHERUS Presl
 S. TENER (R.Br.) Ching *Sunyatsenia* 5: 283 (1940).
 Syn. *Gleichenia flabellata* var. *tenera* (R.Br.) Hook. f. *l.c.*: 131; Benth. *l.c.*: 698.
 Included with the mainland Australian *S. flabellatus* (R.Br.) St John (as *Gleichenia flabellata*) by Rodway (*l.c.*: 289). This latter apparently does not occur in Tasmania, despite the recording of it for the Island by R.Br. (*l.c.*: 161), Hook. f. (*l.c.*: 131) and Benth. (*l.c.*: 698). [See *Vict. Nat., Melb.* 60: 110 (Nov. 1943).]

Family HYMENOPHYLLACEAE

The classification adopted here for this family is that of E.B.Copeland in *Philipp. J. Sci.* 67 (1938).

HYMENOPHYLLUM Sm.

- H. CUPRESSIFORME Labill. *l.c.*: 102 T.250 fig. 2.
 Syn. *H. tunbridgense* var. *cupressiforme* (Labill.) Hook. f. *l.c.*: 153.
 Included with the European and African *H. tunbridgense* (L.) Sm., by R.Br. (*l.c.*: 159), Benth. (*l.c.*: 706) and by Rodway (*l.c.*: 290).

H. PELTATUM (Poir.) Desv. *Mém. Soc. Linn., Paris* 6: 333 (1827).

Syn. *Trichomanes peltatum* Poir. *Encycl. méth. Bot.* 8: 76 (1808).

H. unilaterale Willd. *Sp. Pl. (ed. 4)* 5: 521 (1810); Hook. f. *l.c.*: 133.

H. wilsonii Hook. *Brit. Fl.* 1: 446 (1830); Rodway *l.c.*: 290.

MECODIUM Presl ex Copeland

M. FLABELLATUM (Labill.) Copeland *l.c.*: 21.

Syn. *Hymenophyllum flabellatum* Labill. *l.c.*: 101 T.250 fig. 1; Hook. f. *l.c.*: 134; Benth. *l.c.*: 705; Rodway *l.c.*: 290.

Hymenophyllum nitens R.Br. *l.c.*: 159.

M. RARUM (R.Br.) Copeland *l.c.*: 24.

Syn. *Hymenophyllum rarum* R.Br. *l.c.*: 159; Hook. f. *l.c.*: 134; Benth. *l.c.*: 705; Rodway *l.c.*: 290.

M. AUSTRALE (Willd.) Copeland *l.c.*: 24.

Syn. *Hymenophyllum australe* Willd. *Sp. Pl. (ed. 4)* 5: 527 (1810).

Erroneously identified as *Hymenophyllum flabellatum* Labill. by R.Br. (*l.c.*: 159).

Included with *Mecodium javanicum* (Bl.) Copeland, by Benth. (*l.c.*: 706) and by Rodway (*l.c.*: 290), in each case as *Hymenophyllum javanicum*; and included with *M. crispatum* (Wall. ex Hook. et Grev.) Copeland, by Hook. f. (*l.c.*: 134), as *Hymenophyllum crispatum*—both these being tropical species.

[*M. intricatum* (v.d.Bosch) Copeland *l.c.* 22—Syn. *Hymenophyllum intricatum* v.d.Bosch *Ned. kr. Arch* 5^e: 168 (1863) is unknown to the present author though Copeland listed it as endemic in Tasmania.]

CRASPEDOPHYLLUM Copeland

C. MARGINATUM (Hook. et Grev.) Copeland *l.c.*: 27.

Syn. *Hymenophyllum marginatum* Hook. et Grev. *Icon. Fil.*: T.34 (1828); Rodway *l.c.*: 290.

APTEROPTERIS Copeland

A. MALINGII (Hook.) Copeland *l.c.*: 35.

Syn. *Trichomanes malingii* Hook. *Gard. Ferns*: T.64 (1862).

Hymenophyllum malingii (Hook.) Mett. *Abh. senskenb. naturf. Wiss* 7: 489 (1864); Rodway *l.c.*: 290.

POLYPHLEBIUM Copeland

P. VENOSUM (R.Br.) Copeland *l.c.*: 55.

Syn. *Trichomanes venosum* R.Br. *l.c.*: 159; Hook. f. *l.c.*: 135; Benth. *l.c.*: 702; Rodway *l.c.*: 289.

Family CYATHEACEAE

CYATHEA Sm.

C. CUNNINGHAMII Hook. f. *Hook., Icon. Pl.*: T.985 (1854).

Included with the New Zealand *C. medullaris* (Forst.) Swartz, by Benth. (*l.c.*: 708).

C. AUSTRALIS (R.Br.) Domin *Pteridophyta*: 262 (1929).

Syn. *Alsophila australis* R.Br. *l.c.*: 158; Hook. f. *l.c.*: 132; Benth. *l.c.*: 710; Rodway *l.c.*: 289.

Family DICKSONIACEAE

DICKSONIA L'Herit.

D. ANTARCTICA Labill. *l.c.*: 100 T.249.

Family ADIANTIACEAE

ADIANTUM L.

A. AETHIOPICUM L. *Syst. Nat. (ed. X)* 2: 1329 (1759).

Syn. *A. trigonum* Labill. *l.c.*: 99 T.248 fig. 2.

A. assimile Swartz *Schrad., J. Bot., Göttingen* 1800²: 83 (1801); R.Br. *l.c.*: 155.

CHEILANTHES Swartz

C. TENUIFOLIA (Burm.) Swartz *Syn. Fil.*: 129, 332 (1806).

Syn. *Trichomanes tenuifolium* Burm. *Fl. Ind.*: 237 (1768).

PELLAEA Link

P. FALCATA (R.Br.) Fée *Gen. Fil.*: 129 (1852).

Syn. *Pteris falcata* R.Br. *l.c.*: 154; Hook. f. *l.c.*: 139; Benth. *l.c.*: 287.

Platyloma falcata (R.Br.) J.Sm. *J. Bot., London* 4: 160 (1841); Rodway *l.c.*: 287.

PTERIS L.

P. COMANS Forst. *Fl. Ins. Austr. Prodr.*: 79 (1786).

Syn. *Litobrochia comans* (Forst.) Presl *Tent. Pteridogr.*: 149 (1836); Rodway *l.c.*: 285.

P. endlicheriana Agardh *Recens. Gen. Pterid.*: 66 (1839); Hook. f. *l.c.*: 141.

P. TREMULA R.Br. *l.c.*: 154.

ANOGRAMMA Link

A. LEPTOPHYLLA (L.) Link *Fil. Sp. Cult.*: 137 (1841).

Syn. *Polypodium leptophyllum* L. *Sp. Pl.* 2: 1092 (1753).

Grammitis leptophylla (L.) Swartz *Syn. Fil.*: 23, 218 T.1 fig. 6 (1806); Benth. *l.c.*: 776.

Gymnogramma leptophylla (L.) Desv. *Berl. Mag.* 5: 305 (1811); Hook. f. *l.c.*: 151; Rodway *l.c.*: 286.

Family DENNSTAEDTIACEAE

HYPOLEPIS Bernh.

H. RUGOSULA (Labill.) J.Sm. *Bot. Mag.* 72: Compendium 8 (1846), as "*rugulosa*".

Syn. *Polypodium rugosulum* Labill. *l.c.*: 92, T.241; R.Br. *l.c.*: 147; Hook. *f. l.c.*: 149 (as "*rugulosum*").

Included with the mainland Australian and Asiatic *H. punctata* (Thunb.) Mett., by Benth. (*l.c.*: 764) and by Rodway (*l.c.*: 287)—in each case as *Polypodium punctatum*.

The Tasmanian material recorded by Hook. *f.* (*l.c.*: 138) and by Rodway (*l.c.*: 287) as belonging to the tropical *H. tenuifolia* (Forst.) Bernh., would be actually of *H. rugosula*.

H. MUELLERI N. A. Wakefield *Vict. Nat., Melb.* 60: 42 (July 1943).

The recognition of this mainland Australian species from Smithton (Specimen: Herb. Univ. Tasm.) constitutes a new record for Tasmania.

H. PUNCTATA (Thunb.) Mett. *Kuhn, Fil. Afr.*: 120 (1868).

Syn. *Polypodium punctatum* Thunb. *Fl. Jap.*: 337 (1784).

This species is included here, actually as a new record for Tasmania, on the authority of J. H. Willis of the National Herbarium of Victoria, who reports observing it near Strzelecki Peaks on Flinders Island in April 1954.

H. AUSTRALIS N. A. Wakefield *Vict. Nat., Melb.* 72: 95 (Oct. 1955).

CULCITA Presl

C. DUBIA (R.Br.) Maxon *J. Wash. Acad. Sci.* 12: 458 (1922).

Syn. *Davallia dubia* R.Br. *l.c.*: 157; Benth. *l.c.*: 716; Rodway *l.c.*: 288.

Dicksonia dubia (R.Br.) Gaudich. *Voy. Autour du Monde, Freyc.*: 367 (1827); Hook. *f. l.c.*: 132.

PTERIDIUM Scopoli

P. ESCULENTUM (Forst.) Diels *Engl. et Prantl, Nat. Pfl.* 1^a: 296 (1899).

Syn. *Pteris esculenta* Forst. *Pl. Escul.*: 74 (1786); Labill. *l.c.*: 95 T.244; R.Br. *l.c.*: 154.

Pteris aquilina var. *esculenta* (Forst.) Hook. *f. Fl. Nov.-Zel.* 2: 25 (1855); *Fl. Tasm.* 2: 139; Benth. *l.c.*: 731.

Included with the tropical and northern *P. aquilinum* (L.) Kuhn, by Rodway (*l.c.*: 284), as *Pteris aquilina*.

HISTIOPTERIS (Agardh) J.Sm.

H. INCISA (Thunb.) J.Sm. *Hist. Fil.*: 295 (1875).

Syn. *Pteris incisa* Thunb. *Prodr. Pl. Cap.*: 171 (1800); Benth. *l.c.*: 732; Hook. *f. l.c.*: 140.

Litobrochia incisa (Thunb.) Presl *Tent. Pteridogr.*: 149 (1836); Rodway *l.c.*: 285. *Pteris vespertilionis* Labill. *l.c.*: 96 T.245; R.Br. *l.c.*: 154.

Family LINDSAYACEAE

LINDSAYA Dryand. ex Sm.

L. CUNEATA (Forst.) C.Ch. *Index Fil.*: 392 (1906).

Syn. *Adiantum cuneatum* Forst. *Fl. Ins. Austr. Prodr.*: 84 (1786).

L. cuneata var. *lessonii* (Bory.) Hook. *f. l.c.*: 136.

L. trichomanoides Dryand. *Tr. Linn. Soc.* 3: 43 T.11 (1797); Benth. *l.c.*: 720; Rodway *l.c.*: 284.

L. LINEARIS Swartz *Schrad., J. Bot., Göttingen* 1800²: 78 (1801).

[The *L. lanceolata* Labill. *l.c.*: 98 T.248 fig. 1 (= *Schizoloma ensifolium* J.Sm.) was recorded in error as originating in Van Diemen's Land.]

Family DAVALLIACEAE

RUMOHRA Raddi

R. ADIANTIFORMIS (Forst.) Ching *Sinensia* 5: 70 (1934).

Syn. *Polypodium adiantiforme* Forst. *Fl. Ins. Austr. Prodr.*: 82 (1786).

Aspidium capense (L.) Willd. *Sp. Pl. (ed. 4)* 5: 267 (1810); Benth. *l.c.*: 758.

Aspidium coriaceum (Swartz) Swartz *Schrad., J. Bot., Göttingen* 1800²: 40 (1801); R.Br. *l.c.*: 148.

Polystichum coriaceum (Swartz) Schott. *Gen. Fil.*: ad T.9 (1834); Hook. *f. l.c.*: 148; Rodway *l.c.*: 288.

Family ASPLENIACEAE

ASPLENIUM L.

A. OBTUSATUM Forst. *Fl. Ins. Austr. Prodr.*: 80 (1786).

Including *A. obtusatum* var. *minor* R.Br. *l.c.*: 150, a small form considered by Labill. (*l.c.*: 93 T.242 fig. 2) to be typical of the species.

The larger material, identified by Labill. (*l.c.*: fig. 1) as *A. obliquum* Forst., is not considered separable from *A. obtusatum*.

A. FLABELLIFOLIUM Cav. *Descr. Pl.*: 257 (1802), as "*flavellifolium*".

A. TRICHOMANES L. *Sp. Pl.* 2: 1080 (1753).

A. BULBIFERUM Forst. *Fl. Ins. Austr. Prodr.*: 80 (1786).

Syn. *Caenopteris appendiculata* Labill. *l.c.*: 94 T.243.

A. laxum R.Br. *l.c.*: 151.

Including *A. bulbiferum* var. *laxum* Rodway *l.c.*: 286.

A. FLACCIDUM Forst. *Fl. Ins. Austr. Prodr.*: 80 (1786).

Including *A. bulbiferum* var. *pinnatum* Rodway and *A. bulbiferum* var. *hookerianum* Rodway, l.c.: 286.

[*A. lucidum* Forst., included doubtfully by Hook. f. (l.c.: 146), and *A. hookerianum* Colenso, are New Zealand species, neither of which is known to occur in Tasmania.]

PLEUROSORUS Fée

P. RUTIFOLIUS (R.Br.) Fée *Gen. Fil.*: 180 (1852.)

Syn. *Grammitis rutifolius* R.Br. l.c.: 146; Benth. l.c.: 775.

Gymnogramma rutifolia (R.Br.) Desv. *Mém. Soc. Linn., Paris* 6: 213 (1827); Hook. f. l.c.: 151; Rodway l.c.: 286.

Family BLECHNACEAE

BLECHNUM L.

B. PATERSONII (R.Br.) Mett. *Fil. Hort. Bot. Lips.*: 64 T.4 figs. 4-10 (1856).

Syn. *Stegania patersonii* R.Br. l.c.: 152.

Lomaria patersonii (R.Br.) Spreng. *Syst. Veg.* (ed. 16) 4: 62 (1827); Hook. f. l.c.: 141; Benth. l.c.: 734; Rodway l.c.: 283.

B. PROCERUM (Forst.) Swartz *Schrad., J. Bot., Göttingen* 1800: 75 (1801).

Syn. *Osmunda procera* Forst. *Fl. Ins. Austr. Prodr.*: 78 (1786).

Stegania procera (Forst.) R.Br. l.c.: 153.

Lomaria procera (Forst.) Spreng. *Syst. Veg.* (ed. 16) 4: 65 (1827); Hook. f. l.c.: 142; Rodway l.c.: 283.

Including *Lomaria procera* var. *minor* Hook. f. l.c.: 142.

Included, together with the following species, with the South African *B. capense* (L.) Schlecht., by Benth. (l.c.: 737), as *Lomaria capensis*.

This Australian material will probably prove distinct from the true *B. procerum*.

B. MINUS (R.Br.) Ettings. *Denkschr., Akad. Wiss., Wien* 23: 63 T.8 figs. 5, 12 (1864).

Syn. *Stegania minor* R.Br. l.c.: 153.

Lomaria procera var. *paludosa* Rodway l.c.: 283.

Included with the preceding species by Hook. f. (l.c.: 142) and, as noted thereunder, by Benth. (l.c.: 737).

B. NUDUM (Labill.) Mett. ex Luer. *Flora*, 1876: 292 (1876).

Syn. *Onoclea nuda* Labill. l.c.: 96 T.246.

Stegania nuda (Labill.) R.Br. l.c.: 153.

Stegania falcata R.Br. l.c.: 153.

Included with the New Zealand *B. discolor* (Forst.) Keys., by Hook. f. (l.c.: 143), by Benth. (l.c.: 735) and by Rodway (l.c.: 283), in each case as *Lomaria discolor*.

B. LANCEOLATUM (R.Br.) Sturm. *Enum. Pl. Vasc. Crypt. Chil.*: 25 (1858).

Syn. *Stegania lanceolata* R.Br. l.c.: 152.

Lomaria lanceolata (R.Br.) Spreng. *Syst. Veg.* (ed. 16) 4: 62 (1827); Hook. f. l.c.: 143; Benth. l.c.: 736; Rodway l.c.: 283.

B. FLUVIATILE (R.Br.) Lowe ex Salomon. *Nomencl. Gefasskrypt.*: 115 (1883).

Syn. *Stegania fluviatilis* R.Br. l.c.: 152.

Lomaria fluviatilis (R.Br.) Spreng. *Syst. Veg.* (ed. 16) 4: 64 (1827); Hook. f. l.c.: 142 T.167; Benth. l.c.: 736; Rodway l.c.: 283.

B. VULCANICUM (Blume) Kuhn *Ann. Mus. Lugd.-Bat.* 4: 284 (1869).

Syn. *Lomaria vulcanica* Blume *Enum. Pl. Javae*: 202 (1828); Hook. f. l.c.: 143; Benth. l.c.: 735; Rodway l.c.: 283.

It is probable that this Australasian plant will prove to be specifically distinct from that of Java.

B. PENNA-MARINA (Poir.) Kuhn *Fil. Afr.*: 92 (1868).

Syn. *Polypodium penna marina* Poir. *Encycl. méth. Bot.* 5: 520 (1804).

Stegania alpina R.Br. l.c.: 152.

Lomaria alpina (R.Br.) Spreng. *Syst. Veg.* (ed. 16) 4: 62 (1827); Hook. f. l.c.: 144; Benth. l.c.: 736; Rodway l.c.: 283.

B. CARTILAGINEUM Swartz *Syn. Fil.*: 114, 312 (1806).

DOODIA R.Br.

D. CAUDATA (Cav.) R.Br. l.c.: 151.

D. MEDIA R.Br. l.c.: 151.

Syn. *D. caudata* var. *media* (R.Br.) Benth. l.c.: 742.

Included with the local *D. caudata* (Cav.) R.Br., by Hook. f. (l.c.: 147) and by Rodway (l.c.: 284).

Family ASPIDIACEAE

POLYSTICHUM Roth

P. PROLIFERUM (R.Br.) Presl *Tent. Pteridogr.*: 83 (1836).

Syn. *Aspidium proliferum* R.Br. l.c.: 147.

Included with the European *P. aculeatum* (L.) Schott., by Benth. (l.c.: 757), as *Aspidium aculeatum*; and included with the New Zealand *P. vestitum* (Forst.) Presl, by Hook. f. (l.c.: 148) and by Rodway (l.c.: 288).

LASTREOPSIS Ching

L. HISPIDA (Swartz) Tindale *Vict. Nat., Melb.* 73: 183 (1957).

Syn. *Aspidium hispidum* Swartz *Schrad., J. Bot., Göttingen* 1800²: 39 (1801); (listed for Victoria only by Benth. *l.c.*: 760).

Nephrodium hispidum (Swartz) Hook. *Sp. Fil.* 4: 150 (1862); Rodway *l.c.*: 287.

Polystichum hispidum (Swartz) J.Sm. *J. Bot., London* 4: 195 (1841); Wakefield *Ferns of Victoria and Tasmania*: 47 (1955).

L. SHEPHERDII (Kunze ex Mett.) Tindale *Vict. Nat., Melb.* 73: 182 (1957).

Syn. *Aspidium shepherdii* Kunze ex Mett. *Fil. Hort. Bot. Lips.* 94 (1856).

Included with the mainland Australian *L. decomposita* (R.Br.) Tindale, by Hook. f. (*l.c.*: 149) and by Rodway (*l.c.*: 287), in each case as *Nephrodium decompositum*, and by Benth. (*l.c.*: 758), as *Aspidium decompositum*.

Pending Tindale's publication on *Lastreopsis*, this species, and two others which do not occur in Tasmania, were placed in *Ctenitis* in *Ferns of Victoria and Tasmania* (p. 46). All three are now regarded as belonging to the former genus.

Family **ATHYRIACEAE****DIPLAZIUM**

D. AUSTRALE (R.Br.) N. A. Wakefield *Vict. Nat., Melb.* 58: 142 (Jan. 1942).

Syn. *Allantodia australis* R.Br. *l.c.*: 149.

Asplenium brownii J.Sm. *J. Bot., London* 4: 174 (1841); Hook. f. *l.c.*: 147.

Included with the African and Asian *Athyrium umbrosum* (Ait.) Presl, by Benth. (*l.c.*: 749), as *Asplenium umbrosum*.

Athyrium australe (R.Br.) Presl; Rodway *l.c.*: 286; Wakefield *Ferns of Victoria and Tasmania*: 29 (1955).

CYSTOPTERIS Bernh.

C. FRAGILIS (L.) Bernh. var. **TASMANICA** (Hook.) Hook. f. *l.c.*: 136 T.166.

Syn. *Cystopteris tasmanica* Hook. *Sp. Fil.* 1: 199 (1846).

This material was recorded by Benth. (*l.c.*: 752) and by Rodway (*l.c.*: 288) simply as *C. fragilis* (L.) Bernh., and Hook. f. recorded the species as well as the variety from Tasmania. It is probable that the Australasian material will eventually be distinguished as a separate species, in which case Hooker's name will be applied to it.

Family **THELYPTERIDACEAE****CYCLOSORUS** Link

C. PENNIGERUS (Forst.) Copeland *Gen. Fil.*: 143 (1947).

Syn. *Polypodium pennigerum* Forst. *Fl. Ins. Austr. Prodr.*: 82 (1786).

A new record for Tasmania: See *Vict. Nat., Melb.* 60: 173 (Mar. 1944), under the name *Dryopteris pennigera*.

Family **GRAMMITIDACEAE****GRAMMITIS** Swartz

G. BILLARDIERI Willd. *Sp. Fl. (ed. 4)* 5: 139 (1810).

Syn. *Grammitis australis* R.Br. *l.c.*: 146 (1810); Hook. f. *l.c.*: 151; Rodway *l.c.*: 286.

Polypodium australe (R.Br.) Mett. *Abh. senckenb. naturf. Ges.* 2¹: 36 n.15 (1856); Benth. *l.c.*: 762.

CTENOPTERIS Blume

C. HETEROPHYLLA (Labill.) Tindale *Amer. Fern Journ.* 41¹: 100 (1951).

Syn. *Grammitis heterophylla* Labill. *l.c.*: 90 T.239.

Polypodium grammitidis R.Br. *l.c.*: 147; Hook. f. *l.c.*: 150; Benth. *l.c.*: 764; Rodway *l.c.*: 287.

Family **POLYPODIACEAE****PHYMATODES** Presl

P. DIVERSIFOLIUM (Willd.) Pich.-Ser. *Webbia* 8: 222 (1951).

Syn. *Polypodium diversifolium* Willd. *Sp. Pl. (ed. 4)* 5: 166 (1810).

Polypodium billardieri R.Br. *l.c.*: 147.

Phymatodes billardieri (R.Br.) Presl *Tent. Pteridogr.*: 196 (1836); Hook. f. *l.c.*: 150; Rodway *l.c.*: 287.

Included with the New Zealand (and mainland Australian) *Phymatodes scandens* (Forst.) Presl, by Labill. (*l.c.*: 91 T.240), as *Polypodium scandens*; and identified as *Polypodium pustulatum* Forst., by Benth. (*l.c.*: 769), but this latter was discarded as a *species dubium* by Pichi-Sermolli (*l.c.*: 218).

Family **SALVINIACEAE****AZOLLA** L.

A. FILICULOIDES Lam. *Encycl. méth. Bot.* 1: 343 (1783).

Syn. *A. rubra* R.Br. *l.c.*: 167; Hook. f. *l.c.*: 158; Benth. *l.c.*: 680.

Family **MARSILEACEAE****PILULARIA** L.

P. NOVAE-HOLLANDIAE A.Br. *Mber. Kön. Akad. Wiss., Berlin*, Oct. 1863: 435 (? 1864).

Included with the European *P. globulifera* L., by Hook. f. (*l.c.*: 159), by Benth. (*l.c.*: 684) and by Rodway (*l.c.*: 291).