

NOTES ON THE MOSSES OF NEW SOUTH WALES. II.

ADDITIONAL RECORDS.

By ALAN BURGESS, M.Sc., late Linnean Macleay Fellow of the Society in Botany.

[Read 24th April, 1935.]

The following paper completes the check list of New South Wales Mosses which was begun by the late Rev. W. W. Watts and the late Mr. T. Whitelegge in the PROCEEDINGS of this Society in 1905 and continued by the present writer in 1932. As in Part I of these notes, the arrangement adopted by Brotherus in Engler and Prantl (*Natür. Pflanzenf.*, 2 Aufl., Bd. 10, 1924, and Bd. 11, 1925) has been followed except for one minor alteration (q.v., page 90) on the authority of Dixon (*Bull. N.Z. Inst.*, No. 3), and the species have been placed alphabetically within the genus.

The grateful thanks of the writer are due to Mr. Gepp, of the Natural History Museum, South Kensington, for assistance in obtaining references; to Mr. Cheel, of the National Herbarium, Sydney, for permission to work through the material in his charge; and to Professor T. G. B. Osborn, in whose department the work was carried out.

GRIMMIALES.

GRIMMIACEAE.

GRIMMIA.

G. campestris Burch., in Hook. Musc. ex.; *G. leucophaea* Grev.; *G. leiocarpa* Tayl.

Frequent in many parts of the State.

RHACOMITRIUM.

R. crispulum H.f.W., Fl. Tas. Tumberumba (Forsyth).

FUNARIALES.

SPLACHNACEAE.

TAYLORIA.

T. Maidenii Broth., Linn. Soc. N.S.W., 1916. Kosciusko (Maiden).

EUBRYALES.

BRYACEAE.

MIELICHHOFERIA.

M. australis Hpe., Linn., 1859. Yarrangobilly Caves (Watts).

MNIOBRYUM.

Mn. Tasmanicum Broth., Oefv. af. Finsk., 1893. Yarrangobilly, etc. (Watts).

BRACHYMENIUM.

B. Preissianum Hpe., Icon. Musc., t. 25, 1844. Jervis Bay (Watts).

BRYUM.

Br. altisetum C.M., Hedw., 1897. Yarrangobilly Caves (Watts).

Br. austro-affine Broth., Linn. Soc. N.S.W., 1916. Richmond River (Watts).

Br. bimum Schreb., Spic. fl. lips., p. 83, 1771. Yarrangobilly Caves (Watts).

- Br. caespiticiu* L., Sp. pl., p. 1121, 1753. Yarrangobilly Caves (Watts).
Br. Cheelii Broth., Linn. Soc. N.S.W., 1916. Shell Harbour (Cheel).
Br. filarium Broth., loc. cit. Richmond River (Watts).
Br. Forsythii Broth., loc. cit. Kiama (Forsyth).
Br. Kiamae Broth., loc. cit. Kiama (Forsyth).
Br. laevigatum H.f.W., Lond. Jour. Bot., 1844. Yarrangobilly Caves (Watts).
Br. laxirete Broth., Linn. Soc. N.S.W., 1916. Hill Top (Maiden).
Br. pohliaeopsis C.M., Hedw., 1898. Yarrangobilly (Watts).
Br. subcurvicollum Broth., Linn. Soc. N.S.W., 1916.
Br. subpachypoma Hpe., Linn., 1869; *B. tenuicostatum* Broth. Richmond River (Watts).
Br. Sullivani C.M., in Broth., Oefv. af. Finsk, 1893. Yarrangobilly (Watts).
Br. subventricosum Broth., Linn. Soc. N.S.W., 1916. Tumberumba (Forsyth).

RHIZOGONIACEAE.

HYMENODON.

- H. piliferous* H.f.W., Lond. Jour. Bot., iii, 584, 1844. Cambewarra (Watts).

RHIZOGONIUM.

- R. aristatum* Hpe., Linn., 1876. Blue Mts. (Whitelegge).

HYPNODENDRACEAE.

BRAITHWAITEA.

- B. sulcata* (Hook., as *Leskea*, Musc. Ex., t. 164) Lind.; *B. nematosa* C.M. Common in rain forests.

HYPNODENDRON.

- H. spininervum* (Hook.) Jaeg., Ad., ii, p. 623. (See *H. arcuatum*.)
H. arcuatum (Hedw., Sp. Musc., p. 245, 1801) Mitt.; *H. spininervum* (Hook.) Jaeg.;
H. Whiteleggei C.M. Frequent in and near creeks.

MEESEACEAE.

MEESEA.

- M. Muelleri* Hpe., Linn., 1856; *M. macrantha* Mitt. Yarrangobilly Caves (Watts).

BARTRAMIACEAE.

BARTRAMIA.

- B. erecta* (Hpe., Linn., 1876, as *Glyphocarpa*) Broth., *Bartramidula Hampeana* Mitt., *Bartramia gymnostoma* Broth. in MS. Yarrangobilly Caves (Watts).
B. norvegica (Gunn.) Lindl., in Oefv. af. Finsk., 1863. *B. Mossmaniana* C.M.,
B. Halleriana Hedw. Yarrangobilly Caves (Watts).

PHILONOTIS.

- Ph. austro-falcata* Broth. et Watts, Linn. Soc. N.S.W., 1912. Yarrangobilly Caves (Watts).
Ph. fontanoides Broth. et Watts, loc. cit. Yarrangobilly Caves (Watts).

ISOBRYALES.

ORTHOTRICHACEAE.

ZYGODON.

- Z. Hookeri* Hpe., Linn., 1860. Yarrangobilly Caves and Batlow (Watts).

ORTHOTRICHUM.

- O. acroblephare* C.M., Hedw., 1897. Tumut River, Batlow, etc. (Watts).

RHACOPILACEAE.

RHACOPILUM.

R. convolutaceum Hpe., Linn., 1870. Common throughout the State.

HEDWIGIACEAE.

HEDWIGIA.

H. albicans (Web.) Lindl., Musc. Scand., 40, 1879. *H. ciliata* (Dicks.) Ehrh.
H. microcyathea (C.M.). Throughout the State.
H. juratz C.M., Rev. Bryol., 1876. Near Sydney (Kayser). Jaeger considers this
 a variety of *H. albicans*.

HEDWIGIDIUM.

H. imberbe (Sm.), Bryol. eur., 1846. *H. Drummondii* Jaeg. Frequent in colder
 parts of the State.

RHACOCARPUS.

R. australis (Hpe., Linn., 1859, as *Harrisonia*) Par. *H. Humboltii* β *australis*
 H.f.W. Common on wet rocks.

CRYPTHAEACEAE.

CRYPTHAEA.

C. brevidens C.M., Rev. bryol., 1876. Near Sydney (Kayser). Record doubtful.
C. novae-valesiae C.M., in F.v.M., Frag. Phyt., xi, Suppl. "N.S.W."
 ? *C. papillarioides* Broth. Richmond River (Watts). Apparently an error. Material
 determined by Brotherus as this species seems indistinguishable from
Papillaria filicaule Tay.
C. Muelleri (Hpe., Linn., 1856, as *Dendropogon*). Near Sydney (Kayser).
C. ovalifolium C.M., Bot. Zeit., 1851, p. 564. Parramatta (Woolls?).
C. squarrosulum (Hpe., Linn., 1860) Par. Richmond River (Edwards).
C. tenella (Sch., Suppl. ii, Pt. 2, p. 163, 1826) Hsc., *C. parvula* Mitt., *C. consimilis*
 Mont., *C. acuminata* H.f.W., *C. pusilla* C.M. Frequent in coastal rain forest.
C. viridissimum C.M., in Wild Pl. Austr. n. 465. Parramatta and North Coast.

LEUCODONTACEAE.

FORSTROEMIA.

F. australis (C.M., in Linn., 1867, p. 620, as *Lasia*) Par. North Coast.
F. subproducta (C.M., in Rev. bryol., 1877, p. 43) Par. Parramatta (Woolls).

CYRTOPODIACEAE.

BESCHERELLEA.

B. cyrtopus F.v.M. (see Brotherus Bryales for figure). *B. brevifolia* Hpe.
Cyrtopus bescherellioides C.M. Common on coast.

PTYCHOMNIACEAE.

HAMPEELLA.

H. pallens (Lac., Archip. ined., p. 12) Fleisch. *Lepidopilum* Broth. *Whiteleggea*
australis Broth., in MS. notes. *Sematophyllum australe* Broth. Olim. Coastal
 rain forests.

GLYPHOTHECIUM.

G. Perroti C.M., in F.v.M., Frag. Phyt., xi, Suppl. "N.S.W."

PTYCHOMNION.

P. aciculare (Brid., Musc. rec., ii, Pt. 2, p. 158, 1801) Mitt. Frequent in moist
 situations, especially in gullies.

PTEROBRYACEAE.

TRACHYLOMA.

- T. planifolium* (Hedw., Sp. musc., p. 206, t. 48, 1801, as *Neckera*) Brid. *Pterobryum* Mitt. Coastal districts.
- T. leptopyxis* (C.M., Hedw., 1897) Brid. Richmond River (Camara). In a letter to the late Rev. W. W. Watts, Brotherus stated that he considered this species distinct from *T. planifolium*, but does not appear to recognize it in Engler and Prantl (Natürl. Pflanzenf., Aufl. 2, Bd. 11, p. 129, 1925).

ENDOTRICHELLA.

- E. Dietrichae* C.M., in Linn., 1871-73, p. 156. North Coast rain forest.
- E. lepida* C.M., loc. cit., p. 157. Richmond River.

EUPTYCHIUM.

- E. cuspidatum* (Mitt., in F.v.M., Frag. Phyt., Suppl. xi) Broth.; *E. neocaledonium* Schimp. Rain forests, Richmond and Brunswick Rivers.

MUELLERIOBRYUM.

- M. Whiteleggei* (Broth., as *Pterobryum*, Oefv. af. Finsk., 1895). *Pilotrichum* C.M. Near Sydney (Whitelegge), Richmond and Brunswick Rivers (Watts).

METEORACEAE.

WEYMOUTHIA.

- ? *W. mollis* (Hedw., Sp. musc., p. 234, 1801, as *Leskea*) Broth. Was recorded by Woolls, but his specimens are apparently *Acanthocladium extenuatum*.

PAPILLARIA.

- P. amblyacis* (C.M., Linn., xxv, 715) Jaeg. Common on northern rivers.
- P. cerina*, see *P. flavo-limbata*.
- P. crocea* (Hpe., Linn., 715, 1852) Jaeg. *Neckera Kermadecensis*; *Trachycarpus Hornschuchii* Mitt. Throughout the State.
- P. filipendula* (H.f.W., Fl. Tas., as *Meteorium*) Jaeg. Frequent in coastal rain forests.
- P. flavo-limbata* (C.M. et Hpe., Linn., 1853) Par.; *Meteorium cerinum* H.f.W. et Mitt. Blue Mtns. and coastal rain forests, but not far north.
- P. flexicaulis* (Tay. in MS.) Jaeg., Ad. ii, 175. This species was returned by Brotherus for material collected by Watts on the northern rivers, but in Engler and Prantl it is limited to New Zealand. Watts suggested that the Australian plant might be *P. squamata*, which Mitten (Cat. Austr. Musc.) considers may be a synonym for *P. flexicaulis*.
- P. intricata* (Mitt., Sam. Musc., p. 171) Broth. An early determination by Brotherus for *P. nitiduscula* Broth. Should be omitted.
- P. Kermadecensis* C.M., see *P. crocea*.
- P. nitiduscula* Broth., Linn. Soc. N.S.W., 1916. North Coast and Blue Mtns.
- P. squamata* (C.M.) Angst., in Oefv. af. Finsk., 1876. If this species is retained as separate from *P. flexicaule*, then its occurrence in N.S.W. is not yet proved. The specimens in the collection of the late Mr. Whitelegge named *P. squamata* are *P. flavo-limbata*.

METEORIUM.

- M. dimorphum* (C.M.) Mitt., Proc. Roy. Soc. Vict., 1883, p. 82. Blue Mts.
- M. dicladioides* C.M., Rev. bryol., 1876. Name only published. Paris (Index Bryol.) thinks this is *Barbella* (*Neckera*) *trichoroides*. It was collected by Mrs. Kayser near Sydney.

PHYLLOGONIACEAE.

ORTHORRHYNCHIUM.

O. cymbifolioides C.M., Flora, 1896, p. 458. *O. Thorpianum* C.M. Cambewarra (Thorpe), Richmond River (Watts).

NECKERACEAE.

LEPTODON.

L. australis C.M., in Sched., see *L. Smithii*. On trees, Cambewarra (Whitelegge).
L. Smithii (Dicks., P. crypt., Fasc. ii, 1791). Probably *L. australis* belongs here.
 Blue Mts., Cambewarra, etc.

CALYPTOTHECIUM.

C. acutum (Mitt., Proc. Roy. Soc. Vict., 1883, p. 81) Broth. Northern Rivers.
C. humile (Mitt., loc. cit.) Broth. Richmond River.

NECKERA.

N. aurescens Hpe., Linn., 1856, p. 212. N.S.W. (teste F.v.M., Frag. Phyt.).
N. hymenodonta C.M., Bot. Zeit., 1851, p. 561. *N. pennata* H.f.W., but not of Hedw.
 Cambewarra.
N. Leichhardtii Hpe., Linn., 1869, p. 520. "N.S.W." (Leichhardt).
N. pennata, see *N. hymenodonta*.
 Note.—*N. Bauerlenii* Solms-Laubach was returned to Bauerlen as a new species,
 collected on Tingiringi Mt., in 1888. It is probably *N. hymenodonta*;
N. Bauerleni is a New Guinea plant.

HOMALIA.

H. acuminata C.M., in Sched. Cambewarra Mtn. (Thorpe).

THAMNIUM.

T. eflagellare Ang., in Oefv. af. Finsk., 1872, p. 13. *T. flagellare* at first. Wollongong
 (Anderson). Frequent throughout the coastal rain forest; often mistaken for
T. pumilum.
T. gracillimum Hpe., Linn., 1876, p. 314, as *Rhizogonium*. In creeks and gullies
 on the coast. A plant difficult to place. *Rhizogonium* Hpe.; *Porotrichum* al.;
Thamnium Brotherus.
T. novae-valesiae (Hpe.) Kindb. Maitland district (Vicary). Can find no complete
 description of this species. It is partly described in Kindberg's monograph
 in Hedwigia, 1902.
 ? *T. pandum* (H.f.W., Fl. N.Z., ii, 105, as *Isothecium*). Parramatta (Woolls).
 Watts considered this record a mistake.
T. pumilum (H.f.W., Fl. Tas.) Par. *T. homalioides* Kindb., fide Broth. It is
 doubtful if this Tasmanian species has been found in this State; the records
 probably refer to *T. eflagellare*.

LEMBOPHYLLACEAE.

CAMPTOCHAETE.

C. arbuscula (Hook., Musc. Ex., t. 112, 1820) Jaeg. Fitzroy Falls and Cambewarra
 (Whitelegge).
 var. *deflexa* (Wils.) Dix.; *C. deflexa* Wils. Throughout the coastal districts.
C. brisbanicum C.M. (See Bailey, Comprehensive Cat. Qld. Plants, p. 667, fig. 643.)
 Richmond River, Bulli (Watts).
C. excavata (Tay.) Jaeg., Ad., ii, p. 214. Coastal districts.
C. gracilis (H.f.W., Lond. Journ. Bot., 1888, p. 553, as *Hypnum*) Par. Stanwell
 Park and Yarrangobilly (Watts).

- C. Leichhardtii* (Hpe., Moosb., p. 21, as *Dendro-hypnum*) Broth. Northern rivers.
 ? *C. novae-cambriae* Hpe. Name in Mitt., Cat. Austr. Musc. Locality unrecorded.
C. ramulosa (Mitt., Fl. N.Z., as *Isothecium*) Jaeg. Mt. Tomah, Richmond R., etc.
C. Schlosseri (Sendter, as *Rigodium*) C.M., Syn. Musc., ii, p. 451. Richmond River (Watts).
C. vaga (Hsch., as *Hypnum* in Act. Soc. Sc. Fenn., 1872) Broth. Common throughout the State in moist situations.

LEMBOPHYLLUM.

- L. divulgum* (H.f.W., Fl. N.Z., as *Hypnum*). Tia Falls (Whitelegge).

ECHINODIACEAE.

ECHINODIUM.

- E. arboreum* Broth., in Oefv. af. Finsk., 1893. Cambewarra (Watts and Whitelegge).
E. hispidum (H.f.W., Lond. Journ. Bot., iii, p. 552, as *Hypnum*) Jaeg. Richmond River, Cambewarra, etc.

HOOKERIAEAE.

DISTICHOPHYLLUM.

- D. amblyophyllum* (H.f.W., Fl. N.Z., as *Hookeria*) Mitt. Frequent on the Blue Mtns.
D. Baileyanum C.M., Hedw., 1902, p. 123. Frequent on the Northern Rivers.
D. complanatum (Hpe.) Mitt., Proc. Roy. Soc. Vict., 1883, p. 77. Valley of the Waters (Forsyth).
D. crispulum (H.f.W., Fl. N.Z., as *Hookeria*) Mitt. Blue Mtns. (Whitelegge).
D. fissidentoides C.M., Hedw., 1902, p. 122. Mosman and Blue Mtns. (Whitelegge).
D. rotundifolium (H.f.W., Lond. Journ. Bot., 1844, p. 551) Broth. *D. squarrosulum* C.M., fide Broth. Blue Mtns., Cambewarra.

ERIOPIUS.

- E. apiculatus* (H.f.W., Lond. Journ. Bot., 1844) Mitt. Stanwell Park.

PTERYGOPHYLLUM.

- P. dentatum* (H.f.W., Lond. Journ. Bot., 1844) Jaeg. Richmond River (Watts).
P. hepaticaeifolium (Hpe. et C.M.) Jaeg., Ad., ii. Fitzroy Falls (Whitelegge).

CYCLODICTYON.

- C. Karstenianum* (Broth. et Geh.) Broth., Oefv. af. Finsk., 1893. *Hookeria lepida* Mitt. Richmond River (Watts).

SAULOMA.

- S. tenella* (H.f.W., Fl. N.Z.) Mitt. Yarrangobilly Caves (Watts).

HYPOPTERYGIACEAE.

CYATHOPHORUM.

- C. bulbosum* (Hedw., Sp. Musc., p. 43) C.M. *C. pennata* Brid. Common in wet gullies.

HYPOPTERYGIUM.

- H. concinnum* (Hook., Musc. Ex., as *Leskea*) Brid. *H. pallens* (H.f.W.) Mitt.
H. hyalo-limbata C.M. Common in rain forests on the coast.
H. Muelleri Hpe., Linn., 1856. Coastal districts.
H. nematosum C.M. Jaeg., Ad., ii, and Paris give N.S.W., but there are no records in Australian herbaria that I can find.
H. novae-seelandicum C.M., in Bot. Zeit., 1851. *H. Smithianum* H.f.W. In wet gullies on the coast.

H. rotulatum (Hedw., in sp. musc., 213, as *Leskea*) Brid. *H. Scottiae* C.M. North Coast.

H. viridulum Mitt., in Hook. f. Handbk. of N.Z. Flora. Recorded with doubt for Hunter and Macleay Rivers in the herb. Melb. Dixon regards this species as conspecific with *H. rotulatum*.

HYPNOBRYALES.

FABRONIACEAE.

FABRONIA.

F. australis Hook., Musc. Exot. Yarrangobilly Caves (Watts).

F. brachyphylla C.M., in Broth., Oefv. af. Finsk., 1895. Near Sydney, Richmond River, etc.

F. Hampeana Send., C.M., Syn. Musc., ii, p. 34. Cook's River, Richmond River.

F. Scottiae C.M., Linn., 1867. Hunter River (Scott). Common on Northern Rivers.

ANACAMPTODON.

A. Wattsii Broth., Linn. Soc. N.S.W., 1916, p. 593. Richmond River (Watts).

LESKEACEAE.

PSEUDOLESKEA.

P. imbricata (H.f.W., Fl. Tas.) Broth. *Leskea calochlora* C.M. Cambewarra (Whitelegge).

THUIDIACEAE.

HAPLOHYMENIUM.

H. brevinerve (Broth., Oefv. af. Finsk., 1890, as *Anomodon*) Broth. Cambewarra (Whitelegge), Richmond River (Watts).

THUIDIUM.

T. furfurosus (H.f.W., Fl. N.Z.) Jaeg. This is apparently a composite species which varies fairly considerably. Some extreme forms like *T. sparsum* are usually considered as worthy of specific rank. *T. unguiculatum* H.f.W., *T. bastatum* (C.M.) Jaeg., and *T. amblystegioides* C.M. should probably be regarded as synonyms, or at the best varieties. Common throughout the State.

T. laeviusculum (Mitt., in Linn., 1859) Jaeg. Parramatta (Woolfs).

T. liliputanum Broth., Oefv. af. Finsk., 1899. Richmond River (Watts).

T. nano-delicatulum (Hpe., as *Cyrto-hypnum* Linn., 1876) Jaeg. Illawarra (Johnson).

T. plumulosiforme (Hpe., as *Cyrto-hypnum* Linn., 1876). Illawarra (Johnson).

T. ramentosum Mitt., Sam. Musc. Name appears in a MS. list in herb. Sydney, but no locality is given.

T. sparsum (H.f.W., Fl. N.Z., as *Hypnum*) Jaeg. *H. suberectum* Hpe. Frequent along the coast.

T. subliliputanae Broth., Oefv. af. Finsk., 1899. Richmond and Brunswick Rivers (Watts).

AMBLYSTEGIACEAE.

CAMPYLUM.

C. decussata (H.f.W., in Fl. N.Z., as *Hypnum*) Broth. Yarrangobilly Caves (Watts).

C. relaxum (H.f.W., Fl. N.Z., as *Hypnum*) Broth. Yarrangobilly Caves (Watts).

SCIAROMIUM.

S. elimbatum Broth. et Watts, Linn. Soc. N.S.W., 1912, p. 377. Yarrangobilly Caves (Watts).

S. Forsythii Broth., loc. cit. Yarrangobilly Caves (Watts).

AMBLYSTEGIUM.

- A. austro-hygrophilum* Broth., Linn. Soc. N.S.W., 1916, p. 594. Armidale (Watts).
A. convolutifolium, see *Rhynchostegiella*.
A. fontinaloides (Hpe.) Mitt., see *Drepanocladus*.
A. Muelleri (Hpe. et C.M.) Jaeg., Ad., ii, p. 555. Frequent on damp rocks.
A. novae-valesiae Broth. et Watts, Linn. Soc. N.S.W., 1912, p. 377. Yarrangobilly Caves (Watts).

DREPANOCLADUS.

- D. brachiatus* (Mitt., in Hook. f. Hdbk. N.Z. Flora) Dix. Yarrangobilly Caves (Watts).
D. fluitans (L., Fl. Suec., ed. 2, p. 899) Warnst.
 var. *falcatus* Sch. Yarrangobilly Caves (Watts).
D. fontinaloides (Hpe., as *Drepano-hypnum*) Broth. (See Jaeg., Ad., ii.)
D. strictifolium Broth. et Watts, Linn. Soc. N.S.W., 1912, p. 378. Yarrangobilly Caves (Watts).
D. uncinatus (Hedw., Musc. Frond., iv, p. 65) Warnst. Yarrangobilly Caves (Watts).

ACROCLADIUM.

(This genus is included here following Dixon.)

- A. auriculatum* (Mont., Voy. au Pole Sud, p. 331 (Crypt.), 1843) Mitt. *Hypnum chlamydoephyllum* H.f.W. Yarrangobilly Caves (Watts).
A. trichocladium Bosw., Journ. Bot., 1892, p. 99. "A doubtful species, perhaps *Acanthocladium extenuatum*" (Watts, in MS. notes).

BRACHYTHECIACEAE.

BRACHYTHECIUM.

- B. Kayseri* Geh., Rev. Bryol., 1876, p. 4. Near Sydney (Kayser).
B. novae-valesiae Geh., loc. cit. Near Sydney (Kayser).
B. paradoxum (H.f.W., in Lond. Jour. Bot., iii, 554, 1844) Jaeg. Kosciusko, Kiandra, Yarrangobilly Caves, etc.
B. plumosum (Sw., in Act. Hom., 1795, p. 256) Bryol. Europ. ? *B. pseudoplumosum* Brid. Cambewarra, Young, Richmond River, etc.
B. rivulare Br. Eur. Tumut River (Watts).
B. rutabulum (L., Sp. Pl., p. 1124) Bry. Eur. Common in the south and south-west.
B. salebrosum (Hollm., Deutsch. Fl., ii, 74, 1796) Bry. Eur. Young, Yarrangobilly Caves, etc.

RHYNCHOSTEGIUM.

- ? *R. albifrons* (Geh., in Sched.). Blue Mtns. (Whitelegge).
R. dentiferum (Hpe.) Jaeg., Ad., ii, p. 437. Blue Mtns. (Whitelegge).
R. elusum (Mitt., in Hdbk. N.Z. Fl.) Jaeg. Jenolan Caves (Blakely).
 ? *R. Hodgkinsoniae* (C.M., ? F.v.M., Frag. Phyt., xi, Suppl.). N.S.W., no details; species seems doubtful.
 ? *R. laevisetum* (Geh., Rev. Bryol., 1876). Near Sydney (Kayser).
 ? *R. luridulum* (C.M., ? in F.v.M., Frag. Phyt., xi, Suppl.). "N.S.W." No details.
R. obtusissimum (Geh., in Rev. Bryol., 1876). *R. obtusum* Mitt., in Cat. Austr. Musc. Near Sydney (Kayser).
 ? *R. Parramattense* (Hpe. et C.M., in Mitt. Cat.). N.S.W. No details.
R. patulum (Hpe.) Jaeg., Ad., ii, p. 436. Frequent near Sydney.

- ? *R. perpumilum* (C.M., in F.v.M., Frag. Phyt., xi, Suppl.). No details.
R. Plagiotheciella (C.M., in Sched.). Mosman Bay (Whitelegge).
 ? *R. pseudo-straminoides* (Hpe., in Linn., 1871-73). Blue Mtns.
R. tenuifolium (Hedw., Sp. Musc., p. 283) Jaeg. *Hypnum confertum* H.f.W.,
H. collatum H.f.W., *H. subclavatum* Hpe., *H. radicole* Hsch. Common
 throughout the State.

RHYNCHOSTEGIELLA.

- R. convolutifolium* (Hpe., Linn., 1869, p. 641) Broth. *Hypnum cucullatum* Mitt.;
Amblystegium Mitt., Cat. Austr. Musc.; *Rhynchostegium strictiusculum*
 (Broth.).
R. muriculata (H.f.W., Fl. N.Z., p. 108). *Hypnum pterocladum* C.M. Richmond
 River and Mosman, etc.
R. pseudo-teesdalei (Hpe., Linn., 1859-60) Broth. In the Bryales Brotherus limits
R. muriculata to Norfolk Is., New Zealand and Tasmania, and gives *R. pseudo-*
teesdalei to east Australia.

OXYRRHYNCHIUM.

- O. austrinum* (H.f.W., Fl. N.Z., as *Hypnum*) Broth. Yarrangobilly Caves.
O. remotifolium (H.f.W., Fl. N.Z., as *Hypnum*) Broth.

ENTODONTACEAE.

ENTODON.

- E. myosurrella* C.M., in Rev. Bryol., 1876. Frequent on the coast.

PLAGIOTHECIACEAE.

PLAGIOTHECIUM.

- P. amblyostomum* C.M., in Sched. Mosman (Whitelegge).
P. novae-valesiae Broth., Linn. Soc. N.S.W., 1916. Richmond River (Watts).

SEMATOPHYLLACEAE.

ACANTHOCLADIUM.

- A. Crossii* Broth. et Geh., in Oefv. af. Finsk., 1893. Manning River (Cross).
A. extenuatum (Brid., Bryol. Univ., ii, p. 484) Mitt. *Hypnum crinitum* H.f.W.
 Throughout the State.

MEIOTHECIUM.

- M. Wattsii* (Broth., as *Pterogoniella*, Oefv. af. Finsk., 1900, p. 109) Broth.

RHAPHIDOSTEGIUM.

- R. amoenum* (Hedw., Sp. Musc., p. 292, as *Hypnum*) Jaeg. *R. Cyparoides* Brid.
R. leptorhynchium Brid. Richmond River (Bauerlen). Record doubtful.
R. callidioides (C.M., as *Hypnum*) Jaeg., Ad., ii. ? *R. amoenum* (Hedw.). Blue
 Mtns. and Yarrangobilly, etc.
R. contiguum (H.f.W., in Fl. Tas.) Par. Homebush (Whitelegge).
R. homomallum (Hpe., as *Leskea*, Ic. Musc.) Jaeg., Ad., ii. Blue Mtns. (Collie).
R. ovale Broth., Oefv. af. Finsk., 1890. Cook's River, Richmond River, etc.
R. pseudo-demissum (C.M., in Sched.). Sydney and Fitzroy Falls (Whitelegge).
R. pseudo-homallum (C.M., as *Hypnum*, Rev. Bryol., 1876). Near Sydney (Kayser).
R. tenuirostre (Hook., Musc. exot., t. iii) Jaeg. *R. luciduloides* C.M. (?).
 Blue Mtns.
R. vesiculiforme C.M. Name in F.v.M., Frag. Phyt., xi, Suppl. N.S.W.; no details.
R. Wattsii (Broth., Oefv. af. Finsk., 1899, as *Syrrhopodon*) Broth. *R. micropyxis*
 Broth. Richmond and Brunswick Rivers.

SEMATOPHYLLUM.

S. australis Broth., see *Hampella pallens*.

TAXITHELIUM.

T. novae-valesiae (Broth., as *Isopterygium*, Oefv. af. Finsk., 1899). Richmond River (Watts).

HYPNACEAE.

HYPNUM.

H. cupressiformis L., Sp. Pl. *H. Mossmanianum* C.M. Common throughout the State.

H. Walterianum C.M., Jaeg., Ad., ii, p. 584. Yarrangobilly Caves (Watts).

ECTROPOTHECIUM.

E. condensatum Broth. et Watts, Linn. Soc. N.S.W., 1912. Yarrangobilly Caves (Watts).

E. rivale and *E. Slateri*, see *Vesicularia*.

E. umbilicatum (C.M., Linn., 1867, p. 623) Par. Throughout the State.

? *E. umbilicatum* (C.M., Rev. Bryol., 1876). Name only. Mosman (Whitelegge).

ISOPTERYGIUM.

I. amblyocarpus (Hpe., as *Drepano-leskea* Linn., 1860) Broth. Probably *Acanthocladium extenuatum*, teste Mitt., Austr. Cat. Yarrangobilly Caves.

I. amoenum Broth., Oefv. af. Finsk., 1899, p. 128. Richmond River (Watts).

I. arachnoideum Broth., loc. cit. Richmond and Brunswick Rivers.

I. austro-pusillum (C.M., as *Hypnum*) Jaeg., Ad., ii, p. 501. Common on coast.

I. candidum (C.M.) Jaeg., Ad., ii, p. 503. Common throughout the State.

I. latifolium Broth., Oefv. af. Finsk., 1899. Ballina (Watts).

I. novae-valesiae, see *Taxithelium*.

? *I. pallido-virens* C.M., in Sched. Lilyvale (Whitelegge). The specimen in the herb. Syd. marked "type" is *Rhaphidostegium*.

I. pseudo-subulata (C.M., in Hedw., 1898, p. 115, as *Taxicaulis*) Par. Cambewarra (Whitelegge).

I. subarachnoideum Broth., Oefv. af. Finsk., 1899. Richmond River (Watts).

I. umbilicatum C.M., see *Ectropothecium*.

VESICULARIA.

V. rivale Broth., Linn. Soc. N.S.W., 1916, p. 595. Richmond River (Watts).

V. Slateri (Hpe., as *Hypnum*, Linn., 1876, p. 321) Broth. Richmond River (Watts).

POLYTRICHALES.

BUXBAUMIACEAE.

BUXBAUMIA.

B. Colyeræ Burg., Linn. Soc. N.S.W., 1932, p. 242. Williams River (Colyer).

In addition to the above, there are a number of incomplete records. Some refer to "*nom. nud.*" of various authors, others to species described in publications unknown to the writer. In some instances species of *Brotherus* are represented by material labelled by the late Rev. W. W. Watts as "*Det. Broth.*" It is hoped to publish descriptions of these in a future note.

Incomplete Records.

Acanthocladium sericeum Broth., ? *nom. nud.* Material in herb. Syd. from Kurrajong (Musson).

- A. macro-extenuatum* C.M. Lane Cove (Whitelegge).
A. pseudo-extenuatum C.M. Lawson (Whitelegge).
A. sub-extenuatum C.M. Lawson (Whitelegge.) This and the preceding two species were considered by Watts as probably forms of *A. extenuatum* (Brid.) Mitt.
Amblystegium campylopioides Broth., ? nom. nud. Kiandra (Forsyth).
Bryum leucoloma Broth.; *B. sub-pseudotriquetrum* Broth.
Camptochaete deflexula C.M. Cambewarra (Thorpe).
Campylium subrelaxum Broth.
Distichophyllum subflexuosum Broth.
Entodon flaccidesetus C.M.; *E. Daemelii* C.M.; *E. Hartmanni* C.M.; *E. hypnodelphus* C.M.; *E. novae-valesiae* Hpe. These species names of *Entodon* appear in various MS. lists for N.S.W.
Fabronia novae-valesiae Geh.
Hyocomium brachythecioides Broth.
Isopterygium viride-pallens C.M.; *I. austro-subulatum* C.M.
Plagiothecium amblyostomum C.M.
Pterygophyllum trichoides Geh.
P. Wattsii Broth. Listed in Engler, but can find no description.
Rhaphidostegium aciculum C.M.; *R. brachytheciella* C.M.; *R. calocarpum* C.M.;
R. luciduloides C.M.; *R. pseudo-demissum* C.M.; *R. Tingiringense* Geh.
Rhynchostegiella subconvolutifolium Broth. et Watts.
Thuidium atrovirens Broth.; *T. protensulum* C.M.; *T. squalidiusculum* C.M.
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Burges, Alan. 1935. "Notes on the mosses of New South Wales. II. Additional records." *Proceedings of the Linnean Society of New South Wales* 60, 83–93.

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