

Quick Reference List of Basic Literature to Identify Tropical African Bryophytes

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The aim of this short and selected reference list is to guide bryologists in the very scattered African literature when they try to identify specimens, as no standard bryofloras are available for the whole of Tropical Africa. The idea to compile such a reference list was raised during the Tropical Bryology Workshop held by the British Bryological Society, in the Botany School of Cambridge University, on the 21st of September 1990. The list is based on the senior author's private library and files. We hope that the publication and distribution of such a list, even if incomplete, will prove to be useful for the future taxonomic and floristic works in Tropical Africa with special reference to the Bryologia Africana Project. We also hope that it will encourage further collecting and identification by those who are not well versed in or do not possess the very diversified taxonomic literature on African bryophytes.

Due to the nature of the above task, the list is far from complete. It does not contain items simply describing one species or yielding floristic data. It is a selection of papers that are particularly helpful in identifying specimens which belong to the concerned group, either a monograph or

revision, or containing keys, or good illustrations. The geographical limitation is that of the Bryologia Africana Project, i.e. the area of Tropical Africa south of the Sahara and North of the Flora of Southern Africa Project, including the Indian Ocean Islands from the Seychelles to the Mascarenes. There are some works listed from areas beyond these limits, especially from South Africa, which are relevant due to the tropical species treated in them. At the beginning of each list, there are references to certain general floras or check-lists of different Tropical African areas, then the list follows in alphabetic sequence, giving the names of FAMILIES or SUBFAMILIES or of the Genera, Sub-genera or Sections. The relevant literature follows in very abbreviated form, omitting all but the author and year and giving only the first page of the publication if the whole paper deals with the concerned taxon, or the actual page where the taxon occurs among others. The full reference follows in the Bibliography. The most comprehensive or most up to date treatment is highlighted by boldface printing of its author and year of publication. There is more detailed information in Greene, S.W. & A.J.Harrington: The Bryological Literature of Africa, together with some Atlantic and Indian

Ocean Islands. Preparatory edition, Penicuik, 1979, or in Greene, S.W. & A.J.Harrington: The Conspectus of Bryological Taxonomic Literature, Parts 1-2. Bryophytorum Bibliotheca 35 & 37, J.Cramer, Berlin-Stuttgart 1988,1989; and in standard works such as Index Hepaticarum and Index Muscorum.

HEPATICAE and ANTHOCEROTAE

Checklists or floras with keys, illustrations or descriptions.

Arnell, S. 1956. Hepaticae collected by O. Hedberg et al. on the East African Mountains. Ark. f. Bot. 3:517-562.

Arnell, S. 1963. Hepaticae of South Africa. Stockholm, 411 pp.

Demaret, F. 1942. Prodrome des bryophytes du Congo belge et du Ruanda-Urundi. II.- Hepaticae. Bull. Jard. Bot. Bruxelles 16:287.

Grolle, R. 1978. Die Lebermoose der Seychellen. Wiss. Ztschr. Friedrich-Schiller-Univ. Jena, Math.-Nat. R. 27:7-17.

Jones, E.W. 1990. African Hepatics XL. An artificial key to the genera of African Hepatics. J. Bryol. 16:9-40.

Jones, E.W. & Harrington, A.J. 1983. The hepatics of Sierra Leone and Ghana. Bull. Brit. Mus. Nat. Hist. Botany 11:215-289.

Vanden Berghen, C. 1972. Hepatiques et anthocerotales. In Symoens, J.-J. (Ed.): Resultats scientifiques. Exploration hydrobiologique du bassin du Lac Bangweolo et du Luapula. Vol.8, fasc.1. Hepatiques et Anthocerotales. 202 pp.

Vanden Berghen, C. 1978. Hepatiques du Shaba. Corrections et additions. Bull. Jard. Bot. Nat. Belg. 48:367-372.

Reference list according to taxa

Acanthocolea - Kruijt, R.H.C. 1988:1.
Acrolejeunea - Gradstein, S.R. 1975:1.
Adelanthus - Grolle, R. 1972:325.
Allisoniella - Vana, J. 1985:86.
Alobiellopsis - Schuster, R.M. 1969:682.

Anastrophyllum - Vana, J. 1982:72.

Andrewsianthus - Grolle, R. 1963:437; Vana, J. 1980:228.

Aneura - Meenks, J.L.D. & Pócs, T. 1985:79.

Anomalolejeunea see under *Cheilolejeunea*

Aphanolejeunea - Pócs, T. 1984b:239.

Arachniopsis see under LEPIDOZIACEAE/LEPIDOZIOIDEAE

Archilejeunea - Vanden Berghen, C. 1951c:112.

Bazzania - Arnell, S. 1965:66 (Madag-Masc.); Jones, E.W. 1975:299, 1980:312; Onraedt, M. 1977:139 (Madag-Masc).

Brachiolejeunea see most African species under Frullanoides, but consult van Slageren, M. 1985.
Bryopteris - Stotler, R.E. & Crandall-Stotler, B. 1974:1.

Calycularia - Jones, E.W. 1985b:497.

Calypogeia - Bischler, H. 1970:63, Jones, E.W. 1976b:43.

Capillolejeunea - Arnell, S. 1965:69.

Caudalejeunea - Vanden Berghen, C. 1948:764; 1972:432; 1984:99; Jones, E.W. 1953c:164.

Cephalojonesia - Grolle, R. & Vanden Berghen, C. 1970b:764; Jones, E.W. 1987:503.

Cephalozia - Vana, J. 1988:179.

Cephaloziella - Jones, E.W. 1958:430. (lowland species).

Ceratolejeunea - Vanden Berghen, C. 1951a:61; 1953:279; 1973:381.

Chaetolejeunea see under *Rectolejeunea*

Chandonanthus - Vanden Berghen, C. 1965:135.

Cheilolejeunea - Grolle, R. 1979:343; Jones, E.W. 1954b:380, 1973:548, 1976b:49, 1982:37.

Cheilolejeunea/Anomalolejeunea - Vanden Berghen, C. 1951d:364, 1953:278.

Cheilolejeunea/Euosmolejeunea - Jones, E.W. 1954a:375, 1973:551; Vanden Berghen, C. 1965:148.

Cheilolejeunea/Strepsilejeunea - Jones, E.W. 1985a:395, 1988:149; Vanden Berghen, C. 1960:133.

Chiloscyphus - Grolle, R. 1984:505; Jones, E.W. 1953d:172.

Chonecolea - Jones, E.W. 1985b:498.

Cladolejeunea - Zwickel, W. 1933:112.

Clasmatocolea - Engel, J.J. 1980:1; Grolle, R. 1960:78.; Grolle, R. & Vanden Berghen, C. 1970:385; Jones, E.W. 1987b:503.

Cololejeunea - Jones, E.W. 1954e:408; Pócs, T. 1975:353; 1980:305; 1985:113; Tixier, P.

- 1977:173 (Madagascan spp.); 1979:602.
- Cololejeunea* - species with acute leaves - Vanden Berghen, C. 1977:235.
- Cololejeunea* - species with dentate leaves - Jones, E.W. 1953b:158.
- Cololejeunea* - species with hyaline leaf margin - Jones, E.W. 1953a:144; Vanden Berghen, C. 1972:467.
- Cololejeunea* - species with papillate leaf margin - Vanden Berghen, C. 1977:232.
- Cololejeunea* - species with papillose dorsal leaf surface - Vanden Berghen, C. 1977:239.
- Cololejeunea/Lasiolejeunea* - Tixier, P. 1985:177.
- Cololejeunea/Pedinolejeunea* - Tixier, P. 1985:15.
- Cololejeunea/Taeniolejeunea* - Benedix, E.H. 1953; Jones, E.W. 1968b:569.
- Colura* - Jones, E.W. & Pócs, T. 1987:495; Jovet-Ast, S. 1953:206; 1954:1; 1956:272; 1958:19; 1976:909; 1980:277.
- Conoscyphus* - Engel, J.J. 1987:533; Piippo, S. 1985:129.
- Cyathodium* - Jones, E.W. 1952:55; Jovet-Ast, S. 1970:57.
- Cylindrocolea* - Jones, E.W. 1976b:46.
- Dicranolejeunea* - Jones, E.W. 1970a:72.
- Diplasiolejeunea* - Jones, E.W. 1973:552; Tixier, P. 1977:117; 1980:743; 1984:11; 1987:219; Vanden Berghen, C. 1960:119; 1977:216.
- Diplasiolejeunea/Pellucidiae* - Jones, E.W. 1954c:393; Tixier, P. 1985:331.
- Drepanolejeunea* - Jones, E.W. 1968b:567; Vanden Berghen, C. 1961:61.
- Drepanolejeunea/Kolpolejeunea* - Grolle, R. 1976:191.
- Euosmolejeunea* see under *Cheilolejeunea*
- Evansiolejeunea* - Vanden Berghen, C. 1965:151.
- Exormothea* - Schiffner, V. 1942:40.
- Frullania* - Vanden Berghen, C. 1976c:1; 1976b:335; 1982:207 (Madagascan species).
- Frullanoides* - van Slageren, M. 1985. (covers previous African *Brachiolejeunea*); Jones, E.W. 1968b:565; Vanden Berghen, C. 1951b:87; 1978:124.
- Gongylanthus* - Jones, E.W. 1964:649.
- Gottschea* see under *Schistochila*
- Gottschelia* - Grolle, R. 1968:13.
- Gymnocoleopsis* - Vana, J. 1982:79.
- Gymnomitrium* or *-um* - Vana, J. 1985:88.
- Harpalejeunea* - Arnell, S. 1965:75.
- Hygrolejeunea* see under *Lejeunea*
- Inflatolejeunea* see under *Lejeunea*
- Isotachis* - Vana, J. 1982:63; Vanden Berghen, C. 1965:130.
- Iwatsukia* - Grolle, R. & Onraedt, M. 1974:232; Vana, J. 1980:233.
- Jamesoniella* - Grolle, R. 1971:1.
- Jungermannia* - Vana, J. 1974:277; 1975:357.
- Kurzia* see under LEPIDOZIACEAE/LEPIDOZIOIDEAE
- Lejeunea* - Jones, E.W. 1979:389; 1984:159; 1985a:385.
- Lejeunea - L. eckloniana complex* - Jones, E.W. 1974b:77.
- Lejeunea - L. flava complex* - Jones, E.W. 1968a:548.
- Lejeunea - L. caespitosa* group (small, monoecious species) - Jones, E.W. 1972:36.
- Lejeunea* - (small, dioecious species) - Jones, E.W. 1972:23; 1989:665.
- Lejeunea/Chaetolejeunea* see under *Rectolejeunea*
- Lejeunea/Cladolejeunea* see under *Cladolejeunea*
- Lejeunea/Hygrolejeunea* - Vanden Berghen, C. 1961:65; 1972:438; 1977:202.
- Lejeunea/Inflatolejeunea* - Vanden Berghen, C. 1965:147.
- Lejeunea/Microlejeunea* see under *Microlejeunea*
- Lejeunea/Pleurolejeunea* - Jones, E.W. 1969:787.
- Lejeunea/Umbilicatae* (species with eplicate perianth) - Jones, E.W. 1967:299.
- LEJEUNEACEAE - Schuster, R.M. 1963. (generic key with annotations).
- LEJEUNEACEAE/PTYCHANTHOIDEAE - Gradstein, S.R. 1985:13.
- Lepidozia* see under LEPIDOZIACEAE/LEPIDOZIOIDEAE
- LEPIDOZIACEAE/LEPIDOZIOIDEAE - Pócs, T. 1984a. (discusses nomenclature & distribution of African *Arachniopsis*, *Kurzia*, *Lepidozia*, *Psiloclada*, *Sprucella* and *Telaranea*).
- Leptocolea* see *Cololejeunea*
- Leptolejeunea* - Vanden Berghen, C. 1961:58; 1963(1964):49; 1977:213.
- Leptoscyphus* - Grolle, R. 1962:1; Jones, E.W. 1953d:196.
- Leucolejeunea* - Jones, E.W. 1973:545.

Lophocolea see under *Chiloscyphus*
Lopholejeunea - Vanden Berghen, C. 1978:123; 1984a:393.
Lophozia - Vana, J. 1982:80.
Marchantia - Vanden Berghen, C. 1954:37.
 MARCHANTIALES - Vanden Berghen, C. 1965:166 (generic key).
Marchesinia - Jones, E.W. 1970a:78; Vanden Berghen, C. 1976a:926.
Marsupella - Vana, J. 1985:91.
Mastigolejeunea - Vanden Berghen, C. 1948a:49; 1951b:90. (sub *Brachiolejeunea nigra*).
Mastigophora - Vanden Berghen, C. 1973:365.
Metzgeria - Arnell, S. 1953:107 (S.Afr. spp.); Kuwahara, Y. 1973:566; 1986:1 (although deals with Neotropic species, many records of African taxa); Vanden Berghen, C. 1948:187; 1960:111.
Microlejeunea - Jones, E.W. 1969:775; 1979:394; Jovet-Ast, S. 1959:191; Vanden Berghen, C. 1965:143; 1977:204.
Nardia - Grolle, R. 1964:297.
Nesolejeunea see under *Lejeunea*
Notothylas - Hassel de Menendez, G. 1976:19.
Odontolejeunea - Vanden Berghen, C. 1963(1964):52; Teeuwer, M. 1989:1.
Odontoschisma - Grolle, R. 1960b:207.
Otolejeunea - Grolle, R. 1985:45; Tixier, P. 1980a:607.
Oxymitra - Garside, S. 1958:83 (all species considered).
Pallavicinia - Grolle, R. 1984:508; Vanden Berghen, C. 1965:164.
Paraschistochila see under *Schistochila*
Plagiochasma - Bischler, H. 1978:223.
Plagiochila - Jones, E.W. 1962:254; 1980:13; Vanden Berghen, C. 1981:41.
Pleurolejeunea see under *Lejeunea*
Porella - Jones, E.W. 1963:446.
Prionolejeunea - Vanden Berghen, C. 1952:170; 1973:383; 1977:209.
Ptychanthus - Vanden Berghen, C. 1951e:64.
Ptychocoleus see under *Schiffneriolejeunea*
Pycnolejeunea - Grolle, R. 1979a:179; Jones, E.W. 1979:397.
Radula - Jones, E.W. 1977:461; Yamada, K. 1975:115.
Rectolejeunea - Jones, E.W. 1974a:71.
Rectolejeunea/Chaetolejeunea - Jones, E.W. 1969:784.
Riccardia - Jones, E.W. 1956:74; Meenks, J. &

Pócs, T. 1985:81.
Riccia - Jones, E.W. 1957b:210; Gillet, H. & Jovet-Ast, S. 1957:62; Jovet-Ast, S. 1986:287 (N-Afr).
Ricciocarpus - Jones, E.W. 1957b:209.
Scapania - Arnell, S. 1957:26.
Schiffneriolejeunea - Jones, E.W. 1954d:396; 1982:45; Vanden Berghen, C. 1976a:925.
Schiffneriolejeunea/Pappeanae - Gradstein, S.R. & Vanden Berghen, C. 1985:173.
Schistochila - Grolle, R. & Zijlstra, G. 1984:87; Jones, E.W. 1976a:33.
Sprucella - Vanden Berghen, C. 1946:91; 1983:321.
Stenorrhypis - Grolle, R. 1963:441; Jones, E.W. 1968b:565.
Stictolejeunea - Gradstein, S.R. 1985:195; Jones, E.W. 1976b:50.
Strepsilejeunea see under *Cheilolejeunea*
Symbiezidium - Gradstein, S.R. & van Beek, J. 1985:221.
Symphogyna - Grolle, R. 1980:330; Vanden Berghen, C. 1965:156.
Szygiella - Jones, E.W. 1976b:48; Vana, J. 1985:81.
Taxilejeunea - Grolle 1974:93; Jones, E.W. 1967:289; 1976b:50.
Thysananthus - Vanden Berghen, C. 1950:35.
Tritomaria - Vana, J. 1982:78.
Tylimanthus - Jones, E.W. 1980:317.

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Arnell, S. 1957. Notes on South African Hepaticae. IV. Bot. Not. 110:17-27.
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Benedix, E.H. 1953. Indomalayische Cololejeuneen. Feddes Rep. Spec. nov. Beih. 134:1-88.
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- Grolle, R. 1976.** *Drepanolejeunea* subgen. *Kolpolejeunea* - eine neue Untergattung aus der Paläotropis. J. Hattori Bot. Lab. 40:191-216.
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- Jones, E.W. 1953c.** African Hepatics IV. The Genus *Caudalejeunea*. Trans. Brit. Bryol. Soc. 2:164.
- Jones, E.W. 1953d.** African Hepatics V. *Lophocolea*, with Notes on *Chiloscyphus* and *Leptoscyphus*. Trans. Brit. Bryol. Soc. 2:172-202.
- Jones, E.W. 1954a.** African Hepatics VI. *Eosmolejeunea*. Trans. Brit. Bryol. Soc. 2:375-379.
- Jones, E.W. 1954b.** African Hepatics VII. The Genus *Cheilolejeunea*. Trans. Brit. Bryol. Soc. 2:380-392.

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- Jones, E.W. 1954d.** African Hepatics IX. Some species of *Ptychocoleus*. Trans. Brit. Bryol. Soc. 2:396-407.
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Anacolia - De Sloover, J.-L. 1975d:313.

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Antitrichia - De Sloover, J.-L. 1976b:440.

Archidium - Snider, J.A. 1975:105.

Astomum - Onraedt, M. 1976:356.

Atractyloctopus - De Sloover, J.-L. 1973:336; Padberg, M. & Frahm, J.-P. 1985:315.

Atrichum see under POLYTRICHACEAE

Aulacopilum see under *Erpodium*

Blindia - De Sloover, J.-L. 1979:393.

Brachymenium see under BRYOIDEAE

Brachydontium - De Sloover, J.-L. 1973:334.

Brachymitrium - Koponen, A. 1977:196.

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BRYACEAE/BRYOIDEAE - Ochi, H. 1972:1; 1973:23.

Bryoerythrophyllum - De Sloover, J.-L. 1979:398.

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Bryum (*billardieri* group) - Mohamed, M.A.H. 1979:401 (other species see under BRYACEAE /BRYOIDEAE).

Callicostella see under *Schizomitrium*

Calliergon - Karcmarz, K. 1971.

Calymperes - Edwards, S.R. 1980:49 (West African species).

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Calypothecium - Argent, G.C.G. 1973b:563.

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Catagonium see under PLAGIOTHECIACEAE and PHYLLOGONIACEAE

Catharinea see under *Atrichum*

Conomitrium see under *Fissidens/Octodiceras* CRYPHAEEAE - Bizot, M. & Pócs, T. 1982:27 (generic key).

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Cyclodictyon - Demaret, F. & Potier de la Varde, R. 1951:11; De Sloover, J.-L. 1975a:107.

Chaetomitrium - Demaret, F. 1955:389.

Daltonia - Demaret, F. 1955:377.

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Distichophyllum - Crosby, M.R. 1976:713; De Sloover, J.-L. 1976b:445.

Distichophyllidium - Demaret, F. 1955:379.

Encalypta - Horton, D.G. 1982:365; 1983:353.

ENTODONTACEAE - Buck, W.R. 1980b:71 (generic revision).

Ephemerum - Townsend, C.C. 1981:695.

Eriopus see under *Calypstrochaeta*

ERPODIACEAE - Crum, H. 1973:201.

Eucladium - De Sloover, J.-L. 1976b:431.

Fabronia - Bizot, M. & Pócs, T. 1983:44.

FABRONIACEAE - Buck, W.R. 1980:45; 1981:473 (generic revisions).

Fissidens - Bizot, M. 1974:101; 1976:843; 1980:423; Bruggeman-Nannenga, M.A. 1978; Potier de la Varde, R. 1929:272.

Fissidens/Aloma - Potier de la Varde, R. 1943:25.

Fissidens/Octodiceras - Pursell, R.A. 1987:639.

Fissidens/Semilimbium - Dury, M.-N. 1974:1; Potier de la Varde, R. 1931:5.

Forsstroemia - Stark, L.S. 1987:133.

FUNARIACEAE - Fife, A.J. 1985:149; Ochyra, R. 1983:173 (generic revisions).

Gammiella see under SEMATOPHYLLACEAE/CLASTROBRYOIDEAE

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Herpetineuron - Gier, L.J. 1980:253.

Hildebrandtiella - Argent, G.C.G. 1973b:585;

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Homaliodendron - Ninh, T. 1984:1.
 HOOKERIAACEAE s.l. - Demaret, F. 1955:375.
Hookeriopsis - De Sloover, J.-L. 1975a:115; Demaret, F. 1955:381.
Hylocomiopsis - De Sloover, J.-L. 1976a:379.
Hypnella - Demaret, F. 1955:388.
Jaegerina - Allen, B.H., Crosby, M.R. & Magill, R.E. 1986:47; Argent, G.C.G. 1973a:367.
Jonesia see under *Jonesiobryum*
Jonesiobryum - Bizot, M., Pierrot, R.B. & Pócs, T. 1974:25 (as *Jonesia*).
Leiomela - Griffin, D. 1981:101; De Sloover, J.-L. 1975d:317; Reimers, H. 1935:405.
Lepidopilidium - Demaret, F. 1955.:383; De Sloover, J.-L. 1975a:117.
Lepidopilum - Demaret, F. 1955:386; De Sloover, J.-L. 1975a:120.
Leptodontium - De Sloover, J.-L. 1987:425; Zander, R.H. 1972:213 (American species, but many occur in Africa too).
 LEUCOBRYACEAE - Andrews, A.L. 1947:319 (generic treatment).
Leucodontopsis - Richards, P.W. & Argent, G.C.G. 1968:579.
Leucoloma - Renauld, F. 1909.
Leucomium - Allen, B.H. 1987:661.
Leucophanes - Onraedt, M. 1976:363.
Lindigia - De Sloover, J.-L. 1976b:442.
Loiseaubryum - Bizot, M. 1976:848; Ochyra, R. 1983:173.
Macrocoma - Magill, R.R. & Vitt, D.H. 1981:463; 1980:219.
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Meiothecium - Buck, W.R. 1982:137.
Mitthyridium - Nowak, H. 1980:1.
 MNIACEAE - Koponen, T. 1981:105.
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Neckera - De Sloover, J.-L. 1977a:32.
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Ochrobryum - Onraedt, M. 1976:378.
Octoblepharum - Egunyomi, A. 1978:141; Egunyomi, A., Harrington, A.J. & Olarinmoye, S.O. 1977:525.
Octodiceras see under *Fissidens/Octodiceras*
Oligotrichum - De Sloover, J.-L. 1979:406.
Oreoweisia - De Sloover, J.-L. 1975:103.
Orthodontium - De Sloover, J.-L. 1979:400; Meijer, W. 1952:3; Reimers, H. 1954:275.
Orthostichidium - Argent, G.C.G. 1973b:589; De Sloover J.-L. 1979:404.
Orthostichopsis - Argent, G.C.G. 1973b:597.
Orthotrichum - Lewinsky, J. 1978:61; Lewinsky, J. & van Rooy, J. 1990:67.
Pelekium - Touw, A. 1976:185.
 PHYLLOGONIAACEAE - Lin, S.H. 1983:37; 1984:1.
Physcomitrella - De Sloover, J.-L. 1975b:131.
Pilopogon - De Sloover, J.-L. 1979:395; Frahm, J.-P. 1983:99.
Pinnatella - Mattila, P. & Enroth, J. 1990:117.
Pirella see under *Pterobryon*
Plagiobryum see under BRYACEAE/BRYOIDAE
Plagiomnium - Koponen, T. 1981:105.
 PLAGIOTHECIAACEAE - Buck, W.R. & Ireland, R.R. 1985:89 (generic classification).
Pócsiella - Bizot, M. 1980:424.
Pogonatum see under POLYTRICHACEAE
 POLYTRICHACEAE - De Sloover, J.-L. 1986:241; Smith, G.L. 1971 (generic revision).
Porothamnium - De Sloover, J.-L. 1983:132.
Porotrichum - De Sloover, J.-L. 1983:100.
Prionodon - Griffin, D. 1970:653.
 PRIONODONTACEAE - Griffin, D. 1982:271.
Pseudephemerum - De Sloover, J.-L. 1976b:427.
Pseudoracelophus see under POLYTRICHACEAE
Pseudotimmiella - Bizot, M. 1980:425.
 PTEROBRYACEAE - Argent, G.C.G. 1973a:353; 1973b:563.
Pterobryon - Argent, G.C.G. 1973a:362.
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Rhabdoweisia - De Sloover, J.-L. 1973:340; Lawton, E. 1961:140; Richards, P.W. & Argent, G.C.G. 1968:573.

Rhachithecium - De Sloover, J.-L. 1976b:435; Jones, E.W. 1986:47.
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