Växtekologiska studier 11

Åke Sjödin

**Index to
distribution maps
of bryophytes
1887—1975
I. Musci**

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Abstract

Sjödin, Å., 1980, Index to distribution maps of bryophytes 1887-1975. I. Musci. Växtekol. stud. 11, Uppsala. 282 pp. Available from Sv. Växtgeogr. Sällsk. Box 559 - S 751 22 Uppsala, Sweden.

A world-wide list is given of about 5300 published distribution maps of Musci, the oldest known being Dusén's maps of several Sphagnum spp. The moss genera and spp. are listed in alphabetical order, using the nomenclature of the Index Muscorum. The location of the map is indicated, and there is a full list of references.

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Preface

In 1955 I received a small grant from Rutger Sernander's Forskningsfond in order to index distribution maps of cryptogamic plants. This volume contains the result of my work concerning the mosses (hepatics in preparation). From my earlier bibliographical activity, I have learned that it is impossible to find all maps, depending on the fact that many series are lacking in the libraries. Accordingly, readers may regard my treatise as a first attempt.

Regarding the nomenclature I have used the Index Muscorum, Part 1-5, 1959-69. I do not take a decided standpoint as to new combinations made after 1969, but for practical reasons I have arranged them according to the Index Muscorum. However, I like to stress that taxonomy and nomenclature especially of species of the genus *Sphagnum* have been considerably revised during the years after the publication of Index Muscorum (see among others Isoviita 1966 and 1970). In spite of this the *Sphagnum* nomenclature of Index Muscorum was used, except for *Sphagnum angermanicum* which has been treated as a good species and not as belonging to *S. rubellum*. Genera and species have been placed in the following order: subspecies, variety, forma.

In this volume nearly 5300 maps are listed. I have not considered it necessary to note the kind of map, e.g. maps with dots, lines, etc., since anyone who is interested in a particular species must study all maps mentioned. However, I have tried to describe the area of distribution in question, accompanied by the author's name and year of publication, which refers to the list of References. Example: *Abietinella abietina* (Hedw.) Fleisch. - Netherlands: VERDOORN 1927, p. 6, Fig. 3. Abbreviations of names of journals are according to "World List".

Many persons have given me valuable help. First of all my wife helped me in many practical ways. Dr. Olle Mårtensson cleared up a lot of taxonomical problems, and by placing his well-stocked bryological library at my disposal he made it possible for me to

complete this work. Dr. Erik Sjögren readily supported me through many friendly discussions, and devoted several months to the reading, correcting, and editing of this paper. Dr. Kuno Thomasson checked the references and introduced the abbreviations according to "World List". My niece Elisabet Lundqvist helped me in many ways, and efficiently assisted me to register the maps. Mrs. Märta Ekdahl typed this difficult manuscript with great skillfulness. Ignacy Bekier read the typed MS with care and accuracy. I wish to express my warmest gratitude to all these persons for their valuable contributions.

Readers will find that some maps are lacking in my Index because I have only recorded the first issue of a map and not unchanged reprints in later publications. On the other hand, maps which have been added to are listed. I would be most grateful for any information about missing maps printed up to 1975, preferably sent with a reprint or photocopy of the paper attached, under the address: Växtbiologiska Institutionen, Box 559, S-751 22 Uppsala, Sweden.

Uppsala in October 1979

- Åke Sjödin

Abbreviations

C.	Central
distr.	district
excl.	exclusive
incl.	including
lat.	latitude
long.	longitude
M.	Middle
orig.	origin
prov.	province
reg.	region

Swedish provinces:

Ång.	Ångermanland
Bh.	Bohuslän
Gtl.	Gotland
Hl.	Halland
Lpl.	Lappland
Nrk.	Närke
Sk.	Skåne
Sm.	Småland
Upl.	Uppland
Vg.	Västergötland
Vrm.	Värmland
Vsm.	Västmanland

other geographical names:

AuAgd.	Aust Agder (Norway)
Calif.	California (U.S.A.)
Fla.	Florida (U.S.A.)
Fnm.	Finmark (Norway)
Holst.	Holstein (BRD)
Mich.	Michigan (U.S.A.)
N.C.	North Carolina (U.S.A.)
Nyl.	Nyland (Uusimaa)(Finland)
Pa.	Pennsylvania (U.S.A.)
Rog.	Rogaland (Norway)
Schlesw.-Holst.	Schleswig-Holstein (BRD)
Sthlm.	Stockholm (Sweden)
Tel.	Telemark (Norway)
Wash.	Washington State (U.S.A.)
VAgd.	Vest Agder (Norway)
Wisc.	Wisconsin (U.S.A.)

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varium (Hedw.) Mitt. — England (Warwickshire): LAFLIN 1971, p. 704, Map 849 (Dicranella varia). USSR (Moldavia): SIMONOV 1972, p. 21. Denmark: RIEMANN 1973, p. 139, Fig. 1.

ANOECTANGIUM

aestivum (Hedw.) Mitt. — Finland (Kuusamo): TUOMIKOSKI 1939, p. 112, Karte 18.

bicolor Ren. et Card. — SE. Asia: GANGULEE 1972, p. 637, Map CLXXXV.

clarum Mitt. — SE. Asia: GANGULEE 1972, p. 633 Map CLXXXIV.

euchloron (Schwaegr.) Mitt. — N. America (S of lat. 40°N) and M. America: SHARP 1938, p. 142, Fig. 2. N. and M. America: SHARP 1939, p. 334, Fig. 12.

stracheyanum Mitt. — SE. Asia: GANGULEE 1972, p. 633, Map CLXXXIV.

tenuinerve (Limpr.) Par. — See *Molendoa sendtneriana* (B.S.G.)
Limpr. var. *tenuinervis* (Limpr.) Pilous.

thomsonii Mitt. — SE. Asia: GANGULEE 1972, p. 637, Map CLXXXV.

ANOMOBRYUM

auratum (Mitt.) Jaeg. — World: OCHI 1972, p. 63, Map 5 (*Bryum auratum*). World: GANGULEE 1974, p. 958, Map CCXCIII.

concinatum (Spruce) Lindb. — See *A. filiforme* (Dicks.) Husn. var. *concinatum* (Spruce) Loeske

filiforme (Dicks.) Husn. — E. Canada: KUCYNIK 1952c, p. 234, Fig. 1 (*Pohlia filiformis*). Japan and Formosa: OCHI 1959, p. 109, Map 3 (*Bryum julaceum*).

var. concinatum (Spruce) Loeske — Finland (Kuusamo): TUOMIKOSKI 1939, p. 112, Karte 18 (*A. concinatum*). World: GANGULEE 1974, p. 958, Map CCXCIII.

fuji-alpinum Tak. — Europe and Asia: BARDUNOV 1965, p. 49 (*Aongstroemia orientalis* var. *fuji-alpina*). N. Hemisphere: IWATSUKI & SHARP 1967, p. 167, Map b (*Aongstroemia fuji-alpina*). E. Asia and N. America: IWATSUKI 1972a, p. 130, Fig. 3 (*Aongstroemia fuji-alpina*). World: BARDUNOV 1974, p. 23 (*Aongstroemia fuji-alpina*).

lusitanicum (Luis.) Thér. — Iberia: P. ALLORGE 1947, p. 67, Fig. 6 (*Brachymenium lusitanicum*).

yasudae Broth. — Japan and Formosa: OCHI 1959, p. 116, Map 12 (*Bryum yasudae*).

ANOMODON

abbreviatus Mitt. — Japan: IWATSUKI 1963, p. 60, Map 2B.

acutifolius Mitt. — E. Asia: IWATSUKI 1963, p. 59, Map 1. Japan: WATANABE 1972, p. 251, Map 6B.

attenuatus (Hedw.) Hüb. — World: WISNIEWSKI 1930, Pl. 52. Sweden (Sk., Dalby Söderskog): WALDHEIM 1944b, p. 27, Fig. 2A and B. Denmark: KJ. HOLMEN et al. 1959, p. 141, Fig. 90; orig. Kjeld Holmen. W. France: TOUFFET 1969b, p. 54, Fig. 9. USSR (Moldavia): SIMONOV 1972, p. 47.

giraldii C. Müll. — Japan: IWATSUKI 1963, p. 60, Map 2C. Japan: WATANABE 1972, p. 248, Map 3D.

integerrimus Mitt. — E. Asia: IWATSUKI 1963, p. 59, Map 1 (A. minor ssp. integerrimus). Japan: IWATSUKI 1963, p. 60, Map 2A (A. minor ssp. integerrimus). Japan: WATANABE 1972, p. 249, Map 4B (A. minor ssp. integerrimus). World: BARDUNOV 1974, p. 121 (A. minor ssp. integerrimus).

longifolius (Brid.) Hartm. — Denmark: KJ. HOLMEN et al. 1959, p. 141, Fig. 89; orig. Kjeld Holmen. Japan: IWATSUKI 1963, p. 60, Map 2C. Japan: WATANABE 1972, p. 248, Map 3D.

minor (Hedw.) Lindb. — E. Asia and N. America: IWATSUKI 1958, p. 342, Fig. 5. E. Asia: IWATSUKI 1963, p. 59, Map 1 (A. thraustus). Japan: IWATSUKI 1963, p. 60, Map 2A (A. thraustus). Japan: WATANABE 1972, p. 249, Map 4B (A. thraustus).

ssp. integerrimus (Mitt.) Iwats. — See A. integerrimus Mitt.

rugelii (C. Müll.) Keissl. — Japan: IWATSUKI 1963, p. 60, Map 2B. Japan: WATANABE 1972, p. 248, Map 3C.

solovjovii Laz. — E. Asia: IWATSUKI 1963, p. 59, Map 1.

thraustus C. Müll. — See A. minor (Hedw.) Lindb.

viticulosus (Hedw.) Hook. et Tayl. — Denmark: KJ. HOLMEN et al. 1959, p. 142, Fig. 91; orig. Kjeld Holmen. E. Asia: IWATSUKI 1963, p. 59, Map 1. Japan: IWATSUKI 1963, p. 60, Map 2A. England (Warwickshire): LAFLIN 1971, p. 723, Map 927. USSR (Moldavia): SIMONOV 1972, p. 43. Japan: WATANABE 1972, p. 250, Map 5B.

(ANOMODON contin.)

World: IWATSUKI 1972b, p. 109, Fig. 1. Japan: IWATSUKI 1972b, p. 109, Fig. 1. Germany (Schlesw.-Holst.): FRAHM & WALSEMANN 1973, p. 125.

ANTITRICHIA

californica Sull. — Europe and N. America: P. ALLORGE 1947, p. 99, Fig. 11. Europe and N. Africa: MARTINCIC 1966, p. 55, Abb. 32. Corsica, Italy and W. Balkan: GIACOMINI 1951, p. 104, Carta 10 (A. hispanica). World: SCHOFIELD & CRUM 1972, p. 191, Map 32.

curtipendula (Hedw.) Brid. — Sweden: MÖLLER 1912, p. 72. Denmark: KJ. HOLMEN et al. 1959, p. 138, Fig. 76; orig. J. Gernaa. Norway: STÖRMER 1969, p. 52, Fig. 13. Europe: STÖRMER 1969, p. 52, Fig. 14. N. America, Greenland and Iceland: SCHOFIELD 1972, p. 1124, Fig. 24. Germany (Schlesw.-Holst.): FRAHM & WALSEMANN 1973, p. 122. The British Isles: J.H. DICKSON 1973, p. 123, Fig. 55; p. 125 (f), Fig. 56; p. 126 (f), Fig. 57. The British Isles: WHITEHOUSE et al. 1974, p. 128; orig. A.J.E. Smith.

ssp. pristioides (Glow.) Giac. — Yugoslavia: MARTINCIC 1966, p. 62, Abb. 36.

hispanica B.S.G. — See A. californica Sull.

AONGSTROEMIA

fuji-alpina (Tak.) Iwats. — See Anomobryum fuji-alpinum Tak.

julacea (Hook.) Mitt. — World: GANGULEE 1971, p. 243, Map LXVII.

orientalis Mitt. — N. Hemisphere: IWATSUKI & SHARP 1967, p. 167, Map b. E. Asia and N. America: IWATSUKI 1972a, p. 130, Fig. 3. World: GANGULEE 1971, p. 243, Map LXVII.

orientalis Mitt. var. fuji-alpina (Tak.) Tak. — See Anomobryum fuji-alpinum Tak.

AONGSTROEMIOPSIS

julacea (Doz. et Molk.) Fleisch. — SE. Asia: GANGULEE 1971, p. 245, Map LXVIII.

APLODON

wormskjoldii (Hornem.) R. Br. — N. Hemisphere: STEERE 1953a, p. 45, Fig. 10 (Haplodon wormskjoldii). N. Hemisphere: GAMS 1955, p. 84, Fig. 5 (Haplodon wormskjoldii). Spitzbergen: KUC 1973a, p. 461, Fig. 40 (Haplodon wormskjoldii). N. Hemisphere: STEERE 1973, p. 352, Fig. 5.

APTYCHELLA

robusta (Broth.) Fleisch. — SE. Asia, Australia and Oceania:
WANG 1970, p. 414, Fig. 44.

ARCHIDIELLA

dinteri Irmsch. — Africa: SNIDER 1975, p. 111, Map 5 (Archidium dinteri).

ARCHIDIUM

acanthophyllum Snider — Africa: SNIDER 1975, p. 111, Map 5.

alternifolium (Hedw.) Mitt. — World: KORCZAGIN 1951, p. 225.
Germany (Schlesw.-Holst.): N. JENSEN 1955, p. 89, Karte 7. Hungary,
Rumania and adjacent countries: ORBÁN & DEBRECZY 1973, p. 95,
Karte 4. Hungary, Rumania and adjacent countries: ORBÁN & DEBRECZY
1973, p. 96, Karte 5 (Pleuridium alternifolium). N. America: SNIDER
1975, p. 108, Map 2. Europe: SNIDER 1975, p. 109, Map 3. Africa and
Macaronesia: SNIDER 1975, p. 111, Map 5. N. America: SNIDER 1975,
p. 108, Map 1 (A. tenerimum). Africa (Cape reg.): SNIDER 1975,
p. 111, Map 5 (A. rehmannii).

amplexicaule C. Müll. — Africa (Cape reg.): SNIDER 1975, p. 111,
Map 5. S. America (M. part): SNIDER 1975, p. 112, Map 6.

andersonianum Snider — Africa (Cape reg.): SNIDER 1975, p. 111,
Map 5.

birmannicum Mitt. ex Dix. — SE. Asia: GANGULEE 1971, p. 174,
Map XLIII. SE. Asia: SNIDER 1975, p. 112, Map 7. E. Australia and
New Guinea: SNIDER 1975, p. 113, Map 8.

brevinerve P. Vard. — Africa: SNIDER 1975, p. 111, Map 5.

capense Hornsch. — Africa (Cape reg.): SNIDER 1975, p. 111, Map 5.

clavatum I.G. Stone — E. Australia: SNIDER 1975, p. 113, Map 8.

cubense Williams — N. America and Cuba: SNIDER 1975, p. 108, Map 1.

dinteri (Irmsch.) Snider — See Archidiella dinteri Irmsch.

donnellii Aust. — N. America: SNIDER 1975, p. 108, Map 1.

elatum Dix. et Sainsb. — E. Australia and New Zealand: SNIDER 1975,
p. 113, Map 8.

(ARCHIDIUM contin.)

hallii Aust. — USA, M. and S. America: SNIDER & BOWERS 1974, p. 640, Fig. 1. N. America: SNIDER 1975, p. 108, Map 1. (A. hallii and A. minus). S. America (M. part): SNIDER 1975, p. 112, Map 6.

indicum C. Müll. — SE. Asia: GANGULEE 1971, p. 174, Map XLIII. SE. Asia: SNIDER 1975, p. 112, Map 7.

julaceum C. Müll. — S. America (M. part): SNIDER 1975, p. 112, Map 6.

julicaule C. Müll. — See *Pleuridium nervosum* (Hook.) Mitt.

laxirete P. Vard. — Africa: SNIDER 1975, p. 111, Map 5.

microthecium Dix. et P. Vard. — SE. Asia: GANGULEE 1971, p. 174, Map XLIII. Africa: SNIDER 1975, p. 111, Map 5. SE. Asia: SNIDER 1975, p. 112, Map 7.

minus (Ren. et Card.) Snider — See A. hallii Aust.

muellerianum Snider — Africa (Cape reg.): SNIDER 1975, p. 111, Map 5.

octosporum Dix. et P. Vard. — SE. Asia: GANGULEE 1971, p. 174, Map XLIII.

ohioense Schimp. ex C. Müll. — N. America: SNIDER 1975, p. 110, Map 4. Africa: SNIDER 1975, p. 111, Map 5. SE. Asia: SNIDER 1975, p. 112, Map 7. E. Australia and New Caledonia: SNIDER 1975, p. 113, Map 8.

rehmanni Mitt. — See A. alternifolium (Hedw.) Mitt.

rothii Watts. ex Roth — E. Australia: SNIDER 1975, p. 113, Map 8.

stellatum I.G. Stone — E. Australia: SNIDER 1975, p. 113, Map 8.

subulatum C. Müll. — Africa (Cape reg.): SNIDER 1975, p. 111, Map 5.

tenerrimum Mitt. — See A. alternifolium (Hedw.) Mitt.

ARCTOA

anderssonii Wich. — See A. fulvella (Dicks.) B.S.G. var. anderssonii (Wich.) Grout

(ARCTOA contin.)

fulvella (Dicks.) B.S.G. — Switzerland: J. AMANN 1928, p. 437, Fig. 13 (*Dicranum fulvellum*). The British Isles: WHITEHOUSE et al. 1970, p. 148; orig. A.C. Crundwell & A. Mcg. Stirling. N. America, Greenland and Iceland: SCHOFIELD 1972, p. 1125, Fig. 25. Spitzbergen KUC 1973a, p. 456, Fig. 19.

var. anderssonii (Wich.) Grout — N. Canada: KUC 1973b, p. 50, Fig. 17 (*A. anderssonii*). NW. Canada (Axel Heiberg Island): KUC 1973b, p. 53, Fig. 18 (*A. anderssonii*).

ASCHISMA

carniolicum (Web. et Mohr) Lindb. — Portugal : SERGIO 1972, Est. III.

kansanum Andrews — USA (Kansas): CRIDLAND 1959, p. 133.

ASTOMUM

crispum (Hedw.) Hampe — Iberia: SERÓ 1951, p. 97. S. Poland: KUC 1964, p. 84, Ryc. 20 (*Weisia crispa*). USSR (Moldavia): SIMONOV 1972, p. 25.

ATRACTYLOCARPUS

alpinus (Milde) Lindb. — Switzerland: J. AMANN 1928, p. 437, Fig. 13 (*Metzleria alpina*).

erectifolius Mitt. ex Dix. — SE. Asia: GANGULEE 1971, p. 337, Map XCVI.

sinensis (Broth.) Herz. — SE. Asia: GANGULEE 1971, p. 337, Map XCVI.

ATRICHUM

angustatum (Brid.) B.S.G. — Sweden: MÖLLER 1919, p. 71 (*Catharinea angustata*). USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 199. Poland (Upper Wislok): WACLAWSKA 1957, p. 98, Fig. 2 (*Catharinea angustata*). Latvia: ABOLIN 1968, p. 80. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 63, Ryc. 4. The British Isles: WHITEHOUSE et al. 1975b, p. 495; orig. F. Rose.

crispum (Jam.) Sull. et Lesq. — USA (E. part): SHARP 1939, p. 333, Fig. 7. USA (Pa.): MOUL 1952, p. 149, Fig. 8. The British Isles: WHITEHOUSE et al. 1967, p. 362; orig. A.J.E. Smith. E. North America: IRELAND 1969b, p. 355, Fig. 1. World: SCHOFIELD & CRUM 1972, p. 192, Map 36.

(*ATRICHUM* contin.)

flavisetum Mitt. — E. Asia: GANGULEE 1969, p. 77, Map XIX.

haussknechtii Jur. et Milde — See *A. undulatum* (Hedw.) P. Beauv.
var. gracilisetum Besch.

laevifolium (Lindb. et Arn.) Kindb. — USSR: ABRAMOVA, LADYZHENSKAJA
& SAVICZ-LJUBITZKAJA 1954, p. 197.

longifolium Gangulee — E. Asia: GANGULEE 1969, p. 80, Map XX.

obtusulum (C. Müll.) Jaeg. — E. Asia: GANGULEE 1969, p. 77,
Map XIX.

pallidum Ren. et Card. Indian Peninsula: GANGULEE 1969, p. 80,
Map XX.

spinulosum (Card.) Miz. — Japan: NOGUCHI & OSADA 1960, p. 143,
Map 4.

tenellum (Röhl.) B.S.G. — Sweden: MÖLLER 1919, p. 71 (*Catharinaea*
tenella). N. Sweden, N. Norway, Finland and W. USSR: KOTILAINEN
1929, Karte 4 (*Mnium orthorhynchum* Brid.). Sweden (Sk.): WALDHEIM
1947, p. 178, Fig. 34. USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-
-LJUBITZKAJA 1954, p. 202. S. Poland: KUC 1964, p. 59, Ryc. 12.
Europe: MARTINCIC 1966, p. 42, Abb. 21. N. Germany: PANKOW & KÜHNER
1967, Tab. 19. Latvia: ABOLIN 1968, p. 80. The British Isles:
WHITEHOUSE et al. 1970, p. 154; orig. A.C. Crundwell & A. McG.
Stirling (*Mnium orthorhynchum* Brid.). Spitzbergen: KUC 1973a,
p. 465, Fig. 53 (*Mnium orthorhynchum* Brid.). Poland (NW. Sudet).
WILCZYŃSKA 1974, p. 64, Ryc. 5. The British Isles: WHITEHOUSE et al.
1975b, p. 496; orig. F. Rose. Hungary, Rumania and adjacent
countries: ORBAN 1975, p. 71, Karte 3 (*Mnium orthorhynchum* Brid.).

undulatum (Hedw.) P. Beauv. — Sweden: MÖLLER 1919, p. 71
(*Catharinaea undulata*). USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-
-LJUBITZKAJA 1954, p. 191. Japan: NOGUCHI & OSADA 1960, p. 134,
Map 1. World: GANGULEE 1969, p. 75, Map XVIII. England (Warwick-
shire): LAFLIN 1971, p. 699, Map 830. USSR (Moldavia): SIMONOV 1972,
p. 17.

var. gracilisetum Besch. — E. Germany, Poland and Czechoslovakia:
SZAFRAN 1948, p. 54, Ryc. 29 (*Catharinaea haussknechtii*). USSR:
ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 197

(ATRICHUM contin.)

(*A. haussknechtii*). Poland (Upper Wislok): WACLAWSKA 1957, p. 98, Fig. 2 (*Catharinea haussknechtii*). Hungary: VAJDA 1957, p. 90, Fig. 2 (*Catharinea haussknechtii*). Japan: NOGUCHI & OSADA 1960, p. 139, Map 3 (*A. undulatum* var. *haussknechtii*). Poland (E. Lublin upland): KARCZMARZ & KUC 1962, p. 486, Fig. 1 (*Catharinea haussknechtii*). Poland: KUC 1964, p. 58, Ryc. 10 (*A. haussknechtii*). S. Poland (W. Carpathians): SZAFRAN 1965, p. 606, Fig. 1 (*Catharinea haussknechtii*). S. Poland (W. Carpathians): LISOWSKI & KORNAS 1966, p. 69, Fig. 10 (*A. haussknechtii*). Latvia: ABOLIN 1968, p. 80 (*A. haussknechtii*). World: GANGULEE 1969, p. 75, Map XVIII (*A. undulatum* var. *haussknechtii*). Poland (NW. Sudet): WILCZYŃSKA 1974, p. 61, Ryc. 2 (*A. haussknechtii*).

var. haussknechtii (Jur. et Milde) Frye — See *A. undulatum* (Hedw.) P. Beauv. var. *gracilisetum* Besch.

var. minus (Hedw.) Thér. et Mong. — Sweden: MÖLLER 1919, p. 71 (*Catharinea undulata* var. *minor*). Japan: NOGUCHI & OSADA 1960, p. 136, Map 2.

var. suberratum (Hook.) Par. — World: GANGULEE 1969, p. 75, Map XVIII.

yakushimense (Horik.) Miz. — Japan: NOGUCHI & OSADA 1960, p. 143, Map 4.

AULACOMNIUM

acuminatum (Lindb. et Arn.) Par. — W. Arctic: PERSSON 1949, p. 500, Fig. 1. N. Hemisphere: STEERE 1953a, p. 41, Fig. 1. N. Hemisphere: GAMS 1955, p. 84, Fig. 6. W. Greenland: KJ. HOLMEN 1957, p. 4, Fig. 1.

androgynum (Hedw.) Schwaegr. — Sweden: PERSSON 1940b, p. 190, Fig. 1. Denmark: CHRISTENSEN 1947, p. 217, Fig. 1. Japan and Korea: HORIKAWA 1951, p. 24, Map 4. Denmark: KJ. HOLMEN et al. 1959, p. 133, Fig. 58; orig. P. Ølgaard. Poland (Sokolów Podlaski distr.): MICKIEWICZ 1960, p. 408, Fig. 2. NE. Poland (Suwałki reg.): MICKIEWICZ, REJMENT GROCHOWSKA & SOBOTKA 1963, p. 260, Fig. 1.

NE. Belgium (Limburg): BARKMAN 1963b, p. 17, Kaart V. S. Poland: KUC 1964, p. 136, Ryc. 29. Latvia: ABOLIN 1968, p. 204. Norway (S of lat. 66°N) STÖRMER 1969, p. 54, Fig. 15. Europe, N. Africa and W. Asia: STÖRMER 1969, p. 55, Fig. 16. England (Warwickshire): LAFLIN 1971, p. 720, Map 914.

(AULACOMNIUM contin.)

heterostichum (Hedw.) B.S.G. — E. Asia and N. America: IWATSUKI 1958, p. 342, Fig. 5. Japan and Korea: HORIKAWA 1951, p. 24, Map 4. World: SCHOFIELD & CRUM 1972, p. 182, Map 4.

palustre (Hedw.) Schwaegr. — NW. Netherlands (Alkmar reg.): BARKMAN 1941, p. 336, Fig. 9. Japan and Korea: HORIKAWA 1951, p. 24, Map 4. Denmark: KJ. HOLMEN et al. 1959, p. 132, Fig. 57; orig. P. Ølgaard. England (Warwickshire): LAFLIN 1971, p. 720, Map 913. The British Isles: J.H. DICKSON 1973, p. 105 (f), Fig. 45. World: GANGULEE 1974, p. 1071, Map CCCXIX. World: SCHOFIELD 1974, p. 22, Map 14.

turgidum (Wg.) Schwaegr. — Japan and Korea: HORIKAWA 1951, p. 24, Map 4. The British Isles: WHITEHOUSE et al. 1968, p. 599; orig. H.J.B. Birks. World: GANGULEE 1974, p. 1071, Map CCCXIX.

BARBELLA

determesii (Ren. et Card.) Fleisch. — Japan: NOGUCHI 1951, p. 17, Map 61.

pendula (Sull.) Fleisch. — World: WANG 1970, p. 414. Fig. 45.

BARBULA

acuta (Brid.) Brid. — USSR (Moldavia): SIMONOV 1972, p. 27.

ssp. icmadophila (C. Müll.) Podp. — NW: Canada (Axel Heiberg Island): KUC 1973b, p. 63, Fig. 22 (B. icmadophila). N. Canada: KUC 1973b, p. 64, Fig. 23 (B. icmadophila).

asperifolia Mitt. — Canada: KUCYNIK 1950, p. 308, Fig. 1 (Didymodon rufus). SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 54. World: GANGULEE 1972, p. 709, Map CCXII. N. America, Greenland and Iceland: SCHOFIELD 1972, p. 1120, Fig. 5 (Didymodon asperifolius).

austriaca (Schiffn. et Baumg.) Boros et Polg. — See Didymodon cordatus Jur. ssp. austriacus (Schiffn. et Baumg.) Wijk et Marg.

confertifolia Mitt. — Indian Peninsula: GANGULEE 1972, p. 694, Map CCVII.

constricta Mitt. — World: GANGULEE 1972, p. 702, Map CCX.

convoluta Hedw. — See Streblotrichum convolutum (Hedw.) P. Beauv.

(*BARBULA* contin.)

cylindrica (Tayl.) Schimp. — See *B. vinealis* Brid. ssp. *cylindrica* (Tayl.) Boul.

fallax Hedw. — England (Warwickshire): LAFLIN 1971, p. 711, Map 878.

ssp. *adriatica* (Baumg.) Giac. — Europa: MARTINCIC 1966, p. 50, Abb. 27. Jugoslavia: MARTINCIC 1966, p. 63, Abb. 38.

fuscescens Wallich — World: GANGULEE 1972, p. 709, Map CCXII.

gigantea Funck — See *Geheebia gigantea* (Funck) Boul.

gregaria (Mitt.) Jaeg. — See *Pseudosymblypharis duriuscula* (Mitt.) Chen

hastata Mitt. — World: GANGULEE 1972, p. 696, Map CCVIII.

hornschuchiana Schultz — Sweden (S of lat 60°N): WALDHEIM 1935b, p. 447, Fig. 2. Sweden (Sk., Nävlingeås district): WEIMARCK 1944, p. 52, Fig. 22. Sweden (Sk., Sjöbo district): WALDHEIM 1947, p. 118, Fig. 15. Sweden (Sk.): WALDHEIM 1947, p. 168, Fig. 27. Slovakia: PILOUS 1957b, p. 247, Obr. 3 (*Tortula hornschuchiana*). S. Poland (Miechów reg.): WACLAWSKA 1959, p. 324, Fig. 1. S. Poland: KUC 1964, p. 91, Ryc. 22. England (Warwickshire): LAFLIN 1971, p. 711, Map 877. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 62, Ryc. 3.

horricomis C. Müll. ex Gang. — SE. Asia: GANGULEE 1972, p. 699, Map CCIX.

icmadophila Schimp. ex C. Müll. — See *B. acuta* (Brid.) Brid. ssp. *icmadophila* (C. Müll.) Podp.

johansenii Williams — N. Hemisphere: STEERE 1953a, p. 44, Fig. 8. N. Hemisphere: GAMS 1955, p. 83, Fig. 4. N. Hemisphere: SAVICZ-LJUBITZKAJA 1964, p. 291. World: ABRAMOVA & MAMATKULOV 1966, p. 43. NW. Canada (Axel Heiberg Island) KUC 1973b, p. 63, Fig. 22. N. Canada: KUC 1973b, p. 64, Fig. 23. World: BARDUNOV 1974, p. 23. N. America: PACKER & VITT 1974, p. 1399, Fig. 3 (*Didymodon johansenii*).

leucodontoides Gang. — SE. Asia: GANGULEE 1972, p. 694, Map CCVII.

marginatula C. Müll. ex Gang. — SE. Asia: GANGULEE 1972, p. 699, Map CCIX.

(*BARBULA* contin.)

michiganensis Steere — World: GANGULEE 1972, p. 696, Map CCVIII.

nigrescens Mitt. — World: GANGULEE 1972, p. 702, Map CCX.

reflexa (Brid.) Brid. — Finland (S of the polar circle): TUOMIKOSKI 1939, p. 105, Karte 14. S. Poland (W. Carpathians): LISOWSKI & KORNAS 1966, p. 62, Fig. 3.

revoluta Brid. — Poland: KUC 1964, p. 23, Ryc. 5. SW. Germany: DÜLL 1969, p. 294, Taf. 4. England (Warwickshire): LAFLIN 1971, p. 711, Map 876. USSR (Moldavia): SIMONOV 1972, p. 25.

rigidula (Hedw.) Mitt. — See *Didymodon rigidulus* Hedw.

rufa (Lor.) Jur. — See *B. asperifolia* Mitt.

sinuosa (Mitt.) Grav. — Switzerland: J. AMANN 1928, p. 431, Fig. 10. England (Kent): ROSE 1951, p. 428, Fig. 2 (*Trichostomum sinuosum*). England (Warwickshire) LAFLIN 1971, p. 713, Map 886 (*Trichostomum sinuosum*).

spadicea (Mitt.) Braithw. — See *Didymodon spadiceus* (Mitt.) Limpr.

tophacea (Brid.) Mitt. — See *Didymodon tophaceus* (Brid.) Lisa.

trifaria (Hedw.) Mitt. — See *Didymodon trifarius* (Hedw.) Röhl.

unguiculata Hedw. — England (Warwickshire) LAFLIN 1971, p. 710, Map 875. USSR (Moldavia): SIMONOV 1972, p. 27.

vinealis Brid. — England (Warwickshire): LAFLIN 1971, p. 712, Map 883. World: GANGULEE 1972, p. 705, Map CCXI.

ssp. cylindrica (Tayl.) Bouv. — Sweden (Sk., Dalby Söderskog): WALDHEIM 1944b, p. 32, Fig. 3A (*B. cylindrica*). England (Warwickshire): LAFLIN 1971, p. 712, Map 882 (*B. cylindrica*).

BARTRAMIA

aurescens Dix. — World (S of lat. 57°N): IWATSUKI 1972a, p. 128, Fig. 1 (*Anacolia aurescens*).

halleriana Hedw. — Sweden: MÖLLER 1925, p. 128 (*B. norvegica*). Japan: OCHI 1963, Pl. 19. S. Poland (W. Carpathians): LISOWSKI & KORNAS 1966, p. 68, Fig. 9. World: GANGULEE 1974, p. 1090, Map CCCXXIV.

(BARTRAMIA contin.)

ithyphylla Brid. — Sweden: MÖLLER 1925, p. 128. Denmark: KJ. HOLMEN et al. 1959, p. 135, Fig. 66; orig. V. Tommerup Jensen. Japan and Formosa: OCHI 1963, Pl. 18. Yugoslavia: MARTINCIC 1966, p. 27, Abb. 11. W. France: TOUFFET 1969b, p. 56, Fig. 13. Germany (Schlesw.-Holst.) FRAHM & WALSEMANN 1973, p. 113. NW. Canada (Axel Heiberg Island): KUC 1973b, p. 86, Fig. 31. World: GANGULEE 1974, p. 1096, Map CCCXXVI. Greenland: LEWINSKY & MOGENSEN 1975, p. 109.

ssp. strigosa (Wg.) Kindb. — Sweden: MÖLLER 1925, p. 128.

leptodonta Wils. — World: GANGULEE 1974, p. 1093, Map CCCXXV.

norvegica Lindb. — See *B. halleriana* Hedw.

oederi Brid. — See *Plagiopus oederi* (Brid.) Limpr.

patens Brid. — S. Georgia: NEWTON 1974, p. 63, Fig. 3.

pomiformis Hedw. — Sweden: MÖLLER 1925, p. 128. Denmark: KJ. HOLMEN et al. 1959, p. 134, Fig. 65; orig. V. Tommerup Jensen. Poland: MICKIEWICZ 1972, p. 233, Fig. 1. Greenland: LEWINSKY & MOGENSEN 1975, p. 110.

var. crispa (Brid.) B.S.G. — See *B. pomiformis* Hedw. var. *elongata* Turn.

var. elongata Turn. — Sweden: MÖLLER 1925, p. 128 (*B. pomiformis* var. *crispa*). Denmark: KJ. HOLMEN et al. 1959, p. 135, Fig. 65a, orig. V. Tommerup Jensen (*B. pomiformis* var. *crispa*). World: GANGULEE 1974, p. 1090, Map CCCXXIV.

var. heteromalla (Brid.) C. Müll. — Sweden: MÖLLER 1925, p. 129.

stricta Brid. — World: MARTINCIC 1966, p. 50, Abb. 3. Yugoslavia: MARTINCIC 1966, p. 62, Abb. 35.

subpellucida Mitt. — World: GANGULEE 1974, p. 1096, Map CCCXXVI.

subsymmetrica Card. — See *Exodokidium subsymmetricum* (Card.) Card.

subulata B.S.G. — World: GANGULEE 1974, p. 1093, Map CCCXXV.

BARTRAMIDULA

bartramioides (Griff.) Wijk et Marg. — SE. Asia: GANGULEE 1974, p. 1106, Map CCCXXX.

(BARTRAMIDULA contin.)

cernua (Wils.) Lindb. — Europe, Africa, Asia and Australia: WANG 1970, p. 406, Fig. 28 (B. wilsoni).

roylei (Hook. f.) B.S.G. — SE. Asia: GANGULEE 1974, p. 1106, Map CCCXXX.

wilsoni B.S.G. — See B. cernua (Wils.) Lindb.

BARTRAMIOPSIS

lescurii (James) Kindb. — See Lyellia lescurii (James) Salm.

BELLIBARBULA

kurziana Chen — World: GANGULEE 1972, p. 714, Map CCXIV.

obtusicuspis (Besch.) Chen — World: GANGULEE 1972, p. 714, Map CCXIV.

BLINDIA

acuta (Hedw.) B.S.G. — SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 45. Yugoslavia: MARTINCIC 1966, p. 28, Abb. 13. S. Poland (W. Carpathians): LISOWSKI & KORNAŚ 1966, p. 64, Fig. 5. S. Germany: PHILIPPI 1972, p. 741, Abb. 38. Spitzbergen: KUC 1973a, p. 455, Fig. 16.

magellanica Schimp. — World: IRMSCHER 1929, Taf. 17, Fig. 17.

polaris (Berggr.) Hag. — See Seligeria polaris Berggr.

sordida (Mitt.) C. Müll. — World: GANGULEE 1971, p. 320, Map XCI (Dicranodontium sordidum).

BOULAYA

mittenii (Broth.) Card. — E. Asia: HORIKAWA 1955a, p. 116, Map 40. Japan: WATANABE 1972, p. 248, Map 3B. E. Asia: HORIKAWA 1972, Map 480.

BRACHYDONTIUM

trichodes (Web.) Milde — Yugoslavia: MARTINCIC 1966, p. 44, Abb. 24. Norway (S of lat. 66°N): STÖRMER 1969, p. 171, Fig. 110. Europe and W. Asia: STÖRMER 1969, p. 172, Fig. 111. W. France: TOUFFET 1969b, p. 54, Fig. 10. Hungary, Rumania and adjacent countries: ORBÁN 1974, p. 65, Karte 7.

BRACHYMENTIUM

acuminatum Harv. — World: OCHI 1972, p. 58, Map 3. World: GANGULEE 1974, p. 950, Map CCXC.

alpinum Ochi — SE. Asia: GANGULEE 1974, p. 944, Map CCLXXXIX.

angolense (Welw. et Dub.) Jaeg. — World: OCHI 1972, p. 63, Map 5.

bryoides Hook. ex Schwaegr. — SE. Asia: GANGULEE 1974, p. 944, Map CCLXXXIX.

exile (Doz. et Molk.) Bosch et Lac. — World: OCHI 1972, p. 58, Map 3. SE. Asia: GANGULEE 1974, p. 944, Map CCLXXXIX.

huillense (Welw. et Dub.) Jaeg. — World (between 30°W - 180°E): OCHI 1972, p. 56, Map 2 (Bryum huillense).

indicum (Doz. et Molk.) Bosch et Lac. — SE. Asia: GANGULEE 1974, p. 944, Map CCLXXXIX.

leptophyllum (C. Müll.) Bruch et Schimp. ex Jaeg. — Africa and Madagascar: OCHI 1973, p. 34, Map 2.

longicolle Thér. — World: GANGULEE 1974, p. 938, Map CCLXXXVIII.

longidens Ren. et Card. — SE. Asia: GANGULEE 1974, p. 932, Map CCLXXXVII.

lusitanicum Hag. — See Anomobryum lusitanicum (Luis.) Thér.

melanothecium (C. Müll.) Jaeg. — Indomalayan Islands, Australia and Oceania: MILLER, WHITTIER & BONNER 1963, Pl. 26.

microstomum Harv. — SE. Asia: GANGULEE 1974, p. 944, Map CCLXXXIX.

nepalense Hook. — World: OCHI 1972, p. 58, Map 3. World: GANGULEE 1974, p. 938, Map CCLXXXVIII.

ochianum Gang. — SE. Asia: GANGULEE 1974, p. 932, Map CCLXXXVII.

ptychothecium (Besch.) Ochi — See Bryum ptychothecium Besch.

pulchrum Hook. — World: OCHI 1972, p. 63, Map 5.

sikkimense Ren. et Card. — SE. Asia: GANGULEE 1974, p. 944, Map CCLXXXIX.

systylium (C. Müll.) Jaeg. — S. USA, M. America and the Antilles: SCHORNHERST 1943, p. 517, Map 3.

walkeri Broth. — World: GANGULEE 1974, p. 950, Map CCXC.

BRACHYSTELEUM

polyphyllum (Sw.) Hornsch. — See *Ptychomitrium polyphyllum* (Sw.) B.S.G.

BRACHYTHECIUM

albicans (Hedw.) B.S.G. — See *Chamberlainia albicans* (Hedw.)

Robins

auriculatum Jaeg. — See *Camptothecium auriculatum* (Jaeg.) Broth.

brotheri Par. — Japan: TAKAKI 1956, p. 62, Map 2.

buchanani (Hook.) Jaeg. — SE. Asia: WANG 1970, p. 411, Fig. 38.

cirrosum (Schwaegr.) Schimp. — SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 80 (*Cirriphyllum cirrosum*). Yugoslavia: MARTINCIC 1966, p. 13, Abb. 6 (*Cirriphyllum cirrosum*). Spitzbergen: KUC 1973a, p. 470, Fig. 75 (*Cirriphyllum cirrosum*).

collinum (C. Müll.) B.S.G. — See *Chamberlainia collina* (C. Müll.)

Robins.

frigidum (C. Müll.) Besch. — N. Hemisphere: ROBINSON 1963, p. 137, Fig. 1.

geheebii Milde — Poland: KUC 1964, p. 177, Ryc. 41. S. Poland (W. Carpathians): SZAFRAN 1965, p. 606, Fig. 1. S. Poland (W. Carpathians): LISOWSKI & KORNAŚ 1966, p. 67, Fig. 8. S. Norway: WIGH 1973, p. 322, Fig. 2 (*Homalothecium geheebii*). Poland (Silesia): BERDOWSKI 1974, p. 24, Mapa 4.

glareosum (Spruce) B.S.G. — Latvia: ABOLIN 1968, p. 270. England (Warwickshire): LAFLIN 1971, p. 728, Map 945.

groenlandicum (C. Jens.) Schljak. — World: SLJAKOV 1961, p. 216.

helminthocladum Broth. et Par. — Japan: TAKAKI 1956, p. 62, Map 2.

hyloetapetum Hig. et Hig. — N. America: HIGINBOTHAM & HIGINBOTHAM 1958, p. 346, Map 1.

latifolium Kindb. — Finland (Kuusamo): TUOMIKOSKI 1939, p. 112, Karte 19.

mildeanum (Schimp.) Schimp. — Sweden: KRUSENSTJERNA 1945, p. 174, Karta 8. England (Warwickshire): LAFLIN 1971, p. 728, Map 946. USSR (Moldavia): SIMONOV 1972, p. 55.

(BRACHYTHECIUM contin.)

myurelliforme Dix. — Afghanistan: W. FREY 1972, p. 133, Abb. 2.

piliferum (Hedw.) Kindb. — Canada (Quebec): KUCYNIK 1954b, p. 105 (Cirriphyllum piliferum). England (Warwickshire): LAFLIN 1971, p. 730, Map 952 (Cirriphyllum piliferum).

reflexum (Starke) B.S.G. — Japan: TAKAKI 1956, p. 62, Map 2.

SW. Poland: KUC 1956, p. 637, Fig. 5. S. Poland: KUC 1964, p. 179, Ryc. 42. Poland (Silesia): BERDOWSKI 1974, p. 33, Mapa 7.

rivulare B.S.G. — Sweden (Sk., Dalby Söderskog): WALDHEIM 1944b, p. 52, Fig. 5. England (Warwickshire): LAFLIN 1971, p. 729, Map 948. USSR (Moldavia): SIMONOV 1972, p. 55.

rutabulum (Hedw.) B.S.G. — World: IRMSCHER 1929, Taf. 24, Fig. 32. England (Warwickshire): LAFLIN 1971, p. 728, Map 947.

salebrosum (Web. et Mohr) B.S.G. — See Chamberlainia salebrosa (Web. et Mohr) Robins.

trachypodium (Brid.) B.S.G. — Afghanistan: W. FREY 1972, p. 133, Abb. 2. Spitzbergen: KUC 1973a, p. 470, Fig. 74. NW. Canada (Axel Heiberg Island): KUC 1973b, p. 106, Fig. 38. N. Canada: KUC 1973b, p. 107, Fig. 39.

uncinifolium Broth. et Par. — See Cratoneurella uncinifolia (Broth. et Par.) Robins.

velutinum (Hedw.) B.S.G. — See Chamberlainia velutina (Hedw.) Robins.

wichurae (Broth.) Par. — Japan: TAKAKI 1956, p. 61, Map 1C.

BRAITHWAITEA

sulcata (Hook.) Lindb. — Tasmania, E. Australia and New Zealand: TOUW 1971, p. 342, Fig. 43.

BRAUNIA

alopecura (Brid.) Limpr. — Europe (S of lat. 54°N): J. AMANN 1928, p. 307, Fig. 5. N. Italy: GIACOMINI 1951, p. 107, Carta 11.

BREIDLERIA

pratensis (Rabenh.) Loeske — See Hypnum pratense (Rabenh.) Hartm.

BREUTELIA

angustiretis Bartr. — S. America: MATTERI 1973, p. 360, Lám. II.

arcuata (Sw.) Schimp. — See *B. chrysocoma* (Hedw.) Lindb.

arundinifolia (Duby) Fleisch. — Japan: OCHI 1963, Pl. 24.

aureola (C. Müll.) Besch. — S. America: MATTERI 1973, p. 360, Lám. II.

chrysocoma (Hedw.) Lindb. — Europe: J. AMANN 1928, p. 305, Fig. 4 (*B. arcuata*). Switzerland: J. AMANN 1928, p. 433, Fig. 11 (*B. arcuata*). M. Switzerland: GAMS 1930, p. 25, Fig. 4. M. Europe (the Alps): GAMS 1932b, p. 53, Fig. 1 (*B. arcuata*). Norway (S of lat. 66°N): STÖRMER 1969, p. 212, Fig. 149. Europe: STÖRMER 1969, p. 213, Fig. 150. SW. Norway (Tel., Rog.): LYE 1970, p. 40, Fig. 18c.

deflexifolia Card. — El Salvador: WINKLER 1964-65, p. 509, Abb. 4.

dicranacea (C. Müll.) Mitt. — World: GANGULEE 1974, p. 1102, Map CCCXXVIII.

dumosa Mitt. — S. America: MATTERI 1973, p. 360, Lám. II.

integrifolia (Tayl.) Jaeg. — S. America: MATTERI 1973, p. 360, Lám. II. S. Georgia: NEWTON 1974, p. 67, Fig. 7.

masafuerae Broth. — S. America: MATTERI 1973, p. 360, Lám. II (*B. subplicata* var. *masafuerae*).

plicata Mitt. — S. America: MATTERI 1973, p. 360, Lám. II.

subplicata Borth. in Thér. — S. America: MATTERI 1973, p. 360, Lám. II.

var. masafuerae (Broth.) Matteri — See *B. masafuerae* Broth.

BROTHERA

capillifolia Dix. — SE. Asia: GANGULEE 1971, p. 315, Map XC (*Dicranodontium capillifolium*).

himalayana Broth. — World: GANGULEE 1971, p. 342, Map XCIX.

leana (Sull.) C. Müll. — USA (E. part): SHARP 1939, p. 332, Fig. 5. E. Asia: HORIKAWA 1955a, p. 60, Map 21. E. Asia and N. America: IWATSUKI 1958, p. 342, Fig. 5. World: GANGULEE 1971, p. 342, Map XCIX. Japan: IWATSUKI 1972b, p. 114, Fig. 4. World: IWATSUKI 1972b, p. 114, Fig. 4.

BROTHERELLA

complanata Reim. et Sak. — Japan: HORIKAWA & SEKI 1960, p. 97, Fig. 6.

lorentziana (Lor.) Loeske — M. Europe (the Alps): GAMS 1928a, p. 70. M. Europe (the Alps): GAMS 1932b, p. 53, Fig. 1. NW. Austria: H. & R. LOTTO 1973, p. 64. S. Germany: H. & R. LOTTO 1973, p. 64. SW. Germany: PHILIPPI 1974, p. 43, Abb. 2.

tenuirostris (Bruch et Schimp.) Fleisch. — USA (N.C.): CROSBY & ANDERSON 1967, p. 305, Fig. 3. World: ANDO 1972, p. 77, Fig. 5.

yokohamae (Broth.) Broth. — World: ANDO 1972, p. 77, Fig. 5.

BRUCHIA

donnellii Aust. — USA (Fla.): SCHORNHERST 1943, p. 521, Map 4. SE. USA: SCHORNHERST 1946, p. 158, Fig. 2.

vogesiaca Schwaegr. — Europe (S of lat. 53°N): BONNOT 1968, p. 181, Fig. 2.

BRYHNIA

hultenii Bartr. — See *B. novae-angliae* (Sull. et Lesq.) Grout
novae-angliae (Sull. et Lesq.) Grout — Scandinavia (S of lat. 63°N and W of long. 13°E): STÖRMER 1939, p. 155. Alaska and Yukon: PERSSON 1947, p. 289, Fig. 2 (*B. hultenii*). E. Asia and N. America: SCHOFIELD 1965, p. 18, Map 3 (*B. hultenii*). Norway (S of lat. 66°N): STÖRMER 1969, p. 269, Fig. 205. Europe: STÖRMER 1969, p. 269, Fig. 206. Japan: IWATSUKI 1972b, p. 124, Fig. 12 (*B. hultenii*). World: IWATSUKI 1972b, p. 124, Fig. 12 (*B. hultenii*).

trichomitria Dix. et Thér. — Japan: TAKAKI 1956, p. 61, Map 1A.

BRYOBRITTONIA

pellucida Williams — N. Hemisphere: STEERE 1953b, p. 357, Fig. 12. N. Hemisphere: GAMS 1955, p. 83, Fig. 4. N. Hemisphere: ABRAMOVA & ABRAMOV 1960, p. 301. World: ABRAMOVA & ABRAMOV 1966, p. 309. NW. Canada (Good Friday Bay area): KUC 1969b, p. 649, Fig. 4. NW. Canada (Axel Heiberg Island): KUC 1973b, p. 63, Fig. 22. N. Canada: KUC 1973b, p. 66, Fig. 24.

BRYOERYTHROPHYLLUM

atrорubens (Besch.) Chen — See *Didymodon atrорubens* (Besch.) Broth.

(BRYOERYTHROPHYLLUM contin.)

dentatum (Mitt.) Chen — SE. Asia: GANGULEE 1972, p. 746, Map CCXXV.

ferrugineum Gang. — SE. Asia: GANGULEE 1972, p. 746, Map CCXXV.

gymnostomum (Broth.) Chen — SE. Asia: GANGULEE 1972, p. 746, Map CCXXV.

recurvirostre (Hedw.) Chen — World (with special map of Antarctic): SAVICZ-LJUBITZKAJA & SMIRNOVA 1963, p. 353. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 55. England (Warwickshire): LAFLIN 1971, p. 713, Map 884. World: GANGULEE 1972, p. 744, Map CCXXIV. USSR (Moldavia): SIMONOV 1972, p. 25. Poland: MICKIEWICZ 1972, p. 233, Fig. 1 (*Erythrophyllum rubellum*). Spitzbergen: KUC 1973a, p. 459, Fig. 29.

wallichii (Mitt.) Chen — SE. Asia: GANGULEE 1972, p. 750, Map CCXXVI.

yunnanense (Herz.) Chen — SE. Asia: GANGULEE 1972, p. 750, Map CCXXVI.

BRYOMNIUM

solitarium Card. — World: KOPONEN & WEBER 1972, p. 132, Fig. 52 (*Tayloria solitaria*).

BRYONOGUCHIA

molkenboeri (Lac.) Iwats. et Inoue — See *Tetracladium molkenboeri* (Lac.) Broth.

BRYOXIPHIMUM

japonicum (Berggr.) Britt. — See *B. norvegicum* (Brid.) Mitt. ssp. *japonicum* (Berggr.) Löve et Löve

madeirense Löve et Löve — N. Hemisphere: LÖVE & LÖVE 1953, p. 87, Fig. 1. N. Hemisphere: GAMS 1955, p. 83, Fig. 3. World: LEE 1958, p. 260.

mexicanum Besch. — See *B. norvegicum* (Brid.) Mitt. var. *mexicanum* (Besch.) Sharp

norvegicum (Brid.) Mitt. — N. America and Greenland: STEERE 1937a, p. 351, Fig. 1. N. Hemisphere: LÖVE & LÖVE 1953, p. 87, Fig. 1. Iceland: LÖVE & LÖVE 1953, p. 89, Fig. 2. N. Hemisphere: GAMS 1955, p. 83, Fig. 3. World: LEE 1958, p. 260.

(BRYOXIPHIMUM contin.)

ssp. japonicum (Berggr.) Löve et Löve — Japan and Corea: HORIKAWA 1951, p. 16, Map 2 (B. savatieri). N. Hemisphere: GAMS 1955, p. 83, Fig. 3 (B. japonicum). World: LEE 1958, p. 260 (B. japonicum). SE. Asia: DOCS 1966, p. 36, Fig. 2.

var. mexicanum (Besch.) Sharp — N. Hemisphere: GAMS 1955, p. 83, Fig. 3 (B. mexicanum). World: LEE 1958, p. 260 (B. mexicanum).

savatieri (Husn.) Mitt. — See B. norvegicum (Brid.) Mitt. ssp. japonicum (Berggr.) Löve et Löve

BRYUM

algens Card. — See B. antarcticum Hook. f. et Wils.

alpinum Huds. ex With. — Norway: STÖRMER 1969, p. 57, Fig. 18. Europe, N. Africa and W. Asia: STÖRMER 1969, p. 58, Fig. 19. World: GANGULEE 1974, p. 1005, Map CCCIII.

ssp. geheebii (C. Müll.) Podp. — Switzerland: J. AMANN 1928, p. 435, Fig. 12 (B. geheebii).

ssp. gemmaiparum (De Not.) Kindb. — Switzerland: J. AMANN 1928, p. 435, Fig. 12 (B. gemmaiparum).

ssp. gerwigii (C. Müll.) Podp. — Switzerland: J. AMANN 1928, p. 435, Fig. 12 (B. gerwigii).

ssp. riparium (Hag.) Podp. — The British Isles and S. Norway: WHITEHOUSE 1963, p. 396, Fig. 6 (B. riparium).

var. mildeanum (Jur.) Podp. — Poland (Upper Wislok): WACLAWSKA 1957, p. 98, Fig. 2 (B. mildeanum). The British Isles: WHITEHOUSE et al. 1964, p. 740; orig. H.L.K. Whitehouse (B. mildeanum). Poland and Czechoslovakia: JEDRZEJKO 1969, p. 354, Fig. 1 (B. mildeanum).

angustirete Kindb. — Spitzbergen: KUC 1973a, p. 463, Fig. 48 (B. pendulum).

antarcticum Hook. f. et Wils. — Antarctic (East Ongul Island): MATSUDA 1963, p. 262, Fig. 9 (B. inconnexum). E. Antarctic: FILSON & WILLIS 1975, p. 112, Fig. 1 (B. algens).

(BRYUM contin.)

archangelicum B.S.G. — Spitzbergen: KUC 1973a, p. 463, Fig. 48.

arcticum (R. Br.) B.S.G. — Spitzbergen: KUC 1973a, p. 463, Fig. 47.

argenteum Hedw. — Antarctic (East Ongul Island) MATSUDA 1963, p. 262, Fig. 8. NE. Belgium (Limburg): BARKMAN 1963b, p. 23, Kaart VIII. England (Warwickshire): LAFLIN 1971, p. 718, Map 904. Spitzbergen: KUC 1973a, p. 464, Fig. 51. NW: Canada (Axel Heiberg Island): KUC 1973b, p. 78, Fig. 29.

var. griffithii (C. Müll.) Gang. — See *B. griffithii* (C. Müll.) Fleisch.

var. lanatum (P. Beauv.) Hampe — England (Warwickshire): LAFLIN 1971, p. 718, Map 905. World: GANGULEE 1974, p. 972, Map CCXCVI.

atrovirens Brid. — England (Warwickshire): LAFLIN 1971, p. 718, Map 907 (*B. erythrocarpum* Schwaegr.). World: GANGULEE 1974, p. 985, Map CCXCIX.

var. radiculosum (Brid.) Wijk et Marg. — Netherlands: GRADSTEIN, HELD & WOLFF 1971, p. 94 (*B. radiculosum*). World: SCHOFIELD 1974, p. 15, Map 3 (*B. rubens*).

auratum Mitt. — See *Anomobryum auratum* (Mitt.) Jaeg.

badhwari Ochi — World: GANGULEE 1974, p. 1005, Map CCCIII.

bicolor Dicks. — NE. Germany: KÜHNER & PANKOW 1967, p. 173, Abb. 7. Netherlands: GRADSTEIN, HELD & WOLFF 1971, p. 94 (*B. microerythrocarpum*). England (Warwickshire): LAFLIN 1971, p. 718, Map 906. World: GANGULEE 1974, p. 1001, Map CCCII.

billardieri Schwaegr. — World: OCHI 1972, p. 60, Map 4. World: GANGULEE 1974, p. 981, Map CCXCVIII.

blandum Hook. f. et Wils. — World (between long. 30°W - 180°E): OCHI 1972, p. 53, Map 1.

blindii B.S.G. — Europe: PERSSON 1940a, p. 277, Fig. 2.

caespiticium L. ex Hedw. — Japan and Formosa: OCHI 1959, p. 309, Map 3. World: GANGULEE 1974, p. 999, Map CCCI.

calophyllum R. Br. — SW. Poland: KUC 1956, p. 638, Fig. 6. Poland: KUC 1964, p. 127, Ryc. 26. NE. Germany: KÜHNER & PANKOW 1967,

(BRYUM contin.)

p. 172, Abb. 5. Spitzbergen: KUC 1973a, p. 464, Fig. 52. The British Isles: WHITEHOUSE et al. 1973, p. 453; orig. M.R.D. Seaward.

canariense Brid. — Iberia, N. Africa and Canary Islands: ACUNA et al. 1975, p. 91, Mapa 8.

var. provinciale (Philib.) Husn. — The British Isles: WHITEHOUSE et al. 1967, p. 369; orig. A.J.E. Smith.

capillare Hedw. — NE. Belgium (Limburg): BARKMAN 1963b, p. 17, Kaart V. England (Warwickshire): LAFLIN 1971, p. 719, Map 908. World: GANGULEE 1974, p. 991, Map CCC.

ssp. elegans (Nees) Lindb. — Poland (Jurassic Mountain Range): SZAFRAN 1955, p. 220, Ryc. 95 (B. elegans). Poland (NW. Sudet): WILCZYŃSKA 1974, p. 97, Ryc. 8 (B. elegans).

ssp. torquescens (De Not.) Kindb. — Switzerland: J. AMANN 1928, p. 431, Fig. 10 (B. torquescens).

var. flaccidum (Brid.) B.S.G. — USSR (Moldavia): SIMONOV 1972, p. 37.

f. erythroloma (Kindb.) Podp. — N. and M. America: SYED 1973, p. 304, Fig. 20 (B. erythroloma).

cellulare Hook. — World (between long. 30°W - 180°E): OCHI 1972, p. 53, Map 1. World: GANGULEE 1974, p. 967, Map CCXCV.

cirrhatum Hoppe et Hornsch. — W. France: TOUFFET 1969b, p. 53, Fig. 8.

coronatum Schwaegr. — Japan and Formosa: OCHI 1959, p. 114, Map 8. World: GANGULEE 1974, p. 1001, Map CCCII.

creberrimum Tayl. — The British Isles: WHITEHOUSE et al. 1974, p. 126; orig. A.J.E. Smith.

cryophilum Mårt. — See B. cyclophyllum (Schwaegr.) B.S.G.

cyclophyllum (Schwaegr.) B.S.G. — Scandinavia: MÅRTENSSON 1949, p. 464, Fig. 1 (B. obtusifolium). Japan: OCHI 1959, p. 112, Map 6 (B. tortifolium). Spitzbergen: KUC 1973a, p. 464, Fig. 49 (B. cryophilum).

(BRYUM contin.)

donianum Grev. — The British Isles: WHITEHOUSE et al. 1973, p.457; orig. A.J.E. Smith.

duvalii Voit — See *B. weigelii* Spreng.

elegans Nees — See *B. capillare* Hedw. ssp. *elegans* (Nees) Lindb.

erythrocarpum Schwaegr. — See *B. atrovirens* Brid.

erythroloma (Kindb.) Syed — See *B. capillare* Hedw. f. *erythroloma* (Kindb.) Podp.

flaccum Wils. ex Mitt. — World: GANGULEE 1974, p. 967, Map CCXCV.

funckii Schwaegr. — S. Poland: KUC 1964, p. 127, Ryc. 27.

NW. Germany (Heuckenlock): FRAHM 1971, p. 9, Abb. 8.

gedeanum Bosch et Lac. — World: GANGULEE 1974, p. 925, Map CCLXXXV (*Pohlia gedeanum*).

geheebii C. Müll. — See *B. alpinum* With. ssp. *gemmiparum* (De Not.) Kindb.

gemmiparum De Not. — See *B. alpinum* With. ssp. *gerwigii* (C. Müll.) Podp.

gerwigii (C. Müll.) Limpr. — See *B. alpinum* With. ssp. *gerwigii* (C. Müll.) Podp.

griffithii (C. Müll.) Fleisch. — World: GANGULEE 1974, p. 972, Map CCXCVI (*B. argenteum* var. *griffithii*).

huillense Welw. et Dub. — See *Brachymenium huillense* (Welw. et Dub.) Jaeg.

inclinatum (Brid.) Bland. — Japan: OCHI 1959, p. 112, Map 5.

inconnexum Card. — See *B. antarcticum* Hook.

intermedium (Brid.) Bland. ssp. carniolicum (Glow.) Podp. — Yugoslavia: MARTINCIC 1966, p. 70, Abb. 43.

jamaicense Syed — N. and M. America: SYED 1973, p. 304, Fig. 20.

julaceum Sm. — See *Anomobryum filiforme* (Dicks.) Husn.

keniae C. Müll. — See *Rhodobryum keniae* (C. Müll.) Broth.

knowltonii Barnes — The British Isles: WHITEHOUSE et al. 1973, p. 452; orig. A.J.E. Smith.

(BRYUM contin.)

laevigatum Hook. f. et Wils. — Subantarctic and Antarctic: SEKI 1974, p. 89, Fig. 8.

leptocaulon Card. — Japan and Formosa: OCHI 1959, p. 117, Map 13.

leptoflagellans C. Müll. — Japan and Formosa: OCHI 1959, p. 117, Map 13 (B. noguchii).

leptospeiron C. Müll. — Africa and Madagascar: OCHI 1973, p. 34, Map 2.

lonchophyllum Broth. — World (between long. 30°W - 180°E): OCHI 1972, p. 53, Map 1.

mamillatum Lindb. — See B. warneum (Röhl.) Brid. ssp. mamillatum (Lindb.) Podp.

marratii Wils. — The British Isles: WHITEHOUSE et al. 1973, p. 450; orig. M.R.D. Seaward.

medianum Mitt. — World: GANGULEE 1974, p. 981, Map CCXCVIII.

microerythrocarpum C. Müll. et Kindb. — See B. bicolor Dicks.

mildeanum Jur. — See B. alpinum Huds ex With. var. mildeanum (Jur.) Podp.

murale Wils. ex Hunt — See B. murorum (Schimp.) Berk

murorum (Schimp.) Berk — Japan: OCHI 1959, p. 115, Map 10 (B. murale). Czechoslovakia: PILOUS 1961b, p. 286, Karte 5 (B. murale)

neodamense Itzigs. — Poland (E. Lublin upland): KARCZMARZ & KUC 1962, p. 486, Fig. 1. NE. Poland (Suwalki reg.): MICKIEWICZ, REJMENT GROCHOWSKA & SOBOTKA 1963, p. 260, Fig. 1. SE. Poland: KARCZMARZ 1964, p. 406, Ryc. 5.

var. ovatum (C. Jens.) Lindb. et Arn. — SW. Poland: KUC 1956, p. 636, Fig. 3 (B. ovatum). NW. Canada (Axel Heiberg Island): KUC 1973b, p. 78, Fig. 29 (B. ovatum).

nitens Hook. — SE. Asia, Australia and Oceania: MILLER, WHITTIER & BONNER 1963, Pl. 29. World: OCHI 1974, p. 40, Map 1.

noguchii Ochi — See B. leptoflagellans C. Müll.

obtusifolium Lindb. — See B. cyclophyllum (Schwaegr.) B.S.G.

oeneum Blytt ex B.S.G. — See B. rutilans Brid.

(BRYUM contin.)

orthocladum B.S.G. ex C. Müll. — World (between long. 30°W - 180°E): OCHI 1972, p. 53, Map 1.

ovatum Jur. — See *B. neodamense* Itzigs. var. *ovatum* (C. Jens.) Lindb. et Arn.

pallens Sw. — Japan: OCHI 1959, p. 111, Map 4. W. France: TOUFFET 1969b, p. 56, Fig. 14. England (Warwickshire): LAFLIN 1971, p. 717, Map 902. Spitzbergen: KUC 1973a, p. 463, Fig. 47.

pallescens Schleich. ex Schwaegr. — Spitzbergen: KUC 1973a, p. 464, Fig. 50. The British Isles: WHITEHOUSE et al. 1974, p. 127; orig. A.J.E. Smith.

paradoxum Schwaegr. — SE. Asia: GANGULEE 1974, p. 1010, Map CCCIV.

pendulum (Hornsch.) Schimp. — See *B. angustirete* Kindb.

plumosum Doz. et Milk. — SE. Asia: GANGULEE 1974, p. 1010, Map CCCIV.

porphyroneuron C. Müll. — Japan and Formosa: OCHI 1959, p. 115, Map 9.

var. erythrinum (Mitt.) Fleisch. — SE. Asia: GANGULEE 1974, p. 1010, Map CCCIV.

pseudocapillare Besch. — N. America (S of lat. 40°N) and M. America: SYED 1973, p. 300, Fig. 17.

pseudotriquetrum (Hedw.) Schwaegr. — England (Warwickshire): LAFLIN 1971, p. 717, Map 903. Sweden (Vrm.): FRANSSON 1972, p. 111, Fig. 60. World: GANGULEE 1974, p. 991, Map CCC.

var. duvalioides Itzigs. — Poland (Warszawa reg.): REJMENT-GROCHOWSKA 1959, p. 282, Fig. 1 (*B. ventricosum* var. *duvalioides*).

ptychothecium Besch. — SE. Asia: GANGULEE 1974, p. 932, Map CCLXXXVII (*Brachymenium ptychothecium*).

pulchroalare Broth. — Japan and Formosa: OCHI 1959, p. 117, Map 13.

purpurascens (R. Br.) B.S.G. — Spitzbergen: KUC 1973a, p. 464, Fig. 51.

radiculosum Brid. — See *B. atrovirens* Brid. var. *radiculosum* (Brid.) Wijk et Marg.

(BRYUM contin.)

ramosum (Hook.) Mitt. — See *B. truncorum* (Brid.) Brid.

recurvulum Mitt. — World: GANGULEE 1974, p. 999, Map CCCI.

retusifolium Card. et P. Vard. — SE. Asia: GANGULEE 1974, p. 975, Map CCXCVII.

riparium Hag. — See *B. alpinum* Brid. ssp. *riparium* (Hag.) Podp.

roseum (Hedw.) Gaertn. — See *Rhodobryum roseum* (Hedw.) Limpr.

rubens Mitt. — See *B. atrovirens* Brid. var. *radiculosum* (Brid.) Wijk et Marg.

russulum Broth. et Geh. — See *Rhodobryum russulum* (Broth. et Geh.) Par.

rutilans Brid. — Spitzbergen: KUC 1973a, p. 464, Fig. 49 (*B. oeneum*).

salakense Card. — SE. Asia: GANGULEE 1974, p. 975, Map CCXCVII.

setschwanicum Broth. — World (between long. 30°W - 180°E): OCHI 1972, p. 53, Map 1.

staudtii Broth. — See *Rhodobryum staudtii* (Broth.) Par.

torquescens De Not. — See *B. capillare* Hedw. ssp. *torquescens* (De Not.) Kindb.

tortifolium Brid. — See *B. cyclophyllum* (Schwaegr.) B.S.G.

truncorum (Brid.) Brid. — World: OCHI 1957, p. 10, Fig. VII (*B. ramosum*). Japan: OCHI 1957, p. 10, Fig. VIII (*B. ramosum*).

turbinatum (Hedw.) Turn. — The British Isles: WHITEHOUSE et al. 1973, p. 455; orig. A.J.E. Smith. Japan: OCHI 1959, p. 112, Map 6.

uliginosum (Brid.) B.S.G. — The British Isles: WHITEHOUSE et al. 1973, p. 454; orig. A.J.E. Smith. World: GANGULEE 1974, p. 967, Map CCXCV.

umbraculum Bruch ex Hook. — See *Rhodobryum umbraculum* (Hook.) Par.

warneum (Röhl.) Brid. — Poland (Upper Wislok): WACLAWSKA 1957, p. 98, Fig. 2. Poland (Suwalki reg.): REJMENT-GROCHOWSKA & MICKIEWICZ 1962, p. 4, Fig. 2. NE: Germany: KÜHNER & PANKOW 1967, p. 172, Abb. 5. The British Isles: WHITEHOUSE et al. 1973, p. 451; orig. M.R.D. Seaward.

(BRYUM contin.)

warneum (Röhl.) Brid. ssp. mamillatum (Lindb.) Podp. — The British Isles: WHITEHOUSE et al. 1970, p. 153; orig. M.R.D. Seaward (*B. mamillatum*).

weigeli Spreng. — SW. Poland: KUC 1956, p. 638, Fig. 6 (*B. duvalii*). The British Isles: WHITEHOUSE et al. 1973, p. 456; orig. A.J.E. Smith.

ventricosum Dicks. ex Relh. var. duvalioides (Itzigs.) Glow. — See *B. pseudotriquetrum* (Hedw.) Schwaegr. var. *duvalioides* Itzigs.

wightii Mitt. — World: GANGULEE 1974, p. 985, Map CCXCIX.

wrightii Sull. et Lesq. — N. Europe (N of lat. 64°N): RYVARDEN 1970, p. 775, Fig. 1. Spitzbergen: KUC 1973a, p. 464, Fig. 52. Canada and Greenland: STEERE & MURRAY 1974, p. 176, Fig. 7.

yasudae (Broth.) Ochi — See *Anomobryum yasudae* Broth.

BUXBAUMIA

aphylla Hedw. — Sweden: MÖLLER 1923, p. 63. W. USSR: LADYZHENSKAJA 1935, p. 300. World: LADYZHENSKAJA 1935, p. 301. Rumania: TARNAVSCHI 1936, p. 287, Fig. 2. USA (Butler County, Pa.): EASTWOOD 1936, p. 128. Rumania: STEFUREAC 1947, p. 155. E. Germany, Poland, Czechoslovakia and E. Prussia: SZAFRAN 1948, p. 55, Ryc. 30. USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 297. E. Asia: HORIKAWA 1955a, p. 19, Map 7. Czechoslovakia: NOVACKÝ 1956, p. 102. Rumania: PAPP 1958, p. 122, Fig. 2. Denmark: KJ. HOLMEN et al. 1959, p. 123, Fig. 22; orig. V. Tommerup Jensen. S. Poland (Miechów reg.): WACLAWSKA 1959, p. 324, Fig. 1. N. Sweden, N. Norway, Finland and W. USSR: OITTINEN 1967, p. 82, Fig. 1. Newfoundland: HANCOCK & BRASSARD 1973, p. 188, Fig. 1. World: SCHOFIELD 1974, p. 24, Map 17. The British Isles: WHITEHOUSE et al. 1975b, p. 497; orig. B. O'Shea.

indusiata Brid. — See *B. viridis* (Cand.) Moug. et Nestl.

javanica C. Müll. — World: LADYZHENSKAJA 1935, p. 301.

minakatae Okam. — World: LADYZHENSKAJA 1935, p. 301. N. Hemisphere: IWATSUKI & SHARP 1967, p. 167, Map a. World: SCHOFIELD & CRUM 1972, p. 182, Map 5. World: BARDUNOV 1974, p. 23.

(BUXBAUMIA contin.)

piperi Best. — World: LADYZHENSKAJA 1935, p. 301.

subcylindrica Grout — Europe and Asia: BARDUNOV 1965, p. 39.

tasmanica Mitt. — World: LADYZHENSKAJA 1935, p. 301.

viridis (Cand.) Moug. et Nestl. — Sweden: MÖLLER 1923, p. 64.

W. USSR: LADYZHENSKAJA 1935, p. 300 (B. indusiata). World:

LADYZHENSKAJA 1935, p. 310 (B. indusiata). Rumania: TARNAVSKI 1936, p. 287, Fig. 2 (B. indusiata). E. Germany, Poland, Czechoslovakia and E. Prussia: SZAFRAN 1948, p. 55, Ryc. 30

(B. indusiata). M. Europe (The Alps): RASCHENDORFER 1949, p. 274, Karte 1. USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 300. Czechoslovakia: NOVACKÝ 1956, p. 106 (B. indusiata).

Denmark: KJ. HOLMEN et al. 1959, p. 123, Fig. 23; orig. V. Tommerup Jensen. Poland: KUC 1964, p. 55, Ryc. 8. E. Sweden and Finland t.

(S of lat. 62°N): OITTINEN 1967, p. 83, Fig. 2.

CALLICLADIUM

haldanum (Grev.) Crum. — See *Heterophyllum haldanianum* (Grev.) Fleisch.

CALLIERGON

cordifolium (Hedw.) Kindb. — N. America: WYNNE 1945, p. 139,

Map 1.; Denmark: KJ. HOLMEN et al. 1959, p. 144, Fig. 102; orig. H.C. Boje. Poland (Lower Nida): WACLAWSKA 1964, p. 368, Fig. 1. World: KARCZMARZ 1971, p. 54, Fig. 2. England (Warwickshire): LAFLIN 1971, p. 726, Map 938 (*Acrocladium cordifolium*).

ssp. orbicularicordatum (Ren. et Card.) Grout — Spitzbergen:

KARCZMARZ & KUC 1966, p. 374, Fig. 1 (C. orbiculari-cordatum).

cuspidatum (Hedw.) Kindb. — See *Calliergonella cuspidata* (Hedw.) Loeske

giganteum (Schimp.) Kindb. — Denmark: KJ. HOLMEN et al. 1959, p. 145, Fig. 103; orig. H.C. Boje. World: KARCZMARZ 1971, p. 82, Fig. 6. The British Isles: J.H. DICKSON 1973, p. 148 (f), Fig. 67 and p. 149 (f), Fig. 68.

keniae Dix. — World: KARCZMARZ 1971, p. 129, Fig. 9.

macounii Kar. — World: KARCZMARZ 1971, p. 109, Fig. 7.

(CALLIERGON contin.)

megalophyllum Mikut. — S. Finland (Nyl., Ekenäs reg.): LUTHER 1951, p. 229, Karte 93. Poland (prov. Lublin): LISOWSKI 1960a, p. 396, Fig. 3. Poland: KARCZMARZ 1961a, p. 265, Fig. 2. SE. Poland: KARCZMARZ 1964, p. 406, Ryc. 5. Latvia: ABOLIN 1968, p. 246. World: KARCZMARZ 1971, p. 109, Fig. 7.

obtusifolium Kar. — N. Hemisphere: KARCZMARZ 1971, p. 79, Fig. 5.

orbiculari-cordatum (Ren. et Card.) Broth. — See C. cordifolium (Hedw.) Kindb. ssp. orbicularicordatum (Ren. et Card.) Grout

richardsonii (Mitt.) Kindb. — Poland (Lower Nida) WACLAWSKA 1964, p. 368, Fig. 1. Poland: KARCZMARZ 1967, p. 526, Fig. 1. World: KARCZMARZ 1971, p. 71, Fig. 4. Sweden (Vrm.): FRANSSON 1972, p. 111, Map 61. Iceland: DIERSSEN 1973, p. 101. NW. Canada (Axel Heiberg Island): KUC 1973b, p. 100, Fig. 36.

sarmentosum (Wahlenb.) Kindb. — N. America and Greenland: WYNNE 1945, p. 151, Map 3. Sweden (S. Sweden): ALBERTSON 1949, p. 175, Fig. 2. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 79. S. Poland (W. Carpathians): LISOWSKI & KORNAŚ 1966, p. 68, Fig. 9. World: KARCZMARZ 1971, p. 129, Fig. 9. New Zealand: KARCZMARZ 1971, p. 175, Fig. 13. Antarctic, Subantarctic and Tierra del Fuego: KARCZMARZ 1971, p. 175, Fig. 13. Sweden (Vrm.): FRANSSON 1972, p. 111, Map 62. Newfoundland: TUOMIKOSKI, KOPONEN & AHTI 1973, p. 258, Fig. 4.

stramineum (Brid.) Kindb. — N. America and Greenland: WYNNE 1945, p. 139, Map 2. Denmark: KJ. HOLMEN et al. 1959, p. 144, Fig. 101; orig. H.C. Boje. World: KARCZMARZ 1971, p. 114, Fig. 8.

subpappilosum Kar. — Antarctic, Subantarctic and Tierra del Fuego: KARCZMARZ 1971, p. 175, Fig. 13. New Zealand: KARCZMARZ 1971, p. 175, Fig. 13.

trifarum (Web. et Mohr) Kindb. — E. Prussia: GROSS 1912, p. 85, Karte 2 (Hypnum trifarium). N. America: WYNNE 1945, p. 151, Map 3. SW. Poland: KUC 1956, p. 636, Fig. 2. E. Poland (Lublin distr.): JASNOWSKI 1956, p. 80, Fig. 1. Poland: JASNOWSKI 1957, p. 702, Fig. 1. Denmark: KJ. HOLMEN et al. 1959, p. 144, Fig. 100; orig. H.C. Boje. Poland (E. Lublin upland): KARCZMARZ & KUC 1962, p. 486, Fig. 1. The British Isles: WHITEHOUSE et al. 1963, p. 515; orig.

(CALLIERGON contin.)

M.C.F. Proctor (*Acrocladium trifarium*). SE. Poland: KARCZMARZ 1964, p. 409, Ryc. 8. Czechoslovakia: RYBNÍČEK 1966, p. 104, Fig. 1.
 E. Germany (Mecklenburg): PANKOW 1966, p. 67, Karte 3. Jugoslavia: MARTINCIC 1966, p. 27, Abb. 12. Latvia: ABOLIN 1968, p. 246.
 World: KARCZMARZ 1971, p. 148, Fig. 10. Poland: MICKIEWICZ 1972, p. 233, Fig. 1. Spitzbergen: KUC 1973a, p. 470, Fig. 73. Iceland: DIERSSEN 1973, p. 100.

turgescens (T. Jens.) Kindb. — See *Scorpidium turgescens* (T. Jens.) Loeske

wickesii Grout — Newfoundland: TUOMIKOSKI, KOPOMEN & AHTI 1973, p. 260, Fig. 9 (*Loeskypnum wickesii*). World: KARCZMARZ 1971, p. 160, Fig. 11.

CALLIERGONELLA

cuspidata (Hedw.) Loeske — N. America: WYNNE 1945, p. 154, Map 5. Denmark: KJ. HOLMEN et al. 1959, p. 144, Fig. 99; orig. H.C. Boje. World: KARCZMARZ 1971, p. 174, Fig. 12 (*Calliergon cuspidatum*). Antarctic, Subantarctic and Tierra del Fuego: KARCZMARZ 1971, p. 175, Fig. 13 (*Calliergon cuspidatum*). New Zealand: KARCZMARZ 1971, p. 175, Fig. 13 (*Calliergon cuspidatum*). England (Warwickshire): LAFLIN 1971, p. 726, Map 939 (*Acrocladium cuspidatum*). USSR (Moldavia): SIMONOV 1972, p. 55.

CALOMNION

complanatum (Hook. f. et Wils.) Lindb. — E. Australia, Oceania and New Zealand: SCHULTZE-MOTEL 1974, p. 298, Fig. 2.

denticulatum Mitt. — E. Australia, Oceania and New Zealand: SCHULTZE-MOTEL 1974, p. 298, Fig. 2.

schistostegiellum (Besch.) Wijk et Marg. — E. Australia, Oceania and New Zealand: SCHULTZE-MOTEL 1974, p. 298, Fig. 2.

CALYMPERES

andamense Besch. — SE. Asia: GANGULEE 1972, p. 620, Map CLXXXII. SE. Asia: GANGULEE 1972, p. 583, Map CLXXIII (*Thyridium andamense*).

aongstroemii Besch. — Indomalayan Islands, Australia and Oceania: MILLER, WHITTIER & BONNER 1963, Pl. 26.

burmense Hamp. — SE. Asia: GANGULEE 1972, p. 602, Map CLXXVIII.

CALYMPERES contin.)

calcuttense Bartr. et Gang. — SE. Asia: GANGULEE 1972, p. 610,
Map CLXXX.

delesserti Besch. — SE. Asia: GANGULEE 1972, p. 597, Map CLXXVII.

griffithii C. Müll. — SE. Asia: GANGULEE 1972, p. 617, Map CLXXXI.

hampei Doz. et Molk. — SE. Asia: GANGULEE 1972, p. 620, Map
CLXXXII.

heterophyllum (Mitt.) Besch. — SE. Asia: GANGULEE 1972, p. 620,
Map CLXXXII.

hyophilaceum C. Müll. ex Besch. — SE. Asia, Australia and Oceania:
MILLER, WHITTIER & BONNER 1963, Pl. 29.

johannis-winkleri Broth. — E. Asia: IWATSUKI 1968, p. 477, Fig. 3.

var. hasegawae (Tak. et Iwats.) Iwats. — See Syrrhopodon hasegawae
Tak. et Iwats.

kurzianum Hamp. ex C. Müll. — SE. Asia: GANGULEE 1972, p. 597,
Map CLXXVII.

linguatum C. Müll. ex Besch. — SE. Asia: GANGULEE 1972, p. 602,
Map CLXXVIII.

manii C. Müll. ex Besch. — SE. Asia: GANGULEE 1972, p. 617,
Map CLXXXI.

nashii Williams — USA and M. America: PURSELL & REESE 1970, p. 148,
Fig. 1.

nicobarense Hamp. — SE. Asia: GANGULEE 1972, p. 607, Map CLXXIX.

noakhalense Bruehl et Sark. — SE. Asia: GANGULEE 1972, p. 597,
Map CLXXVII.

punctulatum Hamp. — SE. Asia: GANGULEE 1972, p. 617, Map CLXXXI.

richardii C. Müll. — El Salvador: WINKLER 1964-65, p. 508, Abb. 2.

sikkimense Broth. ex Gang. — SE. Asia: GANGULEE 1972, p. 610,
Map CLXXX.

sundarbanense Gang. — SE. Asia: GANGULEE 1972, p. 610, Map CLXXX.

tenerum C. Müll. — SE. Asia, Australia and Oceania: MILLER,
WHITTIER & BONNER 1963, Pl. 30. SE. Asia: GANGULEE 1972, p. 602,
Map CLXXVIII.

(CALYMPERES contin.)

thyridioides C. Müll. — Micronesia: MILLER, WHITTIER & BONNER 1963, Pl. 25.

tuamotuense Bartr. — Indomalayan Islands, Australia and Oceania: MILLER, WHITTIER & BONNER 1963, Pl. 26.

vriesei Besch. — SE. Asia: GANGULEE 1972, p. 607, Map CLXXIX.

CALYPTOTHECIUM

cuspidatum (Okam.) Nog. — Japan: NOGUCHI 1951, p. 20, Map 62.

CAMPTOCHAETE

maculosa (Dix.) Sainsb. — World: ANDO 1972, p. 75, Fig. 4.

CAMPTOTHECIUM

auriculatum (Jaeg.) Broth. — N. Hemisphere: ROBINSON 1963, p. 137, Fig. 1 (*Brachythecium auriculatum*).

lutescens (Hedw.) B.S.G. — See *Homalothecium lutescens* (Hedw.) Robins.

var. fallax (Philib.) Bredl. — See *Homalothecium lutescens* (Hedw.) Robins.

philippeii Kindb. — See *Homalothecium philippeanum* (Spruce) B.S.G.

sericeum (Hedw.) Kindb. — See *Homalothecium sericeum* (Hedw.) B.S.G.

trichoides Lindb. — See *Homalothecium nitens* (Hedw.) Robins.

CAMPYLIADELPHUS

chrysophyllus (Brid.) Kanda — See *Campylium chrysophyllum* (Brid.) J. Lange

elodes (Lindb.) Kanda — See *Campylium elodes* (Lindb.) Kindb.

polygamus (B.S.G.) Kanda — See *Campylium polygamum* (B.S.G.) C. Jens.

stellatus (Hedw.) Kanda — See *Campylium stellatum* (Hedw.) C. Jens.

var. brotheri (Ihs.) Kanda — See *Campylium stellatum* (Hedw.) C. Jens. var. *brotheri* Ihs.

CAMPYLIIUM

adscendens (Lindb.) Perss. — N. America: SCHOFIELD 1972, p. 1121, Fig. 11.

calcareum Crundw. et Nyh. — Denmark: RASMUSSEN 1972, p. 262, Fig. 1

(CAMPYLIUM contin.)

chrysophyllum (Brid.) J. Lange — England (Warwickshire): LAFLIN 1971, p. 724, Map 930. Japan: KANDA 1975, p. 267, Fig. 28 (*Campyliadelphus chrysophyllus*).

var. zemliae (C. Jens.) Grout — Spitzbergen: KUC 1973a, p. 468, Fig. 67 (*C. zemliae*).

elodes (Lindb.) Kindb. — Japan: KANDA 1975, p. 276, Fig. 32 (*Campyliadelphus elodes*).

halleri (Hedw.) Lindb. — See *Campylophyllum halleri* (Hedw.) Fleisch.

hispidulum (Brid.) Mitt. — Japan: KANDA 1975, p. 242, Fig. 18 (*Leptodictyum bandaiense*). Japan: KANDA 1975, p. 257, Fig. 24.

var. sommerfeltii (Myr.) Lindb. — Japan: KANDA 1975, p. 257, Fig. 24 (*C. sommerfeltii*).

polygamum (B.S.G.) C. Jens. — NW. Netherlands (Alkmar reg.): BARKMAN 1941, p. 333, Fig. 6. Spitzbergen: KUC 1973a, p. 468, Fig. 68. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 64, Ryc. 5. Poland (Silesia): Berdowski 1974, p. 24, Mapa 4. Japan: KANDA 1975, p. 276, Fig. 32 (*Campyliadelphus polygamus*).

protensum (Brid.) Kindb. — Jugoslavia: MARTINCIC 1966, p. 28, Abb. 14.

pulchrum Kanda — Japan: KANDA 1975, p. 262, Fig. 26.

radicale (P. Beauv.) Grout — Japan: KANDA 1975, p. 250, Fig. 22 (*Leptodictyum radicale*).

rishiriense Kanda — Japan: KANDA 1975, p. 262, Fig. 26.

sommerfeltii (Myr.) J. Lange — See *C. hispidulum* (Brid.) Mitt. var. *sommerfeltii* (Myr.) Lindb.

squarrosulum (Besch. et Card.) Kanda — See *Amblystegium squarrosulum* Besch. et Card.

stellatum (Hedw.) C. Jens. — USA (Mich.): STOUTAMIRE & BENNINGHOFF 1964, p. 56, Fig. 8. USSR (Moldavia): SIMONOV 1972, p. 47. Sweden (Vrm.): FRANSSON 1972, p. 111, Map 63. Spitzbergen: KUC 1973a, p. 468, Fig. 67. The British Isles: J.H. DICKSON 1973, p. 135 (f), Fig. 61.

(CAMPYLIUM contin.)

NW. Canada (Axel Heiberg Island): KUC 1973b, p. 95, Fig. 35. Japan: KANDA 1975, p. 273, Fig. 30 (*Campyliadelphus stellatus*).

var. brotheri Ihs. — Japan: KANDA 1975, p. 273, Fig. 30 (*Campyliadelphus stellatus* var. *brotheri*).

zemliae (C. Jens.) C. Jens. — See *C. chrysophyllum* (Brid.) Lange
var. *zemliae* (C. Jens.) Grout

CAMPYLOPHYLLUM

halleri (Hedw.) Fleisch. — N. Sweden, N. Norway, Finland and W. USSR: KOTILAINEN 1929, Karte 10 (*Campyllum halleri*). Sweden (Nr.): WALDHEIM 1935a, p. 138, Fig. 5 (*Campyllum halleri*). Yugoslavia: MARTINCIC 1966, p. 28, Abb. 13 (*Campyllum halleri*). Poland (NW. Sudet): WILCZYŃSKA 1974, p. 28, Ryc. 8 (*Campyllum halleri*). Japan: KANDA 1975, p. 276, Fig. 32.

CAMPYLOPODIELLA

ditrichoides Nog. — World: GANGULEE 1971, p. 272, Map LXXVIII.

diversifolia Leroy — World: GANGULEE 1971, p. 272, Map LXXVIII.

tenella Card. — World: GANGULEE 1971, p. 272, Map LXXVIII.

CAMPYLOPODIUM

griffithii (Mitt.) Mitt. ex Broth. — SE. Asia: GANGULEE 1971, p. 267, Map LXXVI.

khasianum (Griff.) Par. — SE. Asia: GANGULEE 1971, p. 267, Map LXXVI.

CAMPYLOPUS

albescens (C. Müll.) Jaeg. — SE. Asia: GANGULEE 1971, p. 282, Map LXXXI.

alpigena Broth. — SE. Asia: GANGULEE 1971, p. 304, Map LXXXVII.

atrovirens De Not. — Europe (S of lat. 62°N and W of long. 17°E): HERZOG 1926, p. 248, Fig. 93. Europe and Africa: J. AMANN 1928, p. 303, Fig. 3. Scandinavia: DEGELIUS 1935, p. 216, Fig. 68. Norway (S of lat. 66°N): STÖRMER 1969, p. 217, Fig. 155. Europe and W. Asia: STÖRMER 1969, p. 218, Fig. 156. SW. Norway (Tel., Rog.): LYE 1970, p. 40, Fig. 18d. World: GANGULEE 1971, p. 297, Map LXXXV. Newfoundland: TUOMIKOSKI, KOPONEN & AHTI 1973, p. 260, Fig. 9.

(CAMPYLOPUS contin.)

aureus Bosch. et Lac. — World: GANGULEE 1971, p. 301, Map LXXXVI.

brevipilus B.S.G. — Europe (S of lat. 62°N and W of long. 17°E): HERZOG 1926, p. 248, Fig. 93. Norden: DEGELIUS 1935, p. 208, Fig. 54. Europe and N. Africa: MEUSEL 1943, Karte 58b. Germany (Schlesw.-Holst.): N. JENSEN 1955, p. 89, Karte 8. Norway (S of lat. 66°N): STÖRMER 1969, p. 220, Fig. 158. Europe and N. Africa: STÖRMER 1969, p. 220, Fig. 159. Germany (Schlesw.-Holst.): FRAHM & WALSEMANN 1973, p. 68.

dorelii Broth. ex Gangulee — SE. Asia: GANGULEE 1971, p. 289, Map LXXXIII.

ericoides (Griff.) Jaeg. — World: GANGULEE 1971, p. 297, Map LXXXV.

flexuosus (Hedw.) Brid. — Europe (S of lat. 62°N and W of long. 17°E): HERZOG 1926, p. 248, Fig. 93. N. Hemisphere: MEUSEL 1943, Karte 27d. Poland (Upper Wislok): WACLAWSKA 1957, p. 98, Fig. 2. S. Poland (W. Carpathians): SZAFRAN 1965, p. 606, Fig. 1. Norway (S of lat. 66°N): STÖRMER 1969, p. 173, Fig. 112. Europe and N. Africa: STÖRMER 1969, p. 174, Fig. 113. SW. Germany: DÜLL 1969, p. 299, Taf. 6a. England (Warwickshire): LAFLIN 1971, p. 706, Map 858. World: GANGULEE 1971, p. 294, Map LXXXIV. Iberia: BRUGUES, CASAS DE PUIG & CROS 1974, p. 116, Fig. 5. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 63, Ryc. 4.

fragilis (Brid.) B.S.G. — Europe (S of lat. 62°N and W of long. 17°E): HERZOG 1926, p. 248, Fig. 93. Scandinavia and Denmark: DEGELIUS 1935, p. 216, Fig. 69. Europe and N. Africa: MEUSEL 1943, Karte 58b. SW. Poland: KUC 1956, p. 638, Fig. 6. Poland: KUC 1964, p. 70, Ryc. 16. E. Germany (Mecklenburg): PANKOW 1966, p. 62, Karte 1. Norway (S of lat. 66°N): STÖRMER 1969, p. 176, Fig. 115. Europe and W. Asia: STÖRMER 1969, p. 177, Fig. 116. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 61, Ryc. 2.

var. pyriformis (Schultz) Agst. — Europe (S of lat. 62°N and W of long. 17°E): HERZOG 1926, p. 248, Fig. 93 (C. pyriformis). SW. Poland: KUC 1956, p. 638, Fig. 6 (C. turfaceous). S. Poland: KUC 1964, p. 149, Ryc. 34 (C. pyriformis). E. Germany (Mecklenburg): PANKOW 1966, p. 62, Karte 1 (C. pyriformis). Norway (S of lat. 66°N): STÖRMER 1969, p. 179, Fig. 117 (C. pyriformis). Europe: STÖRMER 1969,

(CAMPYLOPUS contin.)

p. 179, Fig. 118 (*C. pyriformis*). England (Warwickshire): LAFLIN 1971, p. 706, Map 857 (*C. pyriformis*). World: GANGULEE 1971, p. 294, Map LXXXIV.

goughii (Mitt.) Jaeg. — SE. Asia: GANGULEE 1971, p. 282, Map LXXXI.

gracilis (Mitt.) Jaeg. — SE. Asia: GANGULEE 1971, p. 286, Map LXXXII.

introflexus (Hedw.) Brid. — N. and M. America: SHARP 1939, p. 335, Fig. 13. World: GIACOMINI 1955, p. 80, Fig. 12. The British Isles: RICHARDS 1963, p. 410, Fig. 2. The British Isles: WHITEHOUSE et al. 1964, p. 742; orig. P.W. Richards. Europe: FRAHM 1970, p. 11. World: GANGULEE 1971, p. 301, Map LXXXVI. M. Europe (incl. Denmark): FRAHM 1972, p. 320, Abb. 1. W. Europe (S of lat. 62°N): FRAHM 1974, p. 34, Abb. 1. The British Isles: ROSE & WALLACE 1974, p. 43, Fig. 4. The British Isles: RICHARDS & SMITH 1975, p. 294, Fig. 1.

var. polytrichoides (De Not.) Giac. — W. Europe (S of lat. 62°N): HERZOG 1926, p. 248, Fig. 93 (*C. polytrichoides*). Europe and N. Africa: J. AMANN 1928, p. 303, Fig. 3 (*C. polytrichoides*). Europe and N. Africa: MEUSEL 1943, Karte 58b (*C. polytrichoides*). N. Italy and Sardinia: GIACOMINI 1951, p. 102, Carta 9 (*C. polytrichoides*). World: GIACOMINI 1955, p. 80, Fig. 12 (*C. polytrichoides*). The British Isles: RICHARDS 1963, p. 410, Fig. 2 (*C. polytrichoides*). The British Isles: WHITEHOUSE et al. 1964, p. 741; orig. P.W. Richards (*C. polytrichoides*). W. Europe: FRAHM 1972, p. 321, Abb. 2 (*C. polytrichoides*). W. Europe: FRAHM 1974, p. 34, Abb. 1 (*C. polytrichoides*). The British Isles: RICHARDS & SMITH 1975, p. 296, Fig. 2 (*C. polytrichoides*).

involutus (C. Müll.) Jaeg. — World: GANGULEE 1971, p. 309, Map LXXXVIII.

laetus (Mitt.) Jaeg. — SE. Asia: GANGULEE 1971, p. 304, Map LXXXVII.

latinervis (Mitt.) Jaeg. — SE. Asia: GANGULEE 1971, p. 289, Map LXXXIII.

mildei Limpr. — N. Italy: GIACOMINI 1951, p. 109, Carta 13.

milleri Ren. et Card. — SE. Asia: GANGULEE 1971, p. 289, Map LXXXIII.

(CAMPYLOPUS contin.)

polytrichoides De Not. — See *C. introflexus* (Hedw.) Brid. var.
polytrichoides (De Not.) Giac.

pyriformis (Schultz) Brid. — See *C. fragilis* (Brid.) B.S.G. var.
pyriformis (Schultz) Agst.

richardii Brid. — World: GANGULEE 1971, p. 309, Map LXXXVIII.

schwarzii Schimp. — Norway (S of lat. 66°N): STÖRMER 1969, p. 237,
Fig. 175. Europe: STÖRMER 1969, p. 238, Fig. 176. World: GANGULEE
1971, p. 279, Map LXXX.

setifolius Wils. — The British Isles: WHITEHOUSE et al. 1970,
p. 149; orig. M.F.V. Corley.

var. shawii (Wils.) Moenkem. — The British Isles: WHITEHOUSE et al.
1966, p. 161; orig. A.Mcg. Stirling (*C. shawii*).

shawii Wils. — See *C. setifolius* Wils. var. *shawii* (Wils.) Moenkem.

subfragilis Ren. et Card. — World: GANGULEE 1971, p. 279, Map LXXX.

subgracilis Ren. et Card. ex Gang. — SE. Asia: GANGULEE 1971,
p. 286, Map LXXXIII.

subluteus (Mitt.) Jaeg. — SE. Asia: GANGULEE 1971, p. 304,
Map LXXXVII.

subulatus Schimp. — Europe (S of lat. 62°N and W of long. 17°E):
HERZOG 1926, p. 248, Fig. 93. S. Poland (W. Carpathians): SZAFRAN
1965, p. 608, Fig. 2. Norway (S of lat. 66°N): STÖRMER 1969, p. 180,
Fig. 119. Europe: STÖRMER 1969, p. 181, Fig. 120. Germany: HEGEWALD,
FUTSCHIG & MEINUNGER 1973, p. 163.

turfaceus Schimp. — See *C. fragilis* (Brid.) B.S.G. var. *pyriformis*
(Schultz) Agst.

CAMPYLOSTELIUM

saxicola (Web. et Mohr) B.S.G. — USA (E. part): SHARP 1939, p. 333,
Fig. 9. E. Germany, Poland and Czechoslovakia: SZAFRAN 1948, p. 54,
Ryc. 29,

CATHARINEA

angustata (Brid.) Brid. — See *Atrichum angustatum* (Brid.) B.S.G.

(CATHARINEA contin.)

haussknechtii (Jur. et Mild.) Broth. — See *Atrichum undulatum* (Hedw.) P. Beauv. var. *gracilisetum* Besch.

tenella Röhl. — See *Atrichum tenellum* (Röhl.) B.S.G.

undulata (Hedw.) Web. et Mohr — See *Atrichum undulatum* (Hedw.) P. Beauv.

var. minor (Hedw.) Web. et Mohr — See *Atrichum undulatum* (Hedw.) P. Beauv. var. *minus* (Hedw.) Thér. et Mong.

CATOSCOPIUM

nigritum (Hedw.) Brid. — World: ABRAMOVA 1954, p. 663. Denmark: KJ. HOLMEN et al. 1959, p. 134, Fig. 64; orig. V. Tommerup Jensen. The British Isles: WHITEHOUSE et al. 1966, p. 163; orig. A.Mcg. Stirling. Latvia: ABOLIN 1968, p. 194. Greenland: HOLMEN, LEWINSKY & MOGENSEN 1974, p. 249. Spitzbergen: KUC 1973a, p. 466, Fig. 59. Newfoundland: TUOMIKOSKI, KOPONEN & AHTI 1973, p. 259, Fig. 6.

CEPHALOCCLADIUM

zerovii Lazar. — USSR (Baikal area): BARDUNOV 1965, p. 140, Europe and Asia: BARDUNOV 1974, p. 55. — (In Index Muscorum this species is lacking.)

CERATODON

heterophyllus Kindb. — See *C. purpureus* (Hedw.) Brid.

purpureus (Hedw.) Brid. — Antarctic (East Ongul Island): MATSUDA 1963, p. 261, Fig. 7. Antarctic: KUC 1969c, p. 672, Fig. 16. England (Warwickshire): LAFLIN 1971, p. 703, Map 846. World: GANGULEE 1971, p. 208, Map LIII. N. America: SCHOFIELD 1972, p. 1124, Fig. 21 (*C. heterophyllus*). World: SCHOFIELD 1974, p. 16, Map 4. Hungary, Rumania and adjacent countries: ORBAN 1974, p. 57, Karte 5.

stenocarpus B.S.G. — World: GANGULEE 1971, p. 208, Map LIII.

CHAETOMITRIOPSIS

glaucocarpa (Schwaegr.) Fleisch. — Asia, Australia and New Zealand: WANG 1970, p. 412, Fig. 40.

CHAMBERLAINIA

albicans (Hedw.) Robins. — England (Warwickshire): LAFLIN 1971, p. 728, Map 944 (*Brachythecium albicans*).

(CHAMBERLAINIA contin.)

collina (C. Müll.) Robins. — Afghanistan: W. FREY 1972, p. 133, Abb. 2 (Brachythecium collinum). Spitzbergen: KUC 1973a, p. 470, Fig. 74 (Brachythecium collinum).

salebrosa (Web. et Mohr) Robins. — USSR (Moldavia): SIMONOV 1972, p. 55 (Brachythecium salebrosum). Canada (Winnipeg): STRINGER & STRINGER 1974, p. 416, Fig. 9 (Brachythecium salebrosum).

velutina (Hedw.) Robins. — England (Warwickshire): LAFLIN 1971, p. 729, Map 949 (Brachythecium velutinum).

CHEILOTHELA

chloropus (Brid.) Lindb. — Jugoslavia: MARTINCIC 1966, p. 62, Abb. 35.

CHORISODONTIUM

aciphyllum (Hook. f. et Wils.) Broth. — S. Georgia: BELL 1973, p. 35, Fig. 2.

CHRYSOCLADIUM

retorsum (Mitt.) Fleisch. — Japan: NOGUCHI 1951, p. 17, Map 61.

CINCLIDIUM

arcticum (B.S.G.) Schimp. — Sweden: MÖLLER 1926, p. 182. Spitzbergen: KUC 1973a, p. 465, Fig. 56. N. Hemisphere: MOGENSEN 1973, p. 62, Fig. 7. NW. Canada (Axel Heiberg Island) KUC 1973b, p. 86, Fig. 31.

hymenophyllum (B.S.G.) Lindb. — See Cyrtomnium hymenophyllum (B.S.G.) Kj. Holmen

latifolium Lindb. — N. Hemisphere: PERSSON 1949, p. 521, Fig. 7. N. Hemisphere: STEERE 1953a, p. 44, Fig. 7. N. Hemisphere: GAMS 1955, p. 84, Fig. 6. W. Greenland: KJ. HOLMEN 1957, p. 4, Fig. 1. Canada (Queen Elizabeth Island): BRASSARD 1971, p. 263, Fig. 17. N. Hemisphere: MOGENSEN 1973, p. 63, Fig. 8.

stygium Sw. — Sweden: MÖLLER 1926, p. 182. E. Germany, Poland, Czechoslovakia and E. Prussia: SZAFRAN 1948, p. 59, Ryc. 32. SW. Poland: KUC 1956, p. 636, Fig. 3. Poland: KUC 1956, p. 639, Fig. 8. The British Isles: PROCTOR 1960, p. 17, Fig. 9. S. Poland: KUC 1964, p. 135, Ryc. 28. SE. Poland: KARCZMARZ 1964, p. 407, Ryc. 6. E. Germany (Mecklenburg): PANKOW 1966, p. 65, Karte 2.

(CINCLIDIUM contin.)

Latvia: ABOLIN 1968, p. 188. N. Sweden, N. Norway, Finland and W. USSR: KOPONEN 1969, p. 113, Fig. 1. Sweden (Vrm.): FRANSSON 1972, p. 112, Map 64. N. Hemisphere and S. America: MOGENSEN 1973, p. 67, Fig. 10, Spitzbergen: KUC 1973a, p. 465, Fig. 55. Hungary, Rumania and adjacent countries: ORBAN 1975, p. 83, Karte 7.

subrotundum Lindb. — Sweden: MÖLLER 1926, p. 182. N. Sweden, N. Norway, Finland and W. USSR: KOPONEN 1969, p. 113, Fig. 2. Spitzbergen: KUC 1973a, p. 465, Fig. 55. N. Hemisphere: MOGENSEN 1973, p. 68, Fig. 11.

CINCLIDOTUS

aquaticus (Hedw.) B.S.G. — Belgium and the French Ardennes: LAMBINON & EMPAIN 1973, p. 181, Fig. 4.

danubicus Schiffn. et Baumg. — Latvia: ABOLIN 1968, p. 144. Belgium and the French Ardennes: LAMBINON & EMPAIN 1973, p. 182, Fig. 5.

fontinaloides (Hedw.) P. Beauv. — SW. Germany: DÜLL 1969, p. 294, Taf. 4a. NW. Germany (Heuckenlock): FRAHM 1971, p. 8, Abb. 3.

mucronatus (Brid.) Mach. — See *Dialytrichia mucronata* (Brid.) Broth.

CIRRIPHYLLUM

cirrosum (Schwaegr.) Grout — See *Brachythecium cirrosum* (Schwaegr.) Schimp.

crassinervium (Tayl.) Loeske et Fleisch. — Norway (S of lat. 66°N): STÖRMER 1969, p. 144, Fig. 82. Europe, N. Africa and W. Asia: STÖRMER 1969, p. 144, Fig. 83. England (Warwickshire): LAFLIN 1971, p. 730, Map 953. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 63, Ryc. 4.

ornellanum (Mol.) Loeske — Europe and Asia: ABRAMOVA & ABRAMOV 1953, p. 373 (*Scleropodium ornellanum*). Europe: KUC 1957, p. 82, Fig. 4 (*Scleropodium ornellanum*).

piliferum (Hedw.) Grout — See *Brachythecium piliferum* (Hedw.) Kindb.

tenuinerve (Lindb.) Wijk et Marg. — Sweden (NrK.): WALDHEIM 1935a, p. 139, Fig. 6 (*C. vaucheri*). S. Poland: KUC 1964, p. 183, Ryc. 43 (*C. vaucheri*). S. Poland (W. Carpathians): SZAFRAN 1965, p. 608, Fig. 2.

(CIRRIPHILLUM contin.)

(*C. vaucheri*). Poland (NW. Sudet): WILCZYNSKA 1974, p. 61, Ryc. 2
(*C. vaucheri*).

vaucheri Loeske et Fleisch. — See *C. tenuinerve* (Lindb.) Wijk et Marg.

CLAOPODIUM

aciculum (Broth.) Broth. — World: NOGUCHI 1964, p. 24. Japan: WATANABE 1972, p. 250, Map 5A.

assurgens (Sull. et Lesq.) Card. — World: ABRAMOVA & ABRAMOV 1959, p. 355. World: NOGUCHI 1964, p. 24. World: ABRAMOV 1969, p. 43. Asia, Australia and New Zealand: WANG 1970, p. 404, Fig. 24.

bolanderi Best — World: ABRAMOVA & ABRAMOV 1959, p. 355. World: NOGUCHI 1964, p. 24. World: ABRAMOV 1969, p. 43.

crispifolium (Hook.) Ren. et Card. — World: ABRAMOVA & ABRAMOV 1959, p. 355. World: NOGUCHI 1964, p. 24. E. Asia and N. America: SCHOFIELD 1965, p. 19, Map 4. World: ABRAMOV 1969, p. 43. Japan: WATANABE 1972, p. 251, Map 6B. Japan: IWATSUKI 1972b, p. 125, Fig. 13. World: IWATSUKI 1972b, p. 125, Fig. 13.

gracillimum (Card. et Thér.) Nog. — See *Diaphanodon gracillimus* Card. et Thér.

nervosum Fleisch. — See *C. prionophyllum* (C. Müll.) Broth.

pellucinerve (Mitt.) Best — World: NOGUCHI 1964, p. 24. World: ABRAMOV 1969, p. 43. World: WANG 1970, p. 399, Fig. 15. Japan: WATANABE 1972, p. 247, Map 2B. Japan: IWATSUKI 1972b, p. 126, Fig. 14. World: IWATSUKI 1972b, p. 126, Fig. 14.

prionophyllum (C. Müll.) Broth. — World: ABRAMOVA & ABRAMOV 1959, p. 355 (*C. nervosum*). World: NOGUCHI 1964, p. 24 (*C. nervosum*). World: ABRAMOV 1969, p. 43 (*C. nervosum*). Japan: WATANABE 1972, p. 247, Map 2C.

subpiliferum (Lindb. et Arn.) Broth. — World: ABRAMOVA & ABRAMOV 1959, p. 355.

whippleanum (Sull.) Ren. et Card. — W. Europe and N. America: P. ALLORGE 1947, p. 88, Fig. 8. World: ABRAMOVA & ABRAMOV 1959, p. 355. World: NOGUCHI 1964, p. 24. World: ABRAMOVA & ABRAMOV 1969,

(CLAOPODIUM contin.)

p. 153, Fig. 2. World: ABRAMOV 1969, p. 43. World: SCHOFIELD & CRUM 1972, p. 191, Map 33. Iberia: ACON & CASAS DE PUIG 1975, p. 118, Fig. 1.

CLASTOBRYUM

indicum (Doz. et Molk.) Doz. et Molk. — Japan: SEKI 1968, p. 28, Fig. 8.

CLIMACIUM

americanum Brid. — Alaska and British Columbia: PERSSON 1946, p. 322, Fig. 2. USA (Iowa): LOWY 1950, p. 290, Fig. A.

ssp. japonicum (Lindb.) Perss. — Alaska and British Columbia: PERSSON 1946, p. 322, Fig. 2 (C. japonicum).

dendroides (Hedw.) Web. et Mohr — USA (Pa.): MOUL 1952, p. 145, Fig. 3. Denmark: KJ. HOLMEN et al. 1959, p. 137, Fig. 53; orig. J. Gernaa. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 72. Finland: KUJALA 1964, Karta 176. USSR (Moldavia): SIMONOV 1972, p. 43. Spitzbergen: KUC 1973a, p. 467, Fig. 63. The British Isles: J.H. DICKSON 1973, p. 121 (f), Fig. 53. World: SCHOFIELD 1974, p. 22, Map 15.

japonicum Lindb. — See C. americanum Brid. ssp. japonicum (Lindb.) Perss.

CNESTRUM

schisti (Web. et Mohr) Hag. — N. America: STEERE 1938, p. 148, Fig. 1. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 62, Ryc. 3 (Cynodontiella schisti).

CONOSTOMUM

magellanicum Sull. — S. Georgia: BELL 1973, p. 46, Fig. 12.

pentastichum (Brid.) Lindb. — S. Georgia: BELL 1973, p. 48, Fig. 14.

tetragonum (Hedw.) Lindb. — Sweden: MÖLLER 1925, p. 129. Japan: OCHI 1963, Pl. 18. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 69. The British Isles: WHITEHOUSE et al. 1970, p. 155; orig. U.K. Duncan. Greenland: LEWINSKY & MOGENSEN 1975, p. 108.

COSCINODON

cribrosus (Hedw.) Spruce — Sweden: MÖLLER 1931, p. 159. Canada

(COSCINODON contin.)

(Quebec): KUCYNIK 1955c, p. 105 (*Grimmia cribrosa*). The British Isles: WHITEHOUSE et al. 1966, p. 162; orig. D.A. Ratcliffe.
W. France: TOUFFET 1969b, p. 57, Fig. 15. World: GANGULEE 1972, p. 788, Map CCXXXIX. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 61, Ryc. 2. Germany (Thüringen): MEINÜNGER 1975, p. 229, Karte 7.

CRATONEURELLA

uncinifolia (Broth. et Par.) Robins. — Japan: TAKAKI 1956, p. 62, Map 2 (*Brachythecium uncinifolium*).

CRATONEURON

arcticum Steere — N. Canada: KUC 1973b, p. 93, Fig. 34.

commutatum (Hedw.) Roth — Poland (Lower Nida): WACLAWSKA 1964, p. 368, Fig. 1. Japan: KANDA 1975, p. 238, Fig. 16.

var. falcatum (Brid.) Mönkem. — N. Sweden, N. Norway, Finland and W. USSR: KOTILAININ 1929, Karte 11 (*C. glaucum* var. *falcatum*).

curvicaule (Jur.) Roth — See *C. filicinum* (Hedw.) Spruce var. *curvicaule* (Jur.) Mönkem.

decipiens (De Not.) Loeske — Germany (Thüringen): MEINÜNGER 1975, p. 235, Karte 13 (*Cratoneurum decipiens*).

filicinum (Hedw.) Spruce — England (Warwickshire): LAFLIN 1971, p. 724. USSR (Moldavia): SIMONOV 1972, p. 47. Spitzbergen: KUC 1973a, p. 468, Fig. 66. World: SCHOFIELD 1974, p. 19, Map 9. Japan: KANDA 1975, p. 235, Fig. 14.

var. curvicaule (Jur.) Mönkem. — SW. Spitzbergen (Hornsund) KUC 1963, Fig. 76. NW. Canada (Axel Heiberg Island): KUC 1973b, p. 95, Fig. 35 (*C. curvicaule*).

var. fallax (Brid.) Roth — Sweden (S of lat. 58°N): WALDHEIM 1935b, p. 451, Fig. 3.

var. tenerrimum Warnst. — Japan: KANDA 1975, p. 238, Fig. 16 (*C. tenerrimum*).

glaucum Broth. var. falcatum (Brid.) Mönkem. — See *C. commutatum* (Hedw.) Roth var. *falcatum* (Brid.) Mönkem.

tenerrimum (Warnst.) Kanda — See *C. filicinum* (Hedw.) Spruce var. *tenerrimum* Warnst.

CROSSIDIUM

aberrans Holz. et Bartr. — M. America: DELGADILLO 1975, p. 294, Fig. 113. S. Europe and N. Africa: DELGADILLO 1975, p. 294, Fig. 113.

chloronotos (Brid.) Limpr. — Europe and N. Africa: DELGADILLO 1975, p. 297, Fig. 118 (*C. crassinerve*). S. USA and Mexico: DELGADILLO 1975, p. 297, Fig. 118 (*C. crassinervis*). E. Europe and W. Asia: DELGADILLO 1975, p. 297, Fig. 118 (*C. crassinerve*).

crassinerve (De Not.) Jur. — See *C. chloronotos* (Brid.) Limpr.

geheebi (Broth.) Broth. — Australia and New Zealand: DELGADILLO 1975, p. 294, Fig. 110.

roseae (Williams) Bartr. — S. America: DELGADILLO 1975, p. 299, Fig. 121 (*Aloina roseae*). S. America: DELGADILLO 1975, p. 294, Fig. 112.

seriatum Crum et Steere — N. America: DELGADILLO 1975, p. 294, Fig. 111.

squamigerum (Viv.) Jur. — Switzerland: J. AMANN 1928, p. 431, Fig. 10.

CRUMIA

latifolia (Kindb.) Schof. — See *Merceya latifolia* Kindb.

CRYPHAEA

arborea (P. Beauv.) Lindb. — See *C. heteromalla* (Hedw.) Mohr

filiformis (Hedw.) Brid. — USA: MANUEL 1973a, p. 145, Fig. 1.

glomerata Sull. — E. USA: SCHORNHERST 1946, p. 159, Fig. 4. USA: MANUEL 1973a, p. 147, Fig. 3.

heteromalla (Hedw.) Mohr — Iberia: SERÓ 1951, p. 96 (*C. arborea*). N. Italy: GIACOMINI 1951, p. 101, Carta 7 (*C. arborea*). Denmark: KJ. HOLMEN et al. 1959, p. 137, Fig. 74; orig. J. Gernaa. NE. Germany: KÜHNER & PANKOW 1967, p. 173, Abb. 7.

var. aquatilis (C. Müll.) Wils. — W. France: TOUFFET 1969b, p. 62, Fig. 26 (*C. lamyana*).

lamyana (Mont.) C. Müll. — See *C. heteromalla* (Hedw.) Mohr var. *aquatilis* (C. Müll.) Wils.

(CRYPHAEA contin.)

nervosa (Hook. et Wils.) C. Müll. — USA (E. part): SHARP 1939, p. 333, Fig. 10. USA: MANUEL 1973a, p. 145, Fig. 2.

ravenelii Aust. — USA: MANUEL 1973a, p. 145, Fig. 1.

CTENIDIUM

molluscum (Hedw.) Mitt. — Sweden (Nrk.): WALDHEIM 1935a, p. 137, Fig. 4. Denmark: KJ. HOLMEN et al. 1959, p. 148, Fig. 115; orig. V.B. Mikkelsen. Latvia: ABOLIN 1968, p. 296. England (Warwickshire): LAFLIN 1971, p. 736, Map 976.

CYATHOPHORELLA

hookeriana (Griff.) Fleisch. — SE. Asia: WANG 1970, p. 410, Fig. 36.

tahitensis (Besch.) Fleisch. — Oceania: SCHULTZE-MOTEL 1974, p. 296, Fig. 1.

tonkinensis (Broth. et Par.) Broth. — Japan and Formosa: HORIKAWA 1955b, p. 109, Fig. 1. E. Asia: HORIKAWA 1955b, p. 109, Fig. 2.

CYCLODICTYON

laetevirens (Hook. et Tayl.) Mitt. — Europe: FUTSCHIG 1954, p. 18; orig. H. Gams. The British Isles: WHITEHOUSE et al. 1969, p. 839; orig. H.J.B. Birks. Europe and Africa: VIGÓN 1975, p. 21.

varians (Sull.) O. Kuntze — USA and M. America: PURSELL & REESE 1970, p. 149, Fig. 3.

CYNODONTIELLA

schisti (Web. et Mohr) Bryhn — See *Cnestrum schisti* (Web. et Mohr) Hag.

CYNODONTIUM

alpestre (Wahlenb.) Milde — N. Sweden, N. Norway, Finland and W. USSR: KOTILAINEN 1929, Karte 1. Finland (Kuusamo): TUOMIKOSKI 1939, p. 114, Karte 21. NW. Canada (Axel Heiberg Island): KUC 1973b, p. 48, Fig. 16.

bruntonii (Sm.) B.S.G. — See *Oreoweisia bruntonii* (Sm.) Milde

gracilescens (Web. et Mohr) Schimp. — World: GANGULEE 1971, p. 354, Map CIV.

polycarpum (Hedw.) Schimp. — E. Germany, Poland, Czechoslovakia and E. Prussia: SZAFRAN 1948, p. 50, Ryc. 27. SW. Poland: KUC 1956,

(CYNODONTIUM contin.)

p. 637, Fig. 4. Poland: KUC 1964, p. 77, Ryc. 18. Jugoslavia: MARTINCIC 1966, p. 28, Abb. 14. World: GANGULEE 1971, p. 354, Map CIV. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 97, Ryc. 8. Poland (Silesia): BERDOWSKI 1974, p. 25, Mapa 5.

var. strumiferum Mönkem. — See *C. strumiferum* (Hedw.) Lindb.

strumiferum (Hedw.) Lindb. — SW. Poland: KUC 1956, p. 637, Fig. 5. Poland (Silesia): BERDOWSKI 1974, p. 25, Mapa 5 (*C. polycarpum* var. *strumiferum*).

CYPTODONTOPSIS

obtusifolia (Nog.) Nog. — Japan: NOGUCHI 1951, p. 16, Map 58.

CYRTOMNIUM

hymenophylloides (Hüb.) Kop. — See *Mnium hymenophylloides* Hüb.

hymenophyllum (B.S.G.) Kj. Holmen — Sweden: MÖLLER 1926, p. 182 (*Cinclidium hymenophyllum*). Spitzbergen: KUC 1973a, p. 465, Fig. 54.

CYRTOPUS

setosus (Hedw.) Hook. — World: SCHOFIELD & CRUM 1972, p. 196, Map 48.

DALTONIA

aristifolia Ren. et Card. — World: WANG 1970, p. 406, Fig. 29.

splachnoides (Sm.) Hook. et Tayl. — World: IRMSCHER 1929, Fig. 10, Taf. 13. Europe: FUTSCHIG 1954, p. 18; orig. H. Gams. The British Isles: WHITEHOUSE et al. 1974, p. 129; orig. H.J.B. Birks.

DAWSONIA

beccarii Broth. et Geh. — SE. Asia: ZANTEN 1973, p. 20, Map B.

var. limbata (Dix.) Zant. et P. Heuk — See *D. limbata* Dix.

var. longivaginata Zant. et P. Heuk — SE. Asia: ZANTEN 1973, p. 20, Map B.

gigantea C. Müll. ex Schlieph. et Geh. — SE. Asia: ZANTEN 1973, p. 20, Map E.

grandis Schlieph. et Geh. — SE. Asia: ZANTEN 1973, p. 20, Map E.

lativaginata Wijk — New Guinea and Celebes: ZANTEN 1973, p. 20, Map F.

(DAWSONIA contin.)

limbata Dix. — SE. Asia: ZANTEN 1973, p. 20, Map B (*D. beccarii* var. *limbata*),

papua F. Muell. ex Schlieph. et Geh. — New Guinea: ZANTEN 1973, p. 20, Map C.

pullei Fleisch. et Reim. — New Guinea: ZANTEN 1973, p. 20, Map F.

superba Grev. — SE. Asia: ZANTEN 1973, p. 20, Map D.

DENDROALSIA

abietina (Hook.) Britt. — W. North America: MANUEL 1974, p. 534, Fig. 1.

DENDROCYATHOPHORUM

intermedium (Mitt.) Herz. — Asia, Australia and New Zealand: WANG 1970, p. 412, Fig. 41.

DENDROLIGOTRICHUM

dendroides (Hedw.) Broth. — S. Hemisphere: G.L. SMITH 1971, p. 63, Fig. 94. Subantarctic (S. Georgia): GREENE 1973, p. 12, Fig. 4 (*D. squamosum*),

squamosum (Hook. f. et Wils.) Broth. — See *D. dendroides* (Hedw.) Broth.

DENDROPOGONELLA

rufescens (Schimp.) Britt. — M. America and S. America (N of the Equator): MANUEL 1973b, p. 522, Fig. 1.

DESMATODON

convolutus (Brid.) Grout — World: GIACOMINI 1951, p. 100, Carta 6 (*Tortula atrovirens*). World: MARTINČIĆ 1966, p. 55, Abb. 31 (*Tortula atrovirens*).

gemmascens Chen. — World: GANGULEE 1972, p. 773, Map CCXXXIV. Japan: SAITO 1973, p. 76, Fig. 7.

heimii (Hedw.) Hampe. — See *Pottia heimii* (Hedw.) Hampe.

laureri (Schultz) B.S.G. — Spitzbergen: KUC 1973a, p. 460, Fig. 34. Japan: SAITO 1973, p. 76, Fig. 7.

latifolius (Hedw.) Brid. — Finland (Kuusamo): TUOMIKOSKI 1939, p. 112, Karte 18. Finland and W. USSR: VAARAMA 1939, p. 45, Karte 1. World: GANGULEE 1972, p. 773, Map CCXXXIV. Spitzbergen: KUC 1973a,

(DESMATODON contin.)

p. 459, Fig. 32. Japan: SAITO 1973, p. 76, Fig. 7 (var. latifolius).

var. brevicaulis Schimp. — See D. latifolius (Hedw.) Brid. var. pilifer (Dicks.) Rabenh.

var. muticus Brid. — Finland and W. USSR: VAARAMA 1939, p. 45, Karte 1. Japan: SAITO 1973, p. 76, Fig. 7.

var. pilifer (Dicks.) Rabenh. — Finland and W. USSR: VAARAMA 1939, p. 45, Karte 1 (D. latifolius var. brevicaulis).

leucostoma (R. Br.) Berggr. — SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 57. Spitzbergen: KUC 1973a, p. 460, Fig. 33.

obtusifolius (Schwaegr.) Schimp. — Slovakia: PILOUS 1957b, p. 247, Obr. 3 (Tortula obtusifolia). Japan: SAITO 1973, p. 90, Fig. 13 (Tortula obtusifolia).

DIALYTRICHIA

brebissoni (Brid.) Limpr. — See D. mucronata (Brid.) Broth.

mucronata (Brid.) Broth. — Europe and N. Africa: J. AMANN 1928, p. 305, Fig. 4 (D. brebissoni). Switzerland: J. AMANN 1928, p. 435, Fig. 12 (D. brebissonii). Germany (Upper Rhein reg.): PHILIPPI 1968, p. 76, Abb. 5. Europe: PHILIPPI 1968, p. 77, Abb. 6. England (Warwickshire): LAFLIN 1971, p. 710, Map 873 (Cinclidotus mucronatus). Belgium: LAMBINON & EMPAIN 1973, p. 181, Fig. 4.

DIAPHANODON

blandus (Harv.) Ren. et Card. — E. Asia, Australia and Oceania: ZANTEN 1959, p. 535, Pl. VII, Map 1. Asia: CROIZAT 1967, p. 788, Fig. 4.

var. ceylonensis Zant. — E. Asia, Australia and Oceania: ZANTEN 1959, p. 535, Pl. VII, Map 2.

var. recurvidentatus Zant. — E. Asia, Australia and Oceania: ZANTEN 1959, p. 535, Pl. VII, Map 2.

gracillimus Card. et Thér. — World: NOGUCHI 1964, p. 24 (Claopodium gracillimum). Japan: WATANABE 1972, p. 251, Map 6A (Claopodium gracillimum).

procumbens (C. Müll.) Ren. et Card. — E. Asia, Australia and Oceania: ZANTEN 1959, p. 535, Pl. VII, Map 2.

DICHELYMA

capillaceum (With.) Myr. — Sweden: MÖLLER 1922, p. 76. N. Hemisphere: TOIVONEN 1972, p. 103, Fig. 10. Norden and W. USSR: TOIVONEN 1972, p. 104, Fig. 11.

falcatum (Hedw.) Myr. — Sweden: MÖLLER 1922, p. 76.

var. amblystegioides Möll. — See *Drepanocladus aduncus* (Hedw.) Warnst.

DICHODONTIUM

pellucidum (Hedw.) Schimp. — N. Sweden, N. Norway, Finland and W. USSR: KOTILAINEN 1929, Karte 2. N. America: SHARP 1939, p. 330, Fig. 2. England (Kent): ROSE 1951, p. 428, Fig. 3. S. Poland: KUC 1964, p. 76, Ryc. 17. Latvia: ABOLIN 1968, p. 105. W. France: TOUFFET 1969b, p. 55, Fig. 11. Spitzbergen: KUC 1973a, p. 456, Fig. 18. The British Isles: J.H. DICKSON 1973, p. 85 (f), Fig. 38.

DICRANELLA

amplexans (Mitt.) Jaeg. — SE. Asia: GANGULEE 1971, p. 263, Map LXXIV.

divaricata (Mitt.) Jaeg. — World: GANGULEE 1971, p. 259, Map LXXIII.

grevilleana (Brid.) Schimp. — Spitzbergen: KUC 1973a, p. 456, Fig. 17.

heteromalla (Hedw.) Schimp. — Latvia: ABOLIN 1968, p. 105. England (Warwickshire): LAFLIN 1971, p. 704, Map 851. World: GANGULEE 1971, p. 259, Map LXXIII.

humilis Ruthe — See *Anisothecium rigidulum* (Hedw.) C. Jens.

leptoneura Dix. — SE. Asia: GANGULEE 1971, p. 256, Map LXXII.

macrospora Gang. — SE. Asia: GANGULEE 1971, p. 263, Map LXXIV.

palustris (Dicks.) Grundw. — E. Germany, Poland and Czechoslovakia: SZAFRAN 1948, p. 48, Ryc. 25 (*Anisothecium squarrosum*). Yugoslavia: MARTINCIC 1966, p. 22, Abb. 7 (*Anisothecium squarrosum*). S. Poland (W. Carpathians): LISOWSKI & KORNAŠ 1966, p. 62, Fig. 3 (*Diobelon squarrosum*).

pseudosubulata Gang. — SE. Asia: GANGULEE 1971, p. 256, Map LXXII.

riparia (Lindb.) Mårt. et Nyh. — N. Hemisphere: MOLENAAR 1974, p. 236, Fig. 1.

(DICRANELLA contin.)

rufescens (With.) Schimp. — See *Anisothecium rufescens* (With.) Lindb.

schreberi Schimp. — See *Anisothecium schreberianum* (Hedw.) Dix.

schreberiana (Hedw.) Hilf. — See *Anisothecium schreberianum* (Hedw.) Dix.

secunda Lindb. — See *D. subulata* (Hedw.) Schimp.

setifera (Mitt.) Jaeg. — SE. Asia: GANGULEE 1971, p. 256, Map LXXII.

spiralis (Mitt.) Jaeg. — See *Anisothecium spirale* (Mitt.) Broth.

subulata (Hedw.) Schimp. — W. France: TOUFFET 1969b, p. 53, Fig. 8 (*D. secunda*). Spitzbergen: KUC 1973a, p. 456, Fig. 17. Poland (Silesia): BERDOWSKI 1974, p. 29, Mapa 6.

varia (Hedw.) Schimp. — See *Anisothecium varium* (Hedw.) Mitt.

DICRANODONTIUM

asperulum (Mitt.) Broth. — Norden: DEGELIUS 1935, p. 208, Fig. 55. Norway (S of lat. 66°N): STÖRMER 1969, p. 239, Fig. 177. Europe: STÖRMER 1969, p. 240, Fig. 178. World: GANGULEE 1971, p. 324, Map XCII.

attenuatum (Mitt.) Wils. ex Jaeg. — SE. Asia: GANGULEE 1971, p. 315, Map XC.

caespitosum (Mitt.) Par. — SE. Asia: GANGULEE 1971, p. 331, Map XCIV.

capillifolium (Dix.) Tak. — See *Brothera capillifolia* Dix.

circinatum (Mild.) Schimp. — See *D. uncinatum* (Harv.) Jaeg.

decipiens (Mitt.) Mitt. ex Broth. — SE. Asia: GANGULEE 1971, p. 315, Map XC.

denudatum (Brid.) Britt. — Norden. KOTILAINEN 1933, p. 3, Kartake 1a. Scandinavia, Finland and W. USSR: KOTILAINEN 1933b, p. 7, Kartogramm 1. S. Poland: KUC 1964, p. 76, Ryc. 17. Norway: STÖRMER 1969, p. 99, Fig. 46. Europe and W. Asia: STÖRMER 1969, p. 100, Fig. 47. World: GANGULEE 1971, p. 320, Map XCI. Newfoundland: TUOMIKOSKI, KOPONEN & AHTI 1973, p. 260, Fig. 8.

(DICRANODONTIUM contin.)

didictyon (Mitt.) Jaeg. — SE. Asia: GANGULEE 1971, p. 331, Map XCIV.

didymodon (Griff.) Par. — World: GANGULEE 1971, p. 331, Map XCIII.

dimorphum Mitt. in Ren. et Card. — SE. Asia: GANGULEE 1971, p. 331, Map XCIV.

fleischerianum Schultze-Motel — See *D. nitidum* (Doz. et Molk.) Fleisch.

nitidum (Doz. et Molk.) Fleisch. — World: GANGULEE 1971, p. 324, Map XCII (*D. fleischerianum*).

sordidum (Mitt.) C. Müll. — See *Blindia sordida* (Mitt.) C. Müll.

uncinatum (Harv.) Jaeg. — Norden: DEGELIUS 1935, p. 209, Fig. 56 (*D. circinatum*). Norway (S of lat. 66°N): STÖRMER 1969, p. 241, Fig. 179. Europe: STÖRMER 1969, p. 242, Fig. 180. World: GANGULEE 1971, p. 327, Map XCIII.

DICRANOLOMA

blumii (Nees) Par. — SE. Asia: GANGULEE 1971, p. 402, Map CXXII.

braunii (C. Müll.) Par. — Asia, Australia and New Zealand: WANG 1970, p. 402, Fig. 21.

fragile Broth. — SE. Asia: GANGULEE 1971, p. 402, Map CXXII.

hariotii (C. Müll.) Par. — S. Georgia: BELL 1973, p. 38, Fig. 4.

subimponens (Card.) Broth. — S. Georgia: BELL 1973, p. 40, Fig. 6.

subreflexifolium (C. Müll.) Par. — SE. Asia: GANGULEE 1971, p. 405, Map CXXIII.

DICRANOWEISIA

alpina (Mitt.) Par. — SE. Asia: GANGULEE 1971, p. 363, Map CVIII.

cirrata (Hedw.) Lindb. in Mild. — Switzerland: J. AMANN 1928, p. 433, Fig. 11. Norway (S of lat. 66°N): STÖRMER 1969, p. 146, Fig. 84. Europe, N. Africa and W. Asia: STÖRMER 1969, p. 147, Fig. 85. SW. Germany: DÜLL 1969, p. 299, Taf. 6. England (Warwickshire): LAFLIN 1971, p. 705, Map 852.

crispula (Hedw.) Mild. — Poland (NW. Sudet): WILCZYNSKA 1974, p. 97, Ryc. 8. E. Germany, Poland, Czechoslovakia and E. Prussia: SZAFRAN 1948, p. 50, Ryc. 27.

(DICRANOWEISIA contin.)

grimmia (C. Müll.) Broth. — Antarctic (S. Orkney Islands): WEBB 1973, Fig. 1.

indica (Wils.) Par. — SE. Asia: GANGULEE 1971, p. 363, Map CVIII.

DICRANUM

acutifolium (Lindb. et Arn.) C. Jens. — N. Hemisphere: PILOUS 1975a, p. 165, Obr. 1.

assamicum Dix. — SE. Asia: GANGULEE 1971, p. 389, Map CXVIII.

bergeri Bland. — See *D. undulatum* Brid.

bonjeani De Not. — The British Isles: BRIGGS 1965, p. 70, Fig. 1. Spitzbergen: KUC 1973a, p. 457, Fig. 24.

canariense Hamp. ex C. Müll. — See *Orthodicranum scottianum* (Turn.) Roth ssp. *canariense* (C. Müll.) Podp.

crispifolium C. Müll. — SE. Asia: GANGULEE 1971, p. 385, Map CXVII.

drummondii C. Müll. — World: SLJAKOV 1961, p. 215 (*D. elatum*).

elatum Lindb. — See *D. drummondii* C. Müll.

flagellare Hedw. — See *Orthodicranum flagellare* (Hedw.) Loeske

frigidum C. Müll. — Peru: HEGEWALD 1975, p. 37, Abb. 4.

fulvellum (Dicks.) Sm. — See *Arctoa fulvella* (Dicks.) B.S.G.

fulvum Hook. — See *Paraleucobryum fulvum* (Hook.) Loeske

var. viride (Sull. et Lesq.) Frye in Grout — See *Paraleucobryum viride* (Sull. et Lesq.) Podp.

fuscescens Turn. — Belgium: DEMARET & CASTAGNE 1961, p. 183, Fig. 68. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 48. Finland: KUJALA 1964, Karta 177. The British Isles: BRIGGS 1965, p. 70, Fig. 1. World: TAKAKI 1972, p. 38, Map 2.

var. congestum (Brid.) Kindb. — Spitzbergen: KUC 1973a, p. 457, Fig. 23.

glaciale Berggr. — See *Kiaeria glacialis* (Berggr.) Hag.

gymnostomum Mitt. — SE. Asia: GANGULEE 1971, p. 385, Map CXVII.

hamulosum Mitt. — See *Orthodicranum hamulosum* (Mitt.) Broth.

(DICRANUM contin.)

himalayanum Mitt. — SE. Asia: GANGULEE 1971, p. 389, Map CXVIII.

kashmirens Broth. — SE. Asia: GANGULEE 1971, p. 389, Map CXVIII.

leioneuron Kindb. — Norden and Estonia: AHTI & ISOVIITA 1962, p. 72, Fig. 4.

longifolium Hedw. — See *Paraleucobryum longifolium* (Hedw.) Loeske

lorifolium Mitt. — SE. Asia: GANGULEE 1971, p. 397, Map CXX.

majus Turn. — SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 49.

Finland: KUJALA 1964, Karta 178. The British Isles: BRIGGS 1965, p. 70, Fig. 1. England (Warwickshire): LAFLIN 1971, p. 705, Map 855. World: GANGULEE 1971, p. 394, Map CXIX.

mayrii Broth. — World: TAKAKI 1972, p. 38, Map 3.

miquelonense Ren. et Card. — See *Orthodicranum flagellare* (Hedw.) Loeske

montanum Hedw. — See *Orthodicranum montanum* (Hedw.) Loeske

muehlenbeckii B.S.G. — Spitzbergen: KUC 1973a, p. 457, Fig. 22.

oleodictyon Dix. — S. Georgia: BELL 1973, p. 42, Fig. 8.

orthophylloides Dix. — SE. Asia: GANGULEE 1971, p. 397, Map CXX.

polysetum Sw. — Finland: KUJALA 1964, Karta 179. The British Isles: WHITEHOUSE et al. 1965, p. 884; orig. R.E. Longton. USSR (Moldavia): SIMONOV 1972, p. 25.

scoparium Hedw. — England (Warwickshire): LAFLIN 1971, p. 706, Map 856. World: GANGULEE 1971, p. 394, Map CXIX. USSR (Moldavia): SIMONOV 1972, p. 25. World: SCHOFIELD 1974, p. 18, Map 7.

scottianum Turn. — See *Orthodicranum scottianum* (Turn.) Roth

ssp. anglicum Reim. — See *Orthodicranum scottianum* (Turn.) Roth
var. scottianum

spurium Hedw. — Germany (Bayern): PAUL 1943, p. 123. Finland: KUJALA 1964, Karta 180. The British Isles: WHITEHOUSE et al. 1965, p. 885; orig. R.E. Longton. Latvia: ABOLIN 1968, p. 117. N. Germany: PANKOW & KÜHNER 1967, Tab. 22. World: GANGULEE 1971, p. 382, Map CXVI.

strictum Schleich. ex Mohr — See *D. tauricum* Sapehin

(DICRANUM contin.)

tauricum Sapehin — Poland (Upper Wislok): WACLAWSKA 1957, p. 98, Fig. 2 (*D. strictum*). England (Hertfordshire): SWINSCOW 1959, p. 532, Map 3 (*D. strictum*). The British Isles: WHITEHOUSE et al. 1963, p. 518; orig. F. Rose (*D. strictum*). Yugoslavia: MARTINCIC 1966, p. 44, Abb 24 (*Orthodicranum strictum*). W. France: TOUFFET 1969b, p. 55, Fig. 12 (*Orthodicranum strictum*). England (Warwickshire): LAFLIN 1971, p. 705, Map 854 (*D. strictum*). Germany, W. Czechoslovakia and W. Austria: HEGEWALD 1972, p. 348. The British Isles: ROSE & WALLACE 1974, p. 42, Fig. 3 (*D. strictum*).

undulatum Brid. — The British Isles: WHITEHOUSE et al. 1967, p. 366; orig. J.H. Dickson. SW. Germany: DÜLL 1969, p. 301, Taf.7a. (*D. bergeri*). World: GANGULEE 1971, p. 382, Map CXVI. The British Isles: J.H. DICKSON 1973, p. 87 (+f), Fig. 39.

viride (Sull. et Lesq.) Lindb. — See *Paraleucobryum viride* (Sull. et Lesq.) Podp.

var. hakkodense (Besch.) Takaki — See *Paraleucobryum viride* (Sull. et Lesq.) Podp.

DIDYMODON

asperifolius (Mitt.) Crum — See *Barbula asperifolia* Mitt.

atrorubens (Besch.) Broth. — SE. Asia: GANGULEE 1972, p. 750, Map CCXXVI (*Bryoerythrophyllum atrorubens*).

cordatus Jur. ssp. austriacus (Schiffn. et Baumg.) Wijk et Marg. — Poland (Lower Nida): WACLAWSKA 1964, p. 368, Fig. 1 (*Barbula austriaca*). Poland: WACLAWSKA 1964, p. 374, Fig. 2 (*Barbula austriaca*).

johansenii (Williams) Crum — See *Barbula johansenii* Williams

maschalogenia (Ren. et Card.) Broth. — Indian Peninsula: GANGULEE 1972, p. 756, Map CCXXVIII.

mittenii Gang. — See *D. obscurus* (Mitt.) Dix.

obscurus (Mitt.) Dix. — Indian Peninsula: GANGULEE 1972, p. 760, Map CCXXIX (*D. mittenii*).

ovatus (Mitt.) Jaeg. — Indian Peninsula: GANGULEE 1972, p. 760, Map CCXXIX.

(DIDYMODON contin.)

recurvus (Griff.) Broth. — Indian Peninsula: GANGULEE 1972, p. 756, Map CCXXVIII.

rigidulus Hedw. — England (Warwickshire) LAFLIN 1971, p. 711, Map 879 (*Barbula rigidula*). USSR (Moldavia): SIMONOV 1972, p. 25 (*Barbula rigidula*). Poland: MICKIEWICZ 1972, p. 233, Fig. 1 (*Barbula rigidula*).

rufus Lor. — See *Barbula asperifolia* Mitt.

spadiceus (Mitt.) Limpr. — Poland (NW. Sudet): WILCZYŃSKA 1974, p. 63, Ryc. 4 (*Barbula spadicea*).

tophaceus (Brid.) Lisa — Poland (Upper Wislok): WACLAWSKA 1957, Fig. 2 (*Barbula tophacea*). England (Warwickshire) LAFLIN 1971, p. 712, Map 881 (*Barbula tophacea*). SE. Asia: GANGULEE 1972, p. 659, Map CXCV (*Ocystegus stenophyllus*). USSR (Moldavia): SIMONOV 1972, p. 25.

trifarius (Hedw.) Röhl. — Poland: KUC 1964, p. 49, Ryc 6 (*Barbula trifaria*). England (Warwickshire): LAFLIN 1971, p. 712, map 880 (*Barbula trifaria*).

DIABELON

squarrosus (Schräd.) Hamp. — See *Dicranella palustris* (Dicks.) Crundw.

DIPHYSCIUM

foliosum (Hedw.) Mohr — Sweden: MÖLLER 1923, p. 63 (*Webera sessilis*). E. Germany, Poland, Czechoslovakia and E. Prussia: SZAFRAN 1948, p. 55, Ryc. 30 (*D. sessile*). Sweden: HÄSSLER 1924a, p. 183 (*Webera sessilis*). USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 304. Czechoslovakia: NOVACKÝ 1956, p. 110 (*B. sessile*). Denmark: KJ. HOLMEN et al. 1959, p. 124, Fig. 24; orig. V. Tommerup Jensen. S. Poland: KUC 1964, p. 56, Ryc. 9. N. Germany: PANKOW & KÜHNER 1967, Tab. 17. Norway: STÖRMER 1969, p. 102, Fig. 50. Europe and W. Asia: STÖRMER 1969, p. 103, Fig. 51. Poland (Silesia): BERDOWSKI 1974, p. 29, Mapa 6 (*D. sessile*).

fulvifolium Mitt. — Asia: IWATSUKI & SHARP 1968a, p. 53, Fig. 2. E. Asia: WANG 1970, p. 401, Fig. 19.

(DIPHYSCIUM contin.)

involutum Mitt. — E. Asia: GANGULEE 1969, p. 62, Map XVI. E. Asia: WANG 1970, p. 401, Fig. 19.

longifolium Griff. — E. Asia: GANGULEE 1969, p. 62, Map XVI.

sessile Lindb. — See *D. foliosum* (Hedw.) Mohr

DISCELIMUM

nudum (Dicks.) Brid. — Czechoslovakia: PILOUS 1961b, p. 283, Karte 3. Japan (Hokkaido): KAN 1969, p. 25. N. America: SCHOFIELD 1972, p. 1126, Fig. 29. The British Isles: WHITEHOUSE et al. 1973, p. 449; orig. J.G. Duckett.

DISSODON

froelichiana (Hedw.) Grev. et Arn. — See *Tayloria froelichiana* (Hedw.) Mitt.

DISTICHIMUM

capillaceum (Hedw.) B.S.G. — Belgium: DEMARET & CASTAGNE 1959, p. 111, Fig. 38. Latvia: ABOLIN 1968, p. 100. World: GANGULEE 1971, p. 215, Map LVI. Hungary, Rumania and adjacent countries: ORBAN 1974, p. 61, Karte 6 (*D. montanum*). Poland (Silesia): BERDOWSKI 1974, p. 29, Mapa 6.

hagenii Ryan — N. America: SCHOFIELD 1972, p. 1127, Fig. 35. NW. Canada (Axel Heiberg Island): KUC 1973b, p. 48, Fig. 16.

inclinatum (Hedw.) B.S.G. — SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 44. Jugoslavia: MARTINCIC 1966, p. 12, Abb. 3 (*Distichum inclinatum*). World: GANGULEE 1971, p. 215, Map LVI. Spitzbergen: KUC 1973a, p. 455, Fig. 15. Hungary, Rumania and adjacent countries: ORBAN 1974, p. 61, Karte 6.

montanum Hag. — See *D. capillaceum* (Hedw.) B.S.G.

DISTICHOPHYLLUM

carinatum Dix. et Nich. — M. Europe (the Alps): GAMS 1928a, p. 70. M. Europe (the Alps): GAMS 1932b, p. 53, Fig. 1. M. Europe (the Alps): FUTSCHIG 1954, p. 17. Europe: FUTSCHIG 1954, p. 18; orig. H. Gams.

DITRICHOPSIS

clausa Broth. — SE. Asia: GANGULEE 1971, p. 211, Map LIV.

(DITRICHOPSIS contin.)

gymnostoma Broth. — SE. Asia: GANGULEE 1971, p. 211, Map LIV.

DITRICHUM

apophysatum Hampe ex Gang. — SE. Asia: GANGULEE 1971, p. 199, Map L.

curritucki Grout — N. And M. America: ANDERSON & BRYAN 1958, p. 135, Fig. 11.

cylindricum (Hedw.) Grout — See *Trichodon cylindricus* (Hedw.) Schimp.

darjeelingense Ren. et Card. — SE. Asia: GANGULEE 1971, p. 199, Map L.

flexicaule (Schwaegr.) Hampe — Netherlands: VERDOORN 1927, p. 5, Fig. 1. Sweden (Nrsk.): WALDHEIM 1935a, p. 135, Fig. 2. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 43. S. Poland: KUC 1964, p. 67, Ryc. 14. Latvia: ABOLIN 1968, p. 100. The British Isles: J.H. DICKSON 1973, p. 82 (f), Fig. 37. Hungary, Rumania and adjacent countries: ORBÁN 1974, p. 45, Karte 1.

var. densum (B.S.G.) Braithw. — See *D. flexicaule* (Schwaegr.) Hampe f. densum (B.S.G.) Mönkem.

f. densum (B.S.G.) Mönkem. — NW. Netherlands (Alkmar reg.): BARKMAN 1941, p. 332, Fig. 3 (*D. flexicaule* var. densum).

henryi Crum et Anderson — N. And M. America: ANDERSON & BRYAN 1958, p. 135, Fig. 11.

heteromallum (Hedw.) Britt. — World: GANGULEE 1971, p. 191, Map XLVIII. Hungary, Rumania and adjacent countries: ORBÁN 1974, p. 49, Karte 2 (*D. homomallum*).

var. emodi Gang. — World: GANGULEE 1971, p. 191, Map XLVIII.

var. zonatum (Brid.) Podp. — Switzerland: J. AMANN 1928, p. 437, Fig. 13 (*D. zonatum*). World: SCHOFIELD & CRUM 1972, p. 188, Map 23 (*D. zonatum*).

homomallum (Hedw.) Hampe — See *D. heteromallum* (Hedw.) Britt.

laxissimum (Mitt.) Kuntze — SE. Asia: GANGULEE 1971, p. 199, Map L.

(DITRICHUM contin.)

lineare (Sw.) Lindb. — W. France: TOUFFET 1969b, p. 53, Fig. 8
(D. vaginans). Hungary, Rumania and adjacent countries: ORBÁN 1974,
p. 51, Karte 3 (D. vaginans).

montanum Leiberg — N. and M. America: ANDERSON & BRYAN 1958, p.
p. 135, Fig. 11.

pallidum (Hedw.) Hampe — N. and M. America: ANDERSON & BRYAN 1958,
p. 135, Fig. 11. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 61, Ryc.2.
Hungary, Rumania and adjacent countries: ORBÁN 1974, p. 49, Karte 2.

pusillum (Hedw.) Hampe — Latvia: ABOLIN 1968, p. 100. World:
GANGULEE 1971, p. 196, Map XLIX (D. pusillum var. pusillum).

var. tortile (Schrader.) Hag. — World: GANGULEE 1971, p. 196,
Map XLIX. Hungary, Rumania and adjacent countries: ORBÁN 1974,
p. 51, Karte 3 (D. tortile).

rufescens (Hampe) Hampe — N. and M. America: ANDERSON & BRYAN
1958, p. 135, Fig. 11.

schimperi (Lesq.) O. Kuntze — N. and M. America: ANDERSON & BRYAN
1958, p. 135, Fig. 11.

tenuifolium (Schrader.) Lindb. — See Trichodon cylindricus (Hedw.)
Schimp.

tortile (Schrader.) Brockm. — See D. pusillum (Hedw.) Hampe var.
tortile (Schrader.) Hag.

tortipes (Mitt.) Kuntze — World: GANGULEE 1971, p. 203, Map LI.

tortuloides Grout — World: GANGULEE 1971, p. 203, Map LI.

vaginans (Sull.) Hampe — See D. lineare (Sw.) Lindb.

zonatum (Brid.) Kindb. — See D. heteromallum (Hedw.) Britt. var.
zonatum (Brid.) Podp.

DOLICHOTHECA

silesiaca (Web. et Mohr) Fleisch. — See Isopterygium seligeri
(Brid.) Dix.

DREPANIUM

cupressiforme (Hedw.) Roth — See Hypnum cupressiforme Hedw.

DREPANOCLADUS

aduncus (Hedw.) Warnst. — Sweden: MÖLLER 1922, p. 76 (*Dichelyma falcatum* var. *amblystegioides*). S. Finland (Nyl., Ekenäs reg.): LUTHER 1951, p. 231, Karte 99. S. Finland (Nyl., Ekenäs reg.): LUTHER 1951, p. 230, Karte 96 (*D. capillifolius*). England (Warwickshire): LAFLIN 1971, p. 725, Map 935. USSR (Moldavia): SIMONOV 1972, p. 47. The British Isles: J.H. DICKSON 1973, p. 141 (f), Fig. 63 (*D. capillifolius*).

var. aduncus — N. America: WYNNE 1944, p. 156, Map 1 (*D. aduncus* var. *typicus*).

var. capillifolius (Warnst.) Grout — N. America: WYNNE 1944, p. 156, Map 1.

var. kneiffii (B.S.G.) Mönkem. — N. America: WYNNE 1944, p. 156, Map 1.

var. typicus (Ren.) Wynne — See *D. aduncus* (Hedw.) Warnst. var. *aduncus*.

badius (Hartm.) Roth — Canada: KUCYNIK 1958a, p. 129, Map 1. Sweden (Vrm.): FRANSSON 1972, p. 112, Map 65. Spitzbergen: KUC 1973a, p. 469, Fig. 72.

brachiatus (Mitt.) Dix. — World: SMIRNOVA 1956b, p. 227.

brevifolius (Lindb.) Warnst. — See *D. lycopodioides* (Brid.) Warnst.

capillifolius (Warnst.) Warnst. — See *D. aduncus* (Hedw.) Warnst.

exannulatus (B.S.G.) Warnst. — Sweden (Vrm.): FRANSSON 1972, p. 112, Map 67 (*D. purpurascens*). NW. Canada (Axel Heiberg Island): KUC 1973b, p. 100, Fig. 36.

var. exannulatus — N. America: WYNNE 1944, p. 163, Map 3 (*D. exannulatus* var. *typicus*).

var. rotae (De Not.) Loeske — See *D. exannulatus* (B.S.G.) Warnst. f. *rotae* (De Not.) Mönkem.

var. typicus Wynne — See *D. exannulatus* (B.S.G.) Warnst. var. *exannulatus*.

f. rotae (De Not.) Mönkem. — N. America: WYNNE 1944, p. 163, Map 3 (*D. exannulatus* var. *rotae*).

(DREPANOCLADUS contin.)

fluitans (Hedw.) Warnst. — England (Warwickshire) LAFLIN 1971, p. 726, Map 936.

var. berggrenii (C. Jens.) C. Jens. — See D. fluitans (Hedw.) Warnst. f. berggrenii (C. Jens.) Mönkem.

var. fluitans — N. America: WYNNE 1944, p. 160, Map 2 (D. fluitans var. typicus).

var. typicus Wynne — See D. fluitans (Hedw.) Warnst. var. fluitans.

f. berggrenii (C. Jens.) Mönkem. — N. America: WYNNE 1944, p. 160; Map 2 (D. fluitans var. berggrenii).

lapponicus (Norrl.) Z. Smirn. — Europe and Asia: SMIRNOVA 1953, p. 414. Finland and W. USSR: RUUHIJÄRVI 1962, p. 224, Abb. 3. Latvia: ABOLIN 1968, p. 246.

latifolius (Lindb. et Arn.) Warnst. — See D. lycopodioides (Brid.) Warnst.

lycopodioides (Brid.) Warnst. — Finland and W. USSR (S of lat. 68°N): TUOMIKOSKI 1939, p. 105, Karte 16. American Arctic, and Greenland: KUCYNIK 1955a, p. 326, Fig. 1 (D. brevifolius). N. Hemisphere: SMIRNOVA 1959, p. 292 (D. latifolius). NE. Poland (Suwalki reg.): MICKIEWICZ, REJMENT GROCHOWSKA & SOBOTKA 1963, p. 260, Fig. 1. Latvia: ABOLIN 1968, p. 246. N. America and Greenland: SCHOFIELD 1972, p. 1119, Fig. 3 (D. brevifolius). Iceland: DIERSSEN 1973, p. 100.

procerus (Ren. et Arn.) Warnst. — Scandinavia, Finland and W. USSR: TUOMIKOSKI 1949, p. 28, Karte 2. Finland (Nyl., Ekenäs reg.): LUTHER 1951, p. 230, Karte 97. Sweden (Vrm.): FRANSSON 1972, p. 112, Map 66.

pseudosarmentosus (Card. et Thér.) Perss. — Alaska: PERSSON & GJAEREVOLL 1957, p. 40, Fig. 2.

purpurascens (Schimp.) Loeske — See D. exannulatus (B.S.G.) Warnst.

revolvens (Sw.) Warnst. — N. America: WYNNE 1944, p. 174, Map 5. USA (Mich.): STOUTAMIRE & BENNINGHOFF 1964, n. 56, Fig. 8. Sweden (Vrm.): FRANSSON 1972, p. 112, Map 68. The British Isles: J.H. DICKSON 1973, p. 139 (f), Fig. 62.

(DREPANOCLADUS contin.)

sendtneri (Schimp.) Warnst. — S. Finland (Nyl., Ekenäs reg.):

LUTHER 1951, p. 230, Karte 95.

trichophyllus (Warnst.) Podp. — Scandinavia, Finland and W. USSR:

TUOMIKOSKI 1949, p. 36, Karte 3. S. Finland (Nyl., Ekenäs reg.):

LUTHER 1951, p. 230, Karte 98.

tundrae (Arn.) Loeske — Scandinavia, Finland and W. USSR:

TUOMIKOSKI 1949, p. 18, Karte 1. S. Finland (Nyl., Ekenäs reg.):

LUTHER 1951, p. 229, Karte 94.

uncinatus (Hedw.) Warnst. — World: IRMSCHER 1929, Fig. 30, Taf. 23.

NW. Netherlands (Alkmar reg.): BARKMAN 1941, p. 336, Fig. 8. World:

MEUSEL 1943, Karte 2b. World: SCHOFIELD & CRUM 1972, p. 187, Map 21.

World: SCHOFIELD 1974, p. 21, Map 13. Sweden (Vrm.) FRANSSON 1972, p. 112, Map 69.

- var. subjulaceus (B.S.G.) Warnst. — N. America: WYNNE 1944, p. 169, Map 4.

var. symmetricus (Ren. et Card.) Grout — N. America: WYNNE 1944, p. 169, Map 4.

var. typicus Wynne — See D. uncinatus (Hedw.) Warnst. var. uncinatus.

var. uncinatus — N. America: WYNNE 1944, p. 169, Map 4 (D. uncinatus var. typicus).

DREPANOPHYLLUM

falcifolium (Schwaegr.) Wijk et Marg. — M. America and S. America

(N of lat. 5°S): CROSBY 1971, p. 347, Fig. 1 (Phyllodrepanium falcifolium).

DRUMMONDIA

prorepens (Hedw.) Britt. — E. Asia and N. America: IWATSUKI 1958,

p. 342, Fig. 5. Japan: IWATSUKI 1972b, p. 115, Fig. 5. World:

IWATSUKI 1972b, p. 115, Fig. 5. World: SCHOFIELD & CRUM 1972, p. 181, Map 3.

sinensis C. Müll. — Europe and Asia: VITT 1972, p. 1206, Fig. 35.

thomsonii Mitt. — Europe and Asia: VITT 1972, p. 1206, Fig. 35.

turkestanica Borth. — Europe and Asia: VITT 1972, p. 1206, Fig. 35.

DUTHIELLA

declinata (Mitt.) Zant. — E. Asia, Australia and Oceania: ZANTEN 1959, p. 558, Pl. X, Map 2.

flaccida (Card.) Broth. — E. Asia, Australia and Oceania: ZANTEN 1959, p. 571, Pl. XII, Map 2. Asia: CROIZAT 1967, p. 788, Fig. 4.

var. media (Nog.) Zant. — E. Asia, Australia and Oceania: ZANTEN 1959, p. 571, Pl. XII, Map 3.

var. rigida (Broth.) Zant. — E. Asia, Australia and Oceania: ZANTEN 1959, p. 571, Pl. XII, Map 3.

formosana Nog. — E. Asia, Australia and Oceania: ZANTEN 1959, p. 571, Pl. XII, Map 1.

myuriiformis Sak. — E. Asia, Australia and Oceania: ZANTEN 1959, p. 558, Pl. X, Map 1.

robusta Nog. — E. Asia, Australia and Oceania: ZANTEN 1959, p. 558, Pl. X, Map 2.

speciosissima Broth. ex Card. — E. Asia: HORIKAWA 1955a, p. 144, Map 52. E. Asia, Australia and Oceania: ZANTEN 1959, p. 571, Pl. XII, Map 1.

wallichii (Mitt.) C. Müll. — E. Asia, Australia and Oceania: ZANTEN 1959, p. 558, Pl. X, Map 1.

ECTROPOTHECIUM

dealbatum (Reinw. et Hornsch.) Jaeg. — SE. Asia, Australia and Micronesia: MILLER, WHITTIER & BONNER 1963, Pl. 27.

longicollum Broth. et Geh. — World: ANDO 1972, p. 87, Fig. 13 (Hypnum longicolum).

mac-gregorii Broth. et Geh. — World: ANDO 1972, p. 87, Fig. 13 (Hypnum mac-gregori).

ENCALYPTA

affinis Hedw. f. — See E. alpina Sm.

alpina Sm. — N. Sweden, N. Norway, Finland and W. USSR: KOTILAINEN 1929, Karte 3 (E. affinis). Finland (Kuusamo): TUOMIKOSKI 1939, p. 112, Karte 18. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 50. The British Isles: WHITEHOUSE et al. 1969, p. 837; orig. Hillery H. Birks. Spitzbergen: KUC 1973a, p. 458, Fig. 25.

(ENCALYPTA contin.)

brevicollis (B.S.G.) Ångstr. — N. America and Greenland: CRUM 1963, p. 39, Fig. 1. NW. Canada: KUC 1973b, p. 56, Fig. 19. NW. Canada (Axel Heiberg Island): KUC 1973b, p. 53, Fig. 18. N. Canada: KUC 1973b, p. 56, Fig. 19. N. America and Greenland: PACKER & VIIT 1974, p. 1399, Fig. 4.

ciliata Hedw. — E. Germany, Poland and Czechoslovakia: SZAFRAN 1948, p. 49, Ryc. 26. Japan, Formosa, Corea and Manchuria: HORIKAWA 1951, p. 18, Map 3. Poland (Jurassic Mountain Range): SZAFRAN 1955, p. 220, Ryc. 95. Latvia: ABOLIN 1968, p. 122.

contorta Hopp. ex Lindb. — See E. streptocarpa Hedw.

longicollis Bruch — World: PERSSON & GJAEREVOLL 1957, p. 43, Fig. 3. N. America: CRUM 1963, p. 42, Fig. 2.

procera Bruch — Finland (Kuusamo): TUOMIKOSKI 1939, p. 114, Karte 22, SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 51. Spitzbergen: KUC 1973a, p. 458, Fig. 26.

rhabdocarpa Schwaegr. — Denmark: KJ. HOLMEN et al. 1959, p. 126, Fig. 34; orig. Kamma Holmen. Poland: KUC 1964, p. 58, Ryc. 10. The British Isles: WHITEHOUSE et al. 1970, p. 150; orig. A.C. Crundwell et A. McG. Stirling.

streptocarpa Hedw. — Sweden (Nr.): WALDHEIM 1935a, p. 136, Fig. 3 (E. contorta). E. Germany, Poland and Czechoslovakia: SZAFRAN 1948, p. 49, Ryc. 26 (E. contorta). Denmark: KJ. HOLMEN et al. 1959, p. 126, Fig. 35; orig. Kamma Holmen. Sweden (Stockholm reg.): KRUSENSTJERNA 1964, p. 14, Fig. 3. Latvia: ABOLIN 1968, p. 122. Sweden (Sm.): NICKLASSON 1972, p. 402, Fig. 15B. USSR (Moldavia): SIMONOV 1972, p. 31. Germany (Schlesw.-Holst.): FRAHM & WALSEMANN 1973, p. 73.

vulgaris Hedw. — Sweden (Sk.): WALDHEIM 1947, p. 172, Fig. 29. E. Germany, Poland and Czechoslovakia: SZAFRAN 1948, p. 49, Ryc. 26. Denmark: KJ. HOLMEN et al. 1959, p. 127, Fig. 36; orig. Kamma Holmen. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 52. Latvia: ABOLIN 1968, p. 122. USSR (Moldavia): SIMONOV 1972, p. 31. Germany (Schlesw.-Holst.): FRAHM & WALSEMANN 1973, p. 71.

ENDOTRICHELLA

fauriei (Broth. et Par.) Broth. — Japan: NOGUCHI 1951, p. 16, Map 58.

ENTODON

angustifolius (Mitt.) Jaeg. — E. Asia: MIZUSHIMA 1960, p. 146, Map 4. SE. Asia: WANG 1970, p. 408, Fig. 33.

brevisetus (Hook. et Wils.) Lindb. — E. Asia and N. America: MIZUSHIMA 1960, p. 148, Map 7. N. Hemisphere: IWATSUKI & SHARP 1967, p. 168, Map f. N. Hemisphere: IWATSUKI & SHARP 1967, p. 168, Map f (*E. calycinus*).

calycinus Card. — See *E. brevisetus* (Hook. et Wils.) Lindb.

cladorrhizans (Hedw.) C. Müll. — E. Asia and N. America: MIZUSHIMA 1960, p. 148, Map 7 (*E. compressus*). Alaska and Yukon: STEERE 1975a, p. 335, Fig. 1.

compressus (Hedw.) C. Müll. — See *E. cladorrhizans* (Hedw.) C. Müll.

conchophyllus Card. — E. Asia: MIZUSHIMA 1960, p. 147, Map 5.

concinus (De Not.) Par. — Sweden (Upl.): KRUSENSTJERNA 1945, p. 135, Karta 1 (*E. orthocarpus*). Scandinavia: KRUSENSTJERNA 1945, p. 176, Karta 9 (*E. orthocarpus*). N. Hemisphere: MIZUSHIMA 1960, p. 145, Map 2. Czechoslovakia: POSPISIL 1968, Abb. 2 (*E. orthocarpus*). Alaska and Yukon: STEERE 1975a, p. 335, Fig. 1.

ssp. caliginosus (Mitt.) Miz. var. caliginosus — N. Hemisphere: MIZUSHIMA 1960, p. 145, Map 2.

ssp. caliginosus (Mitt.) Miz. var. fauriei (Broth. et Par.) Miz. — N. Hemisphere: MIZUSHIMA 1960, p. 145, Map 2.

diversinervis Card. — E. Asia: MIZUSHIMA 1960, p. 146, Map 4.

drummondii (Sull.) Jaeg. — See *E. macropodus* (Hedw.) C. Müll.

flavescens (Hook.) Jaeg. — E. Asia: MIZUSHIMA 1960, p. 147, Map 6. SE. Asia: WANG 1970, p. 400, Fig. 16 (*E. rubicundus*).

giraldii C. Müll. — E. Asia: MIZUSHIMA 1960, p. 146, Map 3.

macropodus (Hedw.) C. Müll. — N. and M. America: SHARP 1939, p. 339, Fig. 24 (*E. drummondii*). N. and M. America: SHARP 1939, p. 339, Fig. 24. E. Asia, N. and S. America: IWATSUKI 1958, p. 342, Fig. 4. N. Hemisphere: IWATSUKI & SHARP 1967, p. 168, Map e.

obtusatus Broth. — E. Asia: MIZUSHIMA 1960, p. 147, Map 6. SE. Asia: WANG 1970, p. 410, Fig. 37.

(ENTODON contin.)

okamurae Broth. — E. Asia: MIZUSHIMA 1960, p. 146, Map 3.

orthocarpus (Brid.) Lindb. — See *E. concinnus* (De Not.) Par.

rubicundus (Mitt.) Jaeg. — See *E. flavescens* (Hook.) Jaeg.

scabridens Lindb. — E. Asia: MIZUSHIMA 1960, p. 147, Map 5.

schreberi (Brid.) Mönkem. — See *Pleurozium schreberi* (Brid.) Mitt.

sullivantii (C. Müll.) Lindb. — E. Asia and N. America: MIZUSHIMA 1960, p. 148, Map 7.

var. attenuatus (Mitt.) Miz. — See *E. sullivantii* (C. Müll.) Lindb. var. versicolor (Besch.) Miz.

var. versicolor (Besch.) Miz. — E. Asia: MIZUSHIMA 1960, p. 148, Map 7 (*E. sullivantii* var. attenuatus).

ENTOSTHODON

buseanus Doz. et Molk. — See *Funaria buseana* (Doz. et Molk.) Broth.

curvisetus (Schwaegr.) C. Müll. — See *Funaria curviseta* (Schwaegr.) Mild.

fascicularis (Hedw.) C. Müll. — See *Funaria fascicularis* (Hedw.) Lindb.

nutans Mitt. — See *Funaria nutans* (Mitt.) Broth.

obtusus (Hedw.) Lindb. — See *Funaria obtusa* (Hedw.) Lindb.

ssp. obtusus Giac. — See *Funaria obtusa* (Hedw.) Lindb. var. obtusus.

physcomitrioides (Mont.) Mitt. — See *Funaria physcomitrioides* Mont.

wallichii Mitt. — See *Funaria wallichii* (Mitt.) Broth.

wichurae Fleisch. — See *Funaria wichurae* (Fleisch.) Broth.

EPHEMEROPSIS

tjibodensis Goeb. — E. Asia: MEIJER 1972, p. 553.

EPHEMERUM

recurvifolium (Dicks.) Boul. — Iberia and N. Africa: ACUNA et al. 1975, p. 87, Mapa 5. SE. Spain: ACUNA et al. 1975, p. 87, Mapa 5.

(EPHEMERUM contin.)

serratum (Hedw.) Hampe — Poland (Warszawa reg.): REJMENT-GROCHOWSKA 1959, p. 282, Fig. 1. Czechoslovakia: POSPISIL 1960, fold. map. England (Warwickshire): LAFLIN 1971, p. 715, Map 894. World: SCHOFIELD 1974, p. 14, Map 1. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 61, Ryc. 2.

EPIPTERYGIUM

tozeri (Grev.) Lindb. — Europe: GIACOMINI 1951, p. 102, Carta 8. N. Italy and Sardinia: GIACOMINI 1951, p. 102, Carta 9. Japan and Formosa: OCHI 1959, p. 114, Map 8 (*Pohlia tozeri*). World: GANGULEE 1974, p. 899, Map CCLXXVII.

ERPODIUM

domingense (Spreng.) Brid. ex C. Müll. — USA and M. America: PURSELL & REESE 1970, p. 151, Fig. 7.

pringlei Britt. — El Salvador: WINKLER 1964-65, p. 508, Abb. 2.

ERYTHRODONTIUM

julaceum (Schwaegr.) Par. — SE. Asia: WANG 1970, p. 409, Fig. 34.

ERYTHROPHYLLUM

rubellum (Hoffm.) Loeske — See *Bryoerythrophyllum recurvirostre* (Hedw.) Chen

EUCLADIUM

verticillatum (Brid.) B.S.G. — N. and M. America: SHARP 1939, p. 343, Fig. 33. S. Poland (W. Carpathians): LISOWSKI & KORNAŚ 1966, p. 68, Fig. 9. Latvia: ABOLIN 1968, p. 122. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 61, Ryc. 2.

EURHYNCHIUM

angustirete (Broth.) Kop. — See *E. striatum* (Hedw.) Schimp. ssp. *zetterstedtii* (Störm.) Podp.

arbuscula Broth. — Japan: TAKAKI 1956, p. 61, Map 1B.

confertum (Dicks.) Milde — See *Rhynchostegium confertum* (Dicks.) B.S.G.

eustegium (Besch.) Dix. — Japan: TAKAKI 1956, p. 62, Map 2.

hians (Hedw.) Lac. — See *Oxyrrhynchium hians* (Hedw.) Loeske

(EURHYNCHIUM contin.)

murale (Hedw.) Milde — See Rhynchostegium murale (Hedw.) B.S.G.

praelongum (Hedw.) B.S.G. — See Oxyrrhynchium praelongum (Hedw.) Warnst.

pulchellum (Hedw.) Jenn. — N. Canada: KUC 1969a, p. 638, Fig. 2. USSR (Moldavia): SIMONOV 1972, p. 59.

var. diversifolium (B.S.G.) C. Jens. — NW. Canada (Axel Heiberg Island): KUC 1973b, p. 106, Fig. 38.

pumilum (Wils.) Schimp. — See Rhynchostegiella pumila (Wils.) Warb.

riparioides (Hedw.) Richs. — See Platyhypnidium riparioides (Hedw.) Dix.

schleicheri (Hedw.f.) Jur. — See Oxyrrhynchium schleicheri (Hedw.f.) Röhl.

speciosum (Brid.) Jur. — See Oxyrrhynchium speciosum (Brid.) Warnst.

striatulum (Spruce) B.S.G. — See Plasteurhynchium striatulum (Spruce) Fleisch.

striatum (Hedw.) Schimp. — Norway (S of lat. 66°N): STÖRMER 1942, p. 88, Fig. 3. Sweden (S. half): PERSSON 1943, p. 167, Fig. 2a. Denmark: KØIE 1947, p. 221. Europe: SMARDA 1948, p. 51. Europe: LISOWSKI 1956, Fig. 4. Poland: KUC 1964, p. 175, Ryc. 40. Norden and W. USSR: KOPONEN 1964, p. 252, Fig. 2. Norway (S of lat. 67°N): STÖRMER 1969, p. 184, Fig. 122. Europe and W. Asia: STÖRMER 1969, p. 184, Fig. 123. England (Warwickshire): LAFLIN 1971, p. 730, Map 954.

ssp. zetterstedtii (Störm.) Podp. — Norway (S of lat. 66°N): STÖRMER 1942, p. 89, Fig. 4 (E. zetterstedtii). Sweden (S. half): H. PERSSON 1943, p. 167, Fig. 2b (E. zetterstedtii). Denmark: KØIE 1947, p. 221 (E. zetterstedtii). Europe: SMARDA 1948, p. 51 (E. zetterstedtii). Europe: LISOWSKI 1956, Fig. 4 (E. zetterstedtii). S. Europe: GROM 1962, p. 75 (E. zetterstedtii). Finland (Helsingfors reg.): KOPONEN 1963, p. 148 (E. zetterstedtii). Norden and W. USSR: KOPONEN 1964, p. 251, Fig. 1 (E. zetterstedtii). Europe: MARTINCIC

(EURHYNCHIUM contin.)

1966, p. 42, Abb. 20. N. Hemisphere (E. part): KOPONEN 1967, p. 56, Fig. 13 (E. angustirete). World: BARDUNOV 1974, p. 98 (E. angustirete).

var. magnusii Wint. — See E. striatum (Hedw.) Schimp. f. magnusii (Wint.) Podp.

f. magnusii (Wint.) Podp. — N. Germany: PANKOW & KÜHNER 1967, Tab. 29 (E. striatum var. magnusii).

swartzii (Turn.) Curnow — See Oxyrrhynchium swartzii (Turn.) Warnst.

var. atrovirens (Brid.) Dix. — See Oxyrrhynchium swartzii (Turn.) Warnst.

vagans (Jaeg.) Bartr. — Asia, Australia and New Zealand: WANG 1970, p. 405, Fig. 27 (Rhynchostegium vagans).

zetterstedtii Störm. — See E. striatum (Hedw.) Schimp. ssp. zetterstedtii (Störm.) Podp.

EXODICTYON

blumei (Hamp.) Fleisch. — SE. Asia: GANGULEE 1971, p. 446, Map CXL.

EXODOKIDIUM

subsymmetricum (Card.) Card. — S. Georgia: NEWTON 1974, p. 65, Fig. 5 (Bartramia subsymmetrica).

FABRONIA

ciliaris (Brid.) Brid. — Europe (S of lat. 54°N): J. AMANN 1928, p. 307, Fig. 5 (F. octoblepharis). N. Italy: GIACOMINI 1951, p. 107, Carta 12 (F. octoblepharis).

octoblepharis Schwaegr. — See F. ciliaris (Brid.) Brid.

pusilla Raddi — Switzerland: J. AMANN 1928, p. 431, Fig. 10.

N. Italy: GIACOMINI 1951, p. 101, Carta 7. Slovakia: PILOUS 1957b, Obr. 1. Yugoslavia: MARTINCIC 1966, p. 63, Abb. 38.

FAURIELLA

tenuis (Mitt.) Card. — Asia: IWATSUKI & SHARP 1968a, p. 53, Fig. 2.

FISSIDENS

acutus Jaeg. — Japan (Honshu): IWATSUKI & MAGOFUKU 1969, p. 23.

adianthoides Hedw. — Denmark: KJ. HOLMEN et al. 1959, p. 23, Fig. 25, orig. G. Skovgaard Christensen. Netherlands: JOUSTRA 1959, p. 15.

(FISSIDENS contin.)

algarvicus Solms — Europe: VAJDA 1956, p. 301, Fig. 2. The British Isles: WHITEHOUSE et al. 1972, p. 89; orig. A.J.E. Smith.

allanii Gang. — SE. Asia: GANGULEE 1971, p. 486, Map CXLVIII.

angustifolius Sull. — USA and M. America: PURSELL & REESE 1970, p. 151, Fig. 8.

anomalus Mont. — World: GANGULEE 1971, p. 555, Map CLXIV.

arcticus Bryhn — Greenland and N. America: BRASSARD 1971, p. 268, Fig. 23. N. Canada and Greenland: STEERE & BRASSARD 1974, p. 199, Fig. 9.

areolatus Griff. — SE. Asia: GANGULEE 1971, p. 558, Map CLXV.

arnoldii Ruth. — Latvia: ABOLIN 1968, p. 95.

asperisetus Lac. — See *F. hollianus* Doz. et Molk. var. *asperisetus* (Lac.) Fleisch.

asplenioides Hedw. — USA: PURSELL 1972, p. 87, Fig. 1.

biformis Mitt. — See *F. zollingeri* Mont.

bilaspurense Gang. — SE. Asia: GANGULEE 1971, p. 490, Map CXLIX.

bryoides Hedw. — Netherlands: JOUSTRA 1959, p. 23. Denmark: KJ. HOLMEN et al. 1959, p. 125, Fig. 29; orig. G. Skovgaard Christensen. Latvia: ABOLIN 1968, p. 93. England (Warwickshire): LAFLIN 1971, p. 701, Map 838. World: GANGULEE 1971, p. 468, Map CXLIV. USSR (Moldavia): SIMONOV 1972, p. 21.

ssp. incurvus (Röhl.) Bertsch — Netherlands: JOUSTRA 1959, p. 25 (*F. incurvus*). England (Warwickshire): LAFLIN 1971, p. 701, Map 839 (*F. incurvus*).

ssp. viridulus (Sw.) Kindb. — Denmark: KJ. HOLMEN et al. 1959, p. 125, Fig. 30; orig. G. Skovgaard Christensen (*F. viridulus*). Yugoslavia: MARTINCIC 1966, p. 62, Abb. 36 (*F. intralimbatus*). The British Isles: SMITH 1970, p. 65, Fig. 8 (*F. viridulus*). The British Isles: A.J.E. SMITH 1970, p. 66, Fig. 9 (*F. viridulus* var. *tenuifolius*). England (Warwickshire): LAFLIN 1971, p. 701, Map 836 (*F. viridulus*). World: GANGULEE 1971, p. 465, Map CXLIII (*F. viridulus*). USSR (Moldavia): SIMONOV 1972, p. 21. (*F. viridulus*).

(FISSIDENS contin.)

var. gymnandrus (Buse) Ruthe — Netherlands: JOUSTRA 1959, p. 23.
NW. Germany (Heuckenlock): FRAHM 1971, p. 8, Abb. 4.

celticus Paton — The British Isles: PATON 1965, p. 783, Fig. 2.

ceylonensis Doz. et Molk. — SE. Asia: GANGULEE 1971, p. 512,
MAP CLIV.

ssp. simplex Fleisch. — SE. Asia: GANGULEE 1971, p. 505, Map CLIII
(F. crenulatus).

crassipes B.S.G. — Poland (Upper Wislok): WACLAWSKA 1957, p. 98,
Fig. 2. Netherlands: JOUSTRA 1959, p. 21. S. Poland (W. Carpathians):
SZAFRAN 1965, p. 606, Fig. 1. Latvia: ABOLIN 1968, p. 93.
NW. Germany (Heuckenlock): FRAHM 1971, p. 9, Abb. 5. England (War-
wickshire): LAFLIN 1971, p. 702, Map 840. The British Isles: WHITE-
HOUSE et al. 1972, p. 90; orig. A.J.E. Smith. Netherlands: FLOR-
SCHÜTZ, GRADSTEIN & RUBERS 1972, p. 175.

crenulatus Mitt. — See F. ceylonensis Doz. et Molk. ssp. simplex
Fleisch.

cristatus Mitt. — Denmark: KJ. HOLMEN et al. 1959, p. 124, Fig. 26;
orig. G. Skovgaard Christensen. Netherlands: JOUSTRA 1959, p. 14.
Asia: IWATSUKI & SHARP 1968a, p. 51, Fig. 1. Latvia: ABOLIN 1968,
p. 95. Norway: STÖRMER 1969, p. 60, Fig. 20. Europe, N. Africa and
W. Asia: STÖRMER 1969, p. 61, Fig. 21. England (Warwickshire):
LAFLIN 1971, p. 702, Map 843. World: GANGULEE 1971, p. 555,
Map CLXIV. USSR (Moldavia): SIMONOV 1972, p. 21.

var. mucronatus (Limpr.) Waldh. — Netherlands: JOUSTRA 1959, p. 14.
Czechoslovakia: POSPISIL 1971-72, Abb. 1.

curvatoxiphioides Dix. et P. Vard. — SE. Asia: GANGULEE 1971,
p. 478, Map CXLVI.

diversifolius Mitt. — SE. Asia: GANGULEE 1971, p. 493, Map CL.

elongatus Mitt. — SE. Asia: GANGULEE 1971, p. 562, Map CLXVI.

exiguus Sull. — The British Isles: WHITEHOUSE et al. 1972, p. 93;
orig. A.J.E. Smith.

exilis Hedw. — Netherlands: JOUSTRA 1959, p. 21. Denmark: KJ.
HOLMEN et al. 1959, p. 126, Fig. 33; orig. G. Skovgaard Christensen.

(FISSIDENS contin.)

Czechoslovakia: POSPISIL 1963, p. 125, Abb. 3. England (Warwickshire): LAFLIN 1971, p. 702, Map 841. USSR (Moldavia): SIMONOV 1972, p. 21. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 64, Ryc. 5.

fontanus (Pyl.) Steud. — Switzerland: J. AMANN 1928, p. 433, Fig. 11 (*Octodiceras julianum*). S. Finland (Nyl., Ekenäs reg.): LUTHER 1951, p. 229, Karte 91 (*F. julianus*). N. Europe: LOHAMMAR 1954, p. 163, Fig. 1 (*F. julianus*). Scandinavia, Finland and W. USSR: KOTILAINEN & SALONEN 1954, p. 40, Abb. 1 (*F. julianus*). The British Isles: WHITEHOUSE et al. 1963, p. 522; orig. A.J.E. Smith (*Octodiceras fontanum*). M. and SE. Europe: STEFUREAC 1963, p. 236, Pl. 5 (*Octodiceras julianum*). Latvia: ABOLIN 1968, p. 95 (*Octodiceras fontanum*). SW. Germany: DÜLL 1969, p. 294, Taf. 4a (*Octodiceras julianum*). Germany (S. Oberpfalz): NEUMAYR 1975b, p. 41, Abb. 1 (*Octodiceras julianum*). S. Germany: NEUMAYR 1975b, p. 44, Abb. 2 (*Octodiceras julianum*).

ganguleei Norkett — SE. Asia: GANGULEE 1971, p. 527, Map CLVIII. (species not listed in Index Muscorum)

grandifrons Brid. — M. Europe (the Alps): GAMS 1925, p. 23, Fig. 9. M. Europe: TROLL & GAMS 1926, p. 143, Karte 6 (*Pachyfissidens grandifrons*). M. Europe (the Alps): GAMS 1927, p. 181, Abb. 2. Europe and N. Africa: J. AMANN 1928, p. 303, Fig. 3. Switzerland: J. AMANN 1928, p. 435, Fig. 12. Germany (Upper Rhein reg.): PHILIPPI 1968, p. 67, Abb. 2 (*Pachyfissidens grandifrons*). World: GANGULEE 1971, p. 565, Map CLXVII.

griffithii Gang. — SE. Asia: GANGULEE 1971, p. 519, Map CLVI. (species not listed in Index Muscorum)

hollianus Doz. et Molk. var. asperisetus (Lac.) Fleisch. — SE. Asia: GANGULEE 1971, p. 505, Map CLIII (*F. asperisetus*).

hyalinus Hook. et Wils. — Japan: IWATSUKI 1972b, p. 116, Fig. 6. World: IWATSUKI 1972b, p. 116, Fig. 6.

incognitus Gang. — SE. Asia: GANGULEE 1971, p. 502, Map CLII. (species not listed in Index Muscorum).

incurvus Stark ex Röhl. — See *F. bryoides* Hedw. ssp. *incurvus* (Röhl.) Bertsch

(FISSIDENS contin.)

intralimbatus Ruth. — See *F. bryoides* Hedw. ssp. *viridulus* (Sw.) Kindb.

intromarginatulus Bartr. — SE. Asia: GANGULEE 1971, p. 512, Map CLXII.

involutus Wils. ex Mitt. — World: GANGULEE 1971, p. 546, Map CLXII.

javanicus Doz. et Molk. — World: GANGULEE 1971, p. 542, Map CLXI.

julianus (Cand.) Schimp. — See *F. fontanus* (Pyl.) Steud.

jungermannioides Griff. — SE. Asia: GANGULEE 1971, p. 551, Map CLXIII.

kalimpongensis Gang. — SE. Asia: GANGULEE 1971, p. 519, Map CLVI.

kegelianus C. Müll. — USA, M. America and Venezuela: PURSELL & REESE 1970, p. 148, Fig. 2.

kosaninii Latz. — Yugoslavia: MARTINCIC 1966, p. 70, Abb. 43.

kurzii C. Müll. — SE. Asia: GANGULEE 1971, p. 516, Map CLV.

laxitextus Broth. — SE. Asia: GANGULEE 1971, p. 530, Map CLIX.

leptopelma Dix. — SE. Asia: GANGULEE 1971, p. 533, Map CLX.

longisetus Griff. — SE. Asia: GANGULEE 1971, p. 474, Map CXLV.

manateensis Grout — USA and M. America: PURSELL & REESE 1970, p. 150, Fig. 6.

minutulus Sull. — Denmark: KJ. HOLMEN et al. 1959, p. 126, Fig. 32; orig. G. Skovgaard Christensen. Belgium: LAMBINON 1968, p. 8, Fig. 3 (ssp. *minutulus*). Belgium: LAMBINON 1968, p. 8, Fig. 3 (*F. minutulus* ssp. *tenuifolius*). England (Warwickshire): LAFLIN 1971, p. 701, Map 837 (*F. minutulus* var. *tenuifolius*). USSR (Moldavia): SIMONOV 1972, p. 21.

ssp. pusillus (Wils.) Wijk et Marg. — Netherlands: JOUSTRA 1959, p. 19 (*F. pusillus*). Denmark: KJ. HOLMEN et al. 1959, p. 125, Fig. 31; orig. G. Skovgaard Christensen (*F. pusillus*). S. Poland: KUC 1964, p. 64, Ryc. 13 (*F. pusillus*). Latvia: ABOLIN 1968, p. 93 (*F. pusillus*).

ssp. tenuifolius (Boulay) Lambinon — See *F. minutulus* Sull.

(FISSIDENS contin.)

var. tenuifolius (Boul.) Norkett — See *F. minutulus* Sull.

minutus Thwait. et Mitt. — SE. Asia: GANGULEE 1971, p. 516, Map CLV.

mittenii Par. — Europe, Africa, Asia and Australia: WANG 1970, p. 411, Fig. 39. SE. Asia: GANGULEE 1971, p. 530, Map CLIX.

monguillonii Thér. — See *F. rivularis* (Spruce) B.S.G. var. *monguillonii* (Thér.) Podp.

nobilis Griff. — SE. Asia: GANGULEE 1971, p. 551, Map CLXIII.

nossianus Besch. — Madagascar: JOVET-AST 1948, p. 49, Fig. 3.

nymanii Fleisch. — SE. Asia: GANGULEE 1971, p. 462, Map CXLII.

obscurus Mitt. — SE. Asia: GANGULEE 1971, p. 558, Map CLXV.

obtusifolius Wils. — NW. Germany (Heuckenlock): FRAHM 1971, p. 9, Abb. 6.

orishae Gang. — SE. Asia: GANGULEE 1971, p. 498, Map CLI.

osmundoides Hedw. — Netherlands: JOUSTRA 1959, p. 17. Denmark: KJ. HOLMEN et al. 1959, p. 125, Fig. 28; orig. G. Skovgaard Christensen. S. Poland (W. Carpathians): LISOWSKI & KORNAŚ 1966, p. 67, Fig. 8. W. France: TOUFFET 1969b, p. 55, Fig. 11. Spitzbergen: KUC 1973a, p. 455, Fig. 14. NW. Canada (Axel Heiberg Island): KUC 1973b, p. 36, Fig. 11. N. Canada: KUC 1973b, p. 45, Fig. 15. Canada: KUC 1974, p. 550, Fig. 4A.

pellucidus Hornsch. — USA (Fla.) and M. America: SCHORNHERST 1943, p. 521, Map 5 (*F. subcrenatus*).

plagiochiloides Besch. — SE. Asia: GANGULEE 1971, p. 562, Map CLXVI.

polyphyllus B.S.G. — Europe (S of lat. 60°N): ALLORGE 1932a, Karte 43b. W. Europe (S of lat. 59°N): P. ALLORGE 1947, p. 55, Fig. 2. The British Isles: WHITEHOUSE et al. 1965, p. 887; orig. M.C.F. Proctor. W. France: TOUFFET 1969b, p. 61, Fig. 24. Norway (S of lat. 66°N): STÖRMER 1969, p. 245, Fig. 183. Europe: STÖRMER 1969, p. 246, Fig. 184.

polypodioides Hedw. — USA (E. part) and M. America: SHARP 1939, p. 340, Fig. 27.

(FISSIDENS contin.)

polysetulus C. Müll. ex Gang. et Nork. — SE. Asia: GANGULEE 1971, p. 527, Map CLVIII.

pulchellus Mitt. — SE. Asia: GANGULEE 1971, p. 523, Map CLVII.

rambii Gang. — SE. Asia: GANGULEE 1971, p. 474, Map CXLV.

pusillus (Wils.) Milde — See *F. minutulus* Sull. ssp. *pusillus* (Wils.) Wijk et Marg.

ranchiensis Gang. — SE. Asia: GANGULEE 1971, p. 493, Map CL.

ranuii Gang. — SE. Asia: GANGULEE 1971, p. 490, Map CXLIX.

rigidiusculus Broth. ex Gang. — SE. Asia: GANGULEE 1971, p. 486, Map CXLVIII.

rivularis (Spruce) B.S.G. — Europe and N. Africa: J. AMANN 1928, p. 303, Fig. 3. The British Isles: WHITEHOUSE et al. 1972, p. 92; orig. A.J.E. Smith.

var. monguillonii (Thér.) Podp. — The British Isles: WHITEHOUSE et al. 1972, p. 93; orig. A.J.E. Smith (*F. monguillonii*).

robinsonii Broth. — SE. Asia: GANGULEE 1971, p. 533, Map CLX.

rufulus B.S.G. — N. America (W. part): IRELAND & SCHOFIELD 1967, p. 260, Fig. 1 (*F. ventricosus*). The British Isles: WHITEHOUSE et al. 1972, p. 91; orig. A.J.E. Smith.

semperfalcatus Dix. — SE. Asia: GANGULEE 1971, p. 502, Map CLII.

serrulatus Brid. — Europe (S of lat. 60°N) and N. Africa: ALLORGE 1932a, Karte 43a. Europe (S of lat. 60°N), N. Africa and Macaronesia: P. ALLORGE 1947, p. 99, Fig. 10. The British Isles: WHITEHOUSE et al. 1965, p. 886; orig. M.C.F. Proctor.

splachnobryoides Broth. — SE. Asia: GANGULEE 1971, p. 462, Map CXLII.

steerei Grout — USA and M. America: PURSELL & REESE 1970, p. 150, Fig. 6.

subbryoides Gang. — World: GANGULEE 1971, p. 468, Map CXLIV.

subpalmatum C. Müll. — World: GANGULEE 1971, p. 465, Map CXLIII.

subcrenatum Schimp. — See *F. pellucidus* Hornsch.

subpulchellus Gang. — SE. Asia: GANGULEE 1971, p. 523, Map CLVII.

(FISSIDENS contin.)

svihlae Bartr. — El Salvador: WINKLER 1964-65, p. 508, Abb. 2.

sylvaticus Griff. — World: GANGULEE 1971, p. 542, Map CLXI.

taxifolius Hedw. — Netherlands: JOUSTRA 1959, p. 12. Denmark:

KJ. HOLMEN et al. 1959, p. 124, Fig. 27; orig. G. Skovgaard

Christensen. England (Warwickshire): LAFLIN 1971, p. 702, Map 842.

World: GANGULEE 1971, p. 546, Map CLXII. USSR (Moldavia): SIMONOV

1972, p. 21. Czechoslovakia: POSPISIL 1973, Abb. 1.

ventricosus Lesq. — See *F. rufulus* B.S.G.

virens Thwait. et Mitt. — SE. Asia: GANGULEE 1971, p. 498, Map CLI.

viridulus (Sw.) Wahlenb. — See *F. bryoides* Hedw. ssp. *viridulus* (Sw.) Kindb.

var. tenuifolius (Boul.) A.J.E. Smith — See *F. bryoides* Hedw. ssp. *viridulus* (Sw.) Kindb.

xiphioides Fleisch. — SE. Asia: GANGULEE 1971, p. 483, Map CXLVII.

zollingeri Mont. — SE. Asia: GANGULEE 1971, p. 478, Map CXLVI.

SE. Asia: GANGULEE 1971, p. 483, Map CXLVII (*F. biformis*).

FLEISCHEROBRYUM

eurybrochis (Ren. et Card.) Fleisch. — World: GANGULEE 1974, p. 1098, Map CCCXXVII.

longicolle (Hampe) Loeske — Japan and Formosa: OCHI 1963, Pl. 24.

World: GANGULEE 1974, p. 1987, Map CCCXXVII.

macrophyllum Broth. — World: GANGULEE 1974, p. 1098, Map CCCXXVII.

FLORIBUNDARIA

nipponica Nog. — Japan: NOGUCHI 1951, p. 16, Map 59.

FONTINALIS

androgyna Ruth. — See *F. antipyretica* Hedw.

antipyretica Hedw. — Sweden: MÖLLER 1922, p. 76. Sweden: MÖLLER

1922, p. 76 (*F. antipyretica* var. *alpestris*). Sweden: MÖLLER 1922,

p. 77 (*F. antipyretica* var. *montana*). Sweden: MÖLLER 1922, p. 77

(*F. antipyretica* var. *pseudomosa*). Sweden: MÖLLER 1922, p. 79

(*F. androgyna*). S. Finland (Nyl., Ekenäs reg.): LUTHER 1951, p. 288,

Karte 89. Poland (Lake Warniak): BERNATOWICZ 1969, p. 450, Fig. 1.

England (Warwickshire): LAFLIN 1971, p. 722, Map 921.

(FONTINALIS contin.)

var. alpestris Milde — See *F. antipyretica* Hedw.

var. gigantea (Sull.) Sull. — Sweden: MÖLLER 1922, p. 77 (*F. antipyretica* var. *livonica*). Sweden: MÖLLER 1922, p. 77 (*F. antipyretica* var. *robusta*).

var. gracilis (Lindb.) Schimp. — Sweden: MÖLLER 1922, p. 77.
Sweden: MÖLLER 1922, p. 77 (*F. gothica*). Sweden: MÖLLER 1922, p. 78
(*F. gothica* var. *dimorphophylla*). Sweden: MÖLLER 1922, p. 78
(*F. sparsifolia*). Rumania: STEFUREAC 1949, p. 239. Latvia: ABOLIN
1968, p. 233 (*F. sparsifolia*).

var. livonica (G. Roth et v. Bock) Mönkem. — See *F. antipyretica*
Hedw. var. *gigantea* (Sull.) Sull.

var. montana H. Müll. — See *F. antipyretica* Hedw.

var. pseudosquamosa Card. — See *F. antipyretica* Hedw.

var. robusta Card. — See *F. antipyretica* Hedw. var. *gigantea*
(Sull.) Sull.

camusii Card. — See *F. duriaei* Schimp.

dalecarlica B.S.G. — Sweden: MÖLLER 1922, p. 78. Sweden: MÖLLER
1922, p. 79 (*F. seriata*). Sweden: MÖLLER 1922, p. 79 (*F. dichelymoi-*
des). Sweden: MÖLLER 1922, p. 78 (*F. dalecarlica* var. *microphylla*).
Sweden (Upl., Öregrund Archipelago): WAERN 1952, p. 22, Fig. 12a.
Latvia: ABOLIN 1968, p. 223.

var. microphylla (Schimp.) Limpr. — See *F. dalecarlica* B.S.G.

dichelymoides Lindb. — See *F. dalecarlica* B.S.G.

duriaei Schimp. — W. France: TOUFFET 1969b, p. 63, Fig. 27
(*F. camusii*). N. America: SCHOFIELD 1972, p. 1122, Fig. 16.

gothica Card. et Arn. — See *F. antipyretica* Hedw. var. *gracilis*
(Lindb.) Schimp.

var. dimorphophylla Möll. — See *F. antipyretica* Hedw. var. *gracilis*
(Lindb.) Schimp.

howellii Ren. et Card. — Sweden: MÖLLER 1922, p. 78 (*F. kindbergii*).

hypnoides Hartm. — Sweden: MÖLLER 1922, p. 79 (*F. hypnoides* and
F. hypnoides var. *adlerzii*). S. Finland (Nyl., Ekenäs reg.): LUTHER

(FONTINALIS contin.)

1951, p. 228, Karte 90, Latvia: ABOLIN 1968, p. 223.

var. adlerzii Card. — See *F. hypnoides* Hartm.

kindbergii Ren. et Card. — See *F. howellii* Ren. et Card.

seriata Lindb. — See *F. dalecarlica* B.S.G.

sparsifolia Limpr. — See *F. antipyretica* Hedw. var. *gracilis* (Lindb.) Schimp.

squamosa Hedw. — Sweden: MÖLLER 1922, p. 78. SW. Germany: DÜLL 1969, p. 294, Taf. 4a.

FORSSTROEMIA

trichomitria (Hedw.) Lindb. — E. Asia and N. America: IWATSUKI 1958, p. 342, Fig. 5 (*Leptodon trichomitrius*). Japan: IWATSUKI 1972b, p. 117, Fig. 7. World: IWATSUKI 1972b, p. 117, Fig. 7.

FUNARIA

aequidens Lindb. ex Broth. — Europe and Asia: ABRAMOVA & ABRAMOV 1970, p. 344.

arctica (Berggr.) Kindb. — SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 60. Spitzbergen: KUC 1973a, p. 461, Fig. 38.

attenuata (Dicks.) Lindb. — World: EREMINA 1964, p. 323.

buseana (Doz. et Mol.) Broth. — E. Asia: OCHI 1968, p. 31, Fig. 16 (*Entosthodon buseanus*).

calcareea Wahlenb. — Switzerland: J. AMANN 1928, p. 431, Fig. 10 (*F. dentata*). Poland: KUC 1964, p. 23, Ryc. 5. SW. Germany: DÜLL 1969, p. 294, Taf. 4 (*F. dentata*).

var. convexa (Spruce) Husn. — S. Europe and N. Africa: GIACOMINI 1940, p. 631, Fig. 3 (*F. convexa*).

var. mediterranea (Lindb.) C. Jens. et Medel. — Switzerland: J. AMANN 1928, p. 431, Fig. 10 (*F. mediterranea*).

convexa Spruce — See *F. calcareea* Wahlenb. var. *convexa* (Spruce) Husn.

curviseta (Schwaegr.) Mild. — Yugoslavia: MARTINCIC 1966, p. 63, Abb. 37 (*Entosthodon curvisetus*). Iberia, N. Africa and Canary Islands: ACUNA et al. 1975, p. 90, Mapa 7. SE. Spain: ACUNA et al. 1975, p. 90, Mapa 7.

(FUNARIA contin.)

dentata Crome — See *F. calcarea* Wahlenb.

fascicularis (Hedw.) Lindb. — Sweden (Sk.): WALDHEIM 1947, p. 129, Fig. 18. Jugoslavia: MARTINCIC 1966, p. 44, Abb 23 (*Entosthodon fascicularis*).

hungarica Boros — USSR: GAMS 1934, p. 40, Fig. 2. Hungary: GAMS 1934, p. 46, Fig. 5; orig. A. Boros. Europe: BOROS 1943, p. 283. Hungary: BOROS 1943, p. 284. Romania: STEFUREAC 1969, p. 68, Fig. 15. Europe: STEFUREAC 1969, p. 69, Fig. 16. Hungary, Romania and USSR: STEFUREAC 1969, p. 70, Fig. 17.

hygrometrica Hedw. — USA (Wash. and Idaho): HOFFMAN 1966, p. 158, Fig. 1. England (Warwickshire): LAFLIN 1971, p. 715, Map 892. World: GANGULEE 1974, p. 859, Map CCLXIV.

japonica Broth. — E. Asia: OCHI 1968, p. 32, Fig. 17.

mediterranea Lindb. — See *F. calcarea* Wahlenb. var. *mediterranea* (Lindb.) C. Jens. et Medel.

muhlenbergii Lam. et Cand. — Europe and Asia: BARDUNOV 1974, p. 37.

nutans (Mitt.) Broth. — World: GANGULEE 1974, p. 852, Map CCLXI (*Entosthodon nutans*).

obtusa (Hedw.) Lindb. — NE. Germany: KÜHNER & PANKOW 1967, p. 172, Abb. 2 (*Entosthodon obtusus*). Norway (S of lat. 66°N): STÖRMER 1969, p. 186, Fig. 124. Europe and N. Africa: STÖRMER 1969, p. 186, Fig. 125.

var. obtusa — Europe: MARTINCIC 1966, p. 41, Abb 18 (*Entosthodon obtusus* ssp. *obtusus*).

physcomitrioides Mont. — E. Asia: OCHI 1968, p. 31, Fig. 16 (*Entosthodon physcomitrioides*). New Caledonia: OCHI 1968, p. 31, Fig. 16 (*Entosthodon physcomitrioides*).

polaris Bryhn — N. Hemisphere: STEERE 1953a, p. 41, Fig. 2. N. Hemisphere: GAMS 1955, p. 84, Fig. 5. N. Hemisphere: STEERE 1963, p. 216, Fig. 17. Greenland and N. America: BRASSARD 1971, p. 268, Fig. 21.

rhizophylla (Sak.) Sak. — Japan: IWATSUKI & SAITO 1972, p. 58, Fig. 2 (*Tortula rhizophylla*). Japan: SAITO 1973, p. 90, Fig. 13 (*Tortula rhizophylla*).

(FUNARIA contin.)

wallichii (Mitt.) Broth. — SE. Asia: GANGULEE 1974, p. 854, Map CCLXII (*Entosthodon wallichii*).

wichurae (Fleisch.) Broth. — E. Asia: OCHI 1968, p. 32, Fig. 17 (*Entosthodon wichurae*).

GARCKEA

abbreviata Dix. et P. Vard. — World: GANGULEE 1971, p. 186, Map XLVI.

elongata Ren. et Card. — World: GANGULEE 1971, p. 186, Map XLVI.

mathieui Thér. — World: GANGULEE 1971, p. 186, Map XLVI.

moenkemeyeri C. Müll. — World: GANGULEE 1971, p. 186, Map XLVI.

GEORGIA

pellucida (Hedw.) Rabenh. — See *Tetraphis pellucida* Hedw.

phascoides (Hook.) C. Müll. — World: GANGULEE 1971, p. 186, Map XLVI.

GEHEEBIA

cataractarum Schimp. — See *G. gigantea* (Funck) Boul.

gigantea (Funck) Boul. — Europe, Asia, Africa and Australia: SZAFRAN 1948, p. 44, Ryc. 21 (*G. cataractarum*). Yugoslavia: MARTINCIC 1966, p. 22, Abb. 8 (*Barbula gigantea*). World: GANGULEE 1972, p. 711, Map CCXIII. World: SCHOFIELD & CRUM 1972, p. 194, Map 41. N. America: SCHOFIELD 1972, p. 1127, Fig. 33.

GIGASPERMUM

mouretii Corb. — Iberia and N. Africa: ACUNA et al. 1975, p. 86, Mapa 4. SE. Spain: ACUNA et al. 1975, p. 86, Mapa 4.

GIRGENSOHNIA

ruthenica (Weinm.) Kindb. — E. Asia and N. America: SCHOFIELD 1965, p. 18, Map 1 (*Pleuroziopsis ruthenica*). E. Asia: HORIKAWA 1955a, p. 73, Map 25 (*Pleuroziopsis ruthenica*). E. Asia: HORIKAWA 1972, Map 479 (*Pleuroziopsis ruthenica*).

GLYPHOMITRIUM

calycinum (Mitt.) Card. — SE. Asia: WANG 1970, p. 413, Fig. 42.

(GLYPHOMITRIUM contin.)

daviesii (With.) Brid. — Norden: DEGELIUS 1935, p. 209, Fig. 57.
Norway (S of lat. 66°N): STÖRMER 1969, p. 247, Fig. 186. Europe:
STÖRMER 1969, p. 248, Fig. 187. W. Europe: FRAHM 1975b, p. 184,
Abb. 2.

GLYPHOTHECIUM

gracile (Hampe) Broth. — World: SEKI 1974, p. 90, Fig. 9.

pendulum Zant. — World: SEKI 1974, p. 90, Fig. 9.

sciuroides (Hook.) Hampe — World: SEKI 1974, p. 90, Fig. 9.

GOLLANIA

berthelotiana (Mont.) Broth. — World: HOLMEN & RASMUSSEN 1972,
p. 117, Fig. 6.

clarescens (Mitt.) Broth. — SE. Asia: WANG 1970, p. 401, Fig. 18.

densepinnata Dix. — Alaska: PERSSON & GJAEREVOLL 1961, p. 16,
Fig. 1.

ruginosa (Mitt.) Broth. — SE. Asia: WANG 1970, p. 401, Fig. 18.

turgens (C. Müll.) Ando — See *Hypnum turgens* (C. Müll.) Paris

GONIOMITRIUM

serio Casas de Puig — SE. Spain: CASAS DE PUIG 1972, p. 14,
Fig. 2.

GRIMMIA

alpestris (Web. et Mohr) Schleich. — See *G. donniana* Sm.

anodon B.S.G. — Sweden: MÖLLER 1931, p. 161 (*Schistidium anodon*).
Finland (Kuusamo): TUOMIKOSKI 1939, p. 104, Karte 13. Poland: KUC
1964, p. 177, Ryc. 41. NW. Canada (Axel Heiberg Island): KUC 1973b,
p. 70, Fig. 26. N. Canada: KUC 1973b, p. 73, Fig. 27.

anomala Hampe ex Schimp. — See *G. hartmanii* Schimp. ssp. *anomala*
(Hampe) Loeske

antarctica Card. — Antarctic (S. Orkney Islands): WEBB 1973, Fig. 11.

apiculata Hornsch. — Sweden: MÖLLER 1933, p. 122.

apocarpa Hedw. — See *Schistidium apocarpum* (Hedw.) B.S.G.

var. homodictyon (Dix.) Crundw. — The British Isles: WHITEHOUSE et
al. 1971, p. 334; orig. A.J.E. Smith. (according to Index Muscorum 2

(GRIMMIA contin.)

as *Grimmia homodictyon* Dix. but in the Appendix as *G.a. var. homodictyon* (Dix.) Crundw.)

apophysata Hamp. ex Gang. — SE. Asia: GANGULEE 1972, p. 796, Map CCXLIII.

atrata Miel. ex Hornsch. — Sweden: MÖLLER 1933, p. 123. M. Europe (the Alps): GAMS 1966, p. 2. The British Isles: WHITEHOUSE et al. 1968, p. 596; orig. P.D. Coker.

campestris Burchell ex Hook. — See *G. laevigata* (Brid.) Brid.

var. latifolia (Limpr.) Par. — See *G. laevigata* (Brid.) Brid. f. *latifolia* (Limpr.) Podp.

commutata Hüb. — See *G. ovalis* (Hedw.) Lindb.

cribrosa Hedw. — See *Coscinodon cribrosus* (Hedw.) Spruce

crinita Brid. — M. Europe: PILOUS 1961b, p. 285, Karte 4. SW. Germany: DÜLL 1969, p. 294, Taf. 4.

decipiens (Schultz) Lindb. — Sweden: MÖLLER 1933, p. 125. N. Germany: PANKOW & KÜHNER 1967, Tab. 23. Europe, N. Africa and W. Asia: STÖRMER 1969, p. 151, Fig. 90. Norway (S of lat. 66°N): STÖRMER 1969, p. 150, Fig. 89.

donniana Sm. — Sweden: MÖLLER 1933, p. 121. Sweden: MÖLLER 1933, p. 122 (*G. montana*). Sweden: MÖLLER 1933, p. 122 (*G. alpestris*). N. America: WYNNE 1943, p. 151, Fig. 2. Yugoslavia: MARTINCIC 1966, p. 22, Abb. 7 (*G. alpestris* ssp. *alpestris*). World: KUC 1969c, p. 663, Fig. 6. Antarctic: KUC 1969c, p. 663, Fig. 7. The British Isles: WHITEHOUSE et al. 1971, p. 340; orig. A.J.E. Smith (*G. montana*). World: GANGULEE 1972, p. 806, Map CCXLVI. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 61, Ryc. 2 (*G. montana*).

var. arenaria (Hampe) Loeske — The British Isles: WHITEHOUSE et al. 1971, p. 339; orig. A.J.E. Smith.

var. donniana — The British Isles: WHITEHOUSE et al. 1971, p. 338; orig. A.J.E. Smith.

var. triformis (Car. et De Not.) Loeske — Sweden: MÖLLER 1933, p. 121.

(GRIMMIA contin.)

var. elator Bruch ex Bals. et De Not. — Sweden: MÖLLER 1933, p. 125. Poland and Czechoslovakia: JEDRZEJKO 1969, p. 355, Fig. 2.

var. alpigena (Zett.) Möll. — See G. elator Bruch ex Bals. et De Not. var. pseudofunalis Limpr.

var. pseudofunalis Limpr. — Sweden: MÖLLER 1933, p. 125 (G. elator var. alpigena).

elongata Kaulf. — Sweden: MÖLLER 1933, p. 123. The British Isles: WHITEHOUSE et al. 1971, p. 342; orig. A.J.E. Smith. World: GANGULEE 1972, p. 809, Map CCXLVII.

flaccida (De Not.) Lindb. — See Schistidium apocarpum (Hedw.) B.S.G. var. pulvinatum (Hedw.) C. Jens.

funalis (Schwaegr.) B.S.G. — Sweden: MÖLLER 1933, p. 123. The British Isles: WHITEHOUSE et al. 1971, p. 344; orig. A.J.E. Smith. World: GANGULEE 1972, p. 803, Map CCXLV.

var. calvescens (Kindb.) Möll. — Sweden: MÖLLER 1933, p. 123.

hartmanii Schimp. — Sweden: MÖLLER 1933, p. 124. W. France: TOUFFET 1969b, p. 57, Fig. 15. N. Sweden, N. Norway, Finland and W. USSR: VITIKAINEN 1969, p. 240, Fig. 3. The British Isles: WHITEHOUSE et al. 1971, p. 346; orig. A.J.E. Smith. Poland (Silesia): BERDOWSKI 1974, p. 29, Mapa 6.

ssp. anomala (Hampe) Loeske — Sweden: MÖLLER 1933, p. 124. S. Poland (W. Carpathians): LISOWSKI & KORNAŚ 1966, p. 65, Fig. 6 (G. anomala). Norden: VITIKAINEN 1969, p. 238, Fig. 1 (G. anomala). N. Hemisphere: VITIKAINEN 1969, p. 239, Fig. 2 (G. anomala).

ssp. retracta (Stirt.) Dix. — The British Isles: WHITEHOUSE et al. 1971, p. 347; orig. A.J.E. Smith (G. retracta).

incurva Schwaegr. — Sweden: MÖLLER 1933, p. 123. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 59. The British Isles: WHITEHOUSE et al. 1971, p. 343; orig. A.J.E. Smith. Spitzbergen: KUC 1973a, p. 460, Fig. 36.

inflectens Mitt. — Indian Peninsula: GANGULEE 1972, p. 812, Map CCXLVIII.

khasiana Mitt. — World: GANGULEE 1972, p. 809, Map CCXLVII.

(GRIMMIA contin.)

laevigata (Brid.) Brid. — Sweden: MÖLLER 1933, p. 121 (*G. campestris*). Sweden: KRUSENSTJERNA 1945, p. 164, Karta 3 (*G. campestris*). Norway (S of lat. 66°N): STÖRMER 1969, p. 153, Fig. 91. Europe, N. Africa and W. Asia: STÖRMER 1969, p. 153, Fig. 92. The British Isles: WHITEHOUSE et al. 1971, p. 337; orig. A.J.E. Smith. World: GANGULEE 1972, p. 799, Map CCXLIV.

f. latifolia (Limpr.) Podp. — Sweden: MÖLLER 1933, p. 121 (*G. campestris* var. *latifolia*).

macrotheca Mitt. — Indian Peninsula: GANGULEE 1972, p. 812, Map CCXLVIII.

mollis B.S.G. — See *Hydrogrimmia mollis* (B.S.G.) Loeske

montana B.S.G. — See *G. donniana* Sm.

moxleyi Williams — USA (Calif.): KOCH 1954, p. 531, Fig. 4.

muehlenbeckii Schimp. — See *G. trichophylla* Grev. var. *tenuis* (Wahlenb.) Wijk et Marg.

nepalensis Mitt. — Indian Peninsula: GANGULEE 1972, p. 812, Map CCXLVIII.

olympica Britt. — World: SCHOFIELD & CRUM 1972, p. 184, Map 11.

orbicularis Bruch in Wils. — The British Isles: WHITEHOUSE et al. 1970, p. 151; orig. A.J.E. Smith.

ovalis (Hedw.) Lindb. — Sweden: MÖLLER 1933, p. 121 (*G. commutata*). Sweden: MÖLLER 1933, p. 122. Finland (Kuusamo): TUOMIKOSKI 1939, p. 104, Karte 13 (*G. commutata*). S. Poland (W. Carpathians): LISOWSKI & KORNAŚ 1966, p. 65, Fig. 6. Latvia: ABOLIN 1968, p. 144 (*G. commutata*). The British Isles: WHITEHOUSE et al. 1971, p. 336; orig. A.J.E. Smith (*G. commutata*). The British Isles: WHITEHOUSE et al. 1971, p. 341; orig. A.J.E. Smith. World: GANGULEE 1972, p. 799, Map CCXLIV. NW. Canada (Axel Heiberg Island): KUC 1973b, p. 70, Fig. 26. N. Canada: KUC 1973b, p. 75, Fig. 28.

patens (Hedw.) B.S.G. — See *Racomitrium patens* (Hedw.) Hüb.

pilifera P. Beauv. — E. Asia and N. America: IWATSUKI 1958, p. 342, Fig. 5. Japan: IWATSUKI 1972b, p. 118, Fig. 8. World: IWATSUKI 1972b, p. 118, Fig. 8.

(GRIMMIA contin.)

pitardii Corb. — S. Europe and N. Africa: KOPPE 1972, p. 332.

plagiopodia Hedw. — Slovakia: PILOUS 1957b, p. 247, Obr. 3.

platyphylla Mitt. — See *Schistidium alpicola* (Hedw.) Limpr. var. *latifolium* (Zett.) Limpr.

pulvinata (Hedw.) Sm. — Sweden: MÖLLER 1933, p. 123. Sweden (Sk., Dalby Söderskog): WALDHEIM 1944b, p. 97, Fig. 16A. Sweden: KRUSEN-STJERNA 1945, p. 166, Karta 4. NE. Belgium (Limburg): BARKMAN 1963b, p. 23, Kaart VIII. Latvia: ABOLIN 1968, p. 144. Europe, N. Africa and W. Asia: STÖRMER 1969, p. 63, Fig. 23. Norway (S of lat. 66°N): STÖRMER 1969, p. 63, Fig. 22. England (Warwickshire): LAFLIN 1971, p. 714, Map 890. Estonia: KALDA 1973, p. 290, Joon 1.

redunda Wils. ex Mitt. — World: GANGULEE 1972, p. 806, Map CCXLVI.

retracta Stirt. — See *G. hartmanii* Schimp. ssp. *retracta* (Stirt.) Dix.

sessitana De Not. — Sweden: MÖLLER 1933, p. 122.

var. subsulcata (Limpr.) Breidl. — Sweden: MÖLLER 1933, p. 122.

somervellii Dix. — Indian Peninsula: GANGULEE 1972, p. 796, Map CCXLIII.

subdoniana Nog. — World: GANGULEE 1972, p. 803, Map CCXLV.

tenera Zett. — See *Schistidium apocarpum* (Hedw.) B.S.G. var. *tenerimum* (Nees et Hornsch.) Limpr.

teretinervis Limpr. — America, Europe and Africa: KUCYNIK 1952a, p. 41, Map 1. Canada (Quebec): KUCYNIK 1954c, p. 103.

torquata Hornsch. — Sweden: MÖLLER 1933, p. 124. The British Isles: WHITEHOUSE et al. 1971, p. 345; orig. A.J.E. Smith. N. America, Greenland and Iceland: SCHOFIELD 1972, p. 1126, Fig. 32. Spitzbergen:

trichodon Brid. — See *Schistidium apocarpum* (Hedw.) B.S.G. ssp. *gracile* (Röhl.) Meyl.

trichophylla Grev. — Sweden: MÖLLER 1933, p. 124. USA (Calif.): KOCH 1954, p. 524, Fig. 1. World: SLJAKOV 1961, p. 221. S. Poland (W. Carpathians): LISOWSKI & KORNAŚ 1966, p. 66, Fig. 7. Poland (Silesia): BERDOWSKI 1974, p. 24, Mapa 4.

(GRIMMIA contin.)

KUC 1973a, p. 460, Fig. 36.

trichophylla Grev. var. muehlenbeckii (Schimp.) Husn. — See G. trichophylla Grev. var. tenuis (Wahlenb.) Wijk et Marg.

var. stirtoni (Schimp.) Möll. — See G. trichophylla Grev. f. stirtoni (Schimp.) Loeske

var. tenuis (Wahlenb.) Wijk et Marg. — Sweden: MÖLLER 1933, p. 124 (G. trichophylla var. muehlenbeckii). Finland (Kuusamo): TUOMIKOSKI 1939, p. 104, Karte 13 (G. muehlenbeckii). Czechoslovakia: SMARDA 1944, p. 117 (G. muehlenbeckii). Poland (Silesia): BERDOWSKI 1974, p. 20, Mapa 3 (G. muehlenbeckii).

f. stirtoni (Schimp.) Loeske — Sweden: MÖLLER 1933, p. 124 (G. trichophylla var. stirtoni).

unicolor Hook. — Sweden: MÖLLER 1933, p. 121.

GYMNOSTOMIELLA

vernica (Hook.) Fleisch. — SE. Asia: GANGULEE 1974, p. 863, Map CCLXVI.

GYMNOSTOMUM

aeruginosum Sm. — S. Germany: PHILIPPI 1972, p. 744, Abb. 39.

Poland (NW. Sudet): WILCZYŃSKA 1974, p. 97, Ryc. 8 (G. rupestre).

angustifolium Saito — E. Asia and N. America: SAITO 1972, p. 166, Fig. II. (not listed in Index Muscorum)

calcareum Nees et Hornsch. — Finland (Kuusamo): TUOMIKOSKI 1939, p. 104, Karte 13. The British Isles: WHITEHOUSE et al. 1968, p. 595; orig. A. McG. Stirling. World: GANGULEE 1972, p. 644, Map CLXXXVIII. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 61, Ryc. 2.

rupestre Schleich. — See G. aeruginosum Sm.

GYROWEISIA

tenuis (Hedw.) Schimp. — SW. Poland: KUC 1956, p. 637, Fig. 5.

Poland: KUC 1964, p. 22, Ryc. 4. England (Warwickshire): LAFLIN 1971, p. 713, Map 885. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 62, Ryc. 3.

HABRODON

leucotrichus (Mitt.) H. Perss. — World: IRMSCHER 1929, Fig. 10, Taf. 13 (*H. piliferus*). N. Hemisphere: PERSSON 1946, p. 319, Fig. 1. Alaska and British Columbia: PERSSON 1946, p. 322, Fig. 2. World: BARDUNOV 1974, p. 98.

perpusillus (De Not.) Lindb. — World: IRMSCHER 1929, Fig. 10, Taf. 13. Norden: DEGELIUS 1935, p. 209, Fig. 58. N. Hemisphere: PERSSON 1946, p. 319, Fig. 1. The British Isles: WHITEHOUSE et al. 1964, p. 743; orig. U.K. Duncan. Norway (S of lat. 66°N): STÖRMER 1969, p. 202, Fig. 143. Europe, N. Africa and W. Asia: STÖRMER 1969, p. 202, Fig. 143.

piliferus Card. — See *H. leucotrichus* (Mitt.) Perss.

HAPLOCLADIUM

angustifolium (Hamp. et C. Müll.) Broth. — Europe: J. AMANN 1928, p. 309, Fig. 6 (*Thuidium pulchellum*). Japan: WATANABE 1972, p. 249, Map 4C.

discolor (Par. et Broth.) Broth. — Japan: WATANABE 1972, p. 249, Map 4C.

fauriei (Broth. et Par.) Watanabe — See *Pseudoleskeopsis orbiculata* (Mitt.) Broth.

microphyllum (Hedw.) Broth. — World: WANG 1970, p. 399, Fig. 15. SE. Asia: WANG 1970, p. 413, Fig. 43 (*Thuidium occultissimum*). Japan: WATANABE 1972, p. 248, Map 3A.

ssp. virginianum (Brid.) Reim. — Yugoslavia: MARTINCIC 1966, p. 45, Abb. 26.

schwetschkeoides (Card.) Broth. — Japan: WATANABE 1972, p. 248, Map 3B.

HAPLODON

wormskjoldii (Hornem.) R.Br. — See *Aplodon wormskjoldii* (Hornem.) R.Br.

HAPLOHYMENIUM

formosanum Nog. — SE. Asia: WANG 1970, p. 413, Fig. 42.

longinerve (Broth.) Broth. — Japan: WATANABE 1972, p. 248, Map 3C.

(HAPLOHYMENIUM contin.)

pseudo-triste (C. Müll.) Broth. — Japan: WATANABE 1972, p. 250, Map 5A.

sieboldii (Doz. et Molk.) Doz. et Molk. — Japan: WATANABE 1972, p. 250, Map 5B.

triste (Ces.) Kindb. — Europe: J. AMANN 1928, p. 309, Fig. 6. USA (Fla.) and M. America: SCHORNHERST 1943, p. 521, Map 6. E. USA and M. America: SCHORNHERST 1946, p. 161, Fig. 7. Japan: WATANABE 1972, p. 249, Map 4A.

HEDWIGIA

albicans Lindb. — See *H. ciliata* (Hedw.) P. Beauv.

var. incana (Sw.) Möll. — See *H. ciliata* (Hedw.) P. Beauv. f. *incana* (Sw.) Medel.

var. secunda (B.S.G.) Limpr. — See *H. ciliata* (Hedw.) P. Beauv. f. *secunda* (B.S.G.) Jones

var. viridis (B.S.G.) Limpr. — See *H. ciliata* (Hedw.) P. Beauv. f. *viridis* (B.S.G.) Jones

ciliata (Hedw.) P. Beauv. — Sweden: MÖLLER 1912, p. 72 (*H. albicans*). Sweden (Sk., Dalby Söderskog): WALDHEIM 1944b, p. 97, Fig. 16D. Poland (Upper Wislok): WACLAWSKA 1957, p. 98, Fig. 2 (*H. albicans*). Denmark: KJ. HOLMEN et al. 1959, p. 137, Fig. 73; orig. J. Gernaa. NE. Poland (Suwalki reg.): MICKIEWICZ, REJMENT-GROCHOWSKA & SOBOTKA 1963, p. 260, Fig. 1 (*H. albicans*). S. Poland: KUC 1964, p. 149, Ryc. 34. S. Poland (W. Carpathians): LISOWSKI & KORNAŚ 1966, p. 67, Fig. 8 (*H. albicans*). Poland: MICKIEWICZ 1972, p. 233, Fig. 1 (*H. albicans*). E. Asia: HORIKAWA 1972, Map 476. Germany (Schlesw.-Holst.): FRAHM & WALSEMANN 1973, p. 119.

f. incana (Sw.) Medel. — Sweden: MÖLLER 1912, p. 73 (*H. albicans* var. *incana*).

f. secunda (B.S.G.) Jones — Sweden: MÖLLER 1912, p. 72 (*H. albicans* var. *secunda*).

f. viridis (B.S.G.) Jones — Sweden: MÖLLER 1912, p. 72 (*H. ciliata* var. *viridis*).

integrifolia P. Beauv. — See *Hedwigidium integrifolium* (P. Beauv.) Dix.

HEDWIGIDIUM

imberbe (Sm.) B.S.G. — See *H. integrifolium* (P. Beauv.) Dix.

integrifolium (P. Beauv.) Dix. — Norden: DEGELIUS 1935, p. 209, Fig. 59 (*H. imberbe*). The British Isles: WHITEHOUSE et al. 1963, p. 519; orig. D.A. Ratcliffe (*Hedwigia integrifolia*). Norway (S of lat. 66° N): STÖRMER 1969, p. 226, Fig. 164. Europe: STÖRMER 1969, p. 226, Fig. 165. W. France: TOUFFET 1969b, p. 59, Fig. 19 (*H. imberbe*). Iberia: BRUGUES, CASAS DE PUIG & CROS 1974, p. 114, Fig. 4 (*H. imberbe*).

HELICOPHYLLUM

torquatum (Hook.) Brid. — El Salvador: WINKLER 1964-65, p. 508, Abb. 2.

HELODIUM

blandowii (Web. et Mohr) Warnst. — N. and M. Europe: GAMS 1925, p. 17, Fig. 7 (*Thuidium Blandowii*). M. Europe (S of lat. 60° N): HERZOG 1926, p. 252, Fig. 96 (*H. lanatum*). N. and M. Europe: GAMS 1927, p. 179, Abb. 1 (*Thuidium blandowii*). Europe (N of lat. 42° N): J. AMANN 1928, p. 312, Fig. 7. S. Sweden, Denmark and M. Europe: GAMS 1932a, p. 315, Fig. 3. (*H. lanatum*). E. Germany, Poland, Czechoslovakia and E. Prussia: SZAFFRAN 1948, p. 59, Ryc. 32 (*H. lanatum*). Rumania: STEFUREAC 1956, p. 257 (*H. lanatum*). Europe: STEFUREAC 1956, p. 261 (*H. lanatum*). SW. Poland: KUC 1956, p. 636, Fig. 3 (*Thuidium lanatum*). Poland: KUC 1956, p. 639, Fig. 7 (*Thuidium lanatum*). E. Poland (Lublin distr.): JASNOWSKI 1956, p. 80, Fig. 1 (*H. lanatum*). Denmark: KJ. HOLMEN et al. 1959, p. 142, Fig. 92; orig. Kjeld Holmen. Poland (Warszawa reg.): REJMENT-GROCHOWSKA 1959, p. 282, Fig. 1 (*H. lanatum*). Poland (E. Lublin upland): KARCZMARZ & KUC 1962, p. 486, Fig. 1 (*Thuidium lanatum*). Poland (Suwalki reg.): REJMENT-GROCHOWSKA & MICKIEWICZ 1962, p. 4, Fig. 2 (*Thuidium lanatum*). NE. Poland (Suwalki reg.): MICKIEWICZ, REJMENT-GROCHOWSKA & SOBOTKA 1963, p. 260, Fig. 1 (*Thuidium lanatum*). Poland (Lower Nida): WACLAWSKA 1964, p. 368, Fig. 1 (*Thuidium lanatum*). SE. Poland: KARCZMARZ 1964, p. 408, Ryc. 7 (*Thuidium lanatum*). S. Poland: KUC 1964, p. 159, Ryc. 38 (*Thuidium lanatum*). Rumania: POP 1965, p. 433, Fig. 4 (*H. lanatum*). E. Germany (Mecklenburg): PANKOW 1966, p. 71, Karte 5. Latvia: ABOLIN 1968, p. 234. The British Isles: J.H. DICKSON 1973, p. 133 (f), Fig. 60.

(HELODIUM contin.)

lanatum (Brid.) Broth. — See *H. blandowii* (Web. et Mohr) Warnst.

sachalinense (Lindb.) Broth. — Japan: WATANABE 1972, p.251, Map 6D.

HERPETINEURON

toccoae (Sull. et Lesq.) Card. — USA (E. part) and M. America: SHARP 1939, p. 340, Fig. 26. World: IWATSUKI 1958, p. 341, Fig. 3. World: NORRIS & SHARP 1961, p. 112, Map 1. Japan: WATANABE 1972, p. 250, Map 5C. Japan: IWATSUKI 1972b, p. 110, Fig. 2. World: IWATSUKI 1972b, p. 110, Fig. 2.

HERZOGIELLA

turfacea (Lindb.) Iwats. — See *Isopterygium turfaceum* (Lindb.) Lindb.

HETEROCLADIUM

dimorphum (Brid.) B.S.G. — Poland (NW. Sudet): WILCZYNSKA 1974, p. 97, Ryc. 8 (*H. squarrosulum*). World: ABRAMOVA & VOLKOVA 1972, p. 904.

heteropteroides Best. — World: ABRAMOVA & VILKOVA 1972, p. 904.

heteropterum B.S.G. — Denmark: KJ. HOLMEN et al. 1959, p. 141, Fig. 88; orig. Kjeld Holmen. Poland: KUC 1964, p. 159, Ryc. 39. Norway: STÖRMER 1969, p. 108, Fig. 56. Europe and W. Asia: STÖRMER 1969, p. 109, Fig. 57. World: ABRAMOVA & VOLKOVA 1972, p. 904.

ssp. wulfsbergii (Hag.) C. Jens. et Perss. — Europe: REICHLING 1954, p. 101 (*H. wulfsbergii*).

papillosum (Lindb.) Lindb. — World: ABRAMOVA & VILKOVA 1972, p. 904. N. Hemisphere: LEWINSKY 1974c, p. 610, Fig. 25 (*Pseudoleskeella papillosa*). N. Canada and Arctic Alaska: STEERE 1975b, p. 92, Fig. 1 (*Pseudoleskeella papillosa*).

procurrens Mitt. — World: ABRAMOVA & VOLKOVA 1972, p. 904.

squarrosulum Lindb. — See *H. dimorphum* (Brid.) B.S.G.

wulfsbergii Hag. — See *H. heteropterum* B.S.G. ssp. *wulfsbergii* (Hag.) C. Jens. et Perss.

HETEROPHYLLIUM

haldanianum (Grev.) Fleisch. — S. Poland (W. Carpathians): LISOWSKI & KORNAŚ 1966, p. 66, Fig. 7. Latvia: ABOLIN 1968, p. 290.

(HETEROPHYLLIUM contin.)

Poland: MICKIEWICZ 1972, p. 233, Fig. 1. Newfoundland: TUOMIKOSKI, KOPONEN & AHTI 1973, p. 259, Fig. 7 (*Callicladium haldanianum*).

HIMANTOCLADIUM

plumula (Nees) Fleisch. — Asia, Australia and New Zealand: WANG 1970, p. 403, Fig. 23.

HOLOMITRIUM

densifolium (Wils.) Wijk et Marg. — SE. Asia: GANGULEE 1971, p. 378, Map CXIV.

HOMALIA

lusitanica Schimp. — SE. France, Corsica, Italy and W. Balkan: GIACOMINI 1950, p. 208. Yugoslavia: MARTINCIC 1966, p. 62, Abb. 35.

trichomanoides (Hedw.) B.S.G. — Sweden: MÖLLER 1912, p. 73. Sweden (Sk., Dalby Söderskog): WALDHEIM 1944b, p. 98, Fig. 17B. Denmark: KJ. HOLMEN et al. 1959, p. 139, Fig. 82; orig. J. Gernaa. N. Germany: PANKOW & KÜHNER 1967, Tab. 18. England (Warwickshire): LAFLIN 1971, p. 723, Map 924 (*Omalia trichomanoides*). USSR (Moldavia): SIMONOV 1972, p. 43.

HOMALIADELPHUS

sharpii (Williams) Sharp — World: SCHOFIELD & CRUM 1972, p. 181, Map 2.

targionianus (Mitt.) Dix. et P. Vard. — E. Asia: HORIKAWA 1955a, p. 135, Map 48.

HOMALIODENDRON

exiguum (Bosch et Lac.) Fleisch. — Japan: NOGUCHI 1951, p. 17, Map 60.

scalpellifolium (Mitt.) Fleisch. — Japan: NOGUCHI 1951, p. 17, Map 60. Japan and Formosa: HORIKAWA 1952b, p. 81, Map 13. E. Asia and Australia: HORIKAWA 1952b, p. 83, Map 14. E. Asia: HORIKAWA 1955a, p. 86, Map 29. Japan (Quelpart Island): WON & ANDO 1963, p. 197, Fig. 4. E. Asia: HORIKAWA 1972, Map 478.

HOMALOTHECIELLA

fabronifolia (Grout) Broth. ("fabrofolia") — USA (E. part): SHARP 1939, p. 333, Fig. 10.

HOMALOTHECIUM

bonplandi Jaeg. — See *H. leskeoides* (Hook.) Robins.

geheebii (Milde) Wigh. — See *Brachythecium geheebii* Milde

leskeoides (Hook.) Robins. — N. and M. America: SHARP 1939, p. 335, Fig. 14 (*H. bonplandi*).

lutescens (Hedw.) Robins. — Sweden (Sk., Nävlingeås distr.): WEIMARCK 1944, p. 52, Fig. 22 (*Camptothecium lutescens*). Sweden (Sk., Dalby Söderskog): WALDHEIM 1944b, p. 32, Fig. 3B (*Camptothecium lutescens*). Sweden: KRUSENSTJERNA 1945, p. 162, Karta 2 (*Camptothecium lutescens*). Poland (Upper Wislok): WACLAWSKA 1957, p. 98, Fig. 2 (*Camptothecium lutescens*). Latvia: ABOLIN 1968, p. 270 (*Camptothecium lutescens*). Czechoslovakia: POSPISIL 1968, Abb. 1 (*Camptothecium lutescens*). Czechoslovakia: POSPISIL 1968, Abb. 1 (*Camptothecium lutescens* var. *fallax*). England (Warwickshire): LAFLIN 1971, p. 727, Map 943 (*Camptothecium lutescens*). USSR (Moldavia): SIMONOV 1972, p. 55 (*Camptothecium lutescens*). The British Isles: J.H. DICKSON 1973, p. 151 (f), Fig. 69.

nitens (Hedw.) Robins. — E. Germany, Poland, Czechoslovakia and E. Prussia: SZAFRAN 1948, p. 60, Ryc. 33 (*Tomenthypnum nitens*). E. Poland (Lublin distr.): JASNOWSKI 1956, p. 80, Fig. 1 (*Camptothecium nitens*). Poland (Silesia): KUC 1956, p. 638, Fig. 6 (*Camptothecium trichoides*). Poland (Upper Wislok): WACLAWSKA 1957, p. 98, Fig. 2 (*Camptothecium trichoides*). Poland (E. Lublin upland): KARZMARZ & KUC 1962, p. 486, Fig. 1 (*Camptothecium nitens*). The British Isles: WHITEHOUSE et al. 1963, p. 527; orig. C.D. Piggott (*Camptothecium nitens*). The British Isles: PIGOTT & PIGOTT 1963, p. 329, Fig. 5 (*Camptothecium nitens*). Poland (Lower Nida): WACLAWSKA 1964, p. 368, Fig. 1 (*Camptothecium nitens*). SE. Poland: KARZMARZ 1964, p. 407, Ryc. 6 (*Camptothecium nitens*). S. Poland (W. Carpathians): LISOWSKI & KORNÁŠ 1966, p. 69, Fig. 10 (*Camptothecium nitens*). Sweden (Vrm.): FRANSSON 1972, p. 112, Map 72 (*Tomenthypnum nitens*). N. America, Greenland and Iceland: SCHOFIELD 1972, p. 1122, Fig. 13 (*Tomenthypnum nitens*). Greenland: HOLMEN, LEWINSKY & MOGENSEN 1974, p. 244 (*Tomenthypnum nitens*).

perimbricatum Broth. — SE. Asia: WANG 1970, p. 413, Fig. 43.

(HOMALOTHECIUM contin.)

philippeanum (Spruce) B.S.G. — Poland: KUC 1964, p. 175, Ryc. 40 (Camptothecium philippei). USSR (Moldavia): SIMONOV 1972, p. 55.

sciureum (Mitt.) Besch. — Japan and Formosa: TAKAKI 1956, p. 61, Map 1D (Pleuropus sciureus).

sericeum (Hedw.) B.S.G. — Sweden (Sk., Dalby Söderskog): WALDHEIM 1944b, p. 98, Fig. 17C. England (Warwickshire): LAFLIN 1971, p. 727, Map 942 (Camptothecium sericeum). USSR (Moldavia): SIMONOV 1972, p. 55.

HOMOMALLIUM

leptothallum (C. Müll.) Nog. — E. Asia: ABRAMOVA & ABRAMOV 1967, p. 362 (Hypnum leptothallum).

HOOKERIA

acutifolia Hook. et Grev. — World: IRMSCHER 1929, Fig. 20, Taf. 18. World: MEUSEL 1934, Karte 34c (H. megablastum). USA (E. part) and M. America: SHARP 1939, p. 336, Fig. 16. World: MEUSEL 1943, Karte 34c, World: SAVICZ-LJUBITZKAJA 1947, p. 168. World: SZAFRAN 1948, p. 53, Ryc. 28. World: SZAFRAN 1948, p. 53, Ryc. 28 (H. megablastum and H. sullivantii). E. Asia, N. and S. America: IWATSUKI 1958, p. 342, Fig. 4. Japan and Formosa: NOGUCHI 1962, p. 132. USA (N.C.): CROSBY & ANDERSON 1967, p. 305, Fig. 4. Japan: IWATSUKI 1972b, p. 111, Fig. 3. World: IWATSUKI 1972b, p. 111, Fig. 3.

lucens (Hedw.) Sm. — Sweden: MÖLLER 1922, p. 76 (Pterygophyllum lucens). S. Scandinavia and Denmark: HÄSSLER 1924b, p. 458 (Pterygophyllum lucens). Europe (S of lat. 62°N and W of long. 20°E): HERZOG 1926, p. 241, Fig. 90. M. Europe (the Alps): GAMS 1928a, p. 70. Switzerland: AMANN 1928, p. 433, Fig. 11 (Pterygophyllum lucens). World: IRMSCHER 1929, Fig. 20, Taf. 18. World: MEUSEL 1943, Karte 34c. M. Europe (the Alps): SAVICZ-LJUBITZKAJA 1947, p. 165. World: SAVICZ-LJUBITZKAJA 1947, p. 168. World: SZAFRAN 1948, p. 53, Ryc. 28. E. Germany, Poland and Czechoslovakia: SZAFRAN 1948, p. 54, Ryc. 29. Rumania: STEFUREAC 1949, p. 230, and 239. M. Europe (the Alps): FUTSCHIG 1954, p. 17. Europe: FUTSCHIG 1954, p. 18; orig. H. Gams. M. Europe (the Carpathians): KORNAŠ & MEDWECKA-KORNAŠ 1956, p. 73, Fig. 1. S. Poland (W. Carpathians): KORNAŠ & MEDWECKA-KORNAŠ 1956, p. 74, Fig. 2. Denmark: KJ. HOLMEN et al. 1959, p. 140, Fig. 84;

(HOOKERIA contin.)

S. Poland (W. Carpathians) SZAFRAN 1965, p. 606, Fig. 1. S. Poland (W. Carpathians): LISOWSKI & KORNAŠ 1966, p. 61, Fig. 2. Norway (S of lat. 66°N) STÖRMER 1969, p. 189, Fig. 128. Europe and W. Asia: STÖRMER 1969, p. 190, Fig. 129. SW. Germany: DÜLL 1969, p. 299, Taf. 6a. SW. Norway (Tel., Rog.): LYE 1970, p. 40, Fig. 18b. World: SCHOFIELD & CRUM 1972, p. 190, Map 29. N. America: SCHOFIELD 1972, p. 1127, Fig. 34. Germany (Thüringen): MEINUNGER 1975, p. 233, Karte 11.

megablastum C. Müll. — See *H. acutifolia* Hook. et Grev.

nipponensis (Besch.) Broth. — World: MEUSEL 1934, Karte 34c. World: SZAFRAN 1948, p. 53, Ryc. 28. Japan and Formosa: NOGUCHI 1962, p. 132.

sullivantii C. Müll. — See *H. acutifolia* Hook. et Grev.

HOOKERIOPSIS

pappeana (Hamp.) Jaeg. — Europe, Africa and Asia: WANG 1970, p. 398, Fig. 13.

HYGROAMBLYSTEGIUM

tenax (Hedw.) Jenn. — Poland (Suwalki reg.): REJMENT-GROCHOWSKA & MICKIEWICZ 1962, p. 4, Fig. 2 (*H. irriguum*). England (Warwickshire): LAFLIN 1971, p. 725, Map 932.

HYDROGONIUM

amplexifolium (Mitt.) Chen — Indian Peninsula: GANGULEE 1972, p. 732, Map CCXX.

arcuatum (Griff.) Wijk et Marg. — SE. Asia: GANGULEE 1972, p. 727, Map CCXIX.

consanguineum (Thwait. et Mitt.) Hilp. — SE. Asia: GANGULEE 1972, p. 727, Map CCXIX.

decolyi Gang. — SE. Asia: GANGULEE 1972, p. 732, Map CCXX.

dicranelloides Gang. — SE. Asia: GANGULEE 1972, p. 735, Map CCXXI.

ehrenbergii (Lor.) Jaeg. — Europe (S of lat. 54°N) and N. Africa: J. AMANN 1928, p. 307, Fig. 5 (*Trichostomum ehrenbergii*). Switzerland: J. AMANN 1928, p. 435, Fig. 12 (*Trichostomum ehrenbergii*). World: ABRAMOVA & ABRAMOV 1956a, p. 199.

(HYDROGONIUM contin.)

gracilentum (mitt.) Chen — SE. Asia: GANGULEE 1972, p. 727,
Map CCXIX.

javanicum (Doz. et Molk.) Hilp. — World: GANGULEE 1972, p. 738,
Map CCXXII.

pseudo-ehrenbergii (Fleisch.) Chen. — World: GANGULEE 1972, p. 738,
Map CCXXII.

subpellucidum (Mitt.) Hilp. — Indian Peninsula: GANGULEE 1972,
p. 735, Map CCXXI.

HYDROGRIMMIA

mollis (B.S.G.) Loeske — Sweden: MÖLLER 1931, p. 159. N. America
and Greenland: SCHOFIELD 1972, p. 1125, Fig. 26 (*Grimmia mollis*).

HYGROAMBLYSTEGIUM

calcareum Kanda — Japan: KANDA 1975, p. 222, Fig. 10.

fluviatile (Hedw.) Loeske — Latvia: ABOLIN 1968, p. 234. Poland
(NW. Sudet): WILCZYŃSKA 1974, p. 64, Ryc. 4.

irriguum (Hook. et Wils.) Loeske — See *H. tenax* (Hedw.) Jenn.

varium (Hedw.) Mönkem. — See *Amblystegium varium* (Hedw.) Lindb.

HYGROHYPNUM

alpestre (Hedw.) Loeske — N. America: SHARP 1939, p. 331, Fig. 4.
Canada (Quebec): KUCYNIK 1955c, p. 104. Spitzbergen: KUC 1973a,
p. 469, Fig. 72. Newfoundland: TUOMIKOSKI, KOPONEN & AHTI 1973,
p. 257, Fig. 2.

cochlearifolium (Vent.) Broth. — See *H. smithii* (Sw.) Broth.
var. *goulardii* (Schimp.) Wijk et Marg.

dilatatum (Wils.) Loeske — Iberia: CASAS DE PUIG 1975b, p. 734,
Fig. 2.

luridum (Hedw.) Jenn. — W. France: TOUFFET 1969b, p. 54, Fig. 10
(*H. palustre*). NW. Germany (Heuckenlock): FRAHM 1971, p. 9, Abb. 7
(*H. palustre*). England (Warwickshire): LAFLIN 1971, p. 726, Map 937.
Spitzbergen: KUC 1973a, p. 469, Fig. 70.

lusitanicum (Schimp.) Corb. — W. France: TOUFFET 1969b, p. 63,
Fig. 27.

(HYGROPHYNUM contin.)

mizushimae Sak. — Japan: KANDA 1975, p. 247, Fig. 20 (*Leptodictyum mizushimae*).

molle (Hedw.) Loeske — N. Yugoslavia: MARTINCIC 1966, p. 12, Abb. 4.

norvegicum (B.S.G.) Amann — Finland (Kuusamo): TUOMIKOSKI 1939, p. 112, Karte 19 (*H. viridulum*).

ochraceum (Wils.) Loeske — Iberia: CASAS DE PUIG 1975b, p. 734, Fig. 2.

polare (Lindb.) Loeske — SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 78. Spitzbergen: KUC 1973a, p. 469, Fig. 71. NW. Canada (Axel Heiberg Island): KUC 1973b, p. 100, Fig. 36. N. Canada: KUC 1973b, p. 103, Fig. 37. N. America and Greenland: BRASSARD 1975, p. 488, Fig. 1.

palustre Loeske — See *H. luridum* (Hedw.) Jenn.

smithii (Sw.) Broth. — Finland (Kuusamo): TUOMIKOSKI 1939, p. 112, Karte 19. Afghanistan: W. FREY 1972, p. 133, Abb. 2.

var. goulardii (Schimp.) Wijk et Marg. — N. America: SHARP 1939, p. 331, Fig. 4 (*H. cochlearifolium*). Spitzbergen: KUC 1973a, p. 469, Fig. 70 (*H. cochlearifolium*).

viridulum (Kindb.) Broth. — See *H. norvegicum* (B.S.G.) Amann

HYLOCOMIASTRUM

pyrenaicum (Spruce) Fleisch. — See *Hylocomium pyrenaicum* (Spruce) Lindb.

HYLOCOMIOPSIS

ovicarpa (Besch.) Card. — Japan: WATANABE 1972, p. 247, Map 2B.

HYLOCOMIUM

alaskanum (Lesq. et Jam.) Aust. — USSR (Baikal area): BARDUNOV 1965, p. 148 (*H. splendens* var. *alaskanum*). World: SCHOFIELD 1974, p. 20, Map 11.

brevirostre (Brid.) B.S.G. — Denmark: KJ. HOLMEN et al. 1959, p. 146, Fig. 108; orig. G. Skovgaard Christensen. Yugoslavia: MARTINCIC 1966, p. 34, Abb. 26 (*Loeskeobryum brevirostre*). N. Germany: PANKOW & KÜHNER 1967, Tab. 30 (*Loeskeobryum brevirostre*).

(HYLOCOMIUM contin.)

Norway (S of lat. 66°N): STÖRMER 1969, p. 193, Fig. 132. Europe, N. Africa and W. Asia: STÖRMER 1969, p. 193, Fig. 133. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 64, Ryc. 5 (*Loeskeobryum brevirostre*).

proliferum (Brid.) Lindb. — See *H. splendens* (Hedw.) B.S.G.

pyrenaicum (Spruce) Lindb. — The British Isles: WHITEHOUSE et al. 1969, p. 841; orig. Hillery H. Birks. Newfoundland: TUOMIKOSKI, KOPONEN & AHTI 1973, p. 259, Fig. 7 (*Hylacomiastrum pyrenaicum*). Japan: HÄMET-AHTI, AHTI & KOPONEN 1974, p. 82, Fig. 14. NE. Sweden, N. Norway, Finland and W. USSR: HÄMET-AHTI, AHTI & KOPONEN 1974, p. 83, Fig. 15. Europe: HÄMET-AHTI, AHTI & KOPONEN 1974, p. 83, Fig. 16.

splendens (Hedw.) B.S.G. — USA (Pa.) MOUL 1952, p. 146, Fig. 4. E. Asia: HORIKAWA 1955a, p. 36, Map 13 (*H. proliferum*). Denmark: KJ. HOLMEN et al. 1959, p. 146, Fig. 107; orig. G. Skovgaard Christensen. England (Hertfordshire): SWINSCOW 1959, p. 556, Map 5. Finland: KUJALA 1962, p. 3, Karte 2. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 87. Japan, Formosa and Korea: HORIKAWA 1971, Map 33. England (Warwickshire): LAFLIN 1971, p. 736, Map 979. World: SCHOFIELD & CRUM 1972, p. 188, Map 22. E. Asia: HORIKAWA 1972, Map 485. USSR (Moldavia): SIMONOV 1972, p. 61. The British Isles: J.H. DICKSON 1973, p. 169 (f), Fig. 80. World: SCHOFIELD 1974, p. 20, Map 10.

var. alaskanum (Lesq. et Jam.) Limpr. — See *H. alaskanum* (Lesq. et Jam.) Aust.

umbratum (Hedw.) B.S.G. — Latvia: ABOLIN 1968, p. 302. The British Isles: WHITEHOUSE et al. 1969, p. 842; orig. D.A. Ratcliffe. N. Norway, NE. Sweden, Finland and W. USSR: KOPONEN 1975, p. 60, Fig. 4.

HYMENOSTOMUM

edentulum (Mitt.) Besch. — SE. Asia: GANGULEE 1972, p. 674, Map CC.

microstomum (Hedw.) R. Br. — S. Poland: KUC 1964, p. 82, Ryc. 19 (*Weisia microstoma*). USSR (Moldavia): SIMONOV 1972, p. 25 (*Weisia microstoma*).

var. brachycarpum (Nees et Hornsch.) Hüb. — England (Warwickshire): LAFLIN 1971, p. 714, Map 888 (*Weisia microstoma* var. *brachycarpa*).

(HYMENOSTOMUM contin.)

rostellatum (Brid.) Schimp. — Poland: KUC 1964, p. 156, Ryc. 37
(Weisia rostellata).

tortile (Schwaegr.) B.S.G. — N. America: SHARP 1939, p. 337,
Fig. 20. Poland: KUC 1964, p. 22, Ryc. 4 (Weisia tortilis). SW.
Germany: DÜLL 1969, p. 294, Taf. 4. W. France: TOUFFET 1969b, p. 58,
Fig. 17. USSR (Moldavia): SIMONOV 1972, p. 25 (Weisia tortilis).

HYMENOSTYLIIUM

annotinum Mitt. ex Dix. — World: GANGULEE 1972, p. 647, Map CXC.

aurantiacum Mitt. — World: GANGULEE 1972, p. 647, Map CXC (H. recur-
virostre var. aurantiacum).

recurvirostre (Hedw.) Dix. — World: GANGULEE 1972, p. 647, Map CXC.
Spitzbergen: KUC 1973a, p. 458, Fig. 26.

var. aurantiacum (Mitt.) Gang. — See H. aurantiacum Mitt.

var. latifolium (Zett.) Wijk et Marg. — NW: Canada (Axel Heiberg
Island): KUC 1973b, p. 53, Fig. 28 (H. scabrum).

scabrum (Lindb.) Loeske — See H. recurvirostre (Hedw.) Dix. var.
latifolium (Zett.) Wijk et Marg.

HYOCOMIUM

armoricum (Brid.) Wijk et Marg. — Europe (S of lat. 62°N and W of
long. 20°E): HERZOG 1926, p. 241, Fig. 90 (H. flagellare). Europe
and W. Asia: ALLORGE 1932b, Karte 44 (H. flagellare). Norden:
DEGELIUS 1935, p. 212, Fig. 60 (H. flagellare). W. Europe (S of lat.
59°N): P. ALLORGE 1947, p. 55, Fig. 2 (H. flagellare). Europe (S of
lat. 60°N) and Asia Minor: P. ALLORGE 1947, p. 57, Fig. 3 (H. flagel-
lare). Norway (S of lat. 66°N): STÖRMER 1969, p. 229, Fig. 168.
Europe and W. Asia: STÖRMER 1969, p. 230, Fig. 169. SW. Germany:
DÜLL 1969, p. 299, Taf. 6a (H. flagellare). W. France: TOUFFET
1969b, p. 63, Fig. 28 (H. flagellare). SW. Norway (Tel., Rog.):
LYE 1970, p. 40, Fig. 18a (H. flagellare).

flagellare B.S.G. — See H. armoricum (Brid.) Wijk et Marg.

HYOPHILA

beruensis Dix. — Micronesia: MILLER, WHITTIER & BONNER 1963, Pl. 25.

comosa Dix. et P. Vard. — SE. Asia: GANGULEE 1972, p. 684, Map CCIV.

(HYOPHILA contin.)

involuta (Hook.) Jaeg. — M. Europe (the Alps) GAMS 1925, p. 23, Fig. 9 (H. riparia). M. Europe (the Alps): GAMS 1927, p. 181, Abb. 2 (H. riparia). Switzerland: J. AMANN 1928, p. 435, Fig. 12 (H. riparia). N. and M. America: SHARP 1939, p. 341, Fig. 28. M. America and S. USA: SHARP 1955, p. 223, Fig. 1 (H. tortula). USA and M. America: CRUM & ANDERSON 1958, p. 36, Fig. 9 (H. tortula). World: IWATSUKI 1958, p. 341, Fig. 3 (H. tortula). Germany (Upper Rhein reg.): PHILIPPI 1968, p. 70, Abb. 3. World: GANGULEE 1972, p. 680, Map CCIII.

kurziana Gang. — SE. Asia: GANGULEE 1972, p. 688, Map CCV.

perannulata Ren. et Card. — SE. Asia: GANGULEE 1972, p. 684, Map CCIV.

riparia (Aust.) Fleisch. — See H. involuta (Hook.) Jaeg.

rosea Williams — SE. Asia: GANGULEE 1972, p. 684, Map CCIV.

spathulata (Harv.) Jaeg. — SE. Asia: GANGULEE 1972, p. 688, Map CCV.

tortula (Schwaegr.) Hampe — See H. involuta (Hook.) Jaeg.

walkerii Broth. — World: GANGULEE 1972, p. 680, Map CCIII.

HYPNODENDRON

arborescens (Mitt.) Lindb. — SE. Asia: TOUW 1971, p. 236, Fig. 5 (H. subspiniervium ssp. arborescens).

arcuatum (Hedw.) Lindb. — New Zealand: TOUW 1971, p. 272, Fig. 19b. Tasmania, E. Australia and New Zealand: TOUW 1971, p. 276, Fig. 21 (H. spiniervium ssp. archeri and H. spiniervium ssp. spiniervium).

auricomum Broth. et Geh. ssp. auricomum — SE. Asia: TOUW 1971, p. 258, Fig. 14.

ssp. celebensis (Dix.) Touw — See *Sciadocladus celebensis* Dix.

ssp. opacum (Fleisch.) Touw — See H. opacum Fleisch.

beccarii (Hampe) Jaeg. — SE. Asia: TOUW 1971, p. 246, Fig. 8.

brevipes Broth. — SE. Asia: TOUW 1971, p. 246, Fig. 8.

caducifolium Herz. — SE. Asia: TOUW 1971, p. 246, Fig. 8 (H. reinwardtii ssp. caducifolium).

(HYPNODENDRON contin.)

camptotheca (Par.) Touw — See *Mniodendron camptotheca* Dub. ex Besch.

chalmersii Mitt. — SE. Asia: TOUW 1971, p. 337, Fig. 41 (*H. fusco-mucronata* ssp. *chalmersii*).

colensoi (Hook.f. et Wils.) Mitt. — See *Mniodendron dendroides* (Brid.) Wijk et Marg.

comatulium (Broth.) Touw — See *Mniodendron comatulium* Geh. ex Broth.

comatum (C. Müll.) Mitt. ex Touw — See *Mniodendron dendroides* (Brid.) Wijk et Marg.

comosum (Labill.) Mitt. var. comosum — See *Mniodendron dendroides* (Brid.) Wijk et Marg.

var. sieberi (C. Müll.) Touw — See *Mniodendron dendroides* (Brid.) Wijk et Marg.

dendroides (Brid.) Touw — See *Mniodendroides* (Brid.) Wijk et Marg.

diversifolium Broth. et Geh. — SE. Asia: TOUW 1971, p. 296, Fig. 28.

flagelliferum Broth. et Watts. — SE. Asia: TOUW 1971, p. 246, Fig. 8.

fusco-mucronatum (C. Müll.) Jaeg. ssp. chalmersii (Mitt.) Touw — See *H. chalmersii* Mitt.

ssp. fusco-mucronatum — See *Mniodendron fusco-mucronatum* (C. Müll.) Broth.

junghuhnii (C. Müll.) Lindb. — SE. Asia and N. Australia: TOUW 1971, p. 284, Fig. 24.

kerrii (Mitt.) Par. — See *Sciadocladus kerrii* (Mitt.) Broth.

marginatum (Hook.f. et Wils.) Lindb. — New Zealand: TOUW 1971, p. 272, Fig. 19c.

menziesii (Hook.) Par. ssp. menziesii — See *Sciadocladus menziesii* (Hook.) Broth.

ssp. splendidum (Besch.) Touw — See *Sciadocladus splendidus* (Besch.) Jaeg. ex Broth.

microstictum Mitt. — S. America: TOUW 1971, p. 279, Fig. 22b.

(HYPNODENDRON contin.)

milnei Mitt. ssp. korthalsii (Bosch et Lac. ex Par.) Touw — See *Mniodendron korthalsii* Bosch et Lac.

ssp. milnei — See *Mniodendron milnei* (Mitt.) Mitt.

ssp. parvum (C. Müll.) Touw — See *H. parvum* (C. Müll.) Dix.

opacum Fleisch. — SE. Asia: TOUW 1971, p. 258, Fig. 14 (*H. auricomum* ssp. opacum).

parvum (C. Müll.) Dix. — SE. Asia: TOUW 1971, p. 303, Fig. 31 (*H. milnei* ssp. parvum).

reinwardtii (Reinw. et Hornsch.) Lindb. — SE. Asia: TOUW 1971, p. 246, Fig. 8 (ssp. reinwardtii).

ssp. caducifolium (Herz.) Touw — See *H. caducifolium* Herz.

spininervium (C. Müll.) Jaeg. ssp. archeri (Mitt.) Touw — See *H. arcuatum* (Hedw.) Lindb.

ssp. spininervium — See *H. arcuatum* (Hedw.) Lindb.

subspininervium (C. Müll.) Jaeg. ssp. arborescens (Mitt.) Touw — See *H. arborescens* (Mitt.) Lindb.

ssp. subspininervium — SE. Asia: TOUW 1971, p. 236, Fig. 5.

vitiense Mitt. ssp. australe Touw — Tasmania and E. Australia: TOUW 1971, p. 279, Fig. 22a.

ssp. vitiense — SE. Asia and N. Australia: TOUW 1971, p. 284, Fig. 24.

HYPNUM

aduncoides (Brid.) C. Müll. — World: ANDO 1971, p. 192, Fig. 1. World: ANDO 1972, p. 86, Fig. 12.

aemulans Breidl. — See *H. hamulosum* B.S.G. var. aemulans (Breidl.) Podp.

amabile (Mitt.) Hampe — World: ANDO 1971, p. 192, Fig. 1. World: ANDO 1972, p. 86, Fig. 12.

bambergeri Schimp. — Finland (Kuusamo): TUOMIKOSKI 1939, p. 112, Karte 19. Canada and Greenland: KUCYNIK 1950, p. 310, Fig. 2. The British Isles: WHITEHOUSE et al. 1969, p. 840; orig. Hillery H. Birks. N. America, Greenland and Iceland: SCHOFIELD 1972, p. 1120,

(HYPNUM contin.)

Fig. 6. World: ANDO 1972, p. 79, Fig. 6. Spitzbergen: KUC 1973a, p. 472, Fig. 81. Newfoundland: TUOMIKOSKI, KOPONEN & AHTI 1973, p. 258, Fig. 5.

calcicola Ando — Japan: ANDO 1958, p. 170, Fig. 17. World: ANDO 1972, p. 84, Fig. 11.

callichroum Brid. — World: ANDO 1972, p. 83, Fig. 10. Spitzbergen: KUC 1973a, p. 472, Fig. 82. N. Canada: KUC 1973b, p. 114, Fig. 42.

ssp. japonicum Ando — World: ANDO 1972, p. 83, Fig. 10.

chrysogaster C. Müll. — See *H. cupressiforme* Hedw. var. *chrysogaster* (C. Müll.) Sainsb.

circinale Hook. — World: ANDO 1972, p. 77, Fig. 5.

crista-castrensis L. ex Hedw. — See *Ptilium crista-castrensis* (Hedw.) De Not.

cupressiforme Hedw. — World: WISNIEWSKI 1930, Pl. 51 (*Drepanium cupressiforme*). Sweden (Stockholm reg.): SKYE 1968, p. 60, Fig. 59. England (Warwickshire): LAFLIN 1971, p. 734, Map 971. Japan and Korea: ANDO 1972, p. 74, Fig. 3.

ssp. imponens (Hedw.) Boul. — N. Germany: PANKOW & KÜHNER 1967, Tab. 29 (*H. imponens*). World: ANDO 1972, p. 75, Fig. 4 (*H. imponens*). N. America and Greenland: SCHOFIELD 1972, p. 1121, Fig. 10 (*H. imponens*). Newfoundland: TUOMIKOSKI, KOPONEN & AHTI 1973, p. 259, Fig. 6 (*H. imponens*).

ssp. resupinatum (Tayl.) C. Hartm. — NE. Germany: KÜHNER & PANKOW 1967, p. 173, Abb. 6 (*H. resupinatum*). Germany (Schlesw.-Holst.): FRAHM & WALSEMANN 1973, p. 157 (*H. resupinatum*).

var. chrysogaster (C. Müll.) Sainsb. — World: ANDO 1972, p. 77, Fig. 5 (*H. chrysogaster*).

var. ericetorum B.S.G. — NW. Netherlands (Alkmar reg.): BARKMAN 1941, p. 336, Fig. 7. England (Warwickshire): LAFLIN 1971, p. 735, Map 973.

var. resupinatum (Tayl.) Schimp. — England (Warwickshire): LAFLIN 1971, p. 735, Map 972.

(HYPNUM contin.)

cupressiforme Hedw. var. tectorum Brid. — See *H. cupressiforme* Hedw. f. tectorum (Brid.) Mönkem.

f. tectorum (Brid.) Mönkem. — England (Warwickshire) LAFLIN 1971, p. 735, Map 974 (*H. cupressiforme* var. tectorum).

curvifolium Hedw. — World: ANDO 1971, p. 192, Fig. 1. World: ANDO 1972, p. 86, Fig. 12.

darjeelingense Ando — World: ANDO 1972, p. 87, Fig. 13.

densirameum Ando — Japan: ANDO 1957, p. 17, Fig. 14. World: ANDO 1972, p. 84, Fig. 11.

dieckeii Ren. et Card. — Japan: HORIKAWA & ANDO 1957, p. 226, Fig. 1. E. Asia and N. America: HORIKAWA & ANDO 1957, p. 230, Fig. 3. E. Asia and N. America: SCHOFIELD 1965, p. 19, Map 6. World: ANDO 1972, p. 80, Fig. 7.

dolomiticum Mild. — See *H. revolutum* (Mitt.) Lindb. var. dolomiticum (Mild.) Mönkem.

elatum Dix. — World: ANDO 1972, p. 77, Fig. 5.

emodi-fertile Lev. — World: ANDO 1972, p. 83, Fig. 10.

erectiusculum Sull. et Lesq. — See *Pylaisia erectiuscula* (Sull. et Lesq.) Mitt.

fastigiatum Brid. — See *H. ravaudii* Boul. ssp. fastigiatum (Brid.) Wijk et Marg.

fauriei Card. — Japan and Korea: ANDO 1957, p. 12, Fig. 11. World: ANDO 1972, p. 84, Fig. 11.

fertile Sendtn. — Yugoslavia: MARTINCIC 1966, p. 43, Abb. 22. World: ANDO 1972, p. 84, Fig. 11.

fujiiyamae (Broth.) Par. — Japan: ANDO 1957, p. 7, Fig. 7. World: ANDO 1972, p. 75, Fig. 4.

hamulosum B.S.G. — The British Isles: WHITEHOUSE et al. 1970, p. 156; orig. A.C. Crundwell & A.McG. Stirling. World: ANDO 1972, p. 82, Fig. 9.

var. aemulans (Breidl.) Podp. — World: ANDO 1972, p. 83, Fig. 10 (*H. aemulans*).

(HYPNUM contin.)

homaliaceum (Besch.) Doign. — Japan: ANDO 1958, p. 201, Fig. 34.

Japan (Quelpart Island): WON & ANDO 1963, p. 197, Fig. 4.

imponens Hedw. — See *H. cupressiforme* Hedw. ssp. *imponens* (Hedw.) Boul.

leptothallum (C. Müll.) Par. — See *Homomallium leptothallum* (C. Müll.) Nog.

lindbergii Mitt. — England (Warwickshire): LAFLIN 1971, p. 735, Map 975. World: ANDO 1972, p. 80, Fig. 7.

longicollum (Broth. et Geh.) Ando — See *Ectropothecium longicollum* Broth. et Geh.

mac-gregori (Broth. et Geh.) Ando — See *Ectropothecium mac-gregorii* Broth. et Geh.

macrogynum Besch. — See *H. plumaeforme* Wils.

maculosum (Dix.) Ando — See *Camptochaete maculosa* (Dix.) Sainsb.

nervosum Dix. — World: ANDO 1972, p. 83, Fig. 10 (*H. subimponens* ssp. *ulophyllum*).

oldhamii (Mitt.) Jaeg. — Japan: ANDO 1958, p. 196, Fig. 31. World: ANDO 1972, p. 87, Fig. 13.

pallescent (Hedw.) P. Beauv. — USA (N.C.): CROSBY & ANDERSON 1967, p. 305, Fig. 2. World: ANDO 1972, p. 72, Fig. 2. USSR (Moldavia): SIMONOV 1972, p. 61.

percrassum Ando — See *H. pseudorevolutum* Reim.

plicatulum (Lindb.) Jaeg. — World: ANDO 1972, p. 82, Fig. 9.

plumaeforme Wils. — E. Asia: ANDO 1958, p. 182, Fig. 22. Japan: ANDO 1958, p. 182, Fig. 23. World: ANDO 1971, p. 192, Fig. 1 (*H. plumaeforme* and *H. macrogynum*). World: ANDO 1972, p. 86, Fig. 12. World: ANDO 1972, p. 86, Fig. 12 (*H. macrogynum*).

var. minus Broth. ex Ihs. — Japan: ANDO 1958, p. 182, Fig. 23.

polypterum (Mitt.) Broth. — World: ANDO 1972, p. 87, Fig. 13.

pratense (Rabenh.) Hartm. — E. Germany, Poland, Czechoslovakia and E. Prussia: SZAFRAN 1948, p. 60, Ryc. 33 (*Breidleria pratensis*). SW. Poland: KUC 1956, p. 636, Fig. 2. Poland (Upper Wislok):

(HYPNUM contin.)

WACLAWSKA 1957, p. 98, Fig. 2. Poland (Lower Nida): WACLAWSKA 1964, p. 368, Fig. 1. S. Poland: KUC 1964, p. 179, Ryc. 42. S. Poland (W. Carpathians): LISOWSKI & KORNAŚ 1966, p. 70, Fig. 11. Latvia: ABOLIN 1968, p. 296. World: ANDO 1972, p. 81, Fig. 8. Spitzbergen: KUC 1973a, p. 472, Fig. 83.

procerrimum Mol. — See *Pseudostereodon procerrimus* (Mol.) Fleisch.

pseudorevolutum Reim. — Japan and Korea: ANDO 1957, p. 12, Fig. 11 (H. *percrassum*).

ravaudii Boul. ssp. fastigiatum (Brid.) Wijk. et Marg. — N. Sweden, N. Norway, Finland and W. USSR: KOTILAINEN 1929, Karte 12 (H. *fastigiatum*). Sweden (Nrsk.): WALDHEIM 1935a, p. 138, Fig. 5 (*Stereodon fastigiatus*).

recurvatum (Lindb. et Arn.) Kindb. — Europe (N of lat. 42°N): J. AMANN 1928, p. 312, Fig. 7.

resupinatum Wils. — See *H. cupressiforme* Hedw. ssp. *resupinatum* (Tayl.) C. Hartm.

revolutum (Mitt.) Lindb. — Finland (Kuusamo): TUOMIKOSKI 1939, p. 112, Karte 19. Yugoslavia: MARTINCIC 1966, p. 12, Abb. 3. World: ANDO 1972, p. 72, Fig. 2. Afghanistan: W. FREY 1972, p. 133, Abb. 2. The British Isles: J.H. DICKSON 1973, p. 162 (+f), Fig. 75.

var. dolomiticum (Mild.) Mönkem. — World: ANDO 1972, p. 72, Fig. 2 (H. *dolomiticum*).

saitoi Ando — World: ANDO 1972, p. 75, Fig. 4.

sakuraii (Sak.) Ando — Japan: ANDO 1958, p. 189, Fig. 27. World: ANDO 1972, p. 87, Fig. 13.

var. venustum Ando — Japan: ANDO 1958, p. 189, Fig. 27.

sauteri Schimp. — World: ANDO 1972, p. 72, Fig. 2.

sikkimense Ando — World: ANDO 1972, p. 84, Fig. 11.

skottsbergii Ando — World: ANDO 1972, p. 75, Fig. 4.

spinulosum Sull. et Lesq. — Japan: IWATSUKI 1965, p. 207, Map 1 (*Sharpiella spinulosa*).

subchrysogaster (Broth.) Par. — World: ANDO 1972, p. 77, Fig. 5.

(HYPNUM contin.)

subimponens Lesq. — Japan: HORIKAWA & ANDO 1957, p. 226, Fig. 1.
E. Asia and N. America: HORIKAWA & ANDO 1957, p. 230, Fig. 3.
E. Asia and N. America: SCHOFIELD 1965, p. 19, Map 5. World: ANDO
1972, p. 83, Fig. 10.

ssp. ulophyllum (C. Müll.) Ando — See *H. binervosum* Dix.

submolluscoides Ando — World: ANDO 1972, p. 84, Fig. 11.

submolluscum Besch. — World: ANDO 1972, p. 84, Fig. 11.

trifarium Web. et Mohr — See *Calliergon trifarium* (Web. et Mohr)
Kindb.

tristo-viride (Broth.) Par. — Japan and Corea: ANDO 1956, p. 151,
Fig. 3. World: ANDO 1972, p. 77, Fig. 5.

turgens (C. Müll.) Par. — World: SCHOFIELD & CRUM 1972, p. 184,
Map 12 (*Gollania turgens*).

uncinatum Jur. — World: ANDO 1972, p. 77, Fig. 5.

vaucheri Lesq. — Jugoslavia: MARTINCIC 1966, p. 27, Abb. 12.
Spitzbergen: KUC 1973a, p. 472, Fig. 83. The British Isles: J.H.
DICKSON 1973, p. 162 (+f), Fig. 75.

HYOPTERYGIUM

fauriei Besch. — E. Asia and N. America: SCHOFIELD 1965, p. 18,
Map 2.

japonicum Mitt. — Alaska and British Columbia: PERSSON 1946, p.
p. 322, Fig. 2.

INDUSIELLA

thianschanica Broth et C. Müll. — USSR: ABRAMOVA 1956a, p. 190.
Europe and Asia: BARDUNOV 1965, p. 71. Europe and Asia: ABRAMOV
1969, p. 40. Europe and Asia: BARDUNOV 1974, p. 97.

ISOPTERYGIUM

albescens (Hook.) Jaeg. — Asia, Australia and New Zealand: WANG
1970, p. 403, Fig. 22.

alternans Card. — N. America: IRELAND 1969a, p. 118, Fig. 8
(*Taxiphyllum alternans*).

(ISOPTERYGIUM contin.)

cuspidifolium Card. — N. America: IRELAND 1969a, p. 118, Fig. 8
(*Taxiphyllum cuspidifolium*).

densifolium Lindb. ex Broth. — See *Taxiphyllum densifolium* (Broth.)
Reim.

depressum (Brid.) Mitt. — See *Taxiphyllum wissgrillii* (Garov.)
Wijk et Marg.

distichaceum (Mitt.) Jaeg. — N. America: IRELAND 1969a, p. 116,
Fig. 6.

elegans (Brid.) Lindb. — S. Poland (W. Carpathians): SZAFRAN 1965,
p. 606, Fig. 1. Norway: STÖRMER 1969, p. 110, Fig. 58. Europe and
W. Asia: STÖRMER 1969, p. 111, Fig. 59. N. America: IRELAND 1969a,
p. 116, Fig. 6. England (Warwickshire): LAFLIN 1971, p. 733,
Map 965. Denmark: LEWINSKY 1974a, p. 213. Poland (Silesia):
BERDOWSKI 1974, p. 33, Mapa 7.

var. nanum (Jur.) Jaeg. — Poland (Silesia): BERDOWSKI 1974, p. 20,
Mapa 3.

micans (Sw.) Kindb. — E. Asia, N. and S. America: IWATSUKI 1958,
p. 342, Fig. 4.

müllerianum (Schimp.) Jaeg. — Alaska and British Columbia: PERSSON
1946, p. 322, Fig. 2. Norway (S of lat. 66°N): STÖRMER 1969, p. 195,
Fig. 135. Europe and W. Asia: STÖRMER 1969, p. 196, Fig. 136.
N. America: IRELAND 1969a, p. 117, Fig. 7. World: LEWINSKY 1974b,
p. 76, Fig. 7.

piliferum (Hartm.) Loeske — World: PERSSON 1952, p. 109, Fig. 1
(*Plagiotheciella pilifera*). N. America: IRELAND 1969, p. 111, Fig. 1
(*Plagiothecium piliferum*).

pulchellum (Hedw.) Jaeg. — SW. Spitzbergen (Hornsund): KUC 1963a,
Fig. 84. N. America: IRELAND 1969a, p. 115, Fig. 5. Spitzbergen:
KUC 1973a, p. 471, Fig. 80.

seligeri (Brid.) Loeske — The British Isles: WHITEHOUSE et al.
1963, p. 520; orig. E.C. Wallace. N. America: IRELAND 1969a, p. 114,
Fig. 4 (*Sharpiella seligeri*). W. France: TOUFFET 1969b, p. 54,
Fig. 10 (*Dolichotheca silesiaca*). Denmark: LEWINSKY 1974a, p. 213
(*Sharpiella seligeri*).

(ISOPTERYGIUM contin.)

tenerum (Sw.) Mitt. — N. America: IRELAND 1969a, p. 115, Fig. 5.

turfaceum (Lindb.) Lindb. — Japan: IWATSUKI 1965, p. 207, Map 1 (Sharpiella turfacea). N. America: IRELAND 1969a, p. 114, Fig. 4 (Sharpiella turfacea). Newfoundland: TUOMIKOSKI, KOPONEN & AHTI 1973, p. 257, Fig. 2 (Herzogiella turfacea).

ISOTHECIUM

eu-myosuroides Dix. — See I. myosuroides Brid.

filesdens (Brid.) Mönkem. — See Oxyrrhynchium schleicheri (Hedw.) Röll.

holtii Kindb. — See I. myosuroides Brid. var. rivulare Limpr.

myosuroides Brid. — Switzerland: J. AMANN 1928, p. 433, Fig. 11. N. Norway: H. PERSSON 1939, p. 115 (I. eu-myosuroides). Denmark: KJ. HOLMEN et al. 1959, p. 145, Fig. 105; orig. J. Gernaa. N. Germany: PANKOW & KÜHNER 1967, Tab. 18. Norway: STÖRMER 1969, p. 66, Fig. 24. Europe, N. Africa and W. Asia: STÖRMER 1969, p. 66, Fig. 25. England (Warwickshire): LAFLIN 1971, p. 727, Map 941.

var. rivulare Limpr. — Norway (S of lat. 66°N): STÖRMER 1969, p. 249, Fig. 188 (I. holtii). Europe: STÖRMER 1969, p. 250, Fig. 189 (I. holtii). W. France: TOUFFET 1969b, p. 63, Fig. 27 (I. holtii).

myurum Brid. — Finland (Kuusamo): TUOMIKOSKI 1939, p. 104, Karte 13 (I. viviparum). Denmark: KJ. HOLMEN et al. 1959, p. 145, Fig. 104, orig. J. Gernaa. England (Warwickshire): LAFLIN 1971, p. 727, Map 940.

striatulum (Spruce) Kindb. — See Plasteurhynchium striatulum (Spruce) Fleisch.

viviparum (Neck.) Lindb. — See I. myurum Brid.

JAAGERINA

scariosa (Lor.) Arz. — El Salvador: WINKLER 1964-65, p. 508, Abb. 3 (Jaegerinopsis scariosa).

JAAGERINOPSIS

scariosa (Lor.) Broth. — See Jaegerina scariosa (Lor.) Arz.

JAFFUELIQBRYUM

latifolium Thér. — Europe and Asia: BARDUNOV 1974, p. 102.

KIAERIA

blyttii (B.S.G.) Broth. — Spitzbergen: KUC 1973a, p. 456, Fig. 20.

falcata (Hedw.) Hag. — Jugoslavia: MARTINCIC 1966, p. 13, Abb. 5.

glacialis (Berggr.) Hag. — Finland (Kuusamo): TUOMIKOSKI 1939, p. 112, Karte 18. Alaska and Yukon: PERSSON 1949, p. 524, Fig. 8 (Dicranum glaciale). N. Hemisphere: PERSSON 1949, p. 525, Fig. 9 (Dicranum glaciale). N. Hemisphere: PERSSON & GJAEREVOLL 1957, p. 51, Fig. 4. Spitzbergen: KUC 1973a, p. 457, Fig. 21.

LEPTOBARBULA

berica (De Not.) Schimp. — Europe, Asia and N. Africa: ABRAMOV 1969, p. 39.

LEPTOBRYUM

escomelii Thér. — World: GANGULEE 1974, p. 897, Map CCLXXVI.

pottiaceum Dus. — World: GANGULEE 1974, p. 897, Map CCLXXVI.

pyriforme (Hedw.) Wils. — USA (Calif.): KOCH 1954, p. 524, Fig. 1. Japan and Formosa: OCHI 1959, p. 107, Map 1. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 64. England (Warwickshire): LAFLIN 1971, p. 716, Map 897. Spitzbergen: KUC 1973a, p. 463, Fig. 46. World: GANGULEE 1974, p. 897, Map CCLXXVI.

sericeum Kindb. — World: GANGULEE 1974, p. 897, Map CCLXXVI.

stellatum (Herz.) Broth. — World: GANGULEE 1974, p. 897, Map CCLXXVI.

wilsonii (Mitt.) Broth. — World: GANGULEE 1974, p. 897, Map CCLXXVI.

LEPTODICTYUM

bandaiense (Tak.) Kanda — See Campylium hispidulum (Brid.) Mitt.

kochii (B.S.G.) Warnst. — Japan: KANDA 1975, p. 247, Fig. 20.

mizushima (Sak.) Kanda — See Hygrohypnum mizushima Sak.

radicale (P. Beauv.) Kanda — See Campylium radicale (P. Beauv.) Grout.

riparium (Hedw.) Warnst. — England (Warwickshire): LAFLIN 1971, p. 724, Map 931. USSR (Moldavia): SIMONOV 1972, p. 47. Japan: KANDA 1975, p. 242, Fig. 18.

LEPTODON

smithii (Hedw.) Web. et Mohr — Switzerland: J. AMANN 1928, p. 431, Fig. 10. N. Italy: GIACOMINI 1951, p. 101, Carta 7. Slovakia: PILOUS 1957b, p. 244, Obr. 2. Europe: PÓCS 1960, p. 170. World: PÓCS 1960b, p. 170. The British Isles: WHITEHOUSE et al. 1964, p. 744; orig. M.C.F. Proctor. World: MARTINCIC 1966, p. 53, Abb. 29. Jugoslavia: MARTINCIC 1966, p. 61, Abb. 34. World: NELSON 1973, p. 435, Fig. 1. W. France: WATTEZ 1974, p. 332.

trichomitrius (Hedw.) Mohr — See *Forsstroemia trichomitria* (Hedw.) Lindb.

LEPTODONTIUM

excelsum (Sull.) Britt. — See *L. viticulosoides* (P. Beauv.) Wijk et Marg.

flexifolium (With.) Hampe — Europe: HERZOG 1932, Karte 50. Europe: HERZOG 1932, Karte 50 (*L. gemmascens*). Germany (Schlesw.-Holst.): N. JENSEN 1955, p. 87, Karte 5. Benelux: MUYLDERMANS 1959, p. 66. Belgium: DEMARET & CASTAGNE 1964, p. 282, Fig. 111. W. France: TOUFFET 1969b, p. 62, Fig. 25. World: ZANDER 1972, p. 222, Fig. 21. Europe: FRAHM 1975a, p. 415, Abb. 1. W. and N. Germany: FRAHM 1975, p. 422, Abb. 4. Germany (Schlesw.-Holst.): FRAHM 1975a, p. 424, Abb. 5 and Abb. 6. Europe: FRAHM 1975a, p. 415, Abb. 1 (*L. gemmascens*).

var. americanum (Grout) Grout — USA (E. part) and M. America: SHARP 1939, p. 336, Fig. 16 (*L. orcuttii*). World: SCHOFIELD & CRUM 1972, p. 183, Map 8 (*L. orcuttii*).

handelii Thér. — World: GANGULEE 1972, p. 782, Map CCXXXVIII.

interruptum (Mitt.) Broth. — World: HERZOG 1932, Karte 49.

longicaule Mitt. — America and Africa: ZANDER 1972, p. 222, Fig. 24.

norvegicum Kaal. — Europe: HERZOG 1932, Karte 50.

orcuttii Bartr. — See *L. flexifolium* (With.) Hampe var. *americanum* (Grout) Grout

pungens (Mitt.) Kindb. — America and Africa: ZANDER 1972, p. 222, Fig. 23.

(LEPTODONTIUM contin.)

recurvifolium (Tayl.) Lindb. — Europe: HERZOG 1932, Karte 50. The British Isles: WHITEHOUSE et al. 1963, p. 521; orig. D.A. Ratcliffe. World: SCHOFIELD & CRUM 1972, p. 188, Map 24. Europe: FRAHM 1975a, p. 415, Abb. 1.

styriacum (Jur.) Limpr. — Switzerland: J. AMANN 1928, p. 437, Fig. 13. Europe: HERZOG 1932, Karte 50. Europe and Asia: BARDUNOV 1974, p. 37. Europe: FRAHM 1975, p. 415, Abb. 1.

viticulosoides (P. Beauv.) Wijk et Marg. — USA (E. part) and M. America: SHARP 1939, p. 336, Fig. 16 (L. excelsum). World: ZANDER 1972, p. 222, Fig. 22. World: GANGULEE 1972, p. 782, Map CCXXXVIII.

LEPTOTHECA

gaudichaudii Schwaegr. — S. Georgia: CLARKE 1973, p. 55, Fig. 2.

LEPYRODON

lagurus (Hook.) Mitt. — World: IRMSCHER 1929, Fig. 13, Taf. 15.

tomentosus (Hook.) Mitt. — World (S of lat. 40°N): SEKI 1974, p. 93, Fig. 12.

LESCURAEA

incurvata (Hedw.) Lawton — N. Sweden, N. Norway, Finland and W. USSR: KOTILAINEN 1929, Karte 8 (Pseudoleskea filamentosa). N. America: STEERE 1937b, p. 10, Fig. 3 (Pseudoleskea oligoclada). Finland and W. USSR: TUOMIKOSKI 1939, p. 68, Karte 7 (Pseudoleskea filamentosa). S. Poland (W. Carpathians): LISOWSKI & KORNAŚ 1966, p. 70, Fig. 11 (Pseudoleskea atrovirens). Germany (Thüringen): MEINUNGER 1975, p. 234, Karte 12 (Pseudoleskea incurvata).

mutabilis (Brid.) Hag. — S. Poland (W. Carpathians): LISOWSKI & KORNAŚ 1966, p. 68, Fig. 9 (L. striata).

plicata (Web. et Mohr) Broth. — Europe: MARTINCIC 1966, p. 11, Abb. 2 (Ptychodium plicatum). Germany (Thüringen): MEINUNGER 1975, p. 236, Karte 14 (Ptychodium plicatum).

radiosa (Mitt.) Mönkem. — Finland and W. USSR: TUOMIKOSKI 1939, p. 70, Karte 8 (Pseudoleskea radicata).

striata (Schwaegr.) B.S.G. — See L. mutabilis (Brid.) Hag.

LESKEA

catenulata (Schrad.) Mitt. — See *Pseudoleskeella catenulata* (Schrad.) Kindb.

nervosa (Brid.) Myr. — See *Leskeella nervosa* (Brid.) Loeske

obscura Hedw. (incl. polycarpa Ehr. ex Hedw.) — Canada (Winnipeg): STRINGER & STRINGER 1974, p. 416, Fig. 8.

polycarpa Ehrh. ex Hedw. — Denmark: KJ. HOLMEN et al. 1959, p. 140, Fig. 86; orig. Kjeld Holmen. NW. Germany (Heuckenlock): FRAHM 1971, p. 8, Abb. 2. England (Warwickshire): LAFLIN 1971, p. 723, Map 926. USSR (Moldavia): SIMONOV 1972, p. 43. Canada (Montréal reg.): LeBLANC & SLOOVER 1972, p. 35. Canada (Montréal reg.): GRANGER 1972, p. 79, Fig. E-11.

tectorum (Brid.) Lindb. — See *Leskeella tectorum* (Brid.) Hag.

LESKEELLA

nervosa (Brid.) Loeske — Denmark: KJ. HOLMEN et al. 1959, p. 141, Fig. 87; orig. Kjeld Holmen. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 74 (*Leskea nervosa*). Sweden (Stockholm reg.): KRUSENSTJERNA 1964, p. 13, Fig. 2. USSR (Moldavia): SIMONOV 1972, p. 43. N. Hemisphere: LEWINSKY 1974c, p. 603, Fig. 6.

tectorum (Brid.) Hag. — Spitzbergen: KUC 1973a, p. 468, Fig. 65 (*Leskea tectorum*). N. Hemisphere: LEWINSKY 1974c, p. 608, Fig. 18 (*Pseudoleskeella tectorum*).

LEUCOBRYUM

aduncum Doz. et Molk. — SE. Asia: GANGULEE 1971, p. 428, Map CXXXII.

albidum (P. Beauv.) Lindb. — N. America: SHARP 1939, p. 341, Fig. 29. USA (Pa.): MOUL 1952, p. 150, Fig. 10. M. America: ROBINSON 1965, p. 92, Fig. 23 (*L. incurvifolium*).

boryanum Besch. — Madagascar: JOVET-AST 1948, p. 49, Fig. 3.

bowringii Mitt. — Japan and Formosa: HORIKAWA 1952b, p. 90, Map 18. SE. Asia: GANGULEE 1971, p. 418, Map CXXIX.

cucullifolium Card. — World: GANGULEE 1971, p. 421, Map CXXX.

glaucum (Hedw.) Ångstr. — NW. Netherlands (Alkmar reg.): BARKMAN 1941, p. 337, Fig. 10. Hungary: BOROS & IGMÁNDY 1943, p. 242 and 243. Sweden (S. half): PERSSON 1943, p. 163, Fig. 1. Denmark:

(LEUCOBRYUM contin.)

CHRISTENSEN 1947, p. 218, Fig. 2. USA (Pa.): MOUL 1952, p. 147, Fig. 6. Europe and W. Asia: STÖRMER 1969, p. 115, Fig. 62. Norway (S of lat. 67°N): STÖRMER 1969, p. 114, Fig. 61. Hungary: DEBRECZY & HARGITAI 1971, p. 129, Abb. 7. Denmark: RASMUSSEN 1973, p. 138, Fig. 1. Estonia: KALDA 1973, p. 291, Joon 2. Sweden (Sm., Bjur-kärr): NICKLASSON 1974, Fig. 8. Norway (VAgd. and AuAgd.): PEDERSEN 1974, p. 188, Fig. 4.

incurvifolium C. Müll. — See *L. albidum* (P. Beauv.) Lindb.

javense (Brid.) Mitt. — SE. Asia: GANGULEE 1971, p. 428, Map CCXXII.

juniperoideum (Brid.) C. Müll. — Europe: PILOUS 1962, p. 173, Karte 1. Czechoslovakia: PILOUS 1962, p. 174, Karte 2. Turkey and Caucasus: PILOUS 1965, p. 19. World: GANGULEE 1971, p. 421, Map CXXX. Denmark: RASMUSSEN 1973, p. 138, Fig. 2.

mittenii Besch. — SE. Asia: GANGULEE 1971, p. 424, Map CXXXI.

neilgherrense C. Müll. — SE. Asia: GANGULEE 1971, p. 424, Map CXXXI (*L. nilghiriense*).

nilghiriense C. Müll. — See *L. neilgherrense* C. Müll.

sanctae-mariae Card. — Madagascar: JOVET-AST 1948, p. 49, Fig. 3.

sanctum (Brid.) Hampe — SE. Asia: GANGULEE 1971, p. 418, Map CXXXI.

scabrum Lac. — E. Asia: HORIKAWA 1972, Map 471.

scalare C. Müll. ex Fleisch. — SE. Asia: GANGULEE 1971, p. 431, Map CXXXIII.

LEUCODON

sciuroides (Hedw.) Schwaegr. — Sweden: MÖLLER 1912, p. 72. Denmark: KJ. HOLMEN et al. 1959, p. 138, Fig. 75; orig. J. Gernaa. Sweden (Stockholm reg.): SKYE 1968, p. 60, Fig. 60. Poland (Warsaw distr.): MICKIEWICZ 1968, p. 625, Ryc 5 (*L. sciuroides* f. *gemnifera*). England (Warwickshire): LAFLIN 1971, p. 722, Map 922. USSR (Moldavia): SIMONOV 1972, p. 43. Germany (Schlesw.-Holst.): FRAHM & WALSE-MANN 1973, p. 121. The British Isles: WHITEHOUSE et al. 1975b, p. 502; orig. F. Rose.

var. morensis (Schwaegr.) De Not. — Sweden: MÖLLER 1912, p. 72.

secundus (Harv.) Mitt. — SE. Asia: WANG 1970, p. 410, Fig. 37.

LEUCOLOMA

albocinctum Ren. et Card. — Madagascar: JOVET-AST 1948, p. 49, Fig. 3.

amoene-virens Mitt. — SE. Asia: GANGULEE 1971, p. 408, Map CXXV.

chrysobasilare (C. Müll.) Jaeg. — Madagascar: JOVET-AST 1948, p. 49, Fig. 3.

convolutaceum Ren. — Madagascar: JOVET-AST 1948, p. 49, Fig. 3.

rutenbergii (Geh.) Wright — Madagascar: JOVET-AST 1948, p. 51, Fig. 4.

taylorii (Schwaegr.) Mitt. — SE. Asia: GANGULEE 1971, p. 408, Map CXXV.

LEUCOPHANES

albescens C. Müll. — SE. Asia: GANGULEE 1971, p. 434, Map CXXXV.

glaucescens C. Müll. ex Fleisch. — SE. Asia: GANGULEE 1971, p. 434, Map CXXXV.

glauculum C. Müll. ex Fleisch. — SE. Asia, Australia and Oceania: MILLER, WHITTIER & BONNER 1963, Pl. 28.

nicobaricum C. Müll. ex Gang. — SE. Asia: GANGULEE 1971, p. 437, Map CXXXVI.

octoblepharoides Brid. — SE. Asia: GANGULEE 1971, p. 437, Map CXXXVI.

smaragdinum (Mitt.) Jaeg. — SE. Asia, Australia and Oceania: MILLER, WHITTIER & BONNER 1963, Pl. 29.

LINDBERGIA

brachyptera (Mitt.) Kindb. — USA: CRUM 1956, p. 209, Fig. 8.

LOESKEOBRYUM

brevirostre (Brid.) Fleisch. — See *Hylocomium brevirostre* (Brid.) B.S.G.

LOESKYPNUM

wickesii (Grout) Tuom. — See *Calliergus wickesii* Grout

LYDIAEA

vlasovii (Laz.) Laz. — Europe and Asia: ABRAMOV 1969, p. 41.

Europe and Asia: ABRAMOVA & ABRAMOV 1964, p. 244.

LYELLIA

aspera (Hag. et C. Jens.) Frye — N. Hemisphere: STEERE 1956, p.166, Fig. 9 (*Philocrya aspera*). N. Hemisphere: SMIRNOVA 1958, p. 854. World: ABRAMOVA & ABRAMOV 1966, p. 307. World: GANGULEE 1969, p.91, Map XXIII. N. Hemisphere: G.L. SMITH 1971, p. 59, Fig. 90. Greenland and N. America: BRASSARD 1971, p. 268, Fig. 24 (*Philocrya aspera*). NW. Canada (Axel Heiberg Island): KUC 1973b, p. 36, Fig.11 (*Philocrya aspera*). N. Canada: KUC 1973b, p. 40, Fig. 13 (*Philocrya aspera*).

crispa R. Br. — World: GANGULEE 1969, p. 91. Map XXIII. N. Hemisphere: G.L. SMITH 1971, p. 59, Fig. 90.

lescurii (James) Salm. — USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 220 (*Bartramiopsis lescurii*). E. Asia: HORIKAWA 1955, p. 58, Map 5a (*Bartramiopsis lescurii*). E. Asia and N. America: SCHOFIELD 1965, p. 20, Map 7 (*Bartramiopsis lescurii*). Japan: OSADA 1966, p. 45, Map 20a (*Bartramiopsis lescurii*). World: GANGULEE 1969, p. 91, Map XXIII. Japan: IWATSUKI 1972b, p. 123, Fig. 11 (*Bartramiopsis lescurii*). World: IWATSUKI 1972b, p. 123, Fig. 11 (*Bartramiopsis lescurii*).

platycarpa Card. et Thér. — World: GANGULEE 1969, p. 91, Map XXIII. N. Hemisphere: G.L. SMITH 1971, p. 59, Fig. 90.

MACROCOMA

hymenostomum (Mont.) Grout — USA (E. part): SHARP 1939, p. 343, Fig. 32 (*Macromitrium sullivantii*). E. Asia, N. and S. America: IWATSUKI 1958, p. 342, Fig. 4.

orthotrichoides (Raddi) Wijk et Marg. — World: PARIHAR, JAGDISH & MADHU 1975, p. 477, Fig. 2.

MACROMITRIUM

sullivantii C. Müll. — See *Macrocoma hymenostomum* (Mont.) Grout

MEESIA

austro-georgica C. Müll. — World: ABRAMOVA 1956b, p. 479.

hexasticha (Funck) Bruch — World: ABRAMOVA 1956b, p. 471 and 479. Rumania: POP 1965, p. 433, Fig. 4. Latvia: ABOLIN 1968, p. 194,

hymenostoma Card. et Broth. — World: ABRAMOVA 1956b, p. 479.

lavardei-Thér. — World: ABRAMOVA 1956b, p. 479.

(MEESIA contin.)

longiseta Hedw. — Rumania: STEFUREAC 1949, p. 239. USSR: ABRAMOVA 1956b, p. 449. World: ABRAMOVA 1956b, p. 451. SW. Poland: KUC 1956, p. 636, Fig. 3. Denmark: KJ. HOLMEN et al. 1959, p. 133, Fig. 61; orig. V. Tommerup Jensen. Poland: KUC 1964, p. 139, Ryc. 31. E. Germany (Mecklenburg): PANKOW 1966, p. 75, Karte 7. The British Isles: J.H. DICKSON 1973, p. 111 (f), Fig. 50.

mülleri C. Müll. et Hampe — World: ABRAMOVA 1956b, p. 479.

patagonica Dus. — World: ABRAMOVA 1956b, p. 479.

trifaria Crum, Steere et Anderson — See M. triquetra (L.) Ångstr.

triquetra (L.) Ångstr. — E. Germany, Poland, Czechoslovakia and E. Prussia: SZAFRAN 1948, p. 60, Ryc. 33. Sweden (S. half): ALBERTSON 1949, p. 181, Fig. 3. Rumania: STEFUREAC 1949, p. 239. USSR: ABRAMOVA 1956b, p. 437. World: ABRAMOVA 1956b, p. 439. SW. Poland: KUC 1956, p. 636, Fig. 3. E. Poland (Lublin distr.): JASNOWSKI 1956, p. 80, Fig. 1. Denmark: KJ. HOLMEN et al. 1959, p. 133, Fig. 60; orig. V. Tommerup Jensen (M. tristicha). Poland (E. Lublin upland): KARCZMARZ & KUC 1962, p. 486, Fig. 1. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 68. SE. Poland: KARCZMARZ 1964, p. 409, Ryc. 8. S. Poland: KUC 1964, p. 139, Ryc. 32. Czechoslovakia: RYBNICEK 1966, p. 113, Fig. 3. E. Germany (Mecklenburg): PANKOW 1966, p. 75, Karte 7. Latvia: ABOLIN 1968, p. 194. Spitzbergen: KUC 1973a, p. 466, Fig. 58. N. Canada: KUC 1973b, p. 91, Fig. 33. NW. Canada (Axel Heiberg Island): KUC 1973b, p. 86, Fig. 31. The British Isles: J.H. DICKSON 1973, p. 110 (+f), Fig. 49 (M. tristicha). Greenland: HOLMEN, LEWINSKY & MOGENSEN 1974, p. 247 (M. trifaria). World: GANGULEE 1974, p. 1075, Map CCCXX. Poland (NW. Sudet): WILCZYNSKA 1974, p. 63, Ryc. 4.

tristicha Bruch — See M. triquetra (L.) Ångstr.

ulei C. Müll. — World: ABRAMOVA 1956b, p. 479.

uliginosa Hedw. — SW. Poland: KUC 1956, p. 636, Fig. 3. USSR: ABRAMOVA 1956b, p. 461. World: ABRAMOVA 1956b, p. 463. Denmark: KJ. HOLMEN et al. 1959, p. 134, Fig. 62; orig. V. Tommerup Jensen. The British Isles: WHITEHOUSE et al. 1967, p. 368; orig. A. McG. Stirling. Latvia: ABOLIN 1968, p. 194. Canada (Queen Elizabeth Island): BRASSARD 1971, p. 262, Fig. 16. Spitzbergen: KUC 1973a,

(MEESIA contin.)

p. 466, Fig. 58. NW. Canada (Axel Heiberg Island): KUC 1973b, p. 86, Fig. 31. World: GANGULEE 1974, p. 1075, Map CCCXX.

MEIOTHECIUM

microcarpum (Hook.) Mitt. — Japan: SEKI 1968, p. 26, Fig. 6.

MERCEYA

gedeana (Lac.) Nog. — World: GANGULEE 1972, p. 764, Map CCXXXI.

latifolia Kindb. — W. USA and SW. Canada: SCHOFIELD 1966, p. 612, Fig. 16 (*Crumia latifolia*). World: ABRAMOVA & DIL'DARJAN 1969, p. 56 (*Crumia latifolia*). World: SCHOFIELD & CRUM 1972, p. 189, Map 26 (*Crumia latifolia*).

ligulata (Spruce) Schimp. — N. America (S of lat. 40°N): SHARP 1938, p. 143, Fig. 3. N. America: SHARP 1939, p. 337, Fig. 20. M. Europe (the Alps): GAMS 1966, p. 2. World: GANGULEE 1972, p. 764, Map CCXXXI.

longirostris (Griff.) Wijk et Marg. — World: GANGULEE 1972, p. 764, Map CCXXXI.

METEORIELLA

soluta (Mitt.) Okam. — Japan: NOGUCHI 1951, p. 17, Map 61.

METEORIOPSIS

ancistrodes (Ren. et Card.) Broth. — Asia, Australia and New Zealand: WANG 1970, p. 412, Fig. 41.

reclinata (C. Müll.) Fleisch. — Japan: NOGUCHI 1951, p. 20 Map 62.

METEORIUM

helminthocladum (C. Müll.) Fleisch. — Japan: NOGUCHI 1951, p. 16, Map 59.

illecebrum Sull. — El Salvador: WINKLER 1964-65, p. 509, Abb. 4.

miquelianum (C. Müll.) Fleisch. — Asia, Australia and New Zealand: WANG 1970, p. 404, Fig. 25.

METZLERIA

alpina Schimp. — See *Atractylocarpus alpinus* (Milde) Lindb.

MICROCAMPYLOPUS

longifolius Nog. — World: GANGULEE 1971, p. 269, Map LXXVII.

(MICROCAMPYLOPUS contin.)

nanus (C. Müll.) Broth. ex Par. — World: GANGULEE 1971, p. 269, Map LXXVII.

perpusillus (Mitt.) Broth. ex Par. — World: GANGULEE 1971, p. 269, Map LXXVII.

subnanus (C. Müll.) Fleisch. — World: GANGULEE 1971, p. 269, Map LXXVII.

MICRODUS

assamicus Dix. — World: GANGULEE 1971, p. 250, Map LXX.

brasiliensis (Dub.) Thér. — World: GANGULEE 1971, p. 250, Map LXX.

MICROMITRIUM

tenerum (B.S.G.) Crosby — See Nanomitrium tenerum (B.S.G.) Lindb.

MICROTHUIDIUM

minutulum (Hedw.) Warnst. — N. and M. America: SHARP 1939, p. 342, Fig. 31 (Thuidium minutulum). World: IWATSUKI 1958, p. 341, Fig. 3 (Thuidium minutulum).

MIELICHHOFERIA

assamica Dix. — World: GANGULEE 1974, p. 894, Map CCLXXV.

austro-georgica C. Müll. — S. Georgia: CLARKE 1973, p. 64, Fig. 10.

bryoides (Harv.) Wijk et Marg. — World: IRMSCHER 1929, Fig. 15, Taf. 16 (M. eckloni).

eckloni Hornsch. — See M. bryoides (Harv.) Wijk et Marg.

elongata (Hopp. et Hornsch.) Nees et Hornsch. — See Mielichhoferia mielichhoferi (Hook.) Wijk et Marg. var. elongata (Hopp. et Hornsch.) Wijk et Marg.

macrocarpa (Hook.) Bruch et Schimp. — Greenland and N. America: BRASSARD 1971, p. 271, Fig. 26.

mielichhoferi (Hook.) Wijk et Marg. — Switzerland: J. AMANN 1928, p. 437, Fig. 13 (M. nitida). Japan: OCHI 1959, p. 112, Map 5 (M. mielichhoferiana). N. America: SCHOFIELD 1959, p. 249, Fig. 1 (M. mielichhoferiana). The British Isles: WHITEHOUSE et al. 1968, p. 594; orig. P.D. Coker. Greenland and N. America: BRASSARD 1971, p. 271, Fig. 28. N. Canada: KUC 1973b, p. 84, Fig. 30. NW. Canada (Axel Heiberg Island) KUC 1973b, p. 78, Fig. 29. World: GANGULEE 1974, p. 894, Map CCLXXV.

(MIELICHHOFERIA contin.)

- var. elongata (Hopp. et Hornsch.) Wijk et Marg. — The British Isles: WHITEHOUSE et al. 1968, p. 598; orig. P.D. Coker (*M. elongata*).
mielichhoferiana Loeske — See *M. mielichhoferi* (Hook.) Wijk et Marg.
nitida Nees et Hornsch. — See *M. mielichhoferi* (Hook.) Wijk et Marg.
paradoxa Herz. — Jugoslavia: MARTINCIC 1966, p. 70, Abb. 43.
sasaokae Broth. — Japan: OCHI 1959, p. 116, Map 11.

MILDEELLA

- bryoides (Dicks.) Limpr. — See *Pottia bryoides* (Dicks.) Mitt.

MITTENOTHAMNIUM

- diminutivum (Hampe) Britt. — E. USA and M. America: SCHORNHERST 1946, p. 159, Fig. 6.

MNIOBRYUM

- albicans (Wahlenb.) Limpr. — See *M. wahlenbergii* (Web. et Mohr) Jenn.

- delicatulum (Hedw.) Dix. — England (Warwickshire): LAFLIN 1971, p. 717, Map 901 (*Pohlia delicatula*). Poland (NW. Sudet): WILCZYŃSKA 1974, p. 62, Ryc. 3.

- ludwigii (Schwaegr.) Loeske — Japan: OCHI 1959, p. 112, Map 6 (*Pohlia ludwigii*). Spitzbergen: KUC 1973a, p. 463, Fig. 45 (*M. sude-ticum*). World: GANGULEE 1974, p. 904, Map CCLXXIX.

- pulchellum (Hedw.) Loeske — Sweden (Sk.): WALDHEIM 1947, p. 182, Fig. 38 (*Webera pulchella*).

- sudeticum Podp. — See *M. ludwigii* (Schwaegr.) Loeske

- wahlenbergii (Web. et Mohr) Jenn. — Japan and Formosa: OCHI 1959, p. 107, Map 1 (*Pohlia wahlenbergii*). Poland (Sokolów Podlaski distr.): MICKIEWICZ 1960, p. 408, Fig. 2 (*M. albicans*). England (Warwickshire): LAFLIN 1971, p. 717, Map 900 (*Pohlia wahlenbergii*). Spitzbergen: KUC 1973a, p. 463, Fig. 45 (*M. albicans*). World: GANGULEE 1974, p. 904, Map CCLXXIX.

- var. glaciale (Brid.) Wijk et Marg. — S. Georgia: CLARKE 1973, p. 74, Fig. 18 (*Pohlia wahlenbergii* var. *glacialis*).

MNIODENDRON

- camptotheca Dub. ex Besch. — Tasmania, E. Australia and New Zealand: TOUW 1971, p. 310, Fig. 33 (*Hypnodendron camptotheca*).

(MNIODENDRON contin.)

comatulum Geh. ex Broth. — Tasmania, E. Australia and New Zealand: TOUW 1971, p. 310, Fig. 33 (Hypnodendron comatulum).

dendroides (Brid.) Wijk et Marg. — New Zealand: TOUW 1971, p. 272, Fig. 19d (Hypnodendron colensoi). New Zealand: TOUW 1971, p. 272, Fig. 19e (Hypnodendron comatum). Tasmania, E. Australia and New Zealand: TOUW 1971, p. 310, Fig. 33 (Hypnodendron comosum var. comosum and H. comosum var. sieberi). SE. Asia: TOUW 1971, p. 328, Fig. 39 (Hypnodendron dendroides).

fusco-mucronatum (C. Müll.) Broth. — SE. Asia: TOUW 1971, p. 337, Fig. 41 (Hypnodendron fusco-mucronatum ssp. fusco-mucronatum).

korthalsii Bosch et Lac. — SE. Asia: TOUW 1971, p. 303, Fig. 31 (Hypnodendron milnei ssp. korthalsii).

milnei (Mitt.) Mitt. — SE. Asia: TOUW 1971, p. 303, Fig. 31 (Hypnodendron milnei ssp. milnei).

MNIUM

affine Funck — Finland (S of lat. 63°N): TUOMIKOSKI 1936, p. 24, Karte 1. Norden and W. USSR: KOPONEN 1968a, p. 214, Fig. 1 (Plagiomnium affine). Europe and Asia Minor: KOPONEN 1971a, p. 322, Fig. 112 (Plagiomnium affine). N. America: KOPONEN 1971a, p. 327, Fig. 114 (Plagiomnium ciliare). USSR (Moldavia): SIMONOV 1972, p. 37. World: KOPONEN 1972a, p. 143, Fig. 1 (Plagiomnium ciliare). Newfoundland: TUOMIKOSKI, KOPONEN & AHTI 1973, p. 258, Fig. 4 (Plagiomnium ciliare). World: GANGULEE 1974, p. 1060, Map CCCXVI. Hungary, Rumania and adjacent countries: ORBAN 1975, p. 93, Karte 10 (Plagiomnium affine).

var. elatum B.S.G. Sweden: MÖLLER 1926, p. 181 (M. seligeri). Finland (S of lat. 68°N) and W. USSR: TUOMIKOSKI 1936, p. 32, Karte 3 (M. seligeri). Norden and W. USSR: KOPONEN 1968a, p. 216, Fig. 2 (Plagiomnium elatum). Europe: KOPONEN 1971a, p. 332, Fig. 115 (Platiomnium elatum). World: KOPONEN 1972a, p. 143, Fig. 1 (Plagiomnium elatum). Hungary, Rumania and adjacent countries: ORBAN 1975, p. 95, Karte 11 (Plagiomnium elatum).

var. integrifolium (Lindb.) Mild. — See Mmium affine Bland. ex Funck var. rugicum (Laur.) B.S.G.

(MNIUM contin.)

var. medium (B.S.G.) Husn. — See *M. medium* B.S.G.

var. rugicum (Laur.) B.S.G. — NE. Sweden, Finland and W. USSR: TUOMIKOSKI 1936, p. 30, Karte 2 (*M. rugicum*). SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 66 (*M. rugicum*). Norden and W. USSR: KOPONEN 1968a, p. 221, Fig. 4 (*Plagiomnium rugicum*). Europe and the Caucasus: KOPONEN 1971a, p. 352, Fig. 122 (*Plagiomnium rugicum*). Iceland, Greenland, N. America and East Cape: KOPONEN 1971a, p. 353, Fig. 123 (*Plagiomnium rugicum*). N. Hemisphere: KOPONEN 1971a, p. 354, Fig. 124 (*Plagiomnium rugicum*). World: KOPONEN 1972a, p. 143, Fig. 2 (*Plagiomnium rugicum*). NW. Canada (Axel Heiberg Island): KUC 1973b, p. 78, Fig. 29 (*Mnium affine* var. *integrifolium*). World: SEKI 1974, p. 84, Fig. 4 (*Plagiomnium ellipticum*). Hungary, Rumania and adjacent countries: ORBÁN 1975, p. 99, Karte 12 (*Plagiomnium ellipticum*).

andrewsianum Steere — Canada and W. Greenland: STEERE 1958, p. 178, Map 1. Europe and Asia: SMIRNOVA 1966, p. 337. N. America, Greenland and Iceland: KOPONEN 1973a, p. 20 Fig. 85 (*Rhizomnium andrewsianum*). Europe and Asia: BARDUNOV 1974, p. 102. Greenland: LEWINSKY & MOGENSEN 1975, p. 112 (*Rhizomnium andrewsianum*).

arizonicum Amann — N. America and Greenland: KOPONEN 1972b, p. 163, Fig. 10.

blyttii B.S.G. — Sweden: MÖLLER 1926, p. 179. NW. Canada (Axel Heiberg Island): KUC 1973b, p. 78, Fig. 29. N. Canada: KUC 1973b, p. 84, Fig. 30.

cinclidioides Hüb. — Sweden: MÖLLER 1926, p. 181. E. Germany, Poland, Czechoslovakia and E. Prussia: SZAFRAN 1948, p. 59, Ryc. 32. USA (Pa.): MOUL 1952, p. 145, Fig. 2. SW. Poland: KUC 1956, p. 636, Fig. 2. Poland: KUC 1956, p. 639, Fig. 7. S. Poland: KUC 1964, p. 135, Ryc. 28. Yugoslavia: MARTINCIC 1966, p. 12, Abb. 3. Latvia: ABOLIN 1968, p. 188. Greenland: HOLMEN, LEWINSKY & MOGENSEN 1974, p. 248 (*Pseudobryum cinclidioides*). Hungary, Rumania and adjacent countries: ORBÁN 1975, p. 107, Karte 15 (*Pseudobryum cinclidioides*).

confertidens (Lindb. et Arn.) Kindb. — Europe and Asia: SMIRNOVA 1964, p. 315. Europe and Asia: BARDUNOV 1974, p. 119. World: GANGULEE 1974, p. 1052, Map CCCIV.

(MNIUM contin.)

cuspidatum Hedw. — Sweden: MÖLLER 1926, p. 180. Sweden: MÖLLER 1926, p. 179 (*M. silvaticum*). Japan: NOGUCHI 1960, p. 1 (*M. cuspidatum* var. *cuspidatum*). World: GANGULEE 1974, p. 1055, Map CCCXV. Hungary, Rumania and adjacent countries: ORBÁN 1975, p. 89, Karte 9 (*Plagiomnium cuspidatum*).

var. ciliare (C. Müll.) Lindb. — Sweden: MÖLLER 1926, p. 181.

var. elatum (B.S.G.) Lindb. — Sweden: MÖLLER 1926, p. 180.

var. integrifolium (Lindb.) Lindb. — Sweden: MÖLLER 1926, p. 180.

var. rugicum (Laur.) Braithw. — Sweden: MÖLLER 1926, p. 180.

var. trichomanes (Mitt.) Nog. — Japan: NOGUCHI 1960, p. 1.

drummondi Bruch et Schimp. — S. Finland and parts of USSR: FAGERSTRÖM 1939, p. 26.

flagellare Sull. et Lesq. — See *Trachycystis flagellaris* (Sull. et Lesq.) Lindb.

heterophyllum (Hook.) Schwaegr. — World: GANGULEE 1974, p. 1036, Map CCCX.

horikawae Nog. — World: KOPONEN 1972a, p. 144, Fig. 3 (*Rhizomnium horikawae*). E. Asia: KOPONEN 1973b, p. 266, Fig. 7 (*Rhizomnium horikawae*). World: KOPONEN 1973a, p. 25, Fig. 91 (*Rhizomnium horikawae*). SE. Asia: GANGULEE 1974, p. 1064, Map CCCXVII (*M. punctatum* var. *horikawae*).

hornum Hedw. — Sweden: MÖLLER 1926, p. 178. Switzerland: J. AMANN 1928, p. 433, Fig. 11. USA (E. part): SHARP 1939, p. 332, Fig. 6. USA (Pa.): MOUL 1952, p. 149, Fig. 9. Poland (Sokolów Podlaski distr.): MICKIEWICZ 1960, p. 408, Fig. 2. USA (N.C.): CROSBY & ANDERSON 1967, p. 305, Fig. 6. Latvia: ABOLIN 1968, p. 182. Europe, N. Africa and W. Asia: STÖRMER 1969, p. 119, Fig. 66. Norway: STÖRMER 1969, p. 118, Fig. 65. England (Warwickshire): LAFLIN 1971, p. 719, Map 909. Hungary, Rumania and adjacent countries: ORBÁN 1975, p. 65, Karte 1.

hymenophylloides Hüb. — Sweden: MÖLLER 1926, p. 181. N. Sweden, N. Norway, Finland and W. USSR: KOTILAINEN 1929, Karte 16. Europe: PAUL 1952, p. 57. M. Europe (the Alps): PAUL 1952, p. 57. Spitzbergen: KUC 1973a, p. 465, Fig. 54 (*Cyrtomnium hymenophylloides*). Hungary, Rumania and adjacent countries: ORBÁN 1975, p. 89, Karte 9 (*Cyrtomnium hymenophylloides*).

(MNIUM contin.)

immarginatum Broth. — World: ABRAMOVA & ABRAMOV 1956b, p. 90.

World: ABRAMOVA & ABRAMOV 1969, p. 152, Fig. 1.

insigne Mitt. — N. America: KOPONEN 1971a, p. 335, Fig. 116

(*Plagiomnium insigne*). World: KOPONEN 1972a, p. 143, Fig. 1 (*Plagiomnium insigne*).

integrum Bosch. et Lac. — E. Asia: KOPONEN 1972a, p. 145, Fig. 4

(*Plagiomnium integrum*). World: GANGULEE 1974, p. 1048, Map CCCXIII.

japonicum Lindb. — World: GANGULEE 1974, p. 1055, Map CCCXV.

laevinerve Card. — World: GANGULEE 1974, p. 1036, Map CCCX.

longirostre Brid. — See *M. rostratum* Schrad.

lycopodioides Schwaegr. — Sweden: MÖLLER 1926, p. 178. World:

GANGULEE 1974, p. 1039, Map CCCXI. Hungary, Rumania and adjacent countries: ORBÁN 1975, p. 65, Karte 1.

ssp. inclinatum (Lindb.) Wijk et Marg. — Sweden: MÖLLER 1926,

p. 178 (*M. orthorrhynchum* B.S.G. var. *inclinatum*).

ssp. orthorrhynchum (Hartm.) Wijk et Marg. — Sweden: MÖLLER 1926,

p. 178 (*M. orthorrhynchum* B.S.G.).

marginatum (Witn.) P. Beauv. — Sweden: MÖLLER 1926, p. 178.

SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 65 (*M. serratum*).

Latvia: ABOLIN 1968, p. 184. Hungary, Rumania and adjacent countries: ORBÁN 1975, p. 67, Karte 2.

var. apiculatum Lindb. — Sweden: MÖLLER 1926, p. 179.

var. riparium (Mitt.) Husn. — Sweden: MÖLLER 1926, p. 178

(*M. riparium*). World: GANGULEE 1974, p. 1042, Map CCCXII. Hungary,

Rumania and adjacent countries: ORBÁN 1975, p. 71, Karte 3

(*M. riparium*).

maximoviczii Lindb. — E. Asia: KOPONEN 1972a, p. 145, Fig. 4

(*Plagiomnium maximoviczii*).

medium B.S.G. — Latvia: ABOLIN 1968, p. 184. Norden and W. USSR:

KOPONEN 1968a, p. 218, Fig. 3 (*Plagiomnium medium* ssp. *medium*).

Norden and W. USSR: KOPONEN 1968b, p. 30, Fig. 2 (*Plagiomnium*

medium ssp. *medium*). Europe and N. Africa: KOPONEN 1971a, p. 339,

(MNIUM contin.)

Fig. 117 (*Plagiomnium medium* ssp. *medium*). N. America: KOPONEN 1971a, p. 341, Fig. 120 (*Plagiomnium medium* ssp. *medium*). N. Hemisphere: KOPONEN 1971a, p. 340, Fig. 118 (*Plagiomnium medium* ssp. *medium*). Japan: KOPONEN 1971a, p. 341, Fig. 119 (*Plagiomnium medium* ssp. *medium*). World: KOPONEN 1972a, p. 143, Fig. 2 (*Plagiomnium medium* ssp. *medium*). World: GANGULEE 1974, p. 1055, Map CCCXV. Hungary, Rumania and adjacent countries: ORBÁN 1975, p. 101, Karte 13 (*Plagiomnium medium* ssp. *medium*).

ssp. *curvatulum* (Lindb.) Kindb. — Norden and W. USSR: KOPONEN 1968a, p. 218, Fig. 3 (*Plagiomnium medium* ssp. *curvatulum*). Norden and W. USSR: KOPONEN 1968b, p. 30, Fig. 2 (*Plagiomnium medium* ssp. *curvatulum*). Greenland and N. America: KOPONEN 1971a, p. 341, Fig. 120 (*Plagiomnium medium* ssp. *curvatulum*). N. Hemisphere: KOPONEN 1971a, p. 349, Fig. 121 (*Plagiomnium medium* ssp. *curvatulum*). World: KOPONEN 1972a, p. 143, Fig. 2 (*Plagiomnium medium* ssp. *curvatulum*).

microphyllum Doz. et Molk. — See *Trachycystis microphylla* (Doz. et Molk.) Lindb.

minutulum Besch. — Japan: KOPONEN 1971c, p. 381, Fig. 40 (*Rhizomnium minutulum*).

orthorhynchum Brid. — See *Atrichum tenellum* (Röhl.) B.S.G.

orthorrhynchum B.S.G. — See *M. lycopodioides* Schwaegr. ssp.

orthorrhynchum (Hartm.) Wijk et Marg.

var. *inclinatum* (Lindb.) Möll. — See *M. lycopodioides* Schwaegr. ssp. *inclinatum* (Lindb.) Wijk et Marg.

pseudopunctatum Bruch et Schimp. — Sweden: MÖLLER 1926, p. 182. Poland: LISOWSKI 1960b, p. 594, Fig. 3. Yugoslavia: MARTINCIC 1966, p. 26, Abb. 9. Latvia: ABOLIN 1968, p. 188. NE. Sweden, N. Norway, Finland and W. USSR: KOPONEN 1968c, p. 41, Fig. 69 (*Rhizomnium pseudopunctatum*). N. America and Greenland: KOPONEN 1973a, p. 21, Fig. 89 (*Rhizomnium pseudopunctatum*). World: GANGULEE 1974, p. 1060, Map CCCXVI. Hungary, Rumania and adjacent countries: ORBÁN 1975, p. 85, Karte 8 (*Rhizomnium pseudopunctatum*).

punctatum Hedw. — Sweden: MÖLLER 1926, p. 181, Poland (Sokolów

(MNIUM contin.)

Podlaski distr.): MICKIEWICZ 1960, p. 408, Fig. 2. N. Sweden, N. Norway, Finland and W. USSR: KOPONEN 1968c, p. 40, Fig. 67 (*Rhizomnium punctatum*). England (Warwickshire): LAFLIN 1971, p. 720, Map 912. Japan: KOPONEN 1971c, p. 382, Fig. 44 (*Rhizomnium nudum*). World: KOPONEN 1972a, p. 144, Fig. 3 (*Rhizomnium punctatum*). USSR (Moldavia): SIMONOV 1972, p. 37. World: SCHOFIELD & CRUM 1972, p. 186, Map 17 (*Rhizomnium punctatum*). World: KOPONEN 1972a, p. 144, Fig. 3 (*Rhizomnium nudum* and *R. glabrescens*). World: KOPONEN 1973a, p. 25, Fig. 91 (*Rhizomnium punctatum*). N. America: KOPONEN 1973a, p. 20, Fig. 82 (*Rhizomnium punctatum* ssp. *chlorophyllosum*). World: KOPONEN 1973a, p. 25, Fig. 91 (*Rhizomnium punctatum* ssp. *chlorophyllosum*). N. America: KOPONEN 1973a, p. 20, Fig. 83 (*Rhizomnium glabrescens*). N. America: KOPONEN 1973a, p. 20, Fig. 84 (*Rhizomnium nudum*). World: KOPONEN 1973a, p. 25, Fig. 91 (*Rhizomnium glabrescens*). Hungary, Rumania and adjacent countries: ORBÁN 1975, p. 83, Karte 7 (*Rhizomnium punctatum*). Greenland: LEWINSKY & MOGENSEN 1975, p. 114 (*Rhizomnium punctatum*).

var. elatum Schimp. — See *M. punctatum* Hedw. f. *elatum* (Schimp.) Mönkem.

var. horikawae (Nog.) Nog. — See *M. horikawae* Nog.

f. elatum (Schimp.) Mönkem. — Sweden: MÖLLER 1926, p. 182 (*M. punctatum* var. *elatum*).

riparium Mitt. — See *M. marginatum* (With.) P. Beauv. var. *riparium* (Mitt.) Husn.

rostratum Schrad. — Sweden: MÖLLER 1926, p. 179. Finland and W. USSR (S of lat. 68°N): TUOMIKOSKI 1939, p. 105, Karte 15. Latvia: ABOLIN 1968, p. 188 (*M. longirostre*). England (Warwickshire): LAFLIN 1971, p. 719, Map 910 (*M. longirostre*). E. Asia: KOPONEN 1972a, p. 145, Fig. 4 (*Plagiomnium rostratum*). USSR (Moldavia): SIMONOV 1972, p. 37 (*M. longirostre*). World: GANGULEE 1974, p. 1042, Map CCCXII. Hungary, Rumania and adjacent countries: ORBÁN 1975, p. 107, Karte 15 (*Plagiomnium rostratum*).

var. javanicum Nees — E. Asia: KOPONEN 1972a, p. 145, Fig. 4 (*Plagiomnium rhynchophorum*).

rugicum Laur. — See *M. affine* Funck var. *rugicum* (Laur.) B.S.G.

(MNIUM contin.)

seligeri Jur. — See *M. affine* Funck var. *elatum* B.S.G.

serratum Schrad. ex Brid. — See *M. marginatum* (With.) P. Beauv.

silvaticum Lindb. — See *M. cuspidatum* Hedw.

speciosum Mitt. — E. Asia: HORIKAWA 1972, Map 475.

spinosum (Voit) Schwaegr. — Sweden: MÖLLER 1926, p. 179. N. Sweden, N. Norway, Finland and W. USSR: KOTILAINEN 1929, Karte 5. The British Isles: WHITEHOUSE et al. 1969, p. 838; orig. Hillery H. Birks. N. America: KOPONEN 1973c, p. 102, Fig. 1. N. America: STEERE 1974, p. 80, Fig. 1. Poland (Silesia): BERDOWSKI 1974, p. 33, Mapa 7. Hungary, Rumania and adjacent countries: ORBÁN 1975, p. 73, Karte 4.

spinulosum B.S.G. — Yugoslavia: MARTINCIC 1966, p. 45, Abb. 26. S. Poland (W. Carpathians): LISOWSKI & KORŃAS 1966, p. 65, Fig. 6. Poland (Silesia) BERDOWSKI 1974, p. 33, Mapa 7. Hungary, Rumania and adjacent countries: ORBÁN 1975, p. 75, Karte 5.

stellare Reichard ex Hedw. — Sweden: MÖLLER 1926, p. 179. Latvia: ABOLIN 1968, p. 184. USSR (Moldavia): SIMONOV 1972, p. 37. Hungary, Rumania and adjacent countries: ORBÁN 1975, p. 79, Karte 6.

striatulum Mitt. — Japan: KOPONEN 1971c, p. 381, Fig. 41 (*Rhizomnium striatulum*). World: KOPONEN 1972a, p. 144, Fig. 3 (*Rhizomnium striatulum*). E. Asia: KOPONEN 1973b, p. 266, Fig. 6 (*Rhizomnium parvulum*). World: KOPONEN 1973a, p. 25, Fig. 91 (*Rhizomnium striatulum*). SE. Asia: GANGULEE 1974, p. 1064, Map CCCXVII.

succulentum Mitt. — Asia: IWATSUKI & SHARP 1968a, p. 51, Fig. 1. E. Asia: KOPONEN 1972a, p. 145, Fig. 4 (*Plagiomnium succulentum*). N. America and Greenland: KOPONEN 1973a, p. 21, Fig. 87 (*Rhizomnium magnifolium*). World: GANGULEE 1974, p. 1048, Map CCCXIII. Greenland: LEWINSKY & MOGENSEN 1975, p. 113 (*Rhizomnium magnifolium*). Hungary, Rumania and adjacent countries: ORBÁN 1975, p. 85, Karte 8 (*Rhizomnium magnifolium*).

tezukae Sak. — Japan (Honshu): KOPONEN 1971a, p. 329, Fig. 113 (*Plagiomnium tezukae*). World: KOPONEN 1972a, p. 143, Fig. 1 (*Plagiomnium tezukae*).

(MNIUM contin.)

thomsonii Schimp. — World: GANGULEE 1974, p. 1039, Map CCCXI.

undulatum Hedw. — Sweden: MÖLLER 1926, p. 181. Norway: STÖRMER 1969, p. 70, Fig. 26. Europe, N. Africa and W. Asia: STÖRMER 1969, p. 70, Fig. 27. The British Isles: NEWTON 1971, p. 239, Fig. 6. England (Warwickshire): LAFLIN 1971, p. 719, Map 911. Europe, Asia and N. Africa: NEWTON 1971, p. 230, Fig. 1 (*M. undulatum* var *undulatum*). USSR (Moldavia): SIMONOV 1972, p. 37. World: GANGULEE 1974, p. 1052, Map CCCXIV. Hungary, Rumania and adjacent countries: ORBÁN 1975, p. 103, Karte 14 (*Plagiomnium undulatum*).

vesicatum Besch. — E. Asia: KOPONEN 1972a, p. 145, Fig. 4 (*Plagiomnium vesicatum*).

MOLENDOA

hornschuchiana (Hook.) Lindb. ex Limpr. — Switzerland: J. AMANN 1928, p. 437, Fig. 13.

roylei (Mitt.) Broth. — World: GANGULEE 1972, p. 639, Map CLXXXVI.

sendtneriana (B.S.G.) Limpr. — Yugoslavia: MARTINCIC 1966, p. 22, Abb. 8. World: SAITO 1972, p. 168, Fig. IV.

var. tenuinervis (Limpr.) Pilous — N. America: SCHOFIELD 1972, p. 1123, Fig. 17 (*Anoetangium tenuinerve*).

MYURELLA

julacea (Schwaegr.) B.S.G. — Germany (Harz): MEUSEL 1939, p. 123, Abb. 22. S. Poland (Miechów reg.): WACLAWSKA 1959, p. 324, Fig. 1. Denmark: KJ. HOLMEN et al. 1959, p. 140, Fig. 85; orig. Kjeld Holmen. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 73. Latvia: ABOLIN 1968, p. 223. Spitzbergen: KUC 1973a, p. 467, Fig. 64.

sibirica (C. Müll.) Reim. — USA (N.C.): CROSBY & ANDERSON 1967, p. 305, Fig. 5. Newfoundland: TUOMIKOSKI, KOPONEN & AHTI 1973, p. 257, Fig. 3.

tenerrima (Brid.) Lindb. — Spitzbergen: KUC 1973a, p. 467, Fig. 64.

MYURIUM

foxworthyi (Broth.) Broth. — Vietnam and the Philippine Islands: TIXIER 1962, p. 191. Vietnam and the Philippine Islands: TIXIER 1964, p. 21, Fig. 2.

(MYURIUM contin.)

fragile (Card.) Broth. — SE. Asia: WANG 1970, p. 398, Fig. 12.

hebridarum Schimp. — The British Isles: WHITEHOUSE et al. 1966, p. 164; orig. A.Mcg. Stirling & F.G. Rodway.

rufescens (Reinw. et Hornsch.) Fleisch. — Japan: NOGUCHI 1951, p. 16, Map 58.

MYUROCLADA

maximowiczii (Borszcz.) Steere et Schof. — E. Asia: HORIKAWA 1972, Map 482. N. America: SCHOFIELD 1972, p. 1121, Fig. 12.

NANOMITRIUM

tenerum (B.S.G.) Lindb. — World: GANGULEE 1974, p. 833, Map CCLIV (Micromitrium tenerum).

NECKERA

besseri (Lob.) Jur. — Sweden: MÖLLER 1912, p. 73. Poland (Upper Wislok): WACLAWSKA 1957, p. 98, Fig. 2. Poland: KUC 1964, p. 139, Ryc. 31. S. Poland (W. Carpathians) SZAFRAN 1965, p. 608, Fig. 2. S. Poland (W. Carpathians): LISOWSKI & KORNAŚ 1966, p. 64, Fig. 5. S. Finland and W. USSR: FAGERSTEN & HAAPASAARI 1966, p. 44. Europe: MARTINCIC 1966, p. 41, Abb. 19. Yugoslavia: MARTINCIC 1966, p. 44, Abb. 23.

var. rotundifolia (Hartm.) Mol. — See N. besseri (Lob.) Jur. f. rotundifolia (Hartm.) Mönkem.

f. rotundifolia (Hartm.) Mönkem. — Sweden: MÖLLER 1912, p. 73 (N. besseri var. rotundifolia). Poland (NW. Sudet): WILCZYŃSKA 1974, p. 61, Ryc. 2.

borealis Nog. — Europe and Asia: BARDUNOV 1974, p. 55.

complanata (Hedw.) Hüb. — Sweden: MÖLLER 1912, p. 73. World: WIŚNIEWSKI 1930, Pl. 52. Denmark: KJ. HOLMEN et al. 1959, p. 139, Fig. 81; orig. J. Gernaa. England (Warwickshire): LAFLIN 1971, p. 722, Map 923. The British Isles: J.H. DICKSON 1973, p. 128, Fig. 58.

var. longifolia Schimp. — See N. complanata (Hedw.) Hüb. f. longifolia (Schimp.) Mönkem.

(NECKERA contin.)

var. secunda (Gravet) Velen. — See *N. complanata* (Hedw.) Hüb. f. *secunda* Grav.

var. tenella Schimp. — See *N. complanata* (Hedw.) Hüb. f. *tenella* (Schimp.) Mönkem.

f. longifolia (Schimp.) Mönkem. — Sweden: MÖLLER 1912, p. 73 (*N. complanata* var. *longifolia*).

f. secunda Grav. — SWEDEN: MÖLLER 1912, p. 74 (*N. complanata* var. *secunda*).

f. tenella (Schimp.) Mönkem. — Sweden: MÖLLER 1912, p. 74 (*N. complanata* var. *tenella*). Poland (NW. Sudet): WILCZYŃSKA 1974, p. 62, Ryc. 3 (*N. complanata* var. *tenella*).

crispa Hedw. — Sweden: MÖLLER 1912, p. 74. Sweden (Gtl.): BENGT PETERSSON 1958, p. 133, Fig. 54. Denmark: KJ. HOLMEN et al. 1959, p. 139, Fig. 79; orig. J. Gernaa. S. Poland: KUC 1964, p. 151, Ryc. 35. S. Poland (W. Carpathians): SZAFRAN 1965, p. 606, Fig. 1 and p. 608, Fig. 2. N. Germany: PANKOW & KÜHNER 1967, Tab. 26. Europe and W. Asia: STÖRMER 1969, p. 74, Fig. 30. Norway (S of lat. 67°N): STÖRMER 1969, p. 73, Fig. 29. Sweden (Sm.): NICKLASSON 1972, p. 403, Fig. 16A. S. Germany (Schwarzwald): PHILIPPI 1971, p. 255, Abb. 1.

var. falcata Boul. — See *N. crispa* Hedw. f. *falcata* (Boul.) Loeske

f. falcata (Boul.) Loeske — Sweden: MÖLLER 1912, p. 74 (*N. crispa* var. *falcata*).

fontinaloides Lindb. — See *N. pumila* Hedw.

var. philippeana (B.S.G.) Mach. — See *N. pumila* Hedw. var. *pilifera* Jur.

menziesii Hook. — See *Neckeradelphus menziesii* (Hook.) Steere

muratae Nog. — E. Asia: HORIKAWA 1955a, p. 146, Map 53.

oligocarpa Bruch — Sweden: MÖLLER 1912, p. 75.

pennata Hedw. — Sweden: MÖLLER 1912, p. 75. World: WISNIEWSKI 1930, Pl. 51. Denmark: KJ. HOLMEN et al. 1959, p. 138, Fig. 78; orig.

J. Gernaa. S. Poland: KUC 1964, p. 151, Ryc. 36. USSR (Moldavia): SIMONOV 1972, p. 43. World: SCHOFIELD 1974, p. 21, Map 12.

(NECKERA contin.)

pumila Hedw. — Sweden: MÖLLER 1912, p. 74 (N. fontinaloides).
Denmark: KJ. HOLMEN et al. 1959, p. 139, Fig. 80; orig. J. Gernaa.
Poland: KUC 1964, p. 159, Ryc. 39. N. Germany: PANKOW & KÜHNER 1967,
Tab. 26. Norway: STÖRMER 1969, p. 121, Fig. 67. Europe and N. Africa:
STÖRMER 1969, p. 122, Fig. 68. SW. Germany: DÜLL 1969, p. 299,
Taf. 6.

var. pilifera Jur. — Sweden: MÖLLER 1912, p. 74 (N. fontinaloides
var. philippeana).

turgida Jur. — See Neckeradelphus menziesii (Hook.) Steere

NECKERADELPHUS

menziesii (Hook.) Steere — World: HERZOG 1926, p. 282, Fig. 104
(Neckera menziesii). Europe (S of lat. 54°N) and N. Africa: J. AMANN
1928, p. 307, Fig. 5 (Neckera turgida). Switzerland: J. AMANN 1928,
p. 431, Fig. 10 (Neckera turgida). Corsica, Italy and W. Balkan:
GIACOMINI 1951, p. 104, Carta 10 (Neckera menziesii). Czecho-
slovakia (Tatra): PILOUS 1961a, p. 17.

NECKEROPSIS

andamana (C. Müll.) Fleisch. — SE. Asia: TOUW 1962, p. 408, Pl. 15.
SE. Asia: TIXIER 1964, p. 20, Fig. 1. Vietnam and the Philippines:
TIXIER 1964, p. 21, Fig. 2.

calicola Nog. — SE. Asia: TOUW 1962, p. 391, Pl. 6A.

crinita (Griff.) Fleisch. — SE. Asia: TOUW 1962, p. 408, Pl. 15.
SE. Asia: TIXIER 1964, p. 20, Fig. 1. Vietnam and the Philippines:
TIXIER 1964, p. 21, Fig. 2.

exserta (Schwaegr.) Broth. — SE. Asia: TOUW 1962, p. 400, Pl. 10.

var. scrobiculata (Nees) Touw — SE. Asia: TOUW 1962, p. 400, Pl. 10.

fimbriata (Harv.) Fleisch. — SE. Asia: TOUW 1962, p. 403, Pl. 12.

fleischeri (Dix.) Touw — SE. Asia: TOUW 1962, p. 420, Pl. 22.

gracilentia (Bosch. et Lac.) Fleisch. — SE. Asia: TOUW 1962, p. 395,
Pl. 8.

lepineana (Mont.) Fleisch. — Japan: NOGUCHI 1951, p. 20, Map 62.
Japan and Formosa: HORIKAWA 1952b, p. 86, Map 16. E. Asia: HORIKAWA
1955a, p. 95, Map 32. Asia and Australia: TOUW 1962, p. 389, Pl. 4.

(NECKEROPSIS contin.)

Vietnam and the Philippines: TIXIER 1964, p. 21, Fig. 2.

moutieri (Broth. et Par.) Fleisch. — SE. Asia: TOUW 1962, p. 420, Pl. 22.

nano-disticha (Geh.) Fleisch. — SE. Asia and Australia: TOUW 1962, p. 403, Pl. 12.

nitidula (Mitt.) Fleisch. — SE. Asia: TOUW 1962, p. 417, Pl. 20.

obtusata (Mont.) Fleisch. — SE. Asia: TOUW 1962, p. 391, Pl. 6B.
Vietnam and the Philippines: TIXIER 1964, p. 21, Fig. 2.

semperiana (Hampe) Touw — SE. Asia: TOUW 1962, p. 420, Pl. 22.
Vietnam and the Philippines: TIXIER 1964, p. 21, Fig. 2.

submarginata Card. ex Touw — Card. ex Touw — SE. Asia: TOUW 1962, p. 420, Pl. 22.

NEOACROPORIUM

flagelliferum (Sak.) Iwats. et Nog. — See Acroporium flagelliferum Sak.

NEOBARBELLA

pilifera (Broth. et Yas.) Nog. — Japan: NOGUCHI 1951, p. 16, Map 59.

OCHROBRYUM

crumii Robinson — M. America: ROBINSON 1965, p. 92, Fig. 23.

nepalense Besch. — SE. Asia: GANGULEE 1971, p. 414, Map CXXVII.

obtusifolium (C. Müll.) Mitt. — El Salvador: WINKLER 1964-65, p. 508, Abb. 2.

OCTOBLEPHARUM

ablidum Hedw. — El Salvador: WINKLER 1964-65, p. 508, Abb. 3.
World: GANGULEE 1971, p. 442, Map CXXXVIII.

OCTODICERAS

fontanum (Pyl.) Lindb. — See Fissidens fontanus (Pyl.) Steud.

julianum (Cand.) Brid. — See Fissidens fontanus (Pyl.) Steud.

OEDIPODIELLA

australis (Wag. et Dix.) Dix. — Europe and Africa: TERRADAS & BRUGUÉS 1973, p. 11, Fig. 3.

(OEDIPODIELLA contin.)

var. catalaunica P. Vard. — Spain: CASAS DE PUIG 1970a, p. 14, Fig. 1.

OEDIPODIUM

griffithianum (Dicks.) Schwaegr. — Japan and Formosa: HORIKAWA 1951, p. 18, Map 3. Norway (S of lat. 66°N): STÖRMER 1969, p. 260, Fig. 200. Europe: STÖRMER 1969, p. 261, Fig. 201. The British Isles: WHITEHOUSE et al. 1970, p. 152; orig. U.K. Duncan. World: SCHOFIELD 1974, p. 26, Map 20.

OLIGOTRICHUM

aligerum Mitt. — Japan: OSADA 1966, p. 46, Map 6a. E. Asia and N. America: WANG 1970, p. 407, Fig. 31. Japan: IWATSUKI 1972b, p. 128, Fig. 16. World: IWATSUKI 1972b, p. 128, Fig. 16.

falcatum Steere — NW. Canada (Good Friday Bay area): KUC 1969b, p. 648, Fig. 3 (*Psilopilum falcatum*). NW. Canada (Axel Heiberg Island): KUC 1973b, p. 36, Fig. 11 (*Psilopilum falcatum*). N. Canada: KUC 1973b, p. 40, Fig. 13 (*Psilopilum falcatum*). Canada: KUC 1974, p. 550, Fig. 4B (*Psilopilum falcatum*). N. America and Greenland: STEERE & SMITH 1975, p. 450, Fig. 22.

hercynicum (Hedw.) Lam. et Cand. — Sweden: MÖLLER 1919, p. 71 (*O. incurvum*). Netherlands (Drente): WIJK 1941, p. 285 (*O. incurvum*). Sweden (Sk.): WALDHEIM 1947, p. 182, Fig. 38. USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 210. Alaska (Latouche Island): SHACKLETTE 1961, p. 2, Fig. 1. N. Netherlands: BAKKER & TOUW 1963, p. 112. Japan: OSADA 1966, p. 46, Map 6c. Yugoslavia: MARTINCIC 1966, p. 12, Abb. 4. S. Poland (W. Carpathians): LISOWSKI & KORNAŚ 1966, p. 66, Fig. 7 (*O. incurvum*). World: SCHOFIELD & CRUM 1972, p. 193, Map 38. Germany (Thüringen): MEINUNGER 1975, p. 227, Karte 5.

incurvum (Brid.) Lindb. — See *O. hercynicum* (Hedw.) Lam. et Cand.

parallelum (Mitt.) Kindb. — Japan: HORIKAWA 1950, p. 34, Fig. 19. USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 206. Japan: OSADA 1966, p. 46, Map 6b.

semilamellatum (Hook. f.) Mitt. — E. Asia: GANGULEE 1969, p. 89, Map XXII.

OMALIA

trichomanoides (Hedw.) B.S.G. — See *Homalia trichomanoides* (Hedw.) B.S.G.

ONCOPHORUS

wahlenbergii Brid. — Yugoslavia: MARTINCIC 1966, p. 13, Abb. 6.
World: GANGULEE 1971, p. 367, Map CX.

virens (Hedw.) Brid. — Yugoslavia: MARTINCIC 1966, p. 13, Abb. 6.
World: GANGULEE 1971, p. 367, Map CX.

OREAS

martiana (Hoppe et Hornsch.) Brid. — Switzerland: J. AMANN 1928, p. 437, Fig. 13. M. Europe (the Alps): GAMS 1932b, p. 57, Fig. 2.
World: GANGULEE 1971, p. 350, Map CII. N. America and Greenland: SCHOFIELD 1972, p. 1125, Fig. 28.

OREOWEISIA

brevidens Herz. — SE. Asia: GANGULEE 1971, p. 359, Map CVI.

bruntonii (Sm.) Mild. — Switzerland: J. AMANN 1928, p. 433, Fig. 11.
Poland (NW. Sudet): WILCZYŃSKA 1974, p. 97, Ryc. 8 (*Cynodontium bruntonii*).

laxifolia (Hook. f.) Kindb. — SE. Asia: GANGULEE 1971, p. 359, Map CVI.

serrulata (Funck) De Not. — See *O. torquescens* (Brid.) Wijk et Marg.

torquescens (Brid.) Wijk et Marg. — Switzerland: J. AMANN 1928, p. 437, Fig. 13 (*O. serrulata*). N. America: SHARP 1939, p. 330, Fig. 3 (*O. serrulata*).

ORTHODICRANUM

flagellare (Hedw.) Loeske — England (Hertfordshire): SWINSCOW 1959, p. 532, Map 3 (*Dicranum flagellare*). Poland (Sokolów Podlaski distr.): MICKIEWICZ 1960, p. 408, Fig. 2. The British Isles: WHITEHOUSE et al. 1963, p. 517; orig. F. Rose (*Dicranum flagellare*).
World: TAKAKI 1972, p. 38, Map 3 (*Dicranum flagellare*). Newfoundland: TUOMIKOSKI, KOPONEN & AHTI 1973, p. 257, Fig. 3 (*Dicranum miquelonense*).

hamulosum (Mitt.) Broth. — World: TAKAKI 1972, p. 38, Map 2 (*Dicranum hamulosum*).

(ORTHODICRANUM contin.)

montanum (Hedw.) Loeske — England (Hertfordshire): SWINSCOW 1959, p. 532, Map 3 (*Dicranum montanum*). Belgium: DEMARET & CASTAGNE 1961, p. 195, Fig. 75 (*Dicranum montanum*). The British Isles: WHITEHOUSE et al. 1963, p. 516; orig. F. Rose (*Dicranum montanum*). USA (N.C.): CROSBY & ANDERSON 1967, p. 305, Fig. 7 (*Dicranum montanum*). England (Warwickshire): LAFLIN 1971, p. 705, Map 853 (*Dicranum montanum*). Iberia: CASAS DE PUIG 1975b, p. 734, Fig. 2.

scottianum (Turn.) Røth — The British Isles: WHITEHOUSE et al. 1975b, p. 498; orig. H.J.B. Birks (*Dicranum scottianum*).

ssp. canariense (C. Müll.) Podp. — W. Iberia and Macaronesia: P. ALLORGE 1947, p. 84, Fig. 7 (*Dicranum canariense*).

var. scottianum — Norway (S of lat. 66°N) STÖRMER 1969, p. 222, Fig. 160 (*Dicranum scottianum* ssp. *anglicum*). Europe: STÖRMER 1969, p. 223, Fig. 161 (*Dicranum scottianum* ssp. *anglicum*).

strictum Broth. — See *Dicranum tauricum* Sapehin

ORTHODONTIUM

australe Hook. f. et Wils. — See *O. lineare* Schwaegr.

germanicum Koppe — See *O. lineare* Schwaegr.

gracile B.S.G. — World: MEIJER 1951b, p. 70, Map 2. W. France: TOUFFET 1969b, p. 59, Fig. 19 (*Stableria gracilis*).

lineare Schwaegr. — W. Europe: MEIJER 1951a, p. 110, Fig. 2. W. Europe: MEIJER 1951b, p. 68, Map 1. S. Hemisphere: MEIJER 1951b, p. 72, Map 4 (*O. lineare* and *O. australe* ssp. *australe*). NW. Europe: REIMERS 1954, p. 286, Abb. 15 (*O. germanicum*). Germany: REIMERS 1954, p. 291, Abb. 16 (*O. germanicum*). Germany (Schlesw.-Holst.): N. JENSEN 1955, p. 87, Karte 6 (*O. germanicum*). N. Belgium: DEMARET & DE RUYVER 1956, p. 311, Fig. 81. England (Hertfordshire): SWINSCOW 1959, p. 541, Map 4. Netherlands: BARKMAN 1962, p. 75. N. Germany (Holst., Mecklenb.): PANKOW & LINDNER 1964, p. 77, Abb. 1 (*O. germanicum*). NE. Germany: KÜHNER & PANKOW 1967, p. 173, Abb. 6 (*O. germanicum*). W. Europe (between lat. 45°-60°N): MUHLE 1970, p. 109, Abb. 1. England (Warwickshire): LAFLIN 1971, p. 716, Map 896. Germany (Schlesw.-Holst.): FRAHM & WALSEMANN 1973, p. 97. World: SCHOFIELD 1974, p. 17, Map 5. Germany (Thüringen): MEINUNGER 1975, p. 231, Karte 9.

(ORTHODONTIUM contin.)

pellucens (Hook.) B.S.G. — USA and M. America: SHARP 1939, p. 336, Fig. 17.

ORTHOMNIOPSIS

dilatata (Mitt.) Nog. — See Orthomnium dilatatum (Mitt.) Chen.

elimbata Nog. — World: GANGULEE 1974, p. 1029, Map CCCVIII.

japonica Broth. — E. Asia: HORIKAWA 1955a, p. 138, Map 49.

ORTHOMNIUM

bryoides (Griff.) Wijk et Marg. — World: GANGULEE 1974, p. 1026, Map CCCVII.

dilatatum (Mitt.) Chen. — World: GANGULEE 1974, p. 1029, Map CCCVIII (Orthomniopsis dilatata).

ORTHOTHECIUM

chryseum (Schwaegr.) B.S.G. — Finland (Kuusamo): TUOMIKOSKI 1939, p. 87, Karte 10. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 83. Spitzbergen: KUC 1973a, p. 470, Fig. 76.

intricatum (Hartm.) B.S.G. — Finland (Kuusamo): TUOMIKOSKI 1939, p. 87, Karte 9. Germany (Harz): MEUSEL 1939, p. 123, Abb. 22. SW. Poland: KUC 1956, p. 637, Fig. 4. Poland (Upper Wisłok): WACLAWSKA 1957, p. 98, Fig. 2. Poland (Lower Nida): WACLAWSKA 1964, p. 368, Fig. 1. Poland: KUC 1964, p. 189, Ryc. 44. S. Poland (W. Carpathians): SZAFRAN 1965, p. 608, Fig. 2. Yugoslavia: MARTINCIC 1966, p. 26, Abb. 9. S. Poland (W. Carpathians): LISOWSKI & KORNAŚ 1966, p. 70, Fig. 11. S. Germany: PHILIPPI 1972, p. 750, Abb. 41. Poland NW. Sudet): WILCZYŃSKA 1974, p. 97, Ryc. 8. Germany (Thüringen): MEINUNGER 1975, p. 236, Karte 14.

rufescens (Brid.) B.S.G. — Finland (Kuusamo): TUOMIKOSKI 1939, p. 87, Karte 10. The British Isles: WHITEHOUSE et al. 1963, p. 523; orig. M.C.F. Proctor. N. Canada: KUC 1973b, p. 107, Fig. 39.

strictum Lor. — N. Sweden, N. Norway, Finland and W. USSR: KOTILAINEN 1929, Karte 7. Finland (Kuusamo): TUOMIKOSKI 1939, p. 87, Karte 9. Spitzbergen: KUC 1973a, p. 471, Fig. 77.

ORTHOTRICHUM

affine Brid. — Hungary: IGMÁNDY 1942a, p. 311, Fig. 5. Latvia: ABOLIN 1968, p. 208. England (Warwickshire): LAFLIN 1971, p. 721,

(ORTHOTRICHUM contin.)

Map 917, N. America: VITT 1973a, Pl. 51.

ssp. fastigiatum (Brid.) Hartm. — USSR (Moldavia): SIMONOV 1972, p. 31 (O. fastigiatum).

ssp. sordidum (Sull. et Lesq.) Grout — N. America: VITT 1973a, Pl. 59 (O. sordidum).

var. fastigiatum (Brid.) Hüb. — Hungary: IGMÁNDY 1942a, p. 311, Fig. 5.

var. neglectum (Vent.) Vent. — Hungary: IGMÁNDY 1942a, p. 311, Fig. 5 (O. neglectum).

var. robustum (Limpr.) Warnst. — Hungary: IGMÁNDY 1942a, p. 311, Fig. 5.

f. appendiculatum (Schimp.) Podp. — Hungary: IGMÁNDY 1942a, p. 311, Fig. 5 (O. appendiculatum).

alpestre Hornsch. — N. America: VITT 1973a, Pl. 44.

anomalum Hedw. — Hungary: IGMÁNDY 1942a, p. 293, Fig. 1. Sweden (Sk., Dalby Söderskog): WALDHEIM 1944b, p. 97, Fig. 16B. Latvia: ABOLIN 1968, p. 208. England (Warwickshire): LAFLIN 1971, p. 721, Map 916. USSR (Moldavia): SIMONOV 1972, p. 31. N. America: VITT 1973a, Pl. 39.

var. saxatile Milde — Hungary: IGMÁNDY 1942a, p. 293, Fig. 1.

appendiculatum Schimp. — See O. affine Brid. f. appendiculatum (Schimp.) Podp.

arcticum Schimp. — Finland (Kuusamo): TUOMIKOSKI 1939, p. 112, Karte 19 (O. blyttii var. arcticum).

var. praemorsum (Vent.) Wijk et Marg. — N. America: VITT 1973a, Pl. 55 (O. praemorsum).

bartramii Williams — N. America: VITT 1973a, Pl. 52.

blyttii Schimp. var. arcticum (Schimp.) Hag. — See O. arcticum Schimp.

bolanderi Sull. — N. America: VITT 1973a, Pl. 51.

braunii B.S.G. — See O. stellatum Brid.

cancellatum Card. et Thér. — Canada (Quebec): KUCYNIK 1955c, p. 105.

consimile Mitt. — N. America: VITT 1973a, Pl. 48. N. America: VITT, OSTAFICHUK & BRODO 1973, p. 575, Fig. 1.

cupulatum Brid. — Hungary: IGMÁNDY 1942a, p. 295, Fig. 2.

(ORTHOTRICHUM contin.)

N. America: VITT 1973a, Pl. 44.

var. fuscum (Vent.) Boul. — Hungary: IGMÁNDY 1942a, p. 328, Fig. 9
(*O. urnigerum* var. *perforatum*).

var. nudum (Dicks.) Lindb. — See *O. cupulatum* Brid. var. *riparium* Hüb.

var. riparium Hüb. — Hungary: IGMÁNDY 1942a, p. 295, Fig. 2
(*O. cupulatum* var. *nudum*).

var. sardagnae Kindb. — See *O. cupulatum* Brid. var. *sardagnanum*
(Vent.) Vent.

var. sardagnanum (Vent.) Vent. — Hungary: IGMÁNDY 1942a, p. 295,
Fig. 2 (*O. cupulatum* var. *sardagnae*).

diaphanum Schrad. ex Brid. — Hungary: IGMÁNDY 1942a, p. 326, Fig. 8.
NE. Belgium (Limburg): BARKMAN 1963, p. 23, Kaart VIII. Poland
(Warsaw distr.): MICKIEWICZ 1968, p. 630, Ryc. 7. Norway (S of lat.
66°N): STÖRMER 1969, p. 75, Fig. 31. Europe, N. Africa and W. Asia:
STÖRMER 1969, p. 76, Fig. 32. England (Warwickshire): LAFLIN 1971,
p. 721, Map 919. USSR (Moldavia): SIMONOV 1972, p. 37. N. America:
VITT 1973a, Pl. 53.

exiguum Sull. — N. America: VITT 1973a, Pl. 58.

fastigiatum Bruch ex Brid. — See *O. affine* Brid. ssp. *fastigiatum*
(Brid.) Hartm.

gymnostomum Bruch ex Brid. — Hungary: IGMÁNDY 1942a, p. 328, Fig. 9.
Denmark: KJ. HOLMEN et al. 1959, p. 137, Fig. 71; orig. G. Skov-
gaard Christensen (*Stroemia gymnostoma*). Europe: PILOUS 1961b,
p. 279, Karte 2. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 62, Ryc. 3.

hallii Sull. et Lesq. — N. America: VITT 1973a, Pl. 53.

holzingeri Ren. et Card. — N. America: VITT 1973a, Pl. 55.

insidiosum Herz. — Yugoslavia: MARTINCIC 1966, p. 70, Abb. 43.

jamesianum Sull. — N. America: VITT 1973a, Pl. 54.

killiasii C. Müll. — See *O. speciosum* Nees var. *killiasii* (C. Müll.)
Vent.

laevigatum Zett. — USA (Calif.): KOCH 1954, p. 526, Fig. 2. World:
EREMINA 1964, p. 323. N. America: VITT 1973a, Pl. 46.

(ORTHOTRICHUM contin.)

f. macounii (Aust.) Lawton et Vitt — See *O. macounii* Aust.

leucomitrium B.S.G. — See *O. scanicum* Grönv.

lyellii Hook. et Tayl. — Hungary: IGMÁNDY 1942a, p. 328, Fig. 9.
N. Germany: PANKOW & KÜHNER 1967, Tab. 25. Poland (Warsaw distr.):
MICKIEWICZ 1968, p. 630, Ryc. 7. Norway (S of lat. 66°N): STÖRMER
1969, p. 78, Fig. 34. Europe, N. Africa and W. Asia: STÖRMER 1969,
p. 78, Fig. 35. England (Warwickshire): LAFLIN 1971, p. 721,
Map 918. USSR (Moldavia): SIMONOV 1972, p. 31. N. America: VITT
1973a, Pl. 49. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 64, Ryc. 5.
Sweden (Sm., Bjurkärr): NICKLASSON 1974, Fig. 10.

macounii Aust. — N. America: VITT 1973a, Pl. 47 (*O. laevigatum* f.
macounii).

microcarpum De Not. — Hungary: IGMÁNDY 1942a, p. 321, Fig. 7
(*O. pallens* var. *parvum*).

neglectum Schimp. — See *O. affine* Brid. var. *neglectum* (Vent.)
Vent.

obtusifolium Brid. — Hungary: IGMÁNDY 1942a, p. 326, Fig. 8.
Denmark: KJ. HOLMEN et al. 1959, p. 136, Fig. 70; orig. G. Skov-
gaard Christensen (*Stroemia obtusifolia*). Poland (Warsaw distr.):
MICKIEWICZ 1968, p. 630, Ryc. 7. USSR (Moldavia): SIMONOV 1972,
p. 37 (*Stroemia obtusifolia*). N. America: VITT 1973a, Pl. 38.

ohioense Sull. et Lesq. — N. America: VITT 1973a, Pl. 57.

pallens Bruch ex Brid. — Hungary: IGMÁNDY 1942a, p. 321, Fig. 7.
N. America: MILLER & VITT 1970, p. 91. N. America: VITT 1973a,
Pl. 42.

var. parvum Vent. — See *O. microcarpum* De Not.

patens Bruch ex Brid. — Hungary: IGMÁNDY 1942a, p. 321, Fig. 7
(*O. stramineum* var. *patens*).

praemorsum Vent. — See *O. arcticum* Schimp. var. *praemorsum* (Vent.)
Wijk et Marg.

pulchellum Brunt. — NW. Germany (Schlesw.-Holst.): JENSEN 1951,
p. 208, Abb. 3. Norway (S of lat. 66°N): STÖRMER 1969, p. 232,
Fig. 170. Europe: STÖRMER 1969, p. 232, Fig. 171. N. America:

(ORTHOTRICHUM contin.)

VITT 1973a, Pl. 50. N. America: VITT, OSTAFICHUK & BRODO 1973, p. 576, Fig. 2.

pumilum Sw. — Hungary: IGMÁNDY 1942a, p. 317, Fig. 6. N. America: VITT 1973a, Pl. 37.

var. fallax (Bruch) Kickx. — Hungary: IGMÁNDY 1942a, p. 317, Fig. 6.

pusillum Mitt. — N. America: VITT 1973a, Pl. 58.

pylaesii Brid. — N. America: VITT 1973a, Pl. 40. N. America and Greenland: PACKER & VITT 1974, p. 1399, Fig. 5.

rivulare Turn. — Hungary: IGMÁNDY 1942a, p. 328, Fig. 9. N. America: VITT 1973a, Pl. 48.

rogeri Brid. — Hungary: IGMÁNDY 1942a, p. 328, Fig. 9.

var. defluens (Vent.) Vent. — Hungary: IGMÁNDY 1942a, p. 321, Fig. 7 (O. stramineum var. defluens).

rupestre Schleich. ex Schwaegr. — Hungary: IGMÁNDY 1942a, p. 295, Fig. 2. Sweden (Sk., Dalby Söderskog): WALDHEIM 1944b, p. 97, Fig. 16C. Latvia: ABOLIN 1968, p. 208. N. America: VITT 1973a, Pl. 45.

var. franzonianum (De Not.) Vent. — Hungary: IGMÁNDY 1942a, p. 295, Fig. 2. Yugoslavia: MARTINCIC 1966, p. 61, Abb. 33.

var. sturmii (Hopp. et Hornsch.) Jur. — Hungary: IGMÁNDY 1942a, p. 295, Fig. 2.

scanicum Grönv. — Hungary: IGMÁNDY 1942a, p. 328, Fig. 9 (O. leucomitrium).

shawii Wils. ex Roth — Hungary: IGMÁNDY 1942a, p. 298, Fig. 3.

sordidum Sull. et Lesq. — See O. affine Brid. ssp. sordidum (Sull. et Lesq.) Grout

speciosum Nees — Hungary: IGMÁNDY 1942a, p. 306, Fig. 4. Poland (Warsaw distr.): MICKIEWICZ 1968, p. 630, Ryc. 7. N. America: VITT 1973a, Pl. 41. NW. Canada (Axel Heiberg Island): KUC 1973b, p. 95, Fig. 35.

var. elegans (Hook. et Grev.) Warnst. — N. America: VITT 1973a, Pl. 59.

(ORTHOTRICHUM contin.)

var. killiasii (C. Müll.) Vent. — Hungary: IGMÁNDY 1942a, p. 328, Fig. 9 (*O. killiasii*). Spitzbergen: KUC 1973a, p. 467, Fig. 62 (*O. killiasii*).

stellatum Brid. — Hungary: IGMÁNDY 1942a, p. 328, Fig. 9 (*O. braunii*). N. America: VITT 1973a, Pl. 36.

stramineum Hornsch. — Hungary: IGMÁNDY 1942a, p. 321, Fig. 7. N. Germany: PANKOW & KÜHNER 1967, Tab. 25. Poland (Warsaw distr.): MICKIEWICZ 1968, p. 630, Ryc. 7. W. France: TOUFFET 1969b, p. 55, Fig. 12.

var. defluens Vent. — See *O. rogeri* Brid. var. *defluens* (Vent.) Vent.

var. patens (Brid.) Vent. — See *O. patens* Brid.

var. vexabile Limpr. — Hungary: IGMÁNDY 1942a, p. 321, Fig. 7.

strangulatum P. Beauv. — N. America: VITT 1973a, Pl. 56.

striatum Hedw. — Hungary: IGMÁNDY 1942a, p. 298, Fig. 3. Latvia: ABOLIN 1968, p. 208. Poland (Warsaw distr.): MICKIEWICZ 1968, p. 630, Ryc. 7. N. America: VITT 1973a, Pl. 50.

var. rotae (De Not.) Hag. — Hungary: IGMÁNDY 1942a, p. 298, Fig. 3.

tenellum Bruch ex Brid. — N. America: VITT 1973a, Pl. 52. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 62, Ryc. 3.

urnigerum Myr. — Hungary: IGMÁNDY 1942a, p. 328, Fig. 9.

var. perforatum Vent. — See *O. cupulatum* Brid. var. *fuscum* (Vent.) Boul.

OXYRRHYNCHIUM

hians (Hedw.) Loeske — USSR (Moldavia): SIMONOV 1972, p. 59 (*Eurhynchium hians*).

praelongum (Hedw.) Warnst. — N. Norway: H. PERSSON 1939, p. 115 (*Eurhynchium praelongum*). England (Warwickshire): LAFLIN 1971, Map 955 (*Eurhynchium praelongum*).

schleicheri (Hedw.f.) Röll. — Sweden (S of lat. 60°N): WALDHEIM 1934, p. 239, Fig. 3 (*Eurhynchium schleicheri*). Poland (Silesia): BERDOWSKI 1974, p. 24, Mapa 4 (*Eurhynchium schleicheri*). Poland (NW. Sudet): WILCZYŃSKA 1974, p. 63, Ryc. 4 (*Isothecium filesdens*).

(OXYRRHYNCHIUM contin.)

speciosum (Brid.) Warnst. — Sweden (S of lat. 60°N): WALDHEIM 1934, p. 239, Fig. 4 (*Eurhynchium speciosum*). N. Germany: PANKOW & KÜHNER 1967, Tab. 28 (*Eurhynchium speciosum*).

swartzii (Turn.) Warnst. — England (Warwickshire): LAFLIN 1971, p. 731, Map 956 (*Eurhynchium swartzii*). Poland (NW. Sudet): WILCZYŃSKA 1974, p. 63, Ryc. 4 (*Eurhynchium swartzii* var. *atrovi-rens*).

OXYSTEGUS

cylindricus (Brid.) Hilp. — SW. Poland: KUC 1956, p. 637, Fig. 4. USA and M. America: CRUM & ANDERSON 1958, p. 35, Fig. 8 (*Trichostomum cylindricum*). W. France: TOUFFET 1969b, p. 56, Fig. 13 (*Trichostomum cylindricum*). World: GANGULEE 1972, p. 657, Map CXCI.

ssp. hibernicus (Mitt.) Podp. — The British Isles: WHITEHOUSE et al. 1975b, p. 499; orig. H.J.B. Birks (*Trichostomum hibernicum*).

cylindrothecus (Mitt.) Gang. — See *Trichostomum cylindrotheca* (Mitt.) Broth.

khastianus (Mitt.) Gang. — See *Trichostomum khasianum* (Mitt.) Broth.

stenophyllus (Mitt.) Gang. — See *Didymodon tophaceus* (Brid.) Lisa

PACHYFISSIDENS

grandifrons (Brid.) Limpr. — See *Fissidens grandifrons* Brid.

PALUDELLA

squarrosa (Hedw.) Brid. — M. Europe (S of lat. 60°N) HERZOG 1926, p. 253, Fig. 97. Europe (N of lat. 42°N): J. AMANN 1928, p. 312, Fig. 7. E. Germany, Poland, Czechoslovakia and E. Prussia: SZAFRAN 1948, p. 57, Ryc. 31. E. Poland (Lublin distr.): JASNOWSKI 1956, p. 80, Fig. 1. Poland: KUC 1956, p. 639, Fig. 8. SW. Poland: KUC 1956, p. 636, Fig. 3. World: ABRAMOVA 1956b, p. 413. USSR: ABRAMOVA 1956b, p. 411. Denmark: KJ. HOLMEN et al. 1959, p. 133, Fig. 59; orig. V. Tommerup Jensen. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 67. NE. Poland (Suwalki reg.): MICKIEWICZ, REJMENT-GROCHOWSKA & SOBOTKA 1963, p. 260, Fig. 1. S. Poland: KUC 1964, p. 138, Ryc. 30. SE. Poland: KARCZMARZ 1964, p. 408, Ryc. 7. Poland (Lower Nida): WACLAWSKA 1964, p. 368, Fig. 1. Rumania: POP 1965, p. 433, Fig. 4. E. Germany (Mecklenburg): PANKOW 1966, p. 69, Karte 4.

(PALUDELLA contin.)

Czechoslovakia: RYBNÍČEK 1966, p. 109, Fig. 2. M. Europe: WARNCKE 1971, p. 78, Fig. 1. Canada (Queen Elizabeth Island) BRASSARD 1971, p. 263, Fig. 20. Sweden (Vrm.): FRANSSON 1972, p. 112, Map 70. Poland: MICKIEWICZ 1972, p. 233, Fig. 1. Spitzbergen: KUC 1973a, p. 466, Fig. 57. The British Isles: J.H. DICKSON 1973, p. 107, Fig. 47. Greenland: HOLMEN, LEWINSKY & MOGENSEN 1974, p. 246.

PAPILLARIA

crocea (Hamp.) Jaeg. — Asia, Australia and New Zealand: WANG 1970, p. 402, Fig. 20 (*P. cuspidifera*).

cuspidifera (Wils.) Jaeg. — See *P. crocea* (Hamp.) Jaeg.

imponderosa (Tayl.) Broth. — El Salvador: WINKLER 1964-65, p. 509, Abb. 4.

semitorta (C. Müll.) Jaeg. — SE. Asia: WANG 1970, p. 409, Fig. 35.

PARALEUCOBRYUM

enerve (Tedd.) Loeske — World: SZAFRAN 1948, p. 46, Ryc. 23.

Jugoslavia: MARTINCIC 1966, p. 22, Abb. 8. World: GANGULEE 1971, p. 341, Map XCVIII.

fulvum (Hook.) Loeske — Norway (S of lat. 66°N): STÖRMER 1969, p. 264, Fig. 202 (*Dicranum fulvum*). Europe and W. Asia: STÖRMER 1969, p. 265, Fig. 203 (*Dicranum fulvum*). SW. Germany: DÜLL 1969, p. 299, Taf. 6a (*Dicranum fulvum*).

longifolium (Hedw.) Loeske — E. Germany, Poland, Czechoslovakia and E. Prussia: SZAFRAN 1948, p. 50, Ryc. 27. S. Poland: KUC 1964, p. 82, Ryc. 19 (*Dicranum longifolium*). Latvia: ABOLIN 1968, p. 117. Poland (Silesia): BERDOWSKI 1974, p. 33, Mapa 7. Iberia: CASAS DE PUIG 1975b, p. 734, Fig. 2.

viride (Sull. et Lesp.) Podp. — Latvia: ABOLIN 1968, p. 117. World: TAKAKI 1972, p. 35, Map 1 (*Dicranum viride*). World: TAKAKI 1972, p. 35, Map 1 (*Dicranum viride* var. *hakkodense*).

PENZIGIELLA

cordata (Harv.) Fleisch. — SE. Asia: MANUEL 1975, p. 424, Fig. 1.

PHASCUM

arbense Loitl. — See *P. floerkeanum* Web. et Mohr var. *arbense* (Loitl.) Podp.

(PHASCUM contin.)

curvicolle Hedw. — Sweden (Sk.): WALDHEIM 1947, p. 175, Fig. 32.
Poland (NW. Sudet): WILCZYŃSKA 1974, p. 61, Ryc. 2.

cuspidatum Hedw. — Netherlands: TOUW 1963, p. 88. Latvia: ABOLIN 1968, p. 128. England (Warwickshire): LAFLIN 1971, p. 710, Map 872.
USSR (Moldavia): SIMONOV 1972, p. 27. Portugal: SÉRGIO 1972, Est. III.

var. mitraeforme Limpr. — Sweden (Sk.): WALDHEIM 1947, p. 173, Fig. 30 (P. mitriforme). E. Germany (Mecklenburg): KÜHNER 1971, p. 469, Karte 4 (P. mitraeforme).

var. piliferum (Hedw.) Hook. et Tayl. — Sweden (Sk., E of long. 13°E): WALDHEIM 1947, p. 176, Fig. 33 (P. piliferum). USSR (Moldavia): SIMONOV 1972, p. 27 (P. piliferum). Portugal: SÉRGIO 1972, Est. III.

floerkeanum Web. et Mohr var. arbense (Loitl.) Podp. — Jugoslavia: MARTINCIC 1966, p. 70, Abb. 43 (P. arbense).

mitraeforme (Limpr.) Warnst. — See P. cuspidatum Hedw. var. mitraeforme Limpr.

piliferum Hedw. — See P. cuspidatum Hedw. var. piliferum (Hedw.) Hook. et Tayl.

PHILOCRYA

aspera Hag. et C. Jens. — See Lyellia aspera (Hag. et C. Jens.) Frye

PHILONOTIS

acicularis (C. Müll.) Kindb. — S. Georgia: CLARKE 1973, p. 57, Fig. 4.

angusta Mitt. — Indian Peninsula: GANGULEE 1974, p. 1128, Map CCCXXXVII.

arnellii Husn. — See P. fontana (Hedw.) Brid. var. capillaris (Lindb.) Lindb.

caespitosa Jur. — Sweden: MÖLLER 1925, p. 125. Latvia: ABOLIN 1968, p. 199.

var. laxa Loeske et Warnst. — See P. caespitosa Jur. f. laxa (Loeske et Warnst.) Mönkem.

(PHILONOTIS contin.)

f. laxa (Loeske et Warnst.) Mönkem. — Sweden: MÖLLER 1925, p. 125 (P. caespitosa var. laxa).

calcarea (B.S.G.) Schimp. — Sweden: MÖLLER 1925, p. 128. Finland and W. USSR (S of lat. 68°N): TUOMIKOSKI 1939, p. 105, Karte 16.

falcata (Hook. f.) Mitt. — Japan, Corea and Formosa: OCHI 1963, Pl. 17. Afghanistan: W. FREY 1969, p. 355. World: WANG 1970, p. 408, Fig. 32. World: GANGULEE 1974, p. 1112, Map CCCXXXII.

fontana (Hedw.) Brid. — Sweden: MÖLLER 1925, p. 127 (P. seriata var. mollis). Sweden: MÖLLER 1925, p. 126. Japan and Corea: OCHI 1963, Pl. 20. World: GANGULEE 1974, p. 1118, Map CCCXXXIII.

var. adpressa (Ferg.) Limpr. — Sweden: MÖLLER 1925, p. 127. Sweden: MÖLLER 1925, p. 127 (P. seriata var. adpressa).

var. borealis Hag. — Sweden: MÖLLER 1925, p. 126 (P. tomentella var. borealis).

var. capillaris (Lindb.) Lindb. — Sweden: MÖLLER 1925, p. 125 (P. arnellii). Latvia: ABOLIN 1968, p. 199 (P. arnellii).

var. parvula (Norrl.) Lindb. — Sweden: MÖLLER 1925, p. 126.

var. pumila (Turn.) Brid. — Sweden: MÖLLER 1925, p. 125 (P. osterwaldii). Sweden: MÖLLER 1925, p. 125 (P. tomentella). Sweden: MÖLLER 1925, p. 126 (P. tomentella var. subcapillaris). Sweden: MÖLLER 1925, p. 126 (P. tomentella var. fontanoides and var. gracilis). Latvia: ABOLIN 1968, p. 199 (P. osterwaldii).

var. seriata (Mitt.) Kindb. — See P. seriata Mitt.

var. tenera Bauer ex Warnst. — See P. fontana (Hedw.) Brid. f. tenera (Bauer ex Warnst.) Podp.

f. tenera (Bauer ex Warnst.) Podp. — Sweden: MÖLLER 1925, p. 127 (P. fontana var. tenera).

glomerata Mitt. — See P. hastata (Dub.) Wijk et Marg.

hastata (Dub.) Wijk et Marg. — S. Hemisphere: JOVET-AST 1948, p. 45, Fig. 2 (P. imbricatula). E. Asia: OCHI 1963, Pl. 24. World: GANGULEE 1974, p. 1126, Map CCCXXXVI. SE. Asia: GANGULEE 1974, p. 1128, Map CCCXXXVII (P. glomerata).

(PHILONOTIS contin.)

imbricatula Mitt. — See *P. hastata* (Dub.) Wijk et Marg.

lancifolia Mitt. — Japan and Korea: OCHI 1963, Pl. 26.

laxa Limpr. — See *P. marchica* (Hedw.) Brid. f. *laxa* (Limpr.) Podp.

leptocarpa Mitt. — World: GANGULEE 1974, p. 1126, Map CCCXXXVI.

longiseta (Michx.) Britt. — E. Asia and N. America: WANG 1970, p. 407, Fig. 30 (*P. radicalis*).

marchica (Hedw.) Brid. — Sweden: MÖLLER 1925, p. 125. Poland (Warszawa reg.): REJMENT-GROCHOWSKA 1959, p. 282, Fig. 1. Latvia: ABOLIN 1968, p. 199.

f. laxa Podp. — Switzerland: J. AMANN 1928, p. 435, Fig. 12 (*P. laxa* Limpr.).

mollis (Doz. et Molk.) Mitt. — World: GANGULEE 1974, p. 1120, Map CCCXXXIV.

nitida Mitt. — See *P. revoluta* Bosch et Lac.

osterwaldii Warnst. — See *P. fontana* (Hedw.) Brid. var. *pumila* (Turn.) Brid.

radicalis Brid. — See *P. longiseta* (Michx.) Britt.

revoluta Bosch. et Lac. — Japan, Korea and Formosa: OCHI 1963, Pl. 22. SE. Asia: GANGULEE 1974, p. 1123, Map CCCXXXV (*P. nitida*).

scabrifolia (Hook. f. et Wils.) Braithw. — S. Georgia: CLARKE 1973, p. 60, Fig. 6.

seriata Mitt. — Sweden: MÖLLER 1925, p. 127. Japan and Korea: OCHI 1963, Pl. 21 (*P. fontana* var. *seriata*). World: GANGULEE 1974, p. 1118, Map CCCXXXIII.

var. adpressa (Ferg.) Bryhn — See *P. fontana* (Hedw.) Brid. var. *adpressa* (Ferg.) Limpr.

var. compacta Bryhn — See *P. seriata* Mitt. f. *compacta* (Bryhn) Podp.

var. mollis (Schimp.) Loeske — See *P. fontana* (Hedw.) Brid.

f. compacta (Bryhn) Podp. — Sweden: MÖLLER 1925, p. 127 (*P. seriata* var. *compacta*).

(PHILONOTIS contin.)

socia Mitt. — Japan, Korea and Formosa: OCHI 1963, Pl. 25.

Afghanistan: W. FREY 1969, p. 355.

speciosa (Griff.) Mitt. — World: GANGULEE 1974, p. 1112,

Map CCCXXXII.

sphaericarpa (Hedw.) Brid. — USA (Fla.), M. America and the

Antilles: SCHORNHERST 1943, p. 521, Map 8.

thwaitesii Mitt. — SE. Asia: GANGULEE 1974, p. 1123, Map CCCXXXV.

tomentella Mol. — See P. fontana (Hedw.) Brid. var. pumila (Turn.)
Brid.

var. borealis (Hag.) Loeske — See P. fontana (Hedw.) Brid. var.
borealis Hag.

var. fontanoides Loeske et Möll. — See P. fontana (Hedw.) Brid.

var. pumila (Turn.) Brid.

var. gracilis Loeske — See P. fontana (Hedw.) Brid. var. pumila
(Turn.) Brid.

var. subcapillaris (Kindb.) Loeske — See P. fontana (Hedw.) Brid.

var. pumila (Turn.) Brid.

turneriana (Schwaegr.) Mitt. — Japan, Korea and Formosa: OCHI 1963,
Pl. 23. Afghanistan: W. FREY 1969, p. 355, Asia, Australia and New
Zealand: WANG 1970, p. 405, Fig. 27. World: GANGULEE 1974, p. 1120,
Map CCCXXXIV.

vagans (Hook. et Wils.) Mitt. — S. Georgia: CLARKE 1973, p. 62,

Fig. 8. World (S of lat. 40°N): SEKI 1974, p. 81, Fig. 3.

PHYLLODREPANUM

falcifolium (Schwaegr.) Corsby — See Drepanophyllum falcifolium
(Schwaegr.) Wijk et Marg.

PHYLLOGONIUM

fulgens (Hedw.) Brid. — El Salvador: WINKLER 1964-65, p. 509,
Abb. 4.

PHYSCOMITRELLA

patens (Hedw.) B.S.G. — USSR (Moldavia): SIMONOV 1972, p. 31.

Germany (Schlesw.-Holst.): FRAHM & WALSEMANN 1973, p. 95.

PHYSCOMITRELLOPSIS

indica Dix. — Indian Peninsula: GANGULEE 1974, p. 841, Map CCLVI (Physcomitrium indicum)

PHYSCOMITRIUM

collenchymatum Gier — USA: CRUM & ANDERSON 1964, p. 354, Fig. 14.

coorgense Broth. — SE. Asia: GANGULEE 1974, p. 843, Map CCLVII.

cyathicarpum Mitt. — Indian Peninsula: GANGULEE 1974, p. 841, Map CCLVI.

eurystomum Sendtn. — Poland (Warszawa reg.): REJMENT-GROCHOWSKA 1959, p. 282, Fig. 1. Poland (Sokolów Podlaski): MICKIEWICZ 1960, p. 408, Fig. 2. E. Asia: OCHI 1968, p. 29, Fig. 14. The British Isles: WHITEHOUSE et al. 1971, p. 349; orig. B.J. O'Shea. World: GANGULEE 1974, p. 845, Map CCLVIII.

indicum (Dix.) Gang. — See Physcomitrellopsis indica Dix.

japonicum (Hedw.) Mitt. — E. Asia: OCHI 1968, p. 30, Fig. 15. SE. Asia: GANGULEE 1974, p. 847, Map CCLIX (P. japonicum and P. pulchellum).

pulchellum (Griff.) Mitt. — See P. japonicum (Hedw.) Mitt.

pyriforme (Hedw.) Hampe — Latvia: ABOLIN 1968, p. 151. England (Warwickshire): LAFLIN 1971, p. 715, Map 893. USSR (Moldavia): SIMONOV 1972, p. 31.

repandum (Griff.) Mitt. — SE. Asia: GANGULEE 1974, p. 843, Map CCLVII.

sphaericum (Ludw.) Fuernr. — E. Asia: OCHI 1968, p. 28, Fig. 15. The British Isles: WHITEHOUSE et al. 1971, p. 349; orig. B.J. O'Shea.

PILOTRICHELLA

flexilis (Hedw.) Aongstr. — El Salvador: WINKLER 1964-65, p. 509, Abb. 4.

PILOTRICHUM

affine (Hook.) Brid. — West Indies: CROSBY 1969a, p. 284, Fig. 19. West Indies: CROSBY 1969b, p. 413, Fig. 1.

andersonii Crosby — M. and S. America: CROSBY 1969a, p. 286, Fig. 24. M. and S. America: CROSBY 1969b, p. 415, Fig. 2.

(PILOTRICHUM contin.)

armatum Broth. — M. and S. America: CROSBY 1969a, p. 286, Fig. 24.

asperifolium Mitt. — M. and S. America: CROSBY 1969a, p. 286, Fig. 23.

bipinnatum (Schwaegr.) Brid. — M. and S. America: CROSBY 1969a, p. 284, Fig. 20.

var. evanescens (C. Müll.) C. Müll. — M. and S. America: CROSBY 1969a, p. 284, Fig. 18 (P. *evanescens*).

compositum (Hedw.) P. Beauv. — West Indies: CROSBY 1969a, p. 284, Fig. 19. West Indies: CROSBY 1969b, p. 413, Fig. 1.

corrugatum Ren. et Card. — M. America: CROSBY 1969a, p. 286, Fig. 23A.

cristatum Mitt. — West Indies: CROSBY 1969a, p. 284, Fig. 19. West Indies: CROSBY 1969b, p. 413, Fig. 1.

debile Besch. — Lesser Antilles: CROSBY 1969a, p. 284, Fig. 21.

divaricatum Mitt. — Lesser Antilles: CROSBY 1969a, p. 284, Fig. 21. West Indies: CROSBY 1969b, p. 415, Fig. 2.

evanescens (C. Müll.) Crosby — See P. *bipinnatum* (Schwaegr.) Brid. var. *evanescens* (C. Müll.) C. Müll.

fendleri C. Müll. — West Indies, M. and S. America: CROSBY 1969a, p. 286, Fig. 22.

husnotii Schimp. ex Besch. — Lesser Antilles: CROSBY 1969a, p. 284, Fig. 21. West Indies: CROSBY 1969b, p. 415, Fig. 2.

hypnoides (Hedw.) P. Beauv. — West Indies: CROSBY 1969a, p. 284, Fig. 19. West Indies: CROSBY 1969b, p. 413, Fig. 1.

longicaule Broth. — M. and S. America: CROSBY 1969a, p. 286, Fig. 23. M. and S. America: CROSBY 1969b, p. 415, Fig. 2.

lophophyllum Sull. — West Indies: CROSBY 1969a, p. 284, Fig. 19. West Indies: CROSBY 1969b, p. 413, Fig. 1 and p. 415, Fig. 2.

luciae Crosby — Lesser Antilles: CROSBY 1969a, p. 284, Fig. 21. West Indies: CROSBY 1969b, p. 415, Fig. 2.

procerum Mitt. — Lesser Antilles: CROSBY 1969a, p. 284, Fig. 21. West Indies: CROSBY 1969b, p. 413, Fig. 1 and p. 415, Fig. 2.

(PILOTRICHUM contin.)

ramosissimum Mitt. — M. and S. America: CROSBY 1969a, p. 286,
Fig. 24. M. and S. America: CROSBY 1969b, p. 415, Fig. 2.

rugifolium C. Müll. — M. America: CROSBY 1969a, p. 286, Fig. 23A.

PINNATELLA

makinoi (Broth.) Broth. — Japan: NOGUCHI 1951, p. 20, Map 62.
E. Asia: HORIKAWA 1955a, p. 122, Map 42.

PIREELLA

formosana Broth. — Japan and Formosa: NOGUCHI 1951, p. 21, Map 63.

PLAGIOBRYUM

zierii (Hedw.) Lindb. — Germany (Harz): MEUSEL 1939, p. 123,
Abb. 22. Poland (Jurassic Mountain Range): SZAFRAN 1955, p. 220,
Ryc. 95 (Zieria julacea). Spitzbergen: KUC 1973a, p. 462, Fig. 42.
World: GANGULEE 1974, p. 952, Map CCXCI.

PLAGIOMNIUM

affine (Funck) Kop. — See Mnium affine Bland. ex Funck

ciliare (C. Müll.) Kop. — See Mnium affine Bland.

cuspidatum (Hedw.) Kop. — See Mnium cuspidatum Hedw.

elatum (Br. Eur.) Kop. — See M. affine Funck var. elatum B.S.G.

ellipticum (Brid.) Kop. — See Mnium affine Funck var. rugicum
(Laur.) B.S.G.

insigne (Mitt.) Kop. — See Mnium insigne Mitt.

integrum (Bosch et Lac.) Kop. — See Mnium integrum Bosch et Lac.

maximoviczii (Lindb.) Kop. — See Mnium maximoviczii Lindb.

medium (B.S.G.) Kop. ssp. curvatulum (Lindb.) Kop. — See Mnium
medium B.S.G. ssp. curvatulum (Lindb.) Kindb.

ssp. medium — See Mnium medium B.S.G.

rhynchophorum (Hook.) Kop. — See Mnium rostratum Schrad. var.
javanicum Nees

rostratum (Schrad.) Kop. — See Mnium rostratum Schrad.

rugicum (Laur.) Kop. — See Mnium affine Funck var. rugicum (Laur.)
B.S.G.

(PLAGIOMNIUM contin.)

succulentum (Mitt.) Kop. — See *Mnium succulentum* Mitt.

tezukae (Sak.) Kop. — See *Mnium tezukae* Sak.

undulatum (Hedw.) Kop. — See *Mnium undulatum* Hedw.

vesicatum (Besch.) Kop. — See *Mnium vesicatum* Besch.

PLAGIOPUS

crassinervius (Mitt.) Broth. — World: GANGULEE 1974, p. 1081, Map CCCXXI.

oederi (Brid.) Limpr. — Sweden: MÖLLER 1925, p. 129. Germany (Harz): MEUSEL 1939, p. 123, Abb. 22. E. Germany, Poland and Czechoslovakia: SZAFRAN 1948, p. 48, Ryc. 25. Poland (Jurassic Mountain Range): SZAFRAN 1955, p. 220, Ryc. 95 (*Bartramia oederi*). Denmark: KJ. HOLMEN et al. 1959, p. 135, Fig. 67; orig. V. Tommerup Jensen. Japan: OCHI 1963, Pl. 19. S. Poland: KUC 1964, p. 141, Ryc. 33. Yugoslavia: MARTINCIC 1966, p. 26, Abb. 10. S. Germany (Schwarzwald): PHILIPPI 1971, p. 256, Abb. 2. N. Canada: KUC 1973b, p. 93, Fig. 34. Spitzbergen: KUC 1973a, p. 466, Fig. 59. World: GANGULEE 1974, p. 1081, Map CCCXXI. Greenland: LEWINSKY & MOGENSEN 1975, p. 111.

var. alpinus (Schwaegr.) Torre et Sarnth. — Sweden: MÖLLER 1925, p. 129. NW. Canada (Axel Heiberg Island): KUC 1973b, p. 86, Fig. 31.

PLAGIOTHECIELLA

latebricola (B.S.G.) Fleisch. — See *Plagiothecium latebricola* (Wils.) B.S.G.

pilifera (Hartm.) Fleisch. — See *Isopterygium piliferum* (Hartm.) Loeske

PLAGIOTHECIUM

cavifolium (Brid.) Iwats. — See *P. roeseanum* (Hampe) B.S.G.

curvifolium Schlieph. — Latvia: ABOLIN 1968, p. 286. Denmark: LEWINSKY 1974a, p. 214.

densifolium (Broth.) Limpr. — See *Taxiphyllum densifolium* (Broth.) Reim.

denticulatum (Hedw.) B.S.G. — SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 85. N. America: IRELAND 1969a, p. 112, Fig. 2. England

(PLAGIOTHECIUM contin.)

(Warwickshire): LAFLIN 1971, p. 733, Map 967. Spitzbergen: KUC 1973a, p. 471, Fig. 79. Denmark: LEWINSKY 1974a, p. 214. World: SCHOFIELD 1974, p. 23, Map 16.

latebricola B.S.G. — N. Norway: H. PERSSON 1939, p. 115. N. Germany: PANKOW & KÜHNER 1967, Tab. 23 (*Plagiotheciella latebricola*). N. America: IRELAND 1969a, p. 112, Fig. 2. England (Warwickshire): LAFLIN 1971, p. 733, Map 966.

laetum B.S.G. — N. America: IRELAND 1969a, p. 113, Fig. 3. Denmark: LEWINSKY 1974a, p. 214.

memorale (Mitt.) Jaeg. — See *P. sylvaticum* (Brid.) B.S.G.

piliferum (Hartm.) B.S.G. — See *Isopterygium piliferum* (Hartm.) Loeske

platyphyllum Moenk. — Norway (S of lat. 64°N): STÖRMER 1938, p. 93, Fig. 2.

roeseanum B.S.G. — Latvia: ABOLIN 1968, p. 286. N. America: IRELAND 1969a, p. 113, Fig. 3. Denmark: LEWINSKY 1974a, p. 215 (*P. cavifolium*).

ruthei Limpr. — World: MARTINCIC 1966, p. 33, Abb. 15. Denmark: LEWINSKY 1974a, p. 215.

striatellum (Brid.) Lindb. — Poland and Czechoslovakia: LISOWSKI 1955b, p. 300. N. America: IRELAND 1969, p. 114, Fig. 4 (*Sharpiella striatella*). Denmark: LEWINSKY 1974a, p. 213 (*Sharpiella striatella*).

succulentum (Wils.) Lindb. — N. Germany: PANKOW & KÜHNER 1967, Tab. 28. England (Warwickshire): LAFLIN 1971, p. 734, Map 968. Denmark: LEWINSKY 1974a, p. 215.

sylvaticum (Brid.) B.S.G. — England (Warwickshire): LAFLIN 1971, p. 734, Map 969. Denmark: LEWINSKY 1974a, p. 215 (*P. memorale*).

undulatum (Hedw.) B.S.G. — Sweden (S of lat. 64°5') and Finland: PERSSON 1936, p. 281, Fig. 1. N. Norway (N of lat. 66°N): RØNNING 1954, p. 19. Sweden (Stockholm reg.): KRUSENSTJERNA 1964, p. 11, Fig. 1. E. Germany (Mecklenburg): PANKOW 1965, p. 172, Abb. 1. NE. Poland: GOCLAWSKA & SOKOLOWSKI 1966, p. 180, Fig. 1. S. Poland (W. Carpathians): LISOWSKI & KORNÁŠ 1966, p. 62, Fig. 3. N. America:

(PLAGIOTHECIUM contin.)

IRELAND 1969a, p. 111, Fig. 1. Europe and W. Asia: STÖRMER 1969, p. 127, Fig. 71. Norway: STÖRMER 1969, p. 125, Fig. 70. SW. Norway (Tel., Rog.): LYE 1970, p. 28, Fig. 2. England (Warwickshire): LAFLIN 1971, p. 734, Map 970. World: SCHOFIELD & CRUM 1972, p. 189, Map 27. Sweden (Sm.): NICKLASSON 1972, p. 404, Fig. 17A. The British Isles: J.H. DICKSON 1973, p. 159, Fig. 73. Denmark: LEWINSKY 1974a, p. 213.

PLASTEURHYNCHIUM

meridionale (B.S.G.) Fleisch. — Europe, Macaronesia and N. Africa: HOLMEN & RASMUSSEN 1972, p. 113, Fig. 1.

striatulum (Spruce) Fleisch. — Sweden (S of lat. 60°N): WALDHEIM 1934, p. 239, Fig. 3 (Eurhynchium striatulum). Europe: STÖRMER 1955, p. 93, Fig. 3 (Isothecium striatulum). The British Isles: PROCTOR 1960, p. 6, Fig. 2 (Isothecium striatulum). SW. Germany: DÜLL 1969, p. 296, Taf. 5. Norway (S of lat. 66°N): STÖRMER 1969, p. 156, Fig. 95 (Isothecium striatulum). Europe, N. Africa and W. Asia: STÖRMER 1969, p. 156, Fig. 96 (Isothecium striatulum). Europe and Asia: ABRAMOVA & VOLKOVA 1974, p. 326 (Eurhynchium striatulum).

PLATYDICTYA

fauriei (Card.) Iwats. et Nog. — See Amblystegiella fauriei Card.

hattorii Kanda — Japan: KANDA 1975, p. 228, Fig. 12.

jungermannioides (Brid.) Crum — See Amblystegiella jungermannioides (Brid.) Giac.

shiroumensis Kanda — Japan: KANDA 1975, p. 228, Fig. 12.

subtilis (Hedw.) Crum — See Amblystegiella subtilis (Hedw.) Loeske

PLATYGYRIUM

repens (Brid.) B.S.G. — N. America: SCHORNHERST 1946, p. 161, Fig. 8. Denmark: KJ. HOLMEN et al. 1959, p. 147, Fig. 113; orig. V.B. Mikkelsen. Latvia: ABOLIN 1968, p. 290. USSR (Moldavia): SIMONOV 1972, p. 59. Canada (Montréal reg.): LeBLANC & SLOOVER 1972, p. 41.

f. gemniclada (Limpr.) Loeske — Poland (Warszawa distr.) MICKIEWICZ 1968, p. 625, Ryc. 5.

PLATYNEURUM

laticostatum (Card.) Broth. — S. Georgia: BELL 1973, p. 44, Fig. 10.

PLATYHYPNIDIUM

riparioides (Hedw.) Dix. — S. Finland (Nyl., Ekenäs reg.): LUTHER 1951, p. 229, Karte 92 (*Rhynchostegium riparioides*). England (Warwickshire): LAFLIN 1971, p. 731, Map 957 (*Eurhynchium riparioides*).

PLEURIDIELLA

colei Robins. — SE. Asia: GANGULEE 1971, p. 183, Map XLV.

PLEURIDIUM

acuminatum Lindb. — England (Warwickshire): LAFLIN 1971, p. 703, Map 844.

alternifolium (Hedw.) Brid. — See *Archidium alternifolium* (Hedw.) Mitt.

nervosum (Hook.) Mitt. — Africa (Cape reg.): SNIDER 1975, p. 111, Map 5 (*Archidium julicaule*).

palustre (Bruch et Schimp.) B.S.G. — Sweden (Sk.): WALDHEIM 1947, p. 181, Fig. 37 (*Sporledera palustris*). Hungary, Rumania and adjacent countries: ORBÁN & DEBRECZY 1973, p. 96, Karte 5.

subulatum (Hedw.) Rabenh. — Latvia: ABOLIN 1968, p. 100. E. Germany (Mecklenburg): KÜHNER 1971, p. 465, Karte 3. USSR (Moldavia): SIMONOV 1972, p. 21. Hungary, Rumania and adjacent countries: ORBÁN & DEBRECZY 1973, p. 96, Karte 5.

tenu Mitt. — SE. Asia: GANGULEE 1971, p. 183, Map XLV.

PLEUROCHAETE

beccarii Vent. — World: GIACOMINI 1951, p. 99, Carta 5.

ecuadoriensis Broth. — World: GIACOMINI 1951, p. 99, Carta 5.

squarrosa (Brid.) Lindb. — Europe (between lat. 41° and 62°N): HERZOG 1926, p. 251, Fig. 95. Europe and N. Africa: J. AMANN 1928, p. 309, Fig. 6. Switzerland: J. AMANN 1928, p. 431, Fig. 10. Germany (Fränkischen Alb): GAUCKLER 1938, p. 111, Karte 23. N. America: SHARP 1939, p. 344, Fig. 34. Germany (SW. Harz): REIMERS 1940, p. 106, Karte 2. Germany (Fränkischen Alb, Bayer. Ostmark): GAUCKLER 1940, p. 68, Karte 1. Germany (Bellinchen): REIMERS 1941,

(PLEUROCHAETE contin.)

p. 200. N. Italy: GIACOMINI 1951, p. 98, Carta 4. World: GIACOMINI 1951, p. 99, Carta 5. Poland: KUC 1964, p. 23, Ryc. 5. The British Isles: WHITEHOUSE et al. 1967, p. 367; orig. H.J.B. Birks.
M. Europe: NEUMAYR 1971, p. 103, Abb. 23. Germany (Fränkischen Alb): NEUMAYR 1971, p. 104, Abb. 24.

PLEUROPUS

sciureus (Mitt.) Toyama — See Homalothecium sciureum (Mitt.) Besch.

PLEUROWEISIA

schliephackei Limpr. — Switzerland: J. AMANN 1928, p. 437, Fig.13.

PLEUROZIOPSIS

ruthenica (Weinm.) Kindb. — See Girgensohnia ruthenica (Weinm.) Kindb.

PLEUROZIUM

schreberi (Brid.) Mitt. — N. America: WYNNE 1945, p. 151, Map 4. E. Asia: HORIKAWA 1955a, p. 41, Map 14. Denmark: KJ. HOLMEN et al. 1959, p. 145, Fig. 106; orig. G. Skovgaard Christensen. Finland: KUJALA 1962, p. 3, Karte 1. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 81 (Entodon schreberi). The British Isles: LONGTON & GREENE 1969, p. 109, Fig. 1 and p. 110, Fig. 2. N. Canada: KUC 1969a, p. 639, Fig. 3. England (Warwickshire): LAFLIN 1971, p. 733, Map 964. Japan, Formosa and Korea: HORIKAWA 1971, Map 34. E. Asia: HORIKAWA 1972, Map 481. USSR (Moldavia): SIMONOV 1972, p. 59. Spitzbergen: KUC 1973a, p. 471, Fig. 78 (Entodon schreberi).

POGONATUM

akitense Besch. — Japan: OSADA 1966, p. 42, Map 2c. E. Asia: GANGULEE 1969, p. 105, Map XXVI.

var. urasawai (Sak.) Osada — See P. urasawai Sak.

aloides (Hedw.) P. Beauv. — Sweden: MÖLLER 1919, p. 71 (P. nanum (Weis) Möll. Sweden (Sk.): WALDHEIM 1947, p. 163, Fig. 26. USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 227. World: ABRAMOVA & ABRAMOV 1955, p. 255. Denmark: KJ. HOLMEN et al. 1959, p. 123, Fig. 20; orig. V. Tommerup Jensen. Latvia: ABOLIN 1968, p. 84. World: GANGULEE 1969, p. 100, Map XXV (P. aloides f. aloides).

(*POGONATUM* contin.)

var. minimum (Crome) Mol. — Sweden: MÖLLER 1919, p. 71 (*P. nanum* (Weis) Möll. var. *minimum* (Crome) Möll.). S. Poland (W. Carpathians): LISOWSKI & KORNAŚ 1966, p. 62, Fig. 3.

f. neesii (C. Müll.) Gang. — See *P. junghuhnianum* (Doz. et Molk.) Doz. et Molk.

alpinum (Hedw.) Röhl. — See *Polytrichum alpinum* Hedw.

brachyphyllum (Mich.) P. Beauv. — USA (Pa.): MOUL 1952, p. 150, Fig. 11.

capillare (Michx.) Brid. — Sweden: MÖLLER 1919, p. 71, Finland (Kuusamo): TUOMIKOSKI 1939, p. 112, Karte 19. USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 241. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 39. Japan: OSADA 1966, p. 45, Map 5c. World: VAARAMA 1967, p. 210, Fig. 1. N. Norway, NE. Sweden, Finland and W. USSR: VAARAMA 1967, p. 211, Fig. 2.

cirratum (Sw.) Brid. — World: GANGULEE 1969, p. 115, Map XXVIII.

contortum (Brid.) Lesq. — USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 235. E. Asia: HORIKAWA 1955a, p. 63, Map 22. E. Asia and N. America: SCHOFIELD 1965, p. 20, Map 8. Japan: OSADA 1966, p. 43, Map 3b. World: GANGULEE 1969, p. 115, Map XXVIII. E. Asia and N. America: WANG 1970, p. 407, Fig. 31. Japan: IWATSUKI 1972b, p. 129, Fig. 17. World: IWATSUKI 1972b, p. 129, Fig. 17. E. Asia: HORIKAWA 1972, Map 486.

decolyi Gang. — Indian Peninsula: GANGULEE 1969, p. 122, Map XXX.

fastigiatum Mitt. — E. Asia: GANGULEE 1969, p. 137, Map XXXIII.

flexicaule Mitt. — See *P. macrophyllum* Doz. et Molk.

fuscatum Mitt. — Indian Peninsula: GANGULEE 1969, p. 109, Map XXVII.

grandifolium (Lindb.) Jaeg. — E. Asia: HORIKAWA 1952a, p. 112, Map 3. USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 237. E. Asia: HORIKAWA 1955a, p. 126, Map 44. Japan: OSADA 1966, p. 45, Map 5b. Japan and Korea: HORIKAWA 1971, Map 36. E. Asia: HORIKAWA 1972, Map 487.

gymnophyllum Mitt. — E. Asia: GANGULEE 1969, p. 142, Map XXXIV.

hexagonum Mitt. — See *P. junghuhnianum* (Doz. et Molk.) Doz. et Molk.

(POGONATUM contin.)

himalayanum Mitt. — World: GANGULEE 1969, p. 147, Map XXXV.

inflexum (Lindb.) Lac. — USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 232. World: ABRAMOVA & ABRAMOV 1955, p. 255. Japan: OSADA 1966, p. 42, Map 2d.

junghuhnianum (Doz. et Molk.) Doz. et Molk. — E. Asia: GANGULEE 1969, p. 105, Map XXVI. Indina Peninsula: GANGULEE 1969, p. 127, Map CCCI (P. hexagonum). World: GANGULEE 1969, p. 100, Map XXV (P. aloides f. neesii).

leucopogon Ren. et Card. — Indian Peninsula: GANGULEE 1969, p. 122, Map XXX.

loricalyx (C. Müll.) Par. — USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 243.

macrophyllum Doz. et Molk. — E. Asia: GANGULEE 1969, p. 132, Map XXXII (P. lfexicaule).

micro-capillare (C. Müll.) Par. — USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 242.

microstomum (Schwaegr.) Brid. — E. Asia: GANGULEE 1969, p. 142, Map XXXIV. SE. Asia: WANG 1970, p. 409, Fig. 34.

muticum Broth. — E. Asia: GANGULEE 1969, p. 156, Map XXXVII.

nanum (Weis) Möll. — See P. aloides (Hedw.) P. Beauv.

nanum (Hedw.) P. Beauv. — Sweden: MÖLLER 1919, p. 71 (P. polytrichoides). Sweden (Sk.): WALDHEIM 1947, p. 163, Fig. 26. USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 225. Denmark: KJ. HOLMEN et al. 1959, p. 123, Fig. 21; orig. V. Tommerup Jensen. N. Germany: PANKOW & KUHNER 1967, Tab. 20. Latvia: ABOLIN 1968, p. 84.

var. longisetum B.S.G. — Sweden: MÖLLER 1919, p. 71 (P. polytrichoides var. longisetum).

var. minimum (Crome) Möll. — See P. aloides (Hedw.) P. Beauv. var. minimum (Crome) Mol.

nipponicum Nog. et Osada — Japan: OSADA 1966, p. 42, Map 2b.

nudiusculum Mitt. — E. Asia: GANGULEE 1969, p. 132, Map XXXII.

(POGONATUM contin.)

otaruense Besch. — Japan: OSADA 1966, p. 42, Map 2b.

papillosulum Card. et Dix. — Indian Peninsula: GANGULEE 1969, p. 127, Map XXXI.

patulum (Harv.) Mitt. — Indian Peninsula: GANGULEE 1969, p. 122, Map XXX.

perichaetiale (Mont.) Jaeg. — E. Asia: GANGULEE 1969, p. 153, Map XXXVI.

polytrichoides Brockm. — See *P. nanum* (Hedw.) P. Beauv.

var. longisetum (B.S.G.) Möll. — See *P. nanum* (Hedw.) P. Beauv.

var. longisetum B.S.G.

proliferum (Griff.) Mitt. — E. Asia: GANGULEE 1969, p. 137, Map XXXIII.

robustum Mitt. — El Salvador: WINKLER 1964-65, p. 509, Abb. 4.

rufisetum Mitt. — Indian Peninsula: GANGULEE 1969, p. 109, Map XXVII.

seminudum Mitt. — E. Asia: GANGULEE 1969, p. 132, Map XXXII.

sphaerothecium Besch. — See *Polytrichum sphaerothecium* (Besch.) C. Müll.

spinulosum Mitt. — USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 231. E. Asia: HORIKAWA 1955a, p. 129, Map 45. E. Asia: HORIKAWA 1972, Map 488. Japan: OSADA 1966, p. 43, Map 3a.

spurio-cirratum Broth. — Japan: OSADA 1966, p. 42, Map 2a.

stevensii Ren. et Card. — E. Asia: GANGULEE 1969, p. 119, Map XXIX.

strictifolium Broth. ex Gang. — Indian Peninsula: GANGULEE 1969, p. 127, Map XXXI.

subtortile (C. Müll.) Jaeg. var. teysmannianum (Doz. et Molk.) Wijk et Marg. — E. Asia and Australia: GANGULEE 1969, p. 119, Map XXIX.

thomsonii (Mitt.) Jaeg. — E. Asia: GANGULEE 1969, p. 153, Map XXXVI.

tortipes (Mitt.) Jaeg. — E. Asia: GANGULEE 1969, p. 156, Map XXXVII.

(*POGONATUM* contin.)

urasawai Sak. — Japan: OSADA 1966, p. 42, Map 2c (*P. akitense* var. *urasawai*).

urnigerum (Hedw.) P. Beauv. — Sweden: MÖLLER 1919, p. 72 (*P. urnigerum* var. *humile*). Sweden: MÖLLER 1919, p. 71. USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 244. E. Asia: HORIKAWA 1955a, p. 25, Map 9. Denmark: KJ. HOLMEN et al. 1959, p. 122, Fig. 19; orig. V. Tommerup Jensen. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 40. Japan: OSADA 1966, p. 43, Map 3c. Latvia: ABOLIN 1968, p. 84. World: GANGULEE 1969, p. 147, Map XXXV. Spitzbergen: KUC 1973a, p. 454, Fig. 9.

var. humile (Wahlenb.) Brid. — See *P. urnigerum* (Hedw.) P. Beauv.

var. subintegrifolium (Arn. et Jens.) Möll. — Sweden: MÖLLER 1919, p. 72.

POHLIA

acuminata Hoppe et Hornsch. — See *P. minor* Schwaegr. ssp. *acuminata* (Hoppe et Hornsch.) Wijk et Marg.

ampullacea Gang. — World: GANGULEE 1974, p. 923, Map CCLXXXIV.

annotina (Hedw.) Loeske — See *P. camptotrachela* (Ren. et Card.) Broth.

bulbifera (Warnst.) Warnst. — Sweden (Sk.): WALDHEIM 1947, p. 179, Fig. 35 (*Webera bulbifera*). Canada (Quebec): KUCYNIK 1954c, p. 200, Fig. 1 and 1957, p. 251, Fig. 1.

commutata (Schimp.) Lindb. — See *P. drummondii* (C. Müll.) Andrews

camptotrachela (Ren. et Card.) Broth. — Sweden (Sk.): WALDHEIM 1947, p. 182, Fig. 38 (*Webera annotina*). Sweden (Sk.): WALDHEIM 1947, p. 180, Fig. 36 (*Webera grandiflora*). Japan: OCHI 1959, p. 114, Map 7. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 63 (*P. grandiflora*). Latvia: ABOLIN 1968, p. 157. England (Warwickshire): LAFLIN 1971, p. 716, Map 899 (*P. annotina*). World: GANGULEE 1974, p. 911, Map CCLXXXI. Iberia: CASAS DE PUIG 1975b, p. 734, Fig. 2.

var. vestitissima (Sak.) Ochi — Japan: OCHI 1959, p. 114, Map 7.

cruda (Hedw.) Lindb. — Latvia: ABOLIN 1968, p. 157. Antarctic and

(POHLIA contin.)

Subantarctic: GREENE et al. 1970, p. 20, Fig. 12. S. Georgia:

CLARKE 1973, p. 67, Fig. 12. World: GANGULEE 1974, p. 925,

Map CCLXXXV.

crudoides (Sull. et Lesq.) Broth. — Japan: OCHI 1959, p. 112,

Map 5. World: SLJAKOV 1961, p. 215. Europe and Asia: BARDUNOV 1965,

p. 83. Spitzbergen: KUC 1973a, p. 462, Fig. 43. Europe and Asia:

BARDUNOV 1974, p. 37. World: GANGULEE 1974, p. 917, Map CCLXXXIII.

cucullata (Schwaegr.) Lindb. — See *P. obtusifolia* (Brid.) L. Koch

delicatula (Hedw.) Grout — See *Mniobryum delicatulum* (Hedw.) Dix.

drummondii (C. Müll.) Andrews — Finland (Kuusamo): TUOMIKOSKI

1939, p. 112, Karte 18 (*P. commutata*). Canada (Quebec): KUCYNIAK

1954c, p. 200, Fig. 1. SW. Spitzbergen (Hornsund): KUC 1963a,

Fig. 62. Spitzbergen: KUC 1973a, p. 462, Fig. 44.

elongata Hedw. — Poland (E. Lublin upland): KARCZMARZ & KUC 1962,

p. 486, Fig. 1. Latvia: ABOLIN 1968, p. 157. Poland (NW. Sudet):

WILCZYŃSKA 1974, p. 97, Ryc. 8. World: GANGULEE 1974, p. 917,

Map CCLXXXIII.

fauriei (Card.) Ihs. — Japan and Formosa: OCHI 1959, p. 116,

Map 12.

filiformis (Dicks.) Andrews — See *Anomobryum filiforme* (Dicks.)

Husn.

flexuosa Hook. — Japan and Formosa: OCHI 1959, p. 115, Map 9.

World: GANGULEE 1974, p. 911, Map CCLXXXI.

gedeana (Bosch et Lac.) Gang. — See *Bryum gedeanum* Bosch et Lac.

grandiflora H. Lindb. — See *P. camptotrachela* (Ren. et Card.)

Broth.

himalayana (Mitt.) Broth. — Indian Peninsula: GANGULEE 1974,

p. 915, Map CCLXXXII.

implexa (C. Müll.) Wijk et Marg. — S. Georgia: CLARKE 1973, p. 69,

Fig. 14.

leucostomoides (Broth.) Bartr. — Japan: OCHI 1959, p. 115, Map 10.

longicollis (Hedw.) Lindb. — World: GANGULEE 1974, p. 925,

Map CCLXXXV.

(POHLIA contin.)

ludwigii (Schwaegr.) Broth. — See *Mniobryum ludwigii* (Schwaegr.) Loeske

minor Schleich. ex Schwaegr. — World: GANGULEE 1974, p. 923, Map CCLXXXIV.

ssp. acuminata (Hopp. et Hornsch.) Wijk et Marg. — Japan: OCHI 1959, p. 111, Map 4 (*P. acuminata*). World: GANGULEE 1974, p. 923, Map CCLXXXIV.

nutans (Hedw.) Lindb. — Japan: OCHI 1959, p. 108, Map 2. Antarctic and Subantarctic: GREENE et al. 1970, p. 22, Fig. 14. England (Warwickshire): LAFLIN 1971, p. 716, Map 898. S. Georgia: CLARKE 1973, p. 71, Fig. 16.

obtusifolia (Brid.) L. Koch — Finland (Kuusamo): TUOMIKOSKI 1939, p. 112, Karte 19 (*P. cucullata*). Canada (Quebec): KUCYNIK 1958b, p. 98, Fig. 1 (*P. cucullata*). Spitzbergen: KUC 1973a, p. 462, Fig. 43.

otaruensis (Card.) Ihs. — Japan: OCHI 1959, p. 116, Map 11.

proligera (Kindb.) Arn. — Sweden (Sk.): WALDHEIM 1947, p. 182, Fig. 38 (*Webera proligera*). E. Canada: KUCYNIK 1952b, p. 234, Fig. 2.

rigescens (Mitt.) Broth. — Indian Peninsula: GANGULEE 1974, p. 915, Map CCLXXXII.

rutilans Broth. — See *P. schimperi* (C. Müll.) Andrews — World: SLJAKOV 1961, p. 215. Spitzbergen: KUC 1973a, p. 462, fig. 42 (*P. rutilans*).

sphagnicola (B.S.G.) Broth. — Canada (Quebec): KUCYNIK 1957, p. 251, Fig. 1. SE. Poland: KARCZMARZ 1964, p. 408, Ryc. 7.

tozeri (Grev.) Delogn. — See *Epipterygium tozeri* (Grev.) Lindb.

wahlenbergii (Web. et Mohr) Andrews — See *Mniobryum wahlenbergii* (Web. et Mohr) Jenn.

var. glacialis (Brid.) Warb. — See *Mniobryum wahlenbergii* (Web. et Mohr) Jenn. var. glaciale (Brid.) Wijk et Marg.

POLYTRICHUM

alpestre Hopp. — See *P. juniperinum* Hedw. var. *affine* (Funck) Brid.

alpinum Hedw. — Sweden: MÖLLER 1921, p. 109. USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 252. E. Asia: HORIKAWA 1955a, p. 45, Map 15. N. America (E. part): IRELAND 1960, p. 47, Fig. 1 (*Pogonatum alpinum*). Japan: OSADA 1966, p. 45, Map 5c (*Pogonatum alpinum*). World: GANGULEE 1969, p. 162, Map XXXIX. Antarctic and Subantarctic: GREENE et al. 1970, p. 28, Fig. 18. Canada (Queen Elisabeth Island): BRASSARD 1971, p. 262, Fig. 13 (*Pogonatum alpinum*). S. Georgia: LONGTON 1972, p. 57, Fig. 3. E. Asia: HORIKAWA 1972, Map 489. The British Isles: J.H. DICKSON 1973, p. 77, Fig. 34. S. Georgia: GREENE 1973, p. 17, Fig. 8.

var. arcticum (Schrad.) Wg. — Sweden: MÖLLER 1921, p. 109 (*P. alpinum* var. *silvaticum*).

var. brevifolium (R. Br.) C. Müll. — Sweden: MÖLLER 1921, p. 109 (*P. alpinum* var. *campanulatum*). Sweden: MÖLLER 1921, p. 109 (*P. alpinum* var. *simplex*).

var. campanulatum (Hornsch.) C. Müll. — See *P. alpinum* Hedw. var. *brevifolium* (R. Br.) C. Müll.

var. septentrionale (Sw.) Lindb. — Sweden: MÖLLER 1921, p. 109.

var. silvaticum (Menz.) Lindb. — See *P. alpinum* Hedw. var. *arcticum* (Schrad.) Wg.

var. simplex (Schimp.) Limpr. — See *P. alpinum* Hedw. var. *brevifolium* (R. Br.) C. Müll.

var. voraginum Möll. — Sweden: MÖLLER 1921, p. 109.

attenuatum Menz. ex Brid. — See *P. formosum* Hedw.

var. brachycaule Möll. — See *P. formosum* Hedw. var. *brachycaule* (Möll.) Podp.

var. pallidisetum (Funck) Möll. — See *P. formosum* Hedw.

aurantiacum Hopp. ex Brid. — See *P. longisetum* Brid.

commune Hedw. — Sweden: MÖLLER 1921, p. 110 (*P. commune*, *P. commune* var. *minus* and var. *uliginosum*). NW. Netherlands (Alkmar reg.): BARKMAN 1941, p. 337, Fig. 11. USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 269. Denmark: KJ. HOLMEN et al. 1959,

(POLYTRICHUM contin.)

p. 121, Fig. 15; orig. Tyge Christensen. Finland: KUJALA 1964, Karta 181. Japan: OSADA 1966, p. 44, Map 4a. England (Warwickshire): LAFLIN 1971, p. 700, Map 835. Spitzbergen: KUC 1973a, p. 454, Fig. 10.

ssp. swartzii (Hartm.) C. Hartm. — Sweden: MÖLLER 1921, p. 110 (P. swartzii). USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 273 (P. swartzii). Denmark: KJ. HOLMEN et al. 1959, p. 122, Fig. 16; orig. Tyge Christensen (P. swartzii). Japan: OSADA 1966, p. 44, Map 4b.

var. maximovickizii Lindb. — Japan: OSADA 1966, p. 44, Map 4a.

var. minus Weis ex De Not. — See P. commune Hedw.

var. perigoniale (Michaux) Hampe — Sweden: MÖLLER 1921, p. 110.

var. swartzii (Hartm.) Mönkem. — See P. commune Hedw. ssp. swartzii (Hartm.) C. Hartm.

var. uliginosum Wallr. — See P. commune Hedw.

decipiens Limpr. — See P. ohioense Ren. et Card.

densifolium Wils. ex Mitt. — Japan: OSADA 1966, p. 43, Map 3d (P. formosum var. densifolium). E. Asia: GANGULEE 1969, p. 164, Map XL.

formosum Hedw. — Sweden: MÖLLER 1921, p. 109 (P. attenuatum var. pallidisetum). Sweden: MÖLLER 1921, p. 109 (P. attenuatum and P. gracile var. anomalum). USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 260. Denmark: KJ. HOLMEN et al. 1959, p. 122, Fig. 17; orig. Tyge Christensen. World: GANGULEE 1969, p. 168, Map XLI. USSR (Moldavia): SIMONOV 1972, p. 17.

var. brachycaule (Möhl.) Podp. — Sweden: MÖLLER 1921, p. 109 (P. attenuatum var. brachycaule).

var. densifolium (Mitt.) Osada — See P. densifolium Wils. ex Mitt.

var. intersedens (Card.) Osada — See P. intersedens Card.

fragile Bryhn — USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 257. Spitzbergen: KUC 1963b, p. 144, Fig. 2. Spitzbergen: KUC 1973a, p. 455, Fig. 14.

gracile Dicks. — See p. Longisetum Brid.

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var. anomalum (Milde) Hag. — See *P. formosum* Hedw.

hyperboreum R. Brown — See *P. piliferum* Hedw. var. *hyperboreum* (R. Brown) C. Müll.

intersedens Card. — Japan: OSADA 1966, p. 43, Map 3d (*P. formosum* var. *intersedens*).

jensenii Hag. — Sweden: MÖLLER 1921, p. 110. USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 275.

juniperinum Hedw. — Sweden: MÖLLER 1921, p. 110. Sweden: MÖLLER 1921, p. 110 (*P. juniperinum* var. *alpinum*). Sweden: MÖLLER 1921, p. 111 (*P. pilosum* var. *hoppei*). USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 282. E. Asia: HORIKAWA 1955a, p. 28, Map 10. Denmark: KJ. HOLMEN et al. 1959, p. 121, Fig. 13; orig. Tyge Christensen. Japan: OSADA 1966, p. 44, Map 4d. World: GANGULEE 1969, p. 168, Map XLI. W. France: TOUFFET 1969b, p. 53, Fig. 7 (*P. strictum*). Antarctic and Subantarctic: GREENE et al. 1970, p. 30, Fig. 20. England (Warwickshire): LAFLIN 1971, p. 700, Map 832. S. Georgia: LONGTON 1972, p. 58, Fig. 4. USSR (Moldavia): SIMONOV 1972, p. 21. S. Georgia: GREENE 1973, p. 20, Fig. 10.

ssp. strictum (Brid.) Nyl. et Sael. — Sweden: MÖLLER 1921, p. 110 (*P. strictum*). USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 285 (*P. strictum*). Denmark: KJ. HOLMEN et al. 1959, p. 121, Fig. 13a; orig. Tyge Christensen (*P. juniperinum* var. *strictum*). Japan: OSADA 1966, p. 44, Map 4d (*P. juniperinum* var. *gracilius*).

var. affine (Funck) Brid. — Sweden: MÖLLER 1921, p. 110 (*P. strictum* var. *alpestre*). Subantarctic (S. Georgia): LONGTON & GREENE 1967, p. 297, Fig. 43 (*P. alpestre*). Antarctic and Subantarctic: GREENE et al. 1970, p. 25, Fig. 16 (*P. alpestre*). Subantarctic (S. Georgia): LONGTON 1972, p. 57, Fig. 2 (*P. alpestre*). Subantarctic (S. Georgia): GREENE 1973, p. 15, Fig. 6 (*P. alpestre*).

var. alpinum Schimp. — See *P. juniperinum* Hedw.

var. gracilius Wahlenb. — See *P. juniperinum* Hedw. ssp. *strictum* (Brid.) Nyl. et Sael.

var. strictum (Brid.) Röhl. — See *P. juniperinum* Hedw. ssp. *strictum* (Brid.) Nyl. et Sael.

(POLYTRICHUM contin.)

longisetum Brid. — Sweden: MÖLLER 1921, p. 109 (P. gracile). USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 262 (P. gracile). Denmark: KJ. HOLMEN et al. 1959, p. 122, Fig. 18; orig. Tyge Christensen (P. aurantiacum). Europe and Asia: KUC 1963a, p. 306, Fig. 5 (P. gracile). Japan: OSADA 1966, p. 45, Map 5d (P. gracile). England (Warwickshire): LAFLIN 1971, p. 700, Map 833 (P. aurantiacum).

norvegicum Hedw. — Sweden: MÖLLER 1921, p. 110 (P. sexangulare). USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 279. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 41. Japan: OSADA 1966, p. 45, Map 5d. Europe: MARTINCIC 1966, p. 10, Abb. 1. Yugoslavia: MARTINCIC 1966, p. 12, Abb. 4. The British Isles: WHITEHOUSE et al. 1968, p. 593; orig. H.J.B. Birks. Spitzbergen: KUC 1973a, p. 454, Fig. 11.

ohioense Ren. et Card. — Sweden: MÖLLER 1921, p. 109 (P. decipiens). USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 265 (P. decipiens). S. Poland (W. Carpathians): SZAFRAN 1965, p. 606, Fig. 1 and p. 608, Fig. 2. Japan: OSADA 1966, p. 44, Map 4c. Latvia: ABOLIN 1968, p. 84 (P. decipiens). Poland (Silesia): BERDOWSKI 1974, p. 20, Mapa 3 (P. decipiens).

piliferum Hedw. — Sweden: MÖLLER 1921, p. 111 (P. pilosum). USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 288. E. Asia: HORIKAWA 1955a, p. 47, Map 16. Denmark: KJ. HOLMEN et al. 1959, p. 121, Fig. 14; orig. Tyge Christensen. Japan: OSADA 1966, p. 46, Map 6d. Antarctic and Subantarctic: GREENE et al. 1970, p. 33, Fig. 22. England (Warwickshire): LAFLIN 1971, p. 699, Map 831. USSR (Moldavia): SIMONOV 1972, p. 21. S. Georgia: LONGTON 1972, p. 58, Fig. 5. Spitzbergen: KUC 1973a, p. 454, Fig. 12. S. Georgia: GREENE 1973, p. 22, Fig. 12.

var. hyperboreum (R. Brown) C. Müll. — Sweden: MÖLLER 1921, p. 111 (P. hyperboreum). Finland (Kuusamo): TUOMIKOSKI 1939, p. 112, Karte 19 (P. hyperboreum). USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 291 (P. hyperboreum). SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 42 (P. hyperboreum). Spitzbergen: KUC 1973a, p. 455, Fig. 13 (P. hyperboreum).

(POLYTRICHUM contin.)

piliferum Hedw. f. fastigiatum (Lindb.) Podp. — Sweden: MÖLLER 1921, p. 111 (P. pilosum var. fastigiatum).

pilosum Neck. ex Lindb. — See P. piliferum Hedw.

var. fastigiatum Lindb. — See P. piliferum Hedw. f. fastigiatum (Lindb.) Podp.

var. hoppei (Hornsch.) Lindb. — See P. juniperinum Hedw.

sexangulare Flörke ex Brid. — See P. norvegicum Hedw.

sphaerothecium (Besch.) C. Müll. — Japan: OSADA 1966, p. 42, Map 2a (Pogonatum sphaerothecium). World: SCHOFIELD & CRUM 1972, p. 187, Map 19.

strictum Menz. ex Brid. — See P. juniperinum Hedw. ssp. strictum (Brid.) Nyl. et Sael.

var. alpestre (Hopp.) Rabenh. — See P. juniperinum Hedw. var. affine Funck

swartzii Hartm. — See P. commune Hedw. ssp. swartzii (Hartm.) C. Hartm.

xanthopilum Wils. ex Mitt. — Indian Peninsula: GANGULEE 1969, p. 164, Map XL.

POROTRICHUM

cobanense C. Müll. — El Salvador: WINKLER 1964-65, p. 509, Abb. 4.

POTTIA

bryoides (Dicks.) Mitt. — Sweden (Sk.): WALDHEIM 1947, p. 174, Fig. 31. Netherlands: TOUW 1963, p. 91. E. Germany (Mecklenburg): KÜHNER 1971, p. 469, Karte 4 (Mildeella bryoides). USSR (Moldavia): SIMONOV 1972, p. 27.

davalliana (Sm.) C. Jens. — Netherlands: TOUW 1963, p. 96. England (Warwickshire): LAFLIN 1971, p. 709, Map 871.

heimii (Hedw.) Hampe — Poland: KARCZMARZ 1961c, p. 299, Fig. 1. Poland (E. Lublin upland): KARCZMARZ & KUC 1962, p. 486, Fig. 1. Netherlands: TOUW 1963, p. 93. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 58 (Desmatodon heimii). Poland: KUC 1964, p. 100, Ryc. 23. (Desmatodon heimii). Poland (Lower Nida): WACLAWSKA 1964, p. 368,

(POTTIA contin.)

Fig. 1. NE. Germany: KÜHNER & PANKOW 1967, p. 172, Abb. 4. Latvia: ABOLIN 1968, p. 136. Spitzbergen: KUC 1973a, p. 459, Fig. 31. Germany (Schlesw.-Holst.): FRAHM & WALSEMANN 1973, p. 89. World: SCHOFIELD 1974, p. 19, Map 8 (*Desmatodon heimii*). Poland (NW. Sudet): WILCZYŃSKA 1974, p. 62, Ryc. 3.

var. arctica Lindb. — Canada (Queen Elizabeth Island): BRASSARD 1971, p. 262, Fig. 15.

intermedia (Turn.) Fürnr. — Sweden (Sk.): WALDHEIM 1947, p. 128, Fig. 17. Netherlands: TOUW 1963, p. 96. Latvia: ABOLIN 1968, p. 136. England (Warwickshire): LAFLIN 1971, p. 709, Map 869. Japan: SAITO 1973, p. 68, Fig. 3.

lanceolata (Hedw.) C. Müll. — Sweden (Sk., Nävlingeås distr.): WEIMARCK 1944, p. 52, Fig. 22. Sweden (Sk., Sjöbo distr.): WALDHEIM 1947, p. 118, Fig. 15. Sweden (Sk.): WALDHEIM 1947, p. 169, Fig. 28. E. Germany (Mecklenburg): KÜHNER 1971, p. 469, Karte 4. England (Warwickshire): LAFLIN 1971, p. 709, Map 868. USSR (Moldavia): SIMONOV 1972, p. 27.

latifolia (Schwaegr.) C. Müll. — See *Stegonia latifolia* (Schwaegr.) Vent.

maritima (R. Brown ter.) Broth. — World: SCHOFIELD & CRUM 1972, p. 197, Map 50.

mutica Vent. — Sweden (Sk., E of long. 13⁰5): WALDHEIM 1947, p. 176, Fig. 33. Netherlands: TOUW 1963, p. 91.

starckeana (Hedw.) C. Müll. — World: IRMSCHER 1929, Fig. 19, Taf. 18. Netherlands: TOUW 1963, p. 91. Poland: KUC 1964, p. 22, Ryc. 4.

truncata (Hedw.) B.S.G. — Netherlands: TOUW 1963, p. 88. Latvia: ABOLIN 1968, p. 136. England (Warwickshire): LAFLIN 1971, p. 709, Map 870. USSR (Moldavia): SIMONOV 1972, p. 27. Japan: SAITO 1973, p. 68, Fig. 3. World: SCHOFIELD 1974, p. 15, Map 2.

PRIONIDIUM

eroso-denticulatum (C. Müll.) Chen — SE. Asia: GANGULEE 1972, p. 721, Map CCXVII.

setschwanicum (Broth.) Hilp. — SE. Asia: GANGULEE 1972, p. 721, Map CCXVII.

PRIONODON

densus (Hedw.) C. Müll. — El Salvador: WINKLER 1964-65, p. 509, Abb.4.

PSEUDEPHEMERUM

nitidum (Hedw.) Reim. — England (Warwickshire): LAFLIN 1971, p. p. 703, Map 847. Netherlands: TOUW 1972, p. 253, Fig. 1.

PSEUDOBARBELLA

kiushiuensis (Broth.) Nog. — Japan: NOGUCHI 1951, p. 16, Map 59.
levieri (Ren. et Card.) Nog. — Japan: NOTUCHI 1951, p. 17, Map 61.
 SE. Asia: WANG 1970, p. 411, Fig. 38.

PSEUDOBRYUM

cinclidioides (Hüb.) Kop. — See *Mnium cinclidioides* Hüb.

PSEUDOLESKEA

atrovirens (Brid.) B.S.G. — See *Lescuraea incurvata* (Hedw.) Lawton.
catenulata (Schr.) B.S.G. — See *Pseudoleskeella catenulata* (Schr.) Kindb.

filamentosa (With.) C. Jens. — See *Lescuraea incurvata* (Hedw.) Lawton

incurvata (Hedw.) Loeske — See *Lescuraea incurvata* (Hedw.) Lawton

oligocarpa Kindb. — See *Lescuraea incurvata* (Hedw.) Lawton

radicosa (Mitt.) Macoun et Kindb. — See *Lescuraea radicata* (Mitt.) Mönkem.

PSEUDOLESKEELLA

catenulata (Schr.) Kindb. — The British Isles: PROCTOR 1960, p. 9, Fig. 5 (*Pseudoleskea catenulata*). S. Poland: KUC 1964, p. 159, Ryc. 38 (*Leskea catenulata*). Spitzbergen: KUC 1973a, p. 468, Fig. 65 (*Leskea catenulata*). N. Hemisphere: LEWINSKY 1974c, p. 605, Fig. 12. Germany (Thüringen): MEINUNGER 1975, p. 234, Karte 12.

papillosa (Lindb.) Kindb. — See *Heterocladium papillosum* (Lindb.) Lindb.

tectorum (Brid.) Kindb. — See *Leskeella tectorum* (Brid.) Hag.

PSEUDOLESKEOPSIS

orbiculata (Mitt.) Broth. — Japan: WATANABE 1972, p. 249, Map 4A (*Haplocladium fauriei*).

PSEUDOSCLEROPODIUM

purum (Hedw.) Fleisch. — Poland (Sokolów Podlaski distr.): MICKIEWICZ 1960, p. 408, Fig. 2 (*Scleropodium purum*). Norway (S of lat. 67°N): STÖRMER 1969, p. 82, Fig. 36. Europe, N. Africa and W. Asia: STÖRMER 1969, p. 82, Fig. 37. England (Warwickshire): LAFLIN 1971, p. 732, Map 963. World: SCHOFIELD & CRUM 1972, p. 197, Map 51.

PSEUDOSPIRIDENTOPSIS

horrida (Card.) Fleisch. — E. Asia, Australia and Oceania: ZANTEN 1959, p. 535, Pl. VII, Map 3. SE. Asia: WANG 1970, p. 409, Fig. 35.

PSEUDOSTEREODON

procerrimus (Mol.) Fleisch. — World: ANDO 1972, p. 79, Fig. 6 (*Hypnum procerrimum*). N. America: SCHOFIELD 1972, p. 1120, Fig. 7 (*H. procerrimum*). NW. Canada (Axel Heiberg Island): KUC 1973b, p. 106, Fig. 38. N. America: PACKER & VITT 1974, p. 1399, Fig. 6 (*H. procerrimum*).

PSEUDOSYMBLEPHARIS

duriuscula (Mitt.) Chen — World: GANGULEE 1972, p. 705, Map CCXI (*Barbula gregaria*).

pallidens Dix. — SE. Asia: GANGULEE 1972, p. 670, Map CXCVIII.

subduriuscula (C. Müll.) Chen — SE. Asia: GANGULEE 1972, p. 670, Map CXCVIII.

PSILOPILUM

antarcticum (C. Müll.) Par. — World: IRMSCHER 1929, Fig. 14, Taf. 15. Antarctic and Subantarctic: GREENE et al. 1970, p. 36, Fig. 24. S. Georgia: LONGTON 1972, p. 59, Fig. 6.

cavifolium (Wils.) Hag. — USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 216. N. America, Greenland and Iceland: SCHOFIELD 1972, p. 1119, Fig. 2.

falcatum (Steere) Steere, Crum et Anderson — See *Oligotrichum falcatum* Steere

laevigatum (Wahlenb.) Lindb. — Sweden: MÖLLER 1919, p. 71. USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 215. SW. Spitzbergen (Hornsund) KUC 1963a, Fig. 38. USSR (Baikal area): BARDUNOV 1965, p. 32. Spitzbergen: KUC 1973a, p. 453, Fig. 7.

(PSILOPILUM contin.)

tapes (C. Muell.) Par. — S. Georgia: LONGTON 1972, p. 59, Fig. 7.
S. Georgia: GREENE 1973, p. 24, Fig. 14.

trichodon (Hook. f. et Wils.) Mitt. — S. Georgia: GREENE 1973,
p. 26, Fig. 16.

PTERIGYNANDRUM

filiforme Hedw. — Norway: SØRENSEN 1919, p. 148. SW. Spitzbergen
(Hornsund): KUC 1963a, Fig. 82. Spitzbergen: KUC 1973a, p. 471,
Fig. 78. The British Isles: WHITEHOUSE et al. 1973, p. 458; orig.
J.G. Duckett (var. filiforme).

var. decipiens (Web. et Mohr) Limpr. — See P. filiforme Hedw. var.
majus (De Not.) De Not.

var. majus (De Not.) De Not. — Poland (Warsaw distr.): MICKIEWICZ
1968, p. 625, Ryc. 5 (P. filiforme var. decipiens). The British
Isles: WHITEHOUSE et al. 1973, p. 459; orig. J.G. Duckett.

PTEROBRYON

arbuscula Mitt. — Japan and Formosa: NOGUCHI 1951, p. 21, Map 63
(Pterobryum arbuscula). E. Asia: HORIKAWA 1955a, p. 147, Map 54
(Pterobryum arbuscula). Japan (Quelpart Island): WON & ANDO 1963,
p. 197, Fig. 4 (Pterobryum arbuscula). E. Asia: HORIKAWA 1972,
Map 477 (Pterobryum arbuscula).

densum Hornsch. — El Salvador: WINKLER 1964-65, p. 509, Abb. 4
(Pterobryum densum).

subarbuscula Broth. — Japan and Formosa: NOGUCHI 1951, p. 21,
Map 63 (Pterobryum subarbuscula).

PTEROBRYUM

Hornsch. — See Pterobryon Hornsch.

PTEROGONIUM

gracile (Hedw.) Sm. — Switzerland: J. AMANN 1928, p. 431, Fig. 10.
World: IRMSCHER 1929, Fig. 7, Taf. 12 (P. ornithopodioides).
Scandinavia (S. half) and Denmark: ERLANDSSON 1934, p. 247 (P. orni-
thopodioides). World: MEUSEL 1943, Karte 59b. Denmark: KJ. HOLMEN
et al. 1959, p. 138, Fig. 77; orig. J. Gernaa. Norway (S of lat.
66°N): STÖRMER 1969, p. 159, Fig. 99. Europe, N. Africa and W. Asia:
STÖRMER 1969, p. 160, Fig. 100. SW. Germany: DÜLL 1969, p. 296,

(PTEROGONIUM contin.)

Taf. 5. S. Germany: PHILIPPI 1972, p. 747, Abb. 40. Germany (Thüringen): MEINUNGER 1975, p. 232, Karte 10.

ornithopodioides (Web. et Mohr) Lindb. — See *P. gracile* (Hedw.) Sm.

PTERYGONEURUM

arcticum Steere — NW. Canada (Axel Heiberg Island): KUC 1973b, p. 63, Fig. 22. N. Canada: KUC 1973b, p. 67, Fig. 24.

cavifolium Jur. — See *P. ovatum* (Hedw.) Dix.

ovatum (Hedw.) Dix. — M. Europe (the Alps): GAMS 1934, p. 53, Fig. 7 (*P. cavifolium*). N. America: KUCYNIK 1958c, p. 221, Fig. 1. M. Europe (the Alps): NEUMAYR 1971, p. 109, Abb. 28. USSR (Moldavia): SIMONOV 1972, p. 31. Poland: MICKIEWICZ 1972, p. 233, Fig. 1 (*P. cavifolium*). Germany (Bayern): NEUMAYR 1975a, p. 30, Abb. 5. Czechoslovakia: POSPISIL 1975, Abb. 2.

f. incanum Podp. — Czechoslovakia: POSPISIL 1975, Abb. 2.

subsessile (Brid.) Jur. — M. Europe (the Alps): GAMS 1934, p. 53, Fig. 7. S. Europe and N. Africa: GIACOMINI 1940, p. 629, Fig. 2. M. Europe (the Alps): NAUMAYR 1971, p. 109, Abb. 28. E. Germany (Mecklenburg): KÜHNER 1971, p. 469, Karte 4. USSR (Moldavia): SIMONOV 1972, p. 27. N. America: STEERE & IWATSUKI 1974, Map 1. Czechoslovakia: POSPISIL 1975, Abb. 1.

PTERYGOPHYLLUM

lucens (Hedw.) Brid. — See *Hookeria lucens* (Hedw.) Sm.

PTILIMUM

crista-castrensis (Hedw.) De Not. — USA (Pa.): MOUL 1952, p. 146, Fig. 5 (*Hypnum crista-castrensis*). E. Asia: HORIKAWA 1955a, p. 50, Map 17. Denmark: KJ. HOLMEN et al. 1959, p. 147, Fig. 114; orig. V.B. Mikkelsen. Finland: KUJALA 1964, Karta 182. E. Asia: HORIKAWA 1972, Map 483. The British Isles: WHITEHOUSE et al. 1974, p. 130; orig. F.A. Sowter et A.J.E. Smith.

PTYCHODIUM

plicatum (Web. et Mohr) Schimp. — See *Lescurea plicata* (Web. et Mohr) Broth.

PTYCHOMITRIUM

dentatum (Mitt.) Jaeg. — Korea, Formosa and Japan: NOGUCHI 1954,

(PTYCHOMITRIUM contin.)

p. 5, Fig. 3.

fauriei Besch. — Korea, Formosa and Japan: NOGUCHI 1954, p. 5, Fig. 3.

formosicum Broth. et Yas. — Korea, Formosa and Japan: NOGUCHI 1954, p. 5, Fig. 3.

glyphomitrioides (Bals. et De Not.) Vent. et Bott. — See *P. incurvum* (Schwaegr.) Spruce

incurvum (Schwaegr.) Spruce — N. Italy: GIACOMINI 1951, p. 109, Carta 13 (*P. glyphomitrioides*).

linearifolium Reim. et Sak. — Korea, Formosa and Japan: NOGUCHI 1954, p. 5, Fig. 3.

longisetum Reim. et Sak. — Korea, Formosa and Japan: NOGUCHI 1954, p. 5, Fig. 3.

nigricans Schimp. — See *P. nigrescens* (Kunze) Wijk et Marg.

nigrescens (Kunze) Wijk et Marg. — W. Iberia and Macaronesia: P. ALLORGE 1947, p. 102, Fig. 14 (*P. nigricans*).

polyphyllum (Sw.) B.S.G. — Europe (S of lat. 62°N and W of long. 17°E): HERZOG 1926, p. 250, Fig. 94. Europe and N. Africa: J. AMANN 1928, p. 303, Fig. 3. Switzerland: J. AMANN 1928, p. 433, Fig. 11 (*Brachysteleum polyphyllum*). Norway (S of lat. 66°N): STÖRMER 1969, p. 198, Fig. 138. Europe: STÖRMER 1969, p. 198, Fig. 139. SW. Germany: DÜLL 1969, p. 296, Taf. 5. Europe, Macaronesia and N. Africa: HOLMEN & RASMUSSEN 1972, p. 113, Fig. 3.

serratum B.S.G. — USA and M. America: PURSELL & REESE 1970, p. 149, Fig. 3.

sinense (Mitt.) Jaeg. — Korea, Formosa and Japan: NOGUCHI 1954, p. 5, Fig. 3.

wilsonii Sull. et Lesq. — Korea, Formosa and Japan: NOGUCHI 1954, p. 5, Fig. 3.

PYLAISIA

erectiuscula (Sull. et Lesq.) Mitt. — World: ANDO 1972, p. 81, Fig. 8 (*Hypnum erectiusculum*).

(PYLAISIA contin.)

polyantha (Hedw.) B.S.G. — Finland (Kuusamo): TUOMIKOSKI 1939, p. 104, Karte 13. Denmark: KJ. HOLMEN et al. 1959, p. 147, Fig. 112; orig. V.B. Mikkelsen. Sweden (Sthlm. reg.): SKYE 1968, p. 62, Fig. 61. USSR (Moldavia): SIMONOV 1972, p. 61. Canada (Winnipeg): STRINGER & STRINGER 1974, p. 416, Fig. 7 (*Pylaisiella polyantha*).

polyantha (Hedw.) Grout — See *Pylaisia polyantha* (Hedw.) B.S.G.

PYRAMIDULA

algeriensis Chudeau et Douin — SE. Spain: CASAS DE PUIG & SIMO 1972, p. 8, Fig. 3. Iberia and N. Africa: ACUNA et al. 1975, p. 88, Mapa 6.

tetragona (Brid.) Brid. — Slovakia: PILOUS 1957b, p. 249, Obr. 4. Poland (E. Lublin upland): KARCZMARZ & KUC 1962, p. 486, Fig. 1. Poland: KUC 1964, p. 22, Ryc. 4. World: MARTINCIC 1966, p. 35, Abb. 17.

RACOMITRIUM

aciculare (Hedw.) Brid. — Sweden: MÖLLER 1931, p. 161. Europe, N. Africa and W. Asia: STÖRMER 1969, p. 85, Fig. 39. Norway: STÖRMER 1969, p. 84, Fig. 38. Germany (Schlesw.-Holst.): FRAHM & WALSEMANN 1973, p. 92.

aquaticum (Schrad.) Brid. — Sweden: MÖLLER 1931, p. 161. Norway (S of lat. 67°N): STÖRMER 1969, p. 132, Fig. 74. Europe and W. Asia: STÖRMER 1969, p. 133, Fig. 75.

austro-georgicum Par. — See *R. crispulum* (Hook. f. et Wils.) Hook. f. et Wils.

canescens (Hedw.) Brid. — Sweden: MÖLLER 1931, p. 162. NW. Netherlands (Alkmar reg.): BARKMAN 1941, p. 333, Fig. 5. Norden and W. USSR: HEINONEN 1971, p. 146, Fig. 64. World: GANGULEE 1972, p. 828, Map CCLIII. Austria: POELT & WRIESSNEGGGER 1973, p. 58. Japan: NOGUCHI 1974, p. 346, Map 1.

var. ericoides (Hedw.) Hampe — Sweden: MÖLLER 1931, p. 163. Norden and W. USSR: HEINONEN 1971, p. 147, Fig. 65 (*R. ericoides*). Austria: POELT & WRIESSNEGGGER 1973, p. 59 (*R. ericoides*). Japan: NOGUCHI 1974, p. 346, Map 1.

var. strictum Schlieph. — Sweden: MÖLLER 1931, p. 163.

(RACOMITRIUM contin.)

crispulum (Hook. f. et Wils.) Hook. f. et Wils. — World: CLIFFORD 1955, p. 332, Fig. 1. World: GANGULEE 1972, p. 818, Map CCL.

S. Georgia: BELL 1974, p. 78, Fig. 4 (R. austro-georgicum).

S. Georgia: BELL 1974, p. 82, Fig. 7 (var. crispulum). S. Georgia: BELL 1974, p. 85, Fig. 10 (R. heterostichoides).

var. rupestre (Hook. f. et Wils.) Dix. — S. Georgia: BELL 1974, p. 82, Fig. 8.

ellipticum (Turn.) B.S.G. — Norden: DEGELIUS 1935, p. 212, Fig. 61. Norway (S of lat. 66°N): STÖRMER 1969, p. 255, Fig. 195. Europe: STÖRMER 1969, p. 256, Fig. 196. The British Isles: WHITEHOUSE et al. 1973, p. 447; orig. A.J.E. Smith.

ericoides (Hedw.) Brid. — See R. canescens (Hedw.) Brid. var. ericoides (Hedw.) Hampe

fasciculare (Hedw.) Brid. — Sweden: MÖLLER 1931, p. 162. W. France: TOUFFET 1969b, p. 52, Fig. 6. Spitzbergen: KUC 1973a, p. 461, Fig. 38. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 97, Ryc. 8.

var. atro-viride Card. ex Ihs. — Japan: NOGUCHI 1974, p. 356, Map 2.

var. rivulare (Zett.) Möll. — See R. fasciculare (Hedw.) Brid. f. rivulare Zett.

f. rivulare Zett. — Sweden: MÖLLER 1931, p. 162 (R. fasciculare var. rivulare).

fuscescens Wils. — Indian Peninsula: GANGULEE 1972, p. 825, Map CCLII.

heterostichoides Card. — See R. crispulum (Hook. f. et Wils.) Hook. f. et Wils.

heterostichum (Hedw.) Brid. — Sweden: MÖLLER 1931, p. 161. SW. Poland: KUC 1956, p. 637, Fig. 5. S. Poland (W. Carpathians): SZAFRAN 1965, p. 606, Fig. 1. Latvia: ABOLIN 1968, p. 151. World: GANGULEE 1972, p. 822, Map CCLI. Japan: NOGUCHI 1974, p. 367, Map 3.

var. affine (Web. et Mohr) Lesq. — Sweden: MÖLLER 1931, p. 161.

var. diminutum (Card.) Nog. — Japan: NOGUCHI 1974, p. 367, Map 3.

(RACOMITRIUM contin.)

var. gracilescens B.S.G. — See *R. heterostichum* (Hedw.) Brid. f. *gracilescens* (B.S.G.) Nyh.

var. ramulosum (Lindb.) Corb. — Sweden: MÖLLER 1931, p. 162 (*R. ramulosum*). Poland (NW. Sudet): WILCZYŃSKA 1974, p. 97, Ryc. 8 (*R. ramulosum*). Poland (Silesia): BERDOWSKI 1974, p. 25, Mapa 5 (*R. ramulosum*).

var. sudeticum (Funck) Dix. — Sweden: MÖLLER 1931, p. 162 (*R. sudeticum*). W. France: TOUFFET 1969b, p. 56, Fig. 14 (*R. sudeticum*). Poland (NW. Sudet): WILCZYŃSKA 1974, p. 97, Ryc. 8 (*R. sudeticum*). Poland (Silesia): BERDOWSKI 1974, p. 24, Mapa 4 (*R. sudeticum*).

f. gracilescens (B.S.G.) Nyh. — Sweden: MÖLLER 1931, p. 161 (*R. heterostichum* var. *gracilescens*).

himalayanum (Mitt.) Jaeg. — Indian Peninsula: GANGULEE 1972, p. 825, Map CCLII.

hypnoides Lindb. — See *R. lanuginosum* (Hedw.) Brid.

lanuginosum (Hedw.) Brid. — Sweden: MÖLLER 1931, p. 163 (*R. hypnoides*). N. Sweden, N. Norway, Finland and W. USSR: JALAS 1955, p. 75, Abb. 1. The British Isles: TALLIS 1958, p. 272, Fig. 1. Latvia: ABOLIN 1968, p. 151. England (Warwickshire): LAFLIN 1971, p. 714, Map 891. World: GANGULEE 1972, p. 828, Map CCLIII. The British Isles: J.H. DICKSON 1973, p. 96, Fig. 42. Spitzbergen: KUC 1973a, p. 461, Fig. 37. Poland (Silesia): BERDOWSKI 1974, p. 25, Mapa 5. S. Georgia: BELL 1974, p. 87, Fig. 12.

microcarpum (Hedw.) Brid. — Poland: KUC 1964, p. 112, Ryc. 25. The British Isles: WHITEHOUSE et al. 1973, p. 448; orig. A.J.E. Smith.

var. fastigiatum (Loeske) C. Jens. — Sweden: MÖLLER 1931, p. 162 (*R. ramulosum* var. *fastigiatum*).

pachydictyon Card. — S. Georgia: BELL 1974, p. 89, fig. 14.

patens (Hedw.) Hüb. — Sweden: MÖLLER 1933, p. 125 (*Grimmia patens*). N. America: STEERE 1938, p. 150, Fig. 2 (*Grimmia patens*). Norway: STÖRMER 1969, p. 105, Fig. 54 (*Grimmia patens*). Europe and W. Asia: STÖRMER 1969, p. 106, Fig. 55 (*Grimmia patens*). W. France: TOUFFET 1969b, p. 57, Fig. 15 (*Grimmia patens*). The British Isles: WHITEHOUSE et al. 1971, p. 348; orig. A.J.E. Smith (*Grimmia patens*).

(RACOMITRIUM contin.)

ptychophyllum (Mitt.) Mitt. — S. Georgia: BELL 1974, p. 91, Fig. 16.

ramulosum Lindb. — See R. heterostichum (Hedw.) Brid. var. ramulosum (Lindb.) Corb.

var. fastigiatum (Loeske) Med. — See R. microcarpum (Hedw.) Brid.

var. fastigiatum (Loeske) C. Jens.

striatipilum Card. — S. Georgia: BELL 1974, p. 92, Fig. 18.

strictifolium (Mitt.) Jaeg. — World: GANGULEE 1972, p. 818, Map CCL.

subsecundum (Hook. et Grev.) Mitt. — World: GANGULEE 1972, p. 822, Map CCLI.

sudeticum (Funck) B.S.G. — See R. heterostichum (Hedw.) Brid. var. sudeticum (Funck) Dix.

willii (C. Müll.) Kindb. — S. Georgia: BELL 1974, p. 94, Fig. 20.

REIMERSIA

inconspicua (Griff.) Chen. — World: GANGULEE 1972, p. 651, Map CXCI.

RHABDOWEISIA

crenulata (Mitt.) James. — World: GANGULEE 1971, p. 348, Map CI.

crispata (With.) Lindb. — Norway: STÖRMER 1969, p. 129, Fig. 72.

Europe: STÖRMER 1969, p. 130, Fig. 73. World: LEWINSKY 1974b,

p. 76, Fig. 6. Poland (Silesia): BERDOWSKI 1974, p. 20, Mapa 3.

Europe and Asia: BARDUNOV 1974, p. 97 (R. kusenevae).

fugax (Hedw.) B.S.G. — Belgium: DEMARET & CASTAGNE 1961, p. 151, Fig. 55. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 97, Ryc. 8. Poland (Silesia): BERDOWSKI 1974, p. 25, Mapa 5. Peru: HEGEWALD 1975, p. 35, Abb. 1A.

kusenevae Broth. — See R. crispata (With.) Lindb.

RHACOCARPUS

humboldtii (Hook.) Lindb. — See R. purpurascens (Brid.) Par.

purpurascens (Brid.) Par. — S. Hemisphere: JOVET-AST 1948, p. 45, Fig. 2 (R. humboldtii).

RHAPHIDOSTICHUM

boschii (Doz. et Molk.) Seki ssp. thelidictyon (Sull. et Lesq.)

Seki — See *Trichosteleum thelidictyon* (Sull. et Lesq.) Jaeg.

macrostichum (Broth. et Par.) Broth. — Japan: SEKI 1968, p. 49, Fig. 19.

RHIZOGONIUM

badakense Fleisch. — See *R. longiflorum* (Mitt.) Jaeg.

boninense Iwats. — E. Asia, Australia, N. and S. America: IWATSUKI 1972a, p. 131, Fig. 5.

dozyanum Lac. — World: SEKI 1974, p. 87, Fig. 7.

longiflorum (Mitt.) Jaeg. — Japan and Formosa: HORIKAWA 1952b, p. 77, Map 10 (*R. badakense*). E. Asia, Australia, N. and S. America: IWATSUKI 1972a, p. 131, Fig. 5 (*R. badakense*). E. Asia, Australia, N. and S. America: IWATSUKI 1972a, p. 131, Fig. 5. Japan: IWATSUKI 1972a, p. 133, Fig. 8 (*R. badakense*).

mnioides (Hook.) Wils. — World: SEKI 1974, p. 87, Fig. 7.

spiniforme (Hedw.) Bruch — E. Asia, Australia, N. and S. America: IWATSUKI 1972a, p. 131, Fig. 5. World: GANGULEE 1974, p. 1067, Map CCCXVIII.

RHIZOMNIUM

andrewsianum (Steere) Kop. — See *Mnium andrewsianum* Steere

appalachianum Kop. — N. America: KOPONEN 1973a, p. 21, Fig. 86. World: KOPONEN 1973a, p. 25, Fig. 91.

glabrescens (Kindb.) Kop. — See *Mnium punctatum* Hedw.

gracile Kop. — N. America: KOPONEN 1973a, p. 21, Fig. 88.

hattorii Kop. — Japan: KOPONEN 1971c, p. 382, Fig. 43. World: KOPONEN 1972a, p. 144, Fig. 3. World: KOPONEN 1973a, p. 25, Fig. 91.

horikawae (Nog.) Kop. — See *Mnium horikawae* Nog.

magnifolium (Horik.) Kop. — See *Mnium succulentum* Mitt.

minutulum (Besch.) Kop. — See *Mnium minutulum* Besch.

nudum (Britt. et Williams) Kop. — See *Mnium punctatum* Hedw.

parvulum (Mitt.) Kop. — See *Mnium striatulum* Mitt.

(RHIZOMNIUM contin.)

perssonii Kop. — NE. Sweden, N. Norway, Finland and W. USSR: KOPONEN 1968c, p. 41, Fig. 68. Japan: KOPONEN 1971c, p. 382, Fig. 45.

pseudopunctatum (Bruch et Schimp.) Kop. — See *Mnium pseudopunctatum* Bruch et Schimp.

punctatum (Hedw.) Kop. — See *Mnium punctatum* Hedw.

ssp. chlorophyllosum (Kindb.) Kop. — See *Mnium punctatum* Hedw.

striatulum (Mitt.) Kop. — See *Mnium striatulum* Mitt.

tuomikoskii Kop. — Japan: KOPONEN 1971c, p. 381, Fig. 42. World: KOPONEN 1972a, p. 144, Fig. 3. World: KOPONEN 1973a, p. 25, Fig. 91.

RHODOBRYUM

giganteum (Schwaegr.) Par. — Japan and Formosa: HORIKAWA 1952b, p. 84, Map 15. E. Asia: HORIKAWA 1955a, p. 103, Map 35. World: GANGULEE 1974, p. 1018, Map CCCVI.

keniae (C. Müll.) Broth. — World (between long. 30°W and 180°E): OCHI 1972, p. 56, Map 2 (*Bryum keniae*).

laxe-limbatum (Ochi) Iwats. et Kop. — World: GANGULEE 1974, p. 1018, Map CCCVI.

ontariense (Kindb.) Par. in Kindb. — See *R. roseum* (Hedw.) Limpr.

roseum (Hedw.) Limpr. — E. Asia: HORIKAWA 1955a, p. 30, Map 11. Finland: KUJALA 1964, Karta 183. Finland (S of lat. 63°N): KOPONEN 1966, p. 402, Fig. 3. World: IWATSUKI & KOPONEN 1972, p. 15, Fig. 5. Japan: IWATSUKI & KOPONEN 1972, p. 16, Fig. 6. World (between long. 30°W and 180°E): OCHI 1972, p. 56, Map 2 (*Bryum roseum*). World: IWATSUKI & KOPONEN 1972, p. 15, Fig. 5 (*R. ontariense*). Japan: IWATSUKI & KOPONEN 1972, p. 16, Fig. 6 (*R. ontariense*). World: GANGULEE 1974, p. 1018, Map CCCVI.

russulum (Broth. et Geh.) Par. — World (between long. 30°W and 180°E): OCHI 1972, p. 56, Map 2 (*Bryum russulum*).

staudtii (Broth.) Par. — World (between long. 30°W and 180°E): OCHI 1972, p. 56, Map 2 (*Bryum staudtii*).

umbraculum (Hook.) Par. — World (between long. 30°W and 180°E): OCHI 1972, p. 56, Map 2 (*Bryum umbraculum*).

RHYNCHOSTEGIELLA

algeriana (Schröd.) Warnst. — See *R. tenella* (Dicks.) Limpr.

compacta (C. Müll.) Loeske — World: ABRAMOVA & VOLKOVA 1974, p. 325 (*Amblystegium compactum*).

curviseta (Brid.) Limpr. — England (Warwickshire): LAFLIN 1971, p. 732, Map 961. W. France: TOUFFET 1969b, p. 58, Fig. 17.

jacquinii (Garov.) Limpr. — W. Europe: WACLAWSKA 1956, p. 98, Ryc. 2. Poland (Upper Wisłok): WACLAWSKA 1957, p. 98, Fig. 2.

pallidirostris (Brid.) Loeske — See *R. pumila* (Wils.) Warb.

pumila (Wils.) Warb. — NE. Germany: KÜHNER & PANKOW 1967, p. 172, Abb. 4 (*R. pallidirostris*). Norway (S of lat. 66°N): STÖRMER 1969, p. 148, Fig. 86 (*Eurhynchium pumilum*) Europe, N. Africa and W. Asia: STÖRMER 1969, p. 149, Fig. 87 (*Eurhynchium pumilum*). England (Warwickshire): LAFLIN 1971, p. 732, Map 960.

teesdalei (Dicks.) Limpr. — Switzerland: J. AMANN 1928, p. 433, Fig. 11.

tenella (Dicks.) Limpr. — Slovakia: PILOUS 1957b, p. 243, Obr. 1 (*R. algeriana*). Czechoslovakia (Tatra): PILOUS 1961a, p. 17. Poland: KUC 1964, p. 23, Ryc. 5. Norway (S of lat. 66°N): STÖRMER 1969, p. 162, Fig. 102. Europe, N. Africa and W. Asia: STÖRMER 1969, p. 163, Fig. 103. England (Warwickshire): LAFLIN 1971, p. 732, Map 962.

RHYNCHOSTEGIUM

confertum (Dicks.) B.S.G. — NE. Germany: KÜHNER & PANKOW 1967, p. 173, Abb. 8. England (Warwickshire): LAFLIN 1971, p. 731, Map 959 (*Eurhynchium confertum*).

megapolitanum (Web. et Mohr) B.S.G. — Sweden (S of lat. 61°N) and Denmark: WALDHEIM 1935b, p. 453, Fig. 4. USSR (Moldavia): SIMONOV 1972, p. 59.

murale (Hedw.) B.S.G. — England (Warwickshire): LAFLIN 1971, p. 731, Map 958 (*Eurhynchium murale*). USSR (Moldavia): SIMONOV 1972, p. 59.

riparioides (Hedw.) Card. — See *Platyhypnidium riparioides* (Hedw.) Dix.

(RHYNCHOSTEGIUM contin.)

vagans Jaeg. — See *Eurhynchium vagans* (Jaeg.) Bartr.

RHYTIDIADDELPHUS

calvescens (Wils.) Broth. — Latvia: ABOLIN 1968, p. 302. Japan: KOPONEN 1971b, p. 28, Fig. 6 (*R. subpinnatus*). N. Norway, NE. Sweden, Finland and W. USSR: KOPONEN 1975, p. 60, Fig. 3 (*R. subpinnatus*).

calvescens (Kindb.) Broth. — See *R. squarrosus* (Hedw.) Warnst. ssp. *calvescens* (Kindb.) Giac.

japonicus (Reim.) Kop. — See *R. squarrosus* (Hedw.) Warnst. ssp. *japonicus* Reim.

loreus (Hedw.) Warnst. — N. America: WYNNE 1943, p. 150, Fig. 1. Denmark: KJ. HOLMEN et al. 1959, p. 146, Fig. 109; orig. G. Skovgaard Christensen. Sweden (Stockholm reg.): KRUSENSTJERNA 1964, p. 11, Fig. 1. N. Germany: PANKOW & KÜHNER 1967, Tab. 27. Norway: STÖRMER 1969, p. 136, Fig. 77. Europe: STÖRMER 1969, p. 137, Fig. 78. Iceland: KRISTINSSON & JOHANNSSON 1970, p. 63, 3. mynd. N. Norway, NE. Sweden and Finland: KOPONEN 1975, p. 59, Fig. 1.

squarrosus (Hedw.) Warnst. — Denmark: KJ. HOLMEN et al. 1959, p. 146, Fig. 110; orig. G. Skovgaard Christensen. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 86. England (Warwickshire): LAFLIN 1971, p. 736, Map 978. Spitzbergen: KUC 1973a, p. 472, Fig. 84. N. Norway, NE. Sweden, Finland and W. USSR: KOPONEN 1975, p. 59, Fig. 2.

ssp. calvescens (Kindb.) Giac. — Latvia: ABOLIN 1968, p. 302 (*R. calvescens*). Japan: KOPONEN 1971b, p. 28, Fig. 6 (*R. subpinnatus*). N. Norway, NW. Sweden, Finland and W. USSR: KOPONEN 1975, p. 60, Fig. 3 (*R. subpinnatus*).

ssp. japonicus Reim. — E. Asia: KOPONEN 1971b, p. 27, Fig. 5 (*R. japonicus*).

subpinnatus (Lindb.) Kop. — See *R. squarrosus* (Hedw.) Warnst. ssp. *calvescens* (Kindb.) Giac.

triquetrus (Hedw.) Warnst. — E. Asia: HORIKAWA 1955a, p. 52, Map 18. Denmark: KJ. HOLMEN et al. 1959, p. 147, Fig. 111; orig. G. Skovgaard Christensen. Finland: KUJALA 1964, Karta 184. England (Warwickshire): LAFLIN 1971, p. 736, Map 977. Japan and Korea:

(RHYTIDIADELPHUS contin.)

HORIKAWA 1971, Map 35. Norden: RIEMANN 1972, p. 220, Fig. 1 and p. 221, Fig. 2. USSR (Moldavia): SIMONOV 1972, p. 61. E. Asia: HORIKAWA 1972, Map 484. Sweden (Sm., Bjurkärr): NICKLASSON 1974, Fig. 9.

RHYTIDIUM

rugosum (Hedw.) Kindb. — USSR (Siberia): SAVICZ 1928, p. 142. N. Sweden, N. Norway, Finland and W. USSR: KOTILAINEN 1929, Karte 13. Finland (Kuusamo): TUOMIKOSKI 1939, p. 93, Karte 12. Scandinavia, Finland and parts of USSR: ALBERTSON 1940a, p. 79, Fig. 1. Norden and W. USSR: DU RIETZ 1945, p. 61, Fig. 45. Sweden (S of lat. 61°) and SE. Norway: ALBERTSON 1946, p. 185, Fig. 12. Sweden (Bh.): HALLBERG 1959, p. 50, Fig. 1. S. Poland (Miechów reg.): WACLAWSKA 1959, p. 324, Fig. 1. Poland: KUC 1964, p. 127, Ryc. 26. Poland (Lower Nida): WACLAWSKA 1964, p. 368, Fig. 1. S. Poland (W. Carpathians): LISOWSKI & KORNAŚ 1966, p. 63, Fig. 4. The British Isles: WHITEHOUSE et al. 1966, p. 165; orig. A.McG. Stirling. Czechoslovakia: POSPISIL 1968, Abb. 3. N. Canada: KUC 1969a, p. 640, Fig. 4. Sweden (Bh.): HALLBERG 1971, p. 23, Fig. 12. NW. Canada (Axel Heiberg Island): KUC 1973b, p. 106, Fig. 38. Greenland: HOLMEN, LEWINSKY & MOGENSEN 1974, p. 245.

SAELANIA

caesia (P. Beauv.) Lindb. — See *S. glaucescens* (Hedw.) Broth. glaucescens (Hedw.) Broth. — World: IRMSCHER 1929, Fig. 34, Taf. 25. The British Isles: WHITEHOUSE et al. 1968, p. 594; orig. P.D. Coker. NW. Canada (Axel Heiberg Island): KUC 1973b, p. 36, Fig. 11. N. Canada: KUC 1973b, p. 45, Fig. 15. Hungary, Rumania and adjacent countries: ORBÁN 1974, p. 55, Karte 4 (*S. caesia*). World: SCHOFIELD 1974, p. 25, Map 18.

SARCONEURUM

glaciale (C. Müll.) Card. et Bryhn — Antarctic and Subantarctic: GREENE et al. 1970, p. 39, Fig. 26 and p. 40, Fig. 27.

tortelloides S.W. Greene — Antarctic and Subantarctic: GREENE et al. 1970, p. 42, Fig. 29.

SCHISTIDIUM

agassizii Sull. et Lesq. — Sweden: MÖLLER 1931, p. 160 (*S. angustum*).

(SCHISTIDIUM contin.)

alpicola (Hedw.) Limpr. — Sweden: MÖLLER 1931, p. 160. Latvia: ABOLIN 1968, p. 144.

var. latifolium (Zett.) Limpr. — Sweden: MÖLLER 1931, p. 160. NW. Canada (Axel Heiberg Island): KUC 1973b, p. 70, Fig. 26 (Grimmia platyphylla). N. Canada: KUC 1973b, p. 73, Fig. 27 (Grimmia platyphylla).

var. rivulare (Brid.) Limpr. — See S. apocarpum (Hedw.) B.S.G.

angustum Hag. — See S. agassizii Sull. et Lesq.

anodon (B.S.G.) Loeske — See Grimmia anodon B.S.G.

apocarpum (Hedw.) B.S.G. — Sweden: MÖLLER 1931, p. 160 (S. alpicola var. rivulare). Sweden: MÖLLER 1931, p. 159. Sweden (Sk., Dalby Söderskog): WALDHEIM 1944b, p. 98, Fig. 17A. England (Warwickshire): LAFLIN 1971, p. 714, Map 889 (Grimmia apocarpa). World: GANGULEE 1972, p. 792, Map CCXLI.

ssp. gracile (Röhl.) Meyl. — The British Isles: WHITEHOUSE et al. 1971, p. 335; orig. A.J.E. Smith (Grimmia trichodon). World: GANGULEE 1972, p. 792, Map CCXLI.

var. confertum (Funck) Möll. — Sweden: MÖLLER 1931, p. 159. USSR (Moldavia): SIMONOV 1972, p. 31 (S. confertum).

var. gracile (Röhl.) B.S.G. — Sweden: MÖLLER 1931, p. 159.

var. pulvinatum (Hedw.) C. Jens. — Poland (NW. Sudet): WILCZYŃSKA 1974, p. 62, Ryc. 3 (Grimmia flaccida).

var. reflexum Möll. — See S. apocarpum (Hedw.) B.S.G. f. reflexum (Möll.) Loeske

var. rivulare (Brid.) B.S.G. — See S. apocarpum (Hedw.) B.S.G. f. rivulare (Brid.) Loeske

var. tenerrimum (Nees et Hornsch.) Limpr. — N. America and Greenland: SCHOFIELD 1972, p. 1126, Fig. 31 (Grimmia tenera). N. Canada: KUC 1973b, p. 69, Fig. 25 (Grimmia tenera). NW. Canada (Axel Heiberg Island): KUC 1973b, p. 70, Fig. 26 (Grimmia tenera).

f. reflexum (Möll.) Loeske — Sweden: MÖLLER 1931, p. 160 (S. apocarpum var. reflexum).

(SCHISTIDIUM contin.)

f. rivulare (Brid.) Loeske — Sweden: MÖLLER 1931, p. 160 (S. apocarpum var. rivulare).

confertum (Funck) B.S.G. — See S. apocarpum (Hedw.) B.S.G. var. confertum (Funck) Möll.

maritimum (Turn.) B.S.G. — Sweden: MÖLLER 1926, p. 159. NE. Germany: KÜHNER & PANKOW 1967, p. 172, Abb. 4.

SCHISTOSTEGA

osmundacea Mohr — See S. pennata (Hedw.) Web. et Mohr

pennata (Hedw.) Web. et Mohr — N. Hemisphere: GAMS 1928b, Karte 9 (S. osmundacea). Europe: GAMS 1928b, Karte 10 (S. osmundacea). Switzerland: J. AMANN 1928, p. 433, Fig. 11 (S. osmundacea). M. Europe (the Alps): GAMS 1930, p. 16, Fig. 3 (S. osmundacea). N. Hemisphere: MEUSEL 1943, Karte 26 f. (S. osmundacea). USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 307. Europe: TAVARES 1955, p. 31/4, Fig. 3 (S. osmundacea). E. Asia: HORIKAWA 1955a, p. 55, Map 19 (S. osmundacea). Rumania: STEFUREAC 1957, p. 81, Fig. 15 (S. osmundacea). S. Poland (W. Carpathians): SZAFRAN 1965, p. 606, Fig. 1 (Schistostega osmundacea). World: MARTINCIC 1966, p. 33, Abb. 16. Latvia: ABOLIN 1968, p. 84. Norway: LYE 1968, p. 146, Fig. 3. SW. Germany: DULL 1969, p. 296, Taf. 5a. Japan (Hokkaido): KANDA 1971, p. 62, Fig. 1. World: GAJEVAJA 1971, p. 742. E. Asia: HORIKAWA 1972, Map 472. Sweden (Sm.): NICKLASSON 1972, p. 396, Fig. 11A. Norway: LYE 1972, p. 207, Fig. 2. N. Hemisphere: LYE 1972, p. 209, Fig. 3. World: ABRAMOVA & BLAGODATSKICH 1974, p. 319.

SCHLOTHEMIA

lancifolia Bartr. — USA (E. part): SHARP 1939, p. 343, Fig. 32.

mohrii C. Müll. ex Kindb. — See S. torquata (Hedw.) Brid.

oerstediana C. Müll. — See S. rugifolia (Hook.) Schwaegr.

rugifolia (Hook.) Schwaegr. — USA (E. part and M. America): SHARP 1939, p. 339, Fig. 25 (S. sullivantii and S. oerstediana).

sartorii Schimp. ex Besch. — See S. torquata (Hedw.) Brid.

sullivantii C. Müll. — See S. rugifolia (Hook.) Schwaegr.

(SCHLOTHEMIA contin.)

torquata (Hedw.) Brid. — USA (E. part) and M. America: SHARP 1939, p. 339, Fig. 25 (*S. mohrii* and *S. sartorii*).

SCHWETSCHKEOPSIS

fabronia (Schwaegr.) Broth. — N. Hemisphere: IWATSUKI & SHARP 1967, p. 167, Map c. Japan: IWATSUKI 1972b, p. 119, Fig. 9. World: IWATSUKI 1972b, p. 119, Fig. 9. World: SCHOFIELD & CRUM 1972, p. 182, Map 6.

SCIADOCLADUS

celebensis Dix. — SE. Asia: TOUW 1971, p. 258, Fig. 14 (*H. auricomum* ssp. *celebensis*).

kerrii (Mitt.) Broth. — New Zealand: TOUW 1971, p. 272, Fig. 19a (*Hypnodendron kerrii*).

menziesii (Hook.) Broth. — Tasmania and New Zealand: TOUW 1971, p. 264, Fig. 16 (*Hypnodendron menziesii* ssp. *menziesii*).

splendidus (Besch.) Jaeg. ex Broth. — Tasmania and New Zealand: TOUW 1971, p. 264, Fig. 16 (*Hypnodendron menziesii* ssp. *splendidum*).

SCLERPODIUM

caespitosum B.S.G. — See *S. caespitans* (C. Müll.) L. Koch

caespitans (C. Müll.) L. Koch — England (Warwickshire) LAFLIN 1971, p. 729, Map 950 (*S. caespitosum*).

ornellianum (Mol.) Lor. — See *Cirriphyllum ornellianum* (Mol.) Loeske

purum (Hedw.) Limpr. — See *Pseudoscleropodium purum* (Hedw.) Fleisch.

touretii (Brid.) Koch — England (Warwickshire): LAFLIN 1971, p. 729, Map 951. The British Isles: WHITEHOUSE et al. 1972, p. 95; orig. F.A. Sowter. Europe, Macaronesia and N. Africa: HOLMEN & RASMUSSEN 1972, p. 113, Fig. 2.

SCORPIDIUM

scorpioides (Hedw.) Limpr. — E. Germany, Poland, Czechoslovakia and E. Prussia: SZAFRAN 1948, p. 57, Ryc. 31. E. Poland (Lublin distr.): JASNOWSKI 1956, p. 80, Fig. 1. SW. Poland: KUC 1956, p. 636, Fig. 2. Denmark: KJ. HOLMEN et al. 1959, p. 143, Fig. 98; orig. H.C. Boje. Poland (E. Lublin upland): KARCZMARZ & KUC 1962, p. 486, Fig. 1. NE. Poland (Suwalki reg.): MICKIEWICZ, REJMENT-

(SCORPIDIUM contin.)

-GROCHOWSKA & SOBOTKA 1963, p. 260, Fig. 1. USA (Mich.): STOUTMIRE & BENNINGHOFF 1964, p. 56, Fig. 8. SE. Poland: KARCZMARZ 1964, p. 410, Ryc. 9. Czechoslovakia: RYBNICEK 1966, p. 104, Fig. 1. Poland: MICKIEWICZ 1972, p. 233, Fig. 1. Sweden (Vrm.): FRANSSON 1972, p. 112, Map 71. Spitzbergen: KUC 1973a, p. 470, Fig. 73. The British Isles: J.H. DICKSON 1973, p. 143, Fig. 64.

turgescens (Th. Jens.) Loeske — N. and M. Europe: GAMS 1925, p. 17, Fig. 7. M. Europe (the Alps): GAMS 1925, p. 19, Fig. 8. N. and M. Europe: GAMS 1927, p. 179, Abb. 1. M. Europe (the Alps): GAMS 1927, p. 183, Abb. 3. Europe (N of lat. 42° N): J. AMANN 1928, p. 312, Fig. 7. Norden and M. Europe: GAMS 1932a, p. 307, Fig. 2. Sweden (Vg., Kinnekulle): ALBERTSON 1940b, p. 13, Fig. 2. Scandinavia: ALBERTSON 1940b, p. 11, Fig. 1. Germany (Bayern): PAUL 1943, p. 129. N. America: WYNNE 1945, p. 151, Map 3 (Calliargon *turgescens*). Norden and W. USSR: DU RIETZ 1945, p. 52, Fig. 40; orig. N. Albertson. Sweden (S of lat. 61°): ALBERTSON 1946, p. 189, Fig. 13. SW. Poland: KUC 1956, p. 636, Fig. 2. World: KARCZMARZ 1971, p. 160, Fig. 11 (Calliargon *turgescens*). Afghanistan: W. FREY 1972, p. 133, Abb. 2 (Calliargon *turgescens*). NW. Canada (Axel Heiberg Island): KUC 1973b, p. 100, Fig. 36. The British Isles: J.H. DICKSON 1973, p. 144, Fig. 65 (Calliargon *turgescens*).

SCORPIURIUM

circinatum (Brid.) Fleisch. et Loeske — The British Isles: WHITEHOUSE et al. 1964, p. 745; orig. M.C.F. Proctor.

deflexifolium (Solms) Fleisch. et Loeske — W. France: TOUFFET 1969b, p. 58, Fig. 17.

SCOULERIA

aquatica Hook. — World: PERSSON 1949, p. 528, Fig. 10. World: SMIRNOVA 1956a, p. 217. World: SEKI 1974, p. 91, Fig. 10.

marginata E.G. Britt. — World: PERSSON 1949, p. 528, Fig. 10. World: SMIRNOVA 1956a, p. 217. World: SEKI 1974, p. 91, Fig. 10.

patagonica (Mitt.) Jaeg. — World: PERSSON 1949, p. 528, Fig. 10. World: SMIRNOVA 1956a, p. 217. World: SEKI 1974, p. 91, Fig. 10.

pulcherrima Broth. — World: PERSSON 1949, p. 528, Fig. 10. World: SMIRNOVA 1956a, p. 217.

(SCOULERIA contin.)

rschewinii Lindb. et Arn. — World: PERSSON 1949, p. 528, Fig. 10.
World: SMIRNOVA 1956a, p. 217.

SELIGERIA

acutifolia Lindb. var. longiseta Lindb. — See S. pusilla (Hedw.)
B.S.G. var. longiseta (Lindb.) Dix.

alpestris Schauer — M. Europe: SCHAUER 1968, Tab. 103.

austriaca Schauer — M. Europe: SCHAUER 1968, Tab. 103. Japan:
IWATSUKI 1973, p. 115, Fig. 2.

calcareae (Hedw.) B.S.G. — W. Europe: AGSTERIBBE et al. 1954,
p. 133, Fig. 3. Canada (Quebec): KUCYNIK 1955d, p. 113. SW. Ger-
many: DÜLL 1969, p. 296, Taf. 5a. Hungary, Rumania and adjacent
countries: ORBÁN 1974, p. 65, Karte 7.

campylopoda Kindb. — Canada (Quebec): KUCYNIK 1955d, p. 113.

diversifolia Lindb. — Finland and W. USSR (S of lat. 68°N):
TUOMIKOSKI 1939, p. 17, Karte 5. Finland (Kuusamo): TUOMIKOSKI
1939, p. 114, Karte 20.

donniana (Sm.) C. Müll. — Poland (Upper Wislok): WACLAWSKA 1957,
p. 98, Fig. 2. S. Poland: KUC 1964, p. 59, Ryc. 12. The British
Isles: WHITEHOUSE et al. 1967, p. 363; orig. H. Milne-Redhead.
Poland (NW. Sudet): WILCZYŃSKA 1974, p. 62, Ryc. 3. Hungary, Ruma-
nia and adjacent countries: ORBÁN 1974, p. 65, Karte 7.

polaris Berggr. — N. Hemisphere: STEERE 1953a, p. 43, Fig. 6
(Blindia polaris). N. Hemisphere: GAMS 1955, p. 83, Fig. 4. Europe
and Asia: BARDUNOV 1965, p. 45. Greenland and N. America: BRASSARD
1971, p. 271, Fig. 25. Spitzbergen: KUC 1973a, p. 455, Fig. 16.
World: BARDUNOV 1974, p. 136.

pusilla (Hedw.) B.S.G. — Belgium: DEMARET & CASTAGNE 1961, p. 116,
Fig. 40. S. Poland: KUC 1964, p. 70, Ryc. 15. N. America: BRASSARD
1971, p. 271, Fig. 27. Japan: IWATSUKI 1973, p. 115, Fig. 2.
Hungary, Rumania and adjacent countries: ORBÁN 1974, p. 67, Karte 8.

var. acutifolia (Lindb.) Schimp. — See S. pusilla (Hedw.) B.S.G.
var. longiseta (Lindb.) Dix.

var. longiseta (Lindb.) Dix. — Belgium: DEMARET & CASTAGNE 1961,
p. 116, Fig. 40 (S. pusilla var. acutifolia). The British Isles:

(SELIGERIA contin.)

WHITEHOUSE et al. 1967, p. 364; orig. H.J.B. Birks (*S. acutifolia* var. *longiseta*).

recurvata (Hedw.) B.S.G. — Finland and W. USSR (S of lat. 68°N): TUOMIKOSKI 1939, p. 19, Karte 6. Canada (Quebec): KUCYNIK 1955d, p. 113. SW. Poland: KUC 1956, p. 637, Fig. 5 (*S. setacea*).

Belgium: DEMARET & CASTAGNE 1961, p. 118, Fig. 42. Poland: KUC 1964, p. 70, Ryc. 16. Yugoslavia: MARTINČIĆ 1966, p. 45, Abb. 25. SW. Germany: DÜLL 1969, p. 296, Taf. 5a. Hungary, Rumania and adjacent countries: ORBÁN 1974, p. 67, Karte 8 (*S. setacea*).

setacea Lindb. — See *S. recurvata* (Hedw.) B.S.G.

subimmersa Lindb. — N. Hemisphere: GAMS 1955, p. 83, Fig. 4.

trifaria (Brid.) Lindb. — The British Isles: WHITEHOUSE et al. 1967, p. 365; orig. H.J.B. Birks. M. Europe: SCHAUER 1968, Tab. 103. Hungary, Rumania and adjacent countries: ORBÁN 1974, p. 67, Karte 8 (*S. tristicha*).

var. irrigata Paul — See *S. trifaria* (Brid.) Lindb. f. *irrigata* (Paul) Podp.

f. irrigata (Paul) Podp. — M. Europe: SCHAUER 1968, Tab. 103 (*S. trifaria* var. *irrigata*).

tristicha (Brid.) B.S.G. — See *S. trifaria* (Brid.) Lindb.

SEMATOPHYLLUM

adnatum (Michx.) Britt. — N. and M. America: SHARP 1939, p. 342, Fig. 30.

caespitosum (Hedw.) Mitt. — El Salvador: WINKLER 1964-65, p. 508, Abb. 3. SE. Asia: WANG 1970, p. 410, Fig. 36 (*S. tristiculum*).

demissum (Wils.) Mitt. — Europe: J. AMANN 1928, p. 305, Fig. 4. The British Isles: WHITEHOUSE et al. 1963, p. 524; orig. A.C. Crundwell. Japan: SEKI 1968, p. 49, Fig. 19.

japonicum (Broth.) Broth. — Japan: SEKI 1968, p. 45, Fig. 17 (*S. subhumile* ssp. *japonicum*).

micans (Mitt.) Braithw. — The British Isles: WHITEHOUSE et al. 1963, p. 525; orig. A.C. Crundwell (*S. novae-caesareae*).

novae-caesareae (Aust.) Britt. — See *S. micans* (Mitt.) Braithw.

(SEMATOPHYLLUM contin.)

pulchellum (Card.) Broth. — Japan: SEKI 1968, p. 33, Fig. 11.

robustum (Card.) Broth. — Japan: SEKI 1968, p. 37, Fig. 13.

subhumile (C. Müll.) Fleisch. ssp. japonicum (Broth.) Seki — See S. japonicum (Broth.) Broth.

substrumulosum (Hamp.) Britt. — Yugoslavia: MARTINCIC 1966, p. 63, Abb. 37.

tristiculum (Mitt.) Fleisch. — See S. caespitosum (Hedw.) Mitt.

SEMIBARBULA

orientalis (Web.) Wijk et Marg. — World: GANGULEE 1972, p. 717, Map CCXV.

ranuii Gang. — World: GANGULEE 1972, p. 719, Map CCXVI.

SHARPIELLA

seligeri (Brid.) Iwats. — See Isopterygium seligeri (Brid.) Loeske

spinulosa (Sull. et Lesq.) Iwats. — See Hypnum spinulosum Sull. et Lesq.

striatella (Brid.) Iwats. — See Plagiothecium striatellum (Brid.) Lindb.

turfacea (Lindb.) Iwats. — See Isopterygium turfaceum (Lindb.) Lindb.

SOLMSIELLA

biseriata (Aust.) Steere — N. Hemisphere: IWATSUKI & SHARP 1967, p. 168, Map d.

kurzii Steere — USA (Fla.) and M. America: SCHORNHERST 1943, p. 521, Map 5.

SPHAGNUM

acutifolioides Warnst. — E. Asia: GANGULEE 1969, p. 24, Map VIII.

amblyphyllum (Russ.) Zick. — See S. recurvum P. Beauv. var amblyphyllum (Russ.) Warnst.

angermanicum Melin — E. Canada: MAASS 1966a, p. 97, Fig. 1

(S. angermanicum). E. Canada and W. Europe: MAASS 1967a, Tab. 160

(S. angermanicum). NW. Canada (Good Friday Bay area): KUC 1969b, p. 647, Fig. 2. Norway (S of lat. 65°N): SKOGEN 1970, p. 9, Fig. 2

(S. angermanicum). Czechoslovakia: PILOUS 1971, p. 384, Obr. 105.

Norway: FLATBERG & MOEN 1972, p. 4, Fig. 2 (S. angermanicum). World: SCHOFIELD & CRUM 1972, p. 192, Map 35 (S. angermanicum).

(SPHAGNUM contin.)

annulatum Lindb. ex Warnst. — N. America: MAASS 1968, Tab. 79.

antarcticum Mitt. — See *S. australe* Mitt.

aongstroemii C. Hartm. — Scandinavia, Finland and parts of USSR: K.F. DUSÉN 1887, the folding map. Spitzbergen: KUC 1973, p. 453, Fig. 6. N. America: VITT & ANDRUS 1975, p. 464, Fig. 1.

apiculatum H. Lindb. — See *S. recurvum* P. Beauv.

ssp. amblyphyllum (Russ.) Szafran — See *S. recurvum* P. Beauv. var. *amblyphyllum* (Russ.) Warnst.

auriculatum Schimp. — See *S. subsecundum* Nees var. *auriculatum* (Schimp.) Schlieph.

australe Mitt. — World: MEUSEL 1943, Karte 35a (*S. antarcticum*).

balticum (Russ.) C. Jens. — USSR: KUDRJASCHOFF 1940, p. 157.

Sweden (Nr.): WALDHEIM 1944a, p. 10, Fig. 2. Czechoslovakia: PILOUS 1960, Mapka 2. Finland (S of lat. 65°N): EUROLA 1962, p. 133, Abb. 35. Czechoslovakia: PILOUS 1971, p. 301, Obr. 72. Spitzbergen: KUC 1973a, p. 453, Fig. 6.

bavaricum Warnst. — See *S. subsecundum* Nees var. *camusii* Card.

beccarii Hampe — World: GANGULEE 1969, p. 13, Map V.

bescherellei Warnst. — See *S. pappeanum* C. Müll.

calymmatophyllum Warnst. et Card. — Japan: SUZUKI 1958, p. 240, Map 1.

centrale C. Jens. — Norway: LID 1925, p. 253, Fig. 13. World: LID 1925, p. 255, Fig. 14. Sweden (Nr.): WALDHEIM 1944a, p. 36, Fig. 3. USSR (Caucasus): SAVICZ-LJUBITZKAJA 1950, p. 209. World: SAVICZ-LJUBITZKAJA 1950, p. 211. Czechoslovakia: PILOUS 1971, p. 216, Obr. 36.

compactum Lam. et Cand. — Finland (S of lat. 67°N): EUROLA 1962, p. 113, Abb. 16. Japan: SUZUKI 1965, p. 314, Fig. 4. Czechoslovakia: PILOUS 1971, p. 246, Obr. 48. Germany (Schlesw.-Holst.): FRAHM & WALSEMANN 1973, p. 48.

contortum Schultz — Europe and Asia: SMIRNOVA 1928, p. 59. Europe and Asia: SMIRNOVA 1929, p. 111, Fig. 1. Sweden: ÅBERG 1937, p. 33, Karte 1. Sweden (Nr.): WALDHEIM 1944a, p. 36, Fig. 3. Japan: SUZUKI 1958, p. 240, Map 1. W. France: TOUFFET 1969a, p. 46, Fig. 11.

(SPHAGNUM contin.)

(*S. laricinum*). Czechoslovakia: PILOUS 1971, p. 344, Obr. 90.
Sweden (Vrm.): FRANSSON 1972, p. 113, Map 74.

var. platyphyllum (Lindb.) Åberg — See *S. subsecundum* Nees ssp.
platyphyllum (Lindb.) Nerib.

crassicladum Warnst. — See *S. subsecundum* Nees var. *obesum* (Wils.)
Schimp.

cuspidatulum C. Müll. — E. Asia: GANGULEE 1969, p. 41, Map XII.

cuspidatum Hoffm. — Poland (Upper Wislok): WACLAWSKA 1957, p. 96,
Fig. 1. Finland (S of lat. 65°N): EUROLA 1962, p. 134, Abb. 37.
SW. Germany: DÜLL 1969, p. 301, Taf. 7a. World: GANGULEE 1969,
p. 35, Map X. Czechoslovakia: PILOUS 1971, p. 274, Obr. 59.
Japan: SUZUKI 1972, p. 16, Fig. 9. Sweden (Vrm.): FRANSSON 1972,
p. 113, Map 75.

var. torreyi Braithw. — NE. USA: ANDRUS 1974, p. 512 (*S. torreyanum*).

cyclophyllum Sull. et Lesq. — S. America: MAASS 1966b, Tab. 19.

cymbifolium (Ehrh.) Hedw. — See *S. palustre* L.

denticulatum Brid. — See *S. subsecundum* Nees var. *obesum* (Wils.)
Schimp.

dusenii (C. Jens.) Russ. et Warnst. — W. Europe: SCHUMACHER 1937,
p. 232. E. Germany, Poland, Czechoslovakia and W. USSR: SZAFRAN
1948, p. 61, Ryc. 34. Czechoslovakia: PILOUS 1960, Mapa 1.
Finland (S of lat. 65°N): EUROLA 1962, p. 134, Abb. 36. Sweden
(Vrm.): FRANSSON 1972, p. 113, Map 76.

var. majus (Russ.) Card. — N. America: MAASS 1968, Tab. 78
(*S. majus*). Czechoslovakia: PILOUS 1971, p. 270, Obr. 57 (*S. majus*).
Japan: SUZUKI 1972, p. 10, Fig. 4 (*S. majus*). Germany (Schlesw.-
Holst.): FRAHM & WALSEMANN 1973, p. 50 (*S. majus*).

fallax Klinggr. — Japan: SUZUKI 1972, p. 11, Fig. 5.

fimbriatum Wils. — Sweden (Nrsk.): WALDHEIM 1944a, p. 57, Fig. 7.
Latvia: ABOLIN 1968, p. 74. W. France: TOUFFET 1969, p. 43, Fig. 4.
Czechoslovakia: PILOUS 1971, p. 361, Obr. 95. England (Warwick-
shire): LAFLIN 1971, p. 699, Map 829. Spitzbergen: KUC 1973a,

(SPHAGNUM contin.)

p. 452, Fig. 3. N. Canada: KUC 1973b, p. 37, Fig. 12. Iberia: FUERTES-LASALA 1974, p. 122, Fig. 2.

var. concinnum (Berggr.) Warnst. — NW. Canada (Axel Heiberg Island): KUC 1973b, p. 36, Fig. 11.

flexuosum Doz. et Molk. — See *S. recurvum* P. Beauv. var. *amblyphyllum* (Russ.) Warnst.

fuscum (Schimp.) Klinggr. — W. Europe: SCHUMACHER 1937, p. 232 USSR: KUDRJASCHOFF 1940, p. 158. W. France: TOUFFET 1969a, p. 46, Fig. 10. Czechoslovakia: PILOUS 1971, p. 375, Obr. 101.

girgensohnii Russ. — Poland (Upper Wislok): WACLAWSKA 1957, p. 96, Fig. 1. World: GANGULEE 1969, p. 31, Map IX. Czechoslovakia: PILOUS 1971, p. 365, Obr. 97. Spitzbergen: KUC 1973a, p. 452, Fig. 4. Germany (Schlesw.-Holst.): FRAHM & WALSEMANN 1973, p. 44. Poland (Silesia): BERDOWSKI 1974, p. 29, Mapa 6.

gravetii Russ. — See *S. subsecundum* Nees var. *auriculatum* (Schimp.) em. Åberg

guwassanense Warnst. — Japan: SUZUKI 1958, p. 240, Map 1.

henryense Warnst. — NE. USA: ANDRUS 1974, p. 512.

imbricatum Hornsch. ex Russ. — Norden: K.F. DUSEN 1887 (the folding map). E. Prussia: GROSS 1912, p. 87, Karte 3. Norway: LID 1925, p. 233, Fig. 5. World: LID 1925, p. 235, Fig. 6. Germany (Bayern): PAUL 1943, p. 120. Sweden (Nrsk.): WALDHEIM 1944a, p. 40, Fig. 4. Japan: SUZUKI 1956b, p. 168, Map 2. The British Isles: PIGOTT & PIGOTT 1963, p. 330, Fig. 6. World: TJUREMNOV 1963, reprinted in J.H. DICKSON 1973, p. 72, Fig. 33. M. and S. America: MAASS 1966b, Tab. 19. N. Germany: PANKOW & KÜHNER 1967, Tab. 21. Latvia: ABOLIN 1968, p. 62. World: GANGULEE 1969, p. 17, Map VI. W. France: TOUFFET 1969a, p. 45, Fig. 9. Czechoslovakia: PILOUS 1971, p. 230, Obr. 42. Japan: SUZUKI 1972, p. 14, Fig. 7. Sweden (Vrm.): FRANSSON 1972, p. 113, Map 77.

var. affine (Ren. et Card.) Warnst. — Norway: LID 1925, p. 233, Fig. 5.

jensenii H. Lindb. — Sweden (Nrsk.): WALDHEIM 1944a, p. 56, Fig. 6. Sweden (Vrm.): FRANSSON 1972, p. 113, Map 78. NE. USA: ANDRUS 1974, p. 512.

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junghuhnianum Doz. et Molk. — E. Asia: GANGULEE 1969, p. 24,
Map VIII. World: SCHOFIELD & CRUM 1972, p. 185, Map 15.

ssp. pseudomolle (Warnst.) Suz. — Japan: SUZUKI 1956a, p. 197,
Fig. 6. Japan: SUZUKI 1972, p. 5, Fig. 1.

khasianum Mitt. — E. Asia: GANGULEE 1969, p. 41, Map XII.

kushiroense Suz. — Japan: SUZUKI 1958, p. 240, Map 1.

laricinum (Wils.) Spruce ex Lindb. — See *S. contortum* Schultz

lenense H. Lindb. ex Sav. — See *S. lindbergii* Schimp. var. *microphyllum* Warnst.

lindbergii Schimp. — Scandinavia and Denmark: MELIN 1913, Taf. 1.
Sweden (Vrm.): ÅBERG 1933, p. 10, Karta 1. USSR: KUDRJASCHOFF 1940,
p. 156. Sweden (Nrk.): WALDHEIM 1944a, p. 56, Fig. 6. E. Germany,
Poland, Czechoslovakia and W. USSR: SZAFRAN 1948, p. 61, Ryc. 34.
Alaska and Yukon: PERSSON 1949, p. 515, Fig. 6. Sweden (S of lat.
61,5): SJÖRS 1949, p. 574. Finland (S of lat. 67°N): EUROLA 1962,
p. 113, Abb. 16. The British Isles: WHITEHOUSE et al. 1963, p. 526;
orig. D.A. Ratcliffe. Europe: STÖCKER 1964, p. 670, Abb. 8. Czechoslovakia:
PILOUS 1971, p. 293, Obr. 68. Sweden (Vrm.): FRANSSON
1972, p. 113, Map 79.

var. microphyllum Warnst. — N. America (Alaska and Yukon): PERSSON
1949, p. 514, Fig. 5 (*S. lenense*). World: SMIRNOVA 1959, p. 279
(*S. lenense*). Canada: HOLMEN & SCOTTER 1967, p. 434, Fig. 1
(*S. lenense*). N. America and Greenland: SCHOFIELD 1972, p. 1120,
Fig. 8 (*S. lenense*).

macrophyllum Bernh. ex Brid. var. burinense Maass — E. Canada:
MAASS 1967b, p. 187, Fig. 27.

var. floridanum Aust. — E. USA: BLOMQUIST & ROGERS 1951, p. 101.

var. macrophyllum — E. USA: BLOMQUIST & ROGERS 1951, p. 101.
E. Canada: MAASS 1967b, p. 187, Fig. 27.

magellanicum Brid. — Norway: LID 1925, p. 242, Fig. 9. World: LID
1925, p. 224, Fig. 10. USSR: KUDRJASCHOFF 1940, p. 154 (*S. medium*).
Japan: SUZUKI 1956b, p. 169, Map 4. Poland (Upper Wisłok): WACLAWSKA
1957, p. 96, Fig. 1. W. France (Monts d'Arrée): COURTEJAIRE & TOUFFET
1961, p. 94, Tabl. 4 (*S. medium*). SW. Germany: DÜLL 1969, p. 301, Taf.

(SPHAGNUM contin.)

7a. World: GANGULEE 1969, p.13, Map V. W. France: TOUFFET 1969a, p.43, Fig.5 (S. medium). Czechoslovakia: PILOUS 1971, p.222, Obr.38.

majus (Russ.) C. Jens. — See S. dusenii (C. Jens.) Russ. et Warnst. var. majus (Russ.) Card.

medium Limpr. — See S. magellanicum Brid.

mendocinum Sull. — N. America: MAASS 1968, Tab. 80.

microporum Warnst. ex Card. — Japan: SUZUKI 1958, p. 240, Map 1. Japan: SUZUKI 1972, p. 8, Fig. 3.

molle Sull. — Scandinavia, Denmark, and Germany: K.F. DUSÉN 1887 (the folding map). E. Prussia: GROSS 1912, p. 87, Karte 3. Norden: KOTILAINEN 1933a, p. 3, Kartake 1. Scandinavia, Finland and W. USSR: KOTILAINEN 1933b, p. 7, Kartogramm 1. Germany (Bayern): PAUL 1943, p. 120. Sweden (Nr.): WALDHEIM 1944a, p. 40, Fig. 4. World: RØNNING 1958, p. 6, Fig. 3. Norway: RØNNING 1958, p. 7, Fig. 4. Czechoslovakia: PILOUS 1960, Mapka 3 (S. tabulare). W. France (Monts d'Arrée): COURTEJAIRE & TOUFFET 1961, p. 94, Tabl. 5. Poland: KUC 1964, p. 49, Ryc. 6. N. Germany: PANKOW & KÜHNER 1967, Tab. 21. W. France: TOUFFET 1969a, p. 47, Fig. 13. Czechoslovakia: PILOUS 1971, p. 332, Obr. 84 (S. tabulare). Sweden (Vrm.): FRANSSON 1972, p. 113, Map 80. Norway: FLATBERG & MOEN 1972, p. 6, Fig. 3. Germany (Schlesw.-Holst.): FRAHM & WALSEMANN 1973, p. 46. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 62, Ryc. 3.

var. cochabambae Maass — S. America: MAASS 1966b, Tab. 19.

molluscum Bruch — See S. tenellum Hoffm.

nomoreum Scop. — Poland (Upper Wislok): WACLAWSKA 1957, p. 96, Fig. 1. World: GANGULEE 1969, p. 22, Map VII. Czechoslovakia: PILOUS 1971, p. 398, Obr. 112. Czechoslovakia: PILOUS 1971, p. 394, Obr. 109. Italy (with Sardinia): RAFFAELLI 1972, p. 266, Fig. 2.

var. leptocladum (Limpr.) Pilous — See S. rubellum Wils. var. leptocladum (Limpr.) Wijk et Marg.

var. schimperii (Röll) Pilous — See S. nomoreum Scop.

nepalense H. Suzuki — E. Asia: GANGULEE 1969, p. 24, Map VIII.

obesum (Wils.) Warnst. — See S. subsecundum Nees var. obesum (Wils.) Schimp.

(SPHAGNUM contin.)

obtusum Warnst. — Sweden (Nrsk.): WALDHEIM 1944a, p. 36, Fig. 3.
Czechoslovakia: PILOUS 1960, Mapka 3. N. America: MAASS 1968,
Tab. 81. Czechoslovakia: PILOUS 1971, p. 293, Obr. 68. Sweden
(Vrm.): FRANSSEN 1972, p. 113, Map 81.

orientale Sav. — USSR: ABRAMOVA 1956c, p. 498.

ovatum Hampe — E. Asia: GANGULEE 1969, p. 41, Map XII.

palustre L. — Norway: LID 1925, p. 237, Fig. 7. USSR: KUDRJASCHOFF
1940, p. 159 (S. cymbifolium). Japan: SUZUKI 1956b, p. 164, Map 1
and p. 171, Map 5. Poland (Upper Wislok): WACLAWSKA 1957, p. 96,
Fig. 1. World: GANGULEE 1969, p. 9, Map IV. World: GANGULEE 1969,
p. 9, Map IV (S. pseudocymbifolium). England (Warwickshire): LAFLIN
1971, p. 698, Map 825. Czechoslovakia: PILOUS 1971, p. 212, Obr. 34.
Japan: SUZUKI 1972, p. 17, Fig. 10.

papillosum Lindb. — Norway: LID 1925, p. 246, Fig. 11. Japan:
SUZUKI 1956b, p. 168, Map 3. Finland (S of lat. 65°N): EUROLA 1962,
p. 127, Abb. 28. Latvia: ABOLIN 1968, p. 62. World: GANGULEE 1969,
p. 17, Map VI. Czechoslovakia: PILOUS 1971, p. 226, Obr. 40.
Sweden (Vrm.): FRANSSEN 1972, p. 114, Map 82. Japan: SUZUKI 1972,
p. 15, Fig. 8.

var. laeve Warnst. — Norway: LID 1925, p. 246, Fig. 11.

pappeanum C. Müll. — World: MEUSEL 1943, Karte 35a, World: MEUSEL
1943, Karte 35a (S. bescherelei).

parvifolium (Warnst.) Warnst. — See S. recurvum P. Beauv. var.
tenue Klinggr.

perfoliatum Sav. — USSR: ABRAMOVA 1956a, p. 499.

platyphyllum (Lindb.) Warnst. — See S. subsecundum Nees ssp. platy-
phyllum (Lindb.) Herib.

plumulosum Röll. — Latvia: ABOLIN 1968, p. 74 (S. subnitens).
World: GANGULEE 1969, p. 22, Map VII. Czechoslovakia: PILOUS 1971,
p. 405, Obr. 115. Italy (with Sardinia): RAFFAELLI 1972, p. 269,
Fig. 3 (S. subnitens). Sweden (Vrm.): FRANSSEN 1972, p. 114, Map 84.

portoricense Hampe — N. and M. America: MAASS 1966b, Tab. 18.
S. America: MAASS 1966b, Tab. 19.

(SPHAGNUM contin.)

pseudocymbifolium C. Müll. — See *S. palustre* L.

pulchrum (Lindb.) Warnst. — Scandinavia and Denmark: MELIN 1913, Taf. 1. Sweden (Vrm.): ÅBERG 1933, p. 15, Karta 2 (*S. recurvum* var. *pulchrum*). Sweden (Nrsk.): WALDHEIM 1944a, p. 40, Fig. 4. The British Isles: WHITEHOUSE et al. 1965, p. 883; orig. A.R. Perry. Czechoslovakia: PILOUS 1971, p. 297, Obr. 70. Sweden (Vrm.): FRANSSON 1972, p. 114, Map 85. NE. USA: ANDRUS 1974, p. 512.

pylaesii Brid. — USA (E. part): SHARP 1939, p. 333, Fig. 8. Europe and N. America: P. ALLORGE 1947, p. 65, Fig. 5 (*S. pylaiei*). W. France (Monts d'Arrée): COURTEJAIRE & TOUFFET 1961, p. 96, Tabl. 9 (*S. pylaiei*). W. France: COURTEJAIRE 1962, p. 40, Fig. 1 (*S. pylaiei*). N. France: TOUFFET 1964-65, p. 503 (*S. pylaiei*). SE. Canada: MAASS 1966a, p. 97, Fig. 1. N. America: MAASS 1966b, Tab. 15. S. America: MAASS 1966b, Tab. 19. W. France: TOUFFET 1969a, p. 48, Fig. 14 (*S. pylaiei*). Iberia: V. ALLORGE 1971, p. 686. World: SCHOFIELD & CRUM 1972, p. 192, Map 34.

pylaiei Brid. ex Lindb. — See *S. pylaesii* Brid.

quinquefarium (Lindb.) Warnst. — S. Finland and European USSR: SMIRNOVA 1928, p. 63. Finland and USSR: SMIRNOVA 1929, p. 111, Fig. 2. Sweden (Nrsk.): WALDHEIM 1944a, p. 44, Fig. 5. Poland (Upper Wislok): WACLAWSKA 1957, p. 96, Fig. 1. Latvia: ABOLIN 1968, p. 74. W. France: TOUFFET 1969a, p. 47, Fig. 12. Czechoslovakia: PILOUS 1971, p. 389, Obr. 107.

recurvum P. Beauv. — Poland (Upper Wislok): WACLAWSKA 1957, p. 96, Fig. 1 (*S. apiculatum*). World: GANGULEE 1969, p. 39, Map XI. Czechoslovakia: PILOUS 1971, p. 291, Obr. 67. England (Warwickshire): LAFLIN 1971, p. 698, Map 827. Iberia: CASAS DE PUIG 1975b, p. 734, Fig. 2.

var. amblyphyllum (Russ.) Warnst. — Sweden (Nrsk.): WALDHEIM 1944a, p. 57, Fig. 7 (*S. amblyphyllum*). Poland (Upper Wislok): WACLAWSKA 1957, p. 96, Fig. 1 (*S. apiculatum* ssp. *amblyphyllum*). Czechoslovakia: PILOUS 1971, p. 287, Obr. 65 (*S. flexuosum*). Japan: SUZUKI 1972, p. 12, Fig. 6 (*S. flexuosum*). Iberia: CASAS DE PUIG 1975b, p. 734, Fig. 2.

var. pulchrum (Lindb.) Warnst. — See *S. pulchrum* (Braithw.) Warnst.

(SPHAGNUM contin.)

var. tenue Klinggr. — Finland (S of lat. 65°N): EUROLA 1962, p.133, Abb. 35 (S. parvifolium).

riparium Angstr. — N. America: FABIUS 1950, p. 314. Norway: BUEN 1962, p. 30, Fig. 6. The British Isles: WHITEHOUSE et al. 1967, p. 361; orig. U.K. Duncan. Czechoslovakia: PILOUS 1971, p. 262, Obr. 54. NE. USA: ANDRUS 1974, p. 512.

robustum (Warnst.) Röhl. — Poland (Upper Wislok): WACLAWSKA 1957, p. 96, Fig. 1. Czechoslovakia: PILOUS 1971, p. 370, Obr. 99.

rubellum Wils. — E. Prussia: GROSS 1912, p. 83, Karte 1 (S. subtile). Sweden (Nr.): WALDHEIM 1944a, p. 44, Fig. 5 (S. subtile). Denmark (Maglemose): C. OLSEN 1946, p. 353. Poland (Upper Wislok): WACLAWSKA 1957, p. 96, Fig. 1. Finland (S of lat. 65°N): EUROLA 1962, p. 134, Abb. 39.

var. leptocladum (Limpr.) Wijk et Marg. — Czechoslovakia: PILOUS 1971, p. 398, Obr. 112 (S. nemoreum var. leptocladum).

rufescens (Nees et Hornsch.) Warnst. — See S. subsecundum Nees var. rufescens (Nees et Hornsch.) Hüb.

squarrosus Crome — Poland (Upper Wislok): WACLAWSKA 1957, p. 96, Fig. 1. W. France (Monts d'Arrée): COURTEJAIRE & TOUFFET 1961, p. 95, Tabl. 7. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 37. Japan and Corea: SUZUKI 1967, p. 257, Fig. 4. World: GANGULEE 1969, p. 31, Map IX. W. France: TOUFFET 1969a, p. 44, Fig. 6. Czechoslovakia: PILOUS 1971, p. 250, Obr. 50. England (Warwickshire): LAFLIN 1971, p. 698, Map 826. Spitzbergen: KUC 1973a, p. 452, Fig. 1.

strictum Sull. — W. Europe: SCHUMACHER 1939, p. 145. World: MEUSEL 1943, Karte 35a. N. and M. America: MAASS 1966b, Tab. 17. S. America: MAASS 1966b, Tab. 19. NE. USA: ANDRUS 1974, p. 512.

subfulvum H. Sjörs — Norden (excl. Denmark) and parts of USSR incl. Estonia: SJÖRS 1945, p. 417, Fig. 5. W. USSR (prov. Karelia): JURKOVSKAJA 1963, p. 1838. Sweden (Vrm.): FRANSSON 1972, p. 114, Map 86. NE. USA: ANDRUS 1974, p. 512.

subnitens Russ. et Warnst. — See S. plumulosum Röhl.

(SPHAGNUM contin.)

subobesum Warnst. — Japan: SUZUKI 1958, p. 240, Map 1. Japan: SUZUKI 1972, p. 7, Fig. 2.

subsecundum Nees. — Sweden: ÅBERG 1937, p. 42, Karte 3. Japan: SUZUKI 1958, p. 240, Map 1. World: GANGULEE 1969, p. 39, Map XI. England (Warwickshire): LAFLIN 1971, p. 699, Map 828. Czechoslovakia: PILOUS 1971, p. 316, Obr. 76. Sweden (Vrm.): FRANSSON 1972, p. 114, Map 87. Iceland: DIERSEN 1973, p. 101.

ssp. platyphyllum (Lindb.) Herib. — Sweden: ÅBERG 1937, p. 38, Karte 2 (S. contortum var. platyphyllum). Japan: SUZUKI 1958, p. 240, Map 1 (S. platyphyllum). Latvia: ABOLIN 1968, p. 68 (S. platyphyllum). W. France: TOUFFET 1969a, p. 45, Fig. 9 (S. platyphyllum). Czechoslovakia: PILOUS 1971, p. 348, Obr. 92. Sweden (Vrm.): FRANSSON 1972, p. 114, Map 83 (S. platyphyllum).

var. auriculatum (Schimp.) Schlieph. — Scandinavia and Denmark: MELIN 1913, Taf. 1 (S. gravetii). Sweden: ÅBERG 1937, p. 56, Karte 6. Sweden (Nrk.): WALDHEIM 1944a, p. 40, Fig. 4 (S. auriculatum). NE. Germany: KÜHNER & PANKOW 1967, p. 172, Abb. 3 (S. auriculatum). Latvia: ABOLIN 1968, p. 68 (S. auriculatum). Czechoslovakia: PILOUS 1971, p. 324, Obr. 80 (S. auriculatum). Sweden (Vrm.): FRANSSON 1972, p. 113, Map 73 (S. auriculatum). Italy (with Sardinia): RAFFAELLI 1972, p. 264, Fig. 1 (S. auriculatum).

var. bavaricum (Warnst.) Åberg — See S. subsecundum Nees var. camusii Card.

var. camusii Card. — Sweden: ÅBERG 1937, p. 53, Karte 5 (S. subsecundum var. bavaricum). Czechoslovakia: PILOUS 1971, p. 332, Obr. 84 (S. bavaricum).

var. inundatum (Russ.) C. Jens. — Sweden: ÅBERG 1937, p. 48, Karte 4.

var. obesum (Wils.) Schimp. — W. France (Monts d'Arrée): COURTE-JAIRE & TOUFFET 1961, p. 96, Tabl. 8 (S. crassicladum). W. France: TOUFFET 1969a, p. 44, Fig. 7 (S. obesum). Czechoslovakia: PILOUS 1971, p. 328, Obr. 82 (S. crassicladum). Czechoslovakia: PILOUS 1971, p. 340, Obr. 88 (S. denticulatum).

var. rufescens (Nees et Hornsch.) Hüb. — Sweden: ÅBERG 1937, p. 59, Karte 7. W. France: TOUFFET 1969a, p. 45, Fig. 8 (S. trugidulum).

(SPHAGNUM contin.)

Czechoslovakia: PILOUS 1971, p. 336, Obr. 86 (*S. rufescens*).

subtile (Russ.) Warnst. — See *S. rubellum* Wils.

tabulare Sull. — See *S. molle* Sull.

tenellum Hoffm. — USSR: KUDRJASCHOFF 1940, p. 155 (*S. molluscum*).

Finland (S of lat. 65°N): EUROLA 1962, p. 134, Abb. 38. *S. Greenland*:

HOLMEN 1964, p. 460, Fig. 1. *Greenland and N. America*: MAASS 1966b,

Tab. 16. *S. America*: MAASS 1966b, Tab. 19. *N. Germany*: PANKOW &

KÜHNER 1967, Tab. 21. *W. France (Monts d'Arrée)*: COURTEJAIRE &

TOUFFET 1969, p. 95, Tabl. 6 (*S. molluscum*). *Czechoslovakia*:

PILOUS 1971, p. 306, Obr. 74. *NE. USA*: ANDRUS 1974, p. 512.

teres (Schimp.) Ångstr. — Japan: SUZUKI 1967, p. 263, Fig. 6.

World: GANGULEE 1969, p. 35, Map X. *W. France*: TOUFFET 1969a, p. 46,

Fig. 10. *Sweden (Vrm.)*: FRANSSON 1972, p. 114, Map 88. *Spitzbergen*:

KUC 1973a, p. 452, Fig. 2.

torreyanum Sull. — See *S. cuspidatum* Hoffm. var. *torreyi* Braithw.

turgidulum Warnst. — See *S. subsecundum* Nees var. *rufescens* (Nees et Hornsch.) Hüb.

warnstorffianum DR. — Sweden (Nr.): WALDHEIM 1944a, p. 36, Fig. 3

(*S. warnstorffii*). *Czechoslovakia*: PILOUS 1971, p. 379, Obr. 103.

Sweden (Vrm.): FRANSSON 1972, p. 114, Map 89. *Spitzbergen*: KUC 1973a,

p. 453, Fig. 5. *Norway (AuAgd., Auster Moland)*: PEDERSEN 1974,

p. 184, Fig. 2 (*S. warnstorffii*).

warnstorffii Russ. — See *S. warnstorffianum* DR.

wulfianum Girg. — Norden (only Sweden and Finland), parts of USSR,

Estonia: K.F. DUSEN 1887 (the folding map). *Scandinavia and Denmark*:

MELIN 1913, Taf. 1. *Sweden (Nr.)*: WALDHEIM 1944a, p. 70, Fig. 8.

Scandinavia (S of lat. 65°N): LÅG 1946, p. 107. *E. Germany, Poland,*

Czechoslovakia and W. USSR: SZAFRAN 1948, p. 61, Ryc. 34. *N. Hemis-*

phere: HOLMEN & LANGE 1958, p. 380, Fig. 1. *Rumania*: POP 1965,

p. 433, Fig. 4. *Poland*: SOBOTKA 1975, p. 144, Fig. 1.

SPLACHNOBRYUM

assamicum Dix. — SE. Asia: GANGULEE 1974, p. 869, Map CCLXVIII.

bengalense Gang. — SE. Asia: GANGULEE 1974, p. 869, Map CCLXVIII.

(SPLACHNOBRYUM contin.)

flaccidum (Harv.) Braithw. — SE. Asia: GANGULEE 1974, p. 869, Map CCLXVIII.

indicum Hamp et C. Müll. — SE. Asia, Australia and Micronesia: MILLER, WHITTIER & BONNER 1963, Pl. 27. SE. Asia: GANGULEE 1974, p. 869, Map CCLXVIII.

synoicum H. Robinson — SE. Asia: GANGULEE 1974, p. 869, Map CCLXVIII.

SPLACHNUM

ampullaceum Hedw. — Canada (Quebec prov.): KUCYNIK 1951, p. 39. Denmark: KJ. HOLMEN et al. 1959, p. 131, Fig. 53; orig. Kamma Holmen. S. Poland: KUC 1964, p. 127, Ryc. 27.

luteum Montin. ex Hedw. — Canada (Quebec prov.): KUCYNIK 1951, p. 39. N. Norway (Fnm.): RYVARDEN 1966, p. 19, Fig. 3.

var. melanocaulon Wahlenb. — N. Europe (N of lat. 64°N): RYVARDEN 1970, p. 775, Fig. 1 (S. melanocaulon).

melanocaulon (Wahlenb.) Schwaegr. — See S. luteum Hedw. var. melanocaulon Wahlenb.

ovatum Dicks. ex Hedw. — See S. sphaericum Hedw.

pedunculatum Lindb. — See S. sphaericum Hedw.

rubrum Montin. ex Hedw. — Canada (Quebec prov.): KUCYNIK 1951, p. 39. N. Norway (Fnm.): RYVARDEN 1966, p. 16, Fig. 1. Latvia: ABOLIN 1968, p. 151.

sphaericum Hedw. — Canada (Quebec prov.): KUCYNIK 1951, p. 39 (S. ovatum). SW. Poland: KUC 1956, p. 637, Fig. 4 (S. pedunculatum). N. Norway (Fnm.): RYVARDEN 1966, p. 17, Fig. 2 (S. ovatum).

vasculosum L. ex Hedw. — Canada (Quebec prov.): KUCYNIK 1951, p. 39. Denmark: KJ. HOLMEN et al. 1959, p. 132, Fig. 54; orig. Kamma Holmen. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 61. N. Norway (Fnm.): RYVARDEN 1966, p. 16, Fig. 1. The British Isles: WHITEHOUSE et al. 1968, p. 597; orig. A.McG. Stirling. Spitzbergen: KUC 1973a, p. 462, Fig. 41. Newfoundland: TUOMIKOSKI, KOPONEN & AHTI 1973, p. 257, Fig. 3.

SPORLEDERA

palustris (Bruch et Schimp.) Schimp. — See *Pleuridium palustre* (Bruch et Schimp.) B.S.G.

STABLERIA

gracilis (B.S.G.) Lindb. — See *Orthodontium gracile* B.S.G.

STEGONIA

latifolia (Schwaegr.) Vent. — Spitzbergen: KUC 1973a, p. 459, Fig. 30 (*Pottia latifolia*).

STEREODON

fastigiatus (Brid.) Braithw. — See *Hypnum ravaudii* Boul. ssp. *fastigiatum* (Brid.) Wijk et Marg.

STEREOPHYLLUM

radiculosum (Hook.) Mitt. — El Salvador: WINKLER 1964-65, p. 508, Abb. 3.

STREBLOTTRICHUM

convolutum (Hedw.) P. Beauv. — England (Warwickshire): LAFLIN 1971, p. 710, Map 874 (*Barbula convoluta*).

croceum (Brid.) Loeske — Yugoslavia: MARTINCIC 1966, p. 43, Abb.22.

STROEMIA

gymnostoma (Brid.) Hag. — See *Orthotrichum gymnostomum* Bruch ex Brid.

obtusifolia (Brid.) Hag. — See *Orthotrichum obtusifolium* Brid.

SYMBLEPHARIS

reinwardtii (Doz. et Molk.) Mitt. — World: GANGULEE 1971, p. 372, Map CXII.

vaginata (Hook.) Wijk et Marg. — World: GANGULEE 1971, p. 372, Map CXII.

SYMPHYODON

perrottetii Mont. SE. Asia: ANDO & SEKI 1962, p. 84, Fig. 4.

SYNTRICHIA

inermis (Brid.) Bruch — See *Tortula inermis* (Brid.) Mont.

laevipila Brid. — See *Tortula laevipila* (Brid.) Schwaegr.

latifolia (Hartm) Hüb. — See *Tortula latifolia* Hartm.

(SYNTRICHIA contin.)

montana Nees — See *Tortula intermedia* (Brid.) De Not.

papillosa (Wild.) Jur. — See *Tortula papillosa* Wils.

princeps (De Not.) Mitt. — See *Tortula princeps* De Not.

pulvinata (Jur.) Jur. — See *Tortula virescens* (De Not.) De Not.

SYRRHOPODON

amoenus Broth. — SE. Asia, Australia and Oceania: MILLER, WHITTIER & BONNER 1963, Pl. 30.

assamicus Robinson — SE. Asia: GANGULEE 1972, p. 577, Map CLXXI.

ciliatus (Hook.) Schwaegr. — SE. Asia, Australia and Oceania: MILLER, WHITTIER & BONNER 1963, Pl. 30.

croceus Mitt. — SE. Asia, Australia and Oceania: MILLER, WHITTIER & BONNER 1963, Pl. 30.

gardneri (Hook.) Schwaegr. — SE. Asia: GANGULEE 1972, p. 577, Map CLXXI.

hasegawae Tak. et Iwats. — E. Asia: IWATSUKI 1968, p. 477, Fig. 3 (*Calymperes johannis-winkleri* var. *hasegawae*).

japonicus (Besch.) Broth. — E. Asia: IWATSUKI 1968, p. 477, Fig. 3.

larminatii Broth. et Par. — SE. Asia: GANGULEE 1972, p. 575, Map CLXX.

ligulatus Mont. — E. USA and M. America: SCHORNHERST 1946, p. 159, Fig. 6.

parasiticus (Brid.) Besch. — USA and M. America: PURSELL & REESE 1970, p. 149, Fig. 4.

pilulifer Dix. — SE. Asia: GANGULEE 1972, p. 590, Map CLXXV (*Thyridium piluliferum*).

prolifer Schwaegr. — USA (Fla.), M. America and the Antilles: SCHORNHERST 1943, p. 521, Map 7.

revolutus Doz. et Molk. — S. Hemisphere: JOVET-AST 1948, p. 45, Fig. 2.

rufescens Hook. et Grev. — SE. Asia, Australia and Micronesia: MILLER, WHITTIER & BONNER 1963, Pl. 27. SE. Asia: GANGULEE 1972, p. 572, Map CLXIX.

(SYRRHOPODON contin.)

spiculosus Hook. et Grev. — SE. Asia: GANGULEE 1972, p. 575, Map CLXX.

subconfertus Broth. — SE. Asia: GANGULEE 1972, p. 572, Map CLXIX.

texanus Sull. — USA (E. part): SHARP 1939, p. 343, Fig. 32. USA and M. America: PURSELL & REESE 1970, p. 150, Fig. 5.

TAXIPHYLLUM

alternans (Card.) Iwats. — See *Isopterygium alternans* Card.

cuspidifolium (Card.) Iwats. — See *Isopterygium cuspidifolium* Card.

densifolium (Broth.) Reim. — Hungary: VAJDA 1955, p. 227, Abb. 1 (*Plagiothecium densifolium*). M. Europe: LISOWSKI 1955a, p. 289 (*Isopterygium densifolium*).

deplanatum (C. Müll.) Fleisch. — N. America: IRELAND 1969a, p. 118, Fig. 8.

depressum (Bird.) Reim. — See *T. wissgrillii* (Garov.) Wijk et Marg.

taxirameum (Mitt.) Fleisch. — USA (N.C.): CROSBY & ANDERSON 1967, p. 305, Fig. 8. World: IWATSUKI 1974, p. 661, Fig. 2. Japan: IWATSUKI 1974, p. 661, Fig. 2.

taxirameum (Mitt.) Fleisch. — N. America: IRELAND 1969a, p. 118, Fig. 8.

wissgrillii (Garov.) Wijk et Marg. — Finland and W. USSR (S of the polar circle): TUOMIKOSKI 1939, p. 89, Karte 11 (*Isopterygium depressum*). Finland (Kuusamo): TUOMIKOSKI 1939, p. 104, Karte 13 (*Isopterygium depressum*). Sweden (Sk., Dalby Söderskog): WALDHEIM 1944b, p. 32, Fig. 3C (*Isopterygium depressum*). Yugoslavia: MARTINCIC 1966, p. 45, Abb. 25 (*T. depressum*). S. Poland (W. Carpathians): LISOWSKI & KORNAŚ 1966, p. 69, Fig. 10 (*Isopterygium depressum*). Denmark: LEWINSKY 1974a, p. 212.

TAYLORIA

arenaria (C. Müll.) Broth. — World: KOPONEN & WEBER 1972, p. 132, Fig. 52.

chiapensis Crum. — World: KOPONEN & WEBER 1972, p. 132, Fig. 52.

(TAYLORIA contin.)

froelichiana (Hedw.) Mitt. — Jugoslavia: MARTINCIC 1966, p. 22, Abb. 7 (*Dissodon froelichiana*).

hornschuchii (Grev. et Arn.) Broth. — M. Europe (the Alps): GAMS 1932b, p. 53, Fig. 1. World: GANGULEE 1974, p. 878, Map CCLXXI.

indica Mitt. — World: KOPONEN & WEBER 1972, p. 132, Fig. 52. SE. Asia: KOPONEN & KOPONEN 1974, p. 220, Fig. 22. World: GANGULEE 1974, p. 878, Map CCLXXI.

isleana (Besch.) Broth. — World: KOPONEN & WEBER 1972, p. 132, Fig. 52.

rudolphiana (Garov) B.S.G. — M. Europe (the Alps): GAMS 1932b, p. 53, Fig. 1.

orthodonta (P. Beauv.) Wijk et Marg. — World: KOPONEN & WEBER 1972, p. 132, Fig. 52.

sandwicensis (C. Müll.) Broth. — World: KOPONEN & WEBER 1972, p. 132, Fig. 52.

serrata (Hedw.) B.S.G. — Rumania: STEFUREAC 1955, p. 607. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 97, Ryc. 8.

var. tenuis (With.) B.S.G. — Germany (Thüringen): MEINUNGER 1975, p. 230, Karte 8 (*T. tenuis*).

solitaria (Card.) Kop. et W.A. Web. — See *Bryomnium solitarium* Card.

splachnoides (Schwaegr.) Hook. — Finland (Kuusamo): TUOMIKOSKI 1939, p. 112, Karte 18.

subglabra (Griff.) Mitt. — World: KOPONEN & WEBER 1972, p. 132, Fig. 52. SE. Asia: KOPONEN & KOPONEN 1974, p. 220, Fig. 23. World: GANGULEE 1974, p. 878, Map CCLXXI.

tenuis (With.) Schimp. — See *T. serrata* (Hedw.) B.S.G. var. *tenuis* (With.) B.S.G.

TETRACLADIUM

molkenboeri (Lac.) Broth. — Japan: WATANABE 1972, p. 247, Map 2C (*Bryonoguchia molkenboeri*).

TETRAPHIS

geniculata Girg. ex Mild. — Japan, Formosa, Corea and Manchuria: HORIKAWA 1951, p. 18, Map 3. USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 181, N. America: FORMAN 1962, p. 283, Fig. 2.

pellucida Hedw. — Sweden: Möller 1923, p. 64 (Georgia pellucida). Japan, Formosa, Corea and Manchuria: HORIKAWA 1951, p. 18, Map 3. USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 177. Denmark: KJ. HOLMEN et al. 1959, p. 132, Fig. 56; orig. P. Oelgaard. N. America: FORMAN 1962, p. 281, Fig. 1. NE. Belgium (Limburg): BARKMAN 1963b, p. 17, Kaart V. N. America: FORMAN 1964, p. 8, Fig. 5. USA (N.C.): CROSBY & ANDERSON 1967, p. 305, Fig. 1. England (Warwickshire): LAFLIN 1971, p. 715, Map 895. N. America: SCHOFIELD 1972, p. 1122, Fig. 15.

TETRAPLODON

angustatus (Hedw.) B.S.G. — Rumania: STEFUREAC 1955, p. 607. Poland: STASZKIEWICZ 1958, p. 226, Fig. 1. S. Poland: STASZKIEWICZ 1958, p. 227, Fig. 2. Poland (Silesia): BERDOWSKI 1974, p. 20, Mapa 3. World: GANGULEE 1974, p. 885, Map CCLXXIII.

australis Sull. et Lesq. — See *T. caulescens* (Brid.) Lindb.

balticus Warnst. — E. Prussia: GROSS 1912, p. 83, Karte 1.

caulescens (Brid.) Lindb. — USA (E. part): SHARP 1939, p. 334, Fig. 11 (*T. pennsylvanicus*). E. USA and M. America: SCHORNHERST 1946, p. 159, Fig. 5 (*T. australis*).

mnioides (Hedw.) B.S.G. — Denmark: KJ. HOLMEN et al. 1959, p. 132, Fig. 55; orig. Kamma Holmen. World: GANGULEE 1974, p. 885, Map CCLXXIII.

var. cavifolius Schimp. — World: GANGULEE 1974, p. 885, Map CCLXXIII.

pennsylvanicus Sayre — See *T. caulescens* (Brid.) Lindb.

TETRODONTIUM

brownianum (Dicks.) Schwaegr. — Sweden: MÖLLER 1923, p. 64. World: SZAFRAN 1948, p. 45, Ryc. 22. USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954, p. 184. N. America: FORMAN 1962, p. 283, Fig. 3. World: SCHOFIELD 1974, p. 18, Map 6.

var. repandum (Funck) Limpr. — Sweden: MÖLLER 1923, p. 64. Japan: HORIKAWA 1951, p. 18, Map 3.

THAMNIUM

alopecurum (Hedw.) B.S.G. — See *Thamnobryum alopecurum* (Hedw.) Nieuwl.

ssp. mediterraneum Bott. — Jugoslavia: MARTINCIC 1966, p. 61, Abb. 33.

obtusatum (Lindb. et Arn.) Kindb. — Europe and Asia: BARDUNOV 1974, p. 119.

THAMNOBRYUM

alopecurum (Hedw.) Nieuwl. — Poland (Upper Wislok): WACLAWSKA 1957, p. 98, Fig. 2 (*Thamnium alopecurum*). Denmark: KJ. HOLMEN et al. 1959, p. 140, Fig. 83; orig. J. Gernaa (*Thamnium alopecurum*). Sweden (Stockholm reg.): KRUSENSTJERNA 1964, p. 11, Fig. 1 (*Thamnium alopecurum*). Norway: STÖRMER 1969, p. 87, Fig. 40 (*Thamnium alopecurum*). Europe, N. Africa and W. Asia: STÖRMER 1969, p. 88, Fig. 41 (*Thamnium alopecurum*). England (Warwickshire): LAFLIN 1971, p. 723, Map 925 (*Thamnium alopecurum*). Sweden (Sm.): NICKLASSON 1972, p. 396, Fig. 11B (*Thamnium alopecurum*). Germany (Schlesw.-Holst.): FRAHM & WALSEMANN 1973, p. 124. M. Europe: JAEHNICHEN 1974, p. 21, Fig. 1 (*Thamnium alopecurum*). Poland (Silesia): BERDOWSKI 1974, p. 33, Mapa 7 (*Thamnium alopecurum*).

THELIA

asprella (B.S.G.) Sull. — USA (Wisc.): CULBERSON 1955, p. 27, Fig. 1F. Canada (Quebec): KUCYNIK 1955b, p. 47, Fig. 1.

hirtella (Hedw.) Sull. — Canada (Quebec): KUCYNIK 1955b, p. 47, Fig. 1.

THERIOTIA

lorifolia Card. — E. Asia: HORIKAWA 1955a, p. 181, Map 46.

THUIDIUM

abietinum (Hedw.) B.S.G. — See *Abietinella abietina* (Hedw.) Fleisch.

bipinnatulum Mitt. — Japan: WATANABE 1972, p. 247, Map 3D.

blandowii (Web. et Mohr) B.S.G. — See *Helodium blandowii* (Web et Mohr) Warnst.

cymbifolium (Doz. et Molk.) Doz. et Molk. — Asia, Australia and New Zealand: WANG 1970, p. 402, Fig. 20. Japan: WATANABE 1972, p. 248, Map 3A.

(THUIDIUM contin.)

delicatulum (Hedw.) Mitt. — See *Thuidium recognitum* var. *delicatulum* (Hedw.) Warnst.

glaucinoides Broth. — Japan: WATANABE 1972, p. 250, Map 5D.

glaucinum (Mitt.) Bosch et Lac. — Japan: WATANABE 1972, p. 247, Map 2D.

hystricosum Mitt. — See *Abietinella hystricosa* (Mitt.) Broth.

kanedae Sak. — Japan: WATANABE 1972, p. 247, Map 2A.

lanatum (Brid.) Hag. — See *Helodium blandowii* (Web. et Mohr) Warnst.

lepidoziaecum Sak. — Japan: WATANABE 1972, p. 251, Map 6B.

minutulum (Hedw.) B.S.G. — See *Microthuidium minutulum* (Hedw.) Warnst.

occultissimum (C. Müll.) Par. — See *Haplocladium microphyllum* (Hedw.) Broth.

philiberti Limpr. — See *T. recognitum* (Hedw.) Lindb. ssp. *philiberti* (Limpr.) Dix.

pulchellum De Not. — See *Haplocladium angustifolium* (Hamp. et C. Müll.) Broth.

pygmaeum B.S.G. — Japan: WATANABE 1972, p. 250, Map 5D.

recognitum (Hedw.) Lindb. — Denmark: KJ. HOLMEN et al. 1959, p. 142, Fig. 94; orig. Kjeld Holmen. The British Isles: TALLIS 1961, p. 103, Fig. 1. Latvia: ABOLIN 1968, p. 234. Newfoundland: TUOMIKOSKI, KOPONEN & AHTI 1973, p. 260, Fig. 8.

ssp. philiberti (Limpr.) Dix. — Denmark: KJ. HOLMEN et al. 1959, p. 143, Fig. 96; orig. Kjeld Holmen (*T. philiberti*). The British Isles: TALLIS 1961, p. 105, Fig. 3 (*T. philiberti*). Japan: WATANABE 1972, p. 251, Map 6C (*T. philiberti*). USSR (Moldavia): SIMONOV 1972, p. 47 (*T. philiberti*). Germany (Schlesw.-Holst.): FRAHM & WALSEMANN 1973, p. 130 (*T. philiberti*).

var. delicatulum (Hedw.) Warnst. — USA (Pa.): MOUL 1952, p. 147, Fig. 7 (*Thuidium delicatulum*). Denmark: KJ. HOLMEN et al. 1959, p. 143, Fig. 95; orig. Kjeld Holmen (*Thuidium delicatulum*).

(THUIDIUM contin.)

The British Isles: TALLIS 1961, p. 104, Fig. 2 (*Thuidium delicatulum*). Japan: WATANABE 1972, p. 249, Map 4D (*Thuidium delicatulum*). Newfoundland: TUOMIKOSKI, KOPONEN & AHTI 1973, p. 258, Fig. 5 (*Thuidium delicatulum*).

subglaucinum Card. — Japan: WATANABE 1972, p. 249, Map 4D.

submicropteris Card. — Japan: WATANABE 1972, p. 250, Map 5A.

tamariscinum (Hedw.) B.S.G. — NW. Netherlands (Alkmar reg.): BARKMAN 1941, p. 337, Fig. 12. Sweden: KRUSENSTJERNA 1945, p. 172, Karta 7. Denmark: KJ. HOLMEN et al. 1959, p. 142, Fig. 93; orig. Kjeld Holmen. Norway (S of lat. 66°N): STÖRMER 1969, p. 90, Fig. 42. Europe and W. Asia: STÖRMER 1969, p. 91, Fig. 43. England (Warwickshire): LAFLIN 1971, p. 724, Map 928. Japan: WATANABE 1972, p. 251, Map 6C.

THYRIDIDIUM

andamense Besch. — See *Calymperes andamense* Besch.

cardotii Fleisch. — SE. Asia: GANGULEE 1972, p. 583, Map CLXXIII.

constrictum (Sull.) Mitt. — SE. Asia, Australia and Oceania: MILLER, WHITTIER & BONNER 1963, Pl. 30.

cuspidatum Fleisch. — SE. Asia: GANGULEE 1972, p. 590, Map CLXXV.

fasciculatum (Hook. et Grev.) Mitt. — World: GANGULEE 1972, p. 586, Map CLXXIV.

manii Fleisch. — World: GANGULEE 1972, p. 586, Map CLXXIV.

nicobaricum Broth. ex Gang. — SE. Asia: GANGULEE 1972, p. 590, Map CLXXV.

piluliferum (Dix.) Gang. — See *Syrropodon pilulifer* Dix.

TIMMIA

alataviensis C. Müll. — World: GANGULEE 1974, p. 1132, Map CCCXXXVIII.

austriaca Hedw. — Sweden: MÖLLER 1923, p. 63. N. America and Greenland: STEERE 1937b, p. 2, Fig. 1. Canada (Quebec): KUCYNIK 1952b, p. 214, Map 1. Yugoslavia: MARTINCIC 1966, p. 13, Abb. 5. Spitzbergen: KUC 1973a, p. 467, Fig. 61. World: GANGULEE 1974, p. 1132, Map CCCXXXVIII. The British Isles: WHITEHOUSE et al. 1975b,

(TIMMIA contin.)

p. 500; orig. H.J.B. Birks.

bavarica Hessel. — Sweden: MÖLLER 1923, p. 63. E. Germany, Poland, Czechoslovakia and E. Prussia: SZAfran 1948, p. 50, Ryc. 27. Poland (Jurassic Mountain Range): SZAfran 1955, p. 220, Ryc. 95. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 70. Poland: KUC 1964, p. 54, Ryc. 7. Canada (Queen Elizabeth Island): BRASSARD 1971, p. 263, Fig. 18. USSR (Moldavia): SIMONOV 1972, p. 43. Spitzbergen: KUC 1973a, p. 466, Fig. 60. World: GANGULEE 1974, p. 1132, Map CCCXXXVIII.

comata Lindb. et Arn. — Sweden: MÖLLER 1923, p. 63. Switzerland: J. AMANN 1928, p. 437, Fig. 13. Europe (N of lat. 42°N): J. AMANN 1928, p. 312, Fig. 7. N. Sweden, N. Norway, Finland and W. USSR: KOTILAINEN 1929, Karte 7. Finland (Kuusamo): TUOMIKOSKI 1939, p. 114, Karte 23. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 71. World: GANGULEE 1974, p. 1132, Map CCCXXXVIII.

megapolitana Hedw. — E. Germany, Poland, Czechoslovakia and E. Prussia: SZAfran 1948, p. 50, Ryc. 27. E. Poland (Lublin distr.): JASNOWSKI 1956, p. 80, Fig. 1. SE. Poland: KARCZMARZ 1964, p. 406, Ryc. 5. World: GANGULEE 1974, p. 1132, Map CCCXXXVIII.

norvegica Zett. — Sweden: MÖLLER 1923, p. 63. Spitzbergen: KUC 1973a, p. 466, Fig. 60. World: GANGULEE 1974, p. 1132, Map CCCXXXVIII. The British Isles: WHITEHOUSE et al. 1975b, p. 501; orig. H.J.B. Birks.

TIMMIELLA

anomala (B.S.G.) Limpr. — Europe (S of lat. 54°N): J. AMANN 1928, p. 307, Fig. 5. Switzerland: J. AMANN 1928, p. 431, Fig. 10.

barbula Limpr. — See *T. barbuloides* (Brid.) Mönkem.

barbuloides (Brid.) Mönkem. — Switzerland: J. AMANN 1928, p. 431, Fig. 10 (*T. barbula*).

TOMENTHYPNUM

nitens (Hedw.) Loeske — See *Homalothecium nitens* (Hedw.) Robin.

TORTELLA

arctica (Arn.) Crundw. et Nyh. — See *T. tortuosa* (Hedw.) Limpr. var. *arctica* (Arn.) Broth.

(TORTELLA contin.)

caespitosa (Schwaegr.) Limpr. — See *T. humilis* (Hedw.) Jenn.

densa (Lor. et Mol.) Crundw. et Nyh. — M. Europe: BRAUNMILLER, POELT & SCHULTZE-MOTEL 1971, p. 171, Karte 1.

flavovirens (Bruch) Broth. — W. Europe: VERDOORN 1927, p. 5, Fig. 2 (*Trichostomum flavovirens*). NW. Netherlands (Alkmar reg.): BARKMAN 1941, p. 332, Fig. 2. Denmark: KJ. HOLMEN et al. 1959, p. 130, Fig. 48; orig. Tyge Christensen. Belgium: DEMARET & CASTAGNE 1964, p. 274, Fig. 106. M. Europe: BRAUNMILLER, POELT & SCHULTZE-MOTEL 1971, p. 171, Karte 1.

var. glareicola (T. Christ.) Crundw. et Nyh. — Denmark: KJ. HOLMEN et al. 1959, p. 131, Fig. 50; orig. T. Christensen (*T. glareicola*).

var. viridiflava (De Not.) Cas. — Jugoslavien: MARTINCIC 1966, p. 61, Abb. 33 (*T. viridiflava*).

fragilis (Hook. et Wils.) Limpr. — N. and M. America: SHARP 1939, p. 337, Fig. 19. Sweden (S of lat. 61°) and SE. Norway: ALBERTSON 1946, p. 205, Fig. 17. Denmark: KJ. HOLMEN et al. 1959, p. 131, Fig. 52; orig. T. Christensen. SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 53. M. Europe: BRAUNMILLER, POELT & SCHULTZE-MOTEL 1971, p. 172, Karte 2. World: GANGULEE 1972, p. 665, Map CXCVI. Spitzbergen: KUC 1973a, p. 458, Fig. 27.

glareicola T. Christ. — See *T. flavovirens* (Bruch) Broth. var. *glareicola* (T. Christ.) Crundw. et Nyh.

humilis (Hedw.) Jenn. — Switzerland: J. AMANN 1928, p. 431, Fig. 10 (*T. caespitosa*).

inclinata (Hedw. f.) Limpr. — Sweden (S of lat. 61°) and SE. Norway: ALBERTSON 1946, p. 196, Fig. 14. Poland (Upper Wislok): WACLAWSKA 1957, p. 98, Fig. 2. Denmark: KJ. HOLMEN et al. 1959, p. 130, Fig. 49; orig. Tyge Christensen. S. Poland (W. Carpathians): LISOWSKI & KORNAŚ 1966, p. 64, Fig. 5. Latvia: ABOLIN 1968, p. 128. M. Europe: BRAUNMILLER, POELT & SCHULTZE-MOTEL 1971, p. 173, Karte 3.

inflexa (Bruch) Broth. — S. Europe and N. Africa: GIACOMINI 1940, p. 631, Fig. 3.

nitida (Lindb.) Broth. — Europe: PILOUS 1961b, p. 278, Karte 1. Belgium: DEMARET & CASTAGNE 1964, p. 277, Fig. 108. The British

(TORTELLA contin.)

Isles: WHITEHOUSE et al. 1971, p. 133; orig. A.McG. Stirling.

rigens N. Alberts. — Sweden (S of lat. 61°N): ALBERTSON 1946, p. 202, Fig. 16.

tortuosa (Hedw.) Limpr. — Denmark: KJ. HOLMEN et al. 1959, p. 131, Fig. 51; orig. T. Christensen. Poland (Suwalki reg.): REJMENT-GROCHOWSKA & MICKIEWICZ 1962, p. 4, Fig. 2. Sweden (Stockholm reg.): KRUSENSTJERNA 1964, p. 14, Fig. 3. S. Poland: KUC 1964, p. 88, Ryc. 21. Latvia: ABOLIN 1968, p. 128. NW. Canada (Good Friday Bay Area): KUC 1969b, p. 650, Fig. 5. World: GANGULEE 1972, p. 665, Map CXCVI. USSR (Moldavia): SIMONOV 1972, p. 25. N. Canada: KUC 1973b, p. 58, Fig. 20. NW. Canada (Axel Heiberg Island): KUC 1973b, p. 53, Fig. 18. Germany (Schlesw.-Holst.): FRAHM & WALSEMANN 1973, p. 78.

var. arctica (Arn.) Broth. — N. Hemisphere: CRUNDWELL & NYHOLM 1963, p. 188, Fig. 6 (T. arctica). NW. Canada (Axel Heiberg Island): KUC 1973b, p. 53, Fig. 18 (T. arctica). N. Canada: KUC 1973b, p. 56, Fig. 19 (T. arctica).

viridiflava (De Not.) Broth. — See T. flavovirens (Bruch) Broth.

var. viridiflava (De Not.) Cas.

TORTULA

alpina (B.S.G.) Bruch f. propagulifera Limpr. — N. America. SHARP 1939, p. 344, Fig. 35 (T. pagorum). N. America: L.E. ANDERSON 1943, p. 61 (T. pagorum).

atro-virens (Sm.) Lindb. — See Desmatodon convolutus (Brid.) Grout

calcicola Grebe — See T. ruralis (Hedw.) Gaertn. ssp. calcicola (Amann) Giac.

caroliniana Andrews — USA (E. part) and M. America: SHARP 1939, p. 337, Fig. 18. World: SCHOFIELD & CRUM 1972, p. 183, Map 9.

desertorum Broth. — Spain: CASAS DE PUIG 1975a, p. 5, Fig. 1.

emarginata (Doz. et Molk.) Mitt. — See T. muralis Hedw. f. obcordata (Schimp.) Mönkem.

fiorii (Vent.) Roth — See T. revolvens (Schimp.) Roth var. obtusata Reim.

(TORTULA contin.)

hornschuchiana (Schultz) De Not. — See *Barbula hornschuchiana* Schultz

inermis (Brid.) Mont. — Switzerland: J. AMANN 1928, p.431, Fig. 10 (*Syntrichia inermis*). USA (Calif.): KOCH 1954, p. 531, Fig. 4.

intermedia (Brid.) De Not. — Norway (S of lat. 66°N): STÖRMER 1969, p. 164, Fig. 104. Europe, N. Africa and W. Asia: STÖRMER 1969, p. 165, Fig. 105. England (Warwickshire): LAFLIN 1971, p.707, Map 860. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 61, Ryc. 2 (*Syntrichia montana*).

laevipila (Brid.) Schwaegr. — Germany (Schlesw.-Holst.): N. JENSEN 1955, p. 91, Karte 9 (*Syntrichia laevipila*). Denmark: KJ. HOLMEN et al. 1959, p. 128, Fig. 39; orig. S. Rungby. Netherlands: BARKMAN 1963a, p. 190. NE. Germany: KÜHNER & PANKOW 1967, p. 173, Abb. 8 (*Syntrichia laevipila*). NW. Europe: STÖRMER 1968, p. 5, Fig. 3. England (Warwickshire): LAFLIN 1971, p. 707, Map 861.

var. meridionalis (Schimp.) Wijk et Marg. — Netherlands: BARKMAN 1963a, p. 190.

var. saccardoana (De Not.) Barkm. — Netherlands: BARKMAN 1963a, p. 190.

var. wachterii Barkm. — Netherlands: BARKMAN 1963a, p. 190.

latifolia Hartm. — Switzerland: J. AMANN 1928, p. 435, Fig. 12 (*Syntrichia latifolia*). Denmark: KJ. HOLMEN et al. 1959, p. 128, Fig. 41; orig. S. Rungby (*T. mutica*). N. Germany: PANKOW & KÜHNER 1967, Tab. 14 (*Syntrichia latifolia*). Germany (Upper Rhein reg.): PHILIPPI 1968, p. 73, Abb. 4. NW. Germany (Heuckenlock): FRAHM 1971, p. 8, Abb. 1 (*Syntrichia latifolia*). England (Warwickshire): LAFLIN 1971, p. 707, Map 863.

lingulata Lindb. ssp. montenegrina (Breidl. et Szysz.) Podp. — Jugoslavia: MARTINCIC 1966, p. 70, Abb. 43.

marginata (B.S.G.) Spruce — England (Warwickshire): LAFLIN 1971, p. 708, Map 866.

mucronifolia Schwaegr. — Poland (Jurassic Mountain Range): SZAFRAN 1955, p. 220, Ryc. 95. Spitzbergen: KUC 1973a, p. 460, Fig. 35. Greenland: HOLMEN, LEWINSKY & MOGENSEN 1974, p. 250.

(TORTULA contin.)

muralis Hedw. — Sweden: KRUSENSTJERNA 1945, p. 168, Karta 5.

Denmark: KJ. HOLMEN et al. 1959, p. 129, Fig. 43; orig. S. Rungby.

NE. Belgium (Limburg): BARKMAN 1963b, p. 23, Kaart VIII. Norway

(S of lat. 66°N): STÖRMER 1969, p. 92, Fig. 44. Europe, N. Africa

and W. Asia: STÖRMER 1969, p. 93, Fig. 45. England (Warwickshire):

LAFLIN 1971, p. 708, Map 865. Japan: SAITO 1973, p. 90, Fig. 13.

f. obcordata (Schimp.) Mönkem. — Japan and Formosa: HORIKAWA 1954, p. 15, Map 1 (T. emarginata).

mutica (Schultz) Lindb. — See T. latifolia (Bruch) Hartm.

norvegica (Web.) Lindb. — See T. ruralis (Hedw.) Gaertn., Meyer et Scherb. var. alpina Wahlenb.

obtusifolia (Schwaegr.) Mathieu — See Desmatodon obtusifolius (Schwaegr.) Schimp.

pagorum (Milde) De Not. — See T. alpina (B.S.G.) Bruch f. propagulifera Limpr.

papillosa Wils. — Denmark: KJ. HOLMEN et al. 1959, p. 128, Fig. 40;

orig. S. Rungby. NE. Germany: KÜHNER & PANKOW 1967, p. 173, Abb. 6

(Syntrichia papillosa). Norway (S of lat. 66°N): STÖRMER 1969,

p. 167, Fig. 108. Europe and W. Asia: STÖRMER 1969, p. 167, Fig. 109.

England (Warwickshire): LAFLIN 1971, p. 707, Map 862.

princeps De Not. — World: GIACOMINI 1951, p. 100, Carta 6. World: GANGULEE 1972, p. 778, Map CCXXXVI (Syntrichia princeps).

pulvinata (Jur.) Limpr. — See T. virescens (De Not.) De Not. —

revolvens (Schimp.) Roth — Germany (SW. Harz): REIMERS 1940, p. 106, Karte 2.

var. obtusata Reim. — Germany (Harz): MEUSEL 1939, p. 161, Abb. 32

(T. fiorii). S. Europe and N. Africa: GIACOMINI 1940, p. 629, Fig. 2

(T. fiorii).

rhizophylla (Sak.) Iwats. et Saito — See Funaria rhizophylla (Sak.) Sak.

ruralis (Hedw.) Gaertn., Meyer et Scherb. — Denmark: KJ. HOLMEN et

al. 1959, p. 127, Fig. 37; orig. S. Rungby. England (Warwickshire):

LAFLIN 1971, p. 706, Map 859. Sweden (Sm., Bjurkärr): NICKLASSON

1974, Fig. 11.

(TORTULA contin.)

ssp. calcicola (Amann) Giac. — NW. Canada (Axel Heiberg Island): KUC 1973b, p. 70, Fig. 26 (T. calcicola).

var. alpina Wahlenb. — Finland (Kuusamo): TUOMIKOSKI 1939, p. 112, Karte 18 (T. norvegica). Spitzbergen: KUC 1973a, p. 460, Fig. 34 (T. norvegica). Japan: SAITO 1973, p. 90, Fig. 13 (T. norvegica).

var. arenicola Braithw. — See T. ruralis (Hedw.) Gaertn., Meyer et Scherb. var. ruraliformis (Besch.) Willd.

var. hirsuta (Vent) Par. — Iberia: CASAS DE PUIG & BRUGUÉS 1974, p. 264, Carte 1.

var. ruraliformis (Besch.) Willd. — NW. Netherlands (Alkmar reg.): BARKMAN 1941, p. 333, Fig. 4 (T. ruralis var. arenicola). Denmark: KJ. HOLMEN et al. 1959, p. 127, Fig. 37a; orig. S. Rungby.

sinensis (C. Müll.) Broth. — Japan: SAITO 1973, p. 90, Fig. 13.

stanfordensis Steere — The British Isles: WHITEHOUSE et al. 1972, p. 94; orig. H.L.K. Whitehouse. World: SCHOFIELD & CRUM 1972, p. 191, Map 31.

subulata Hedw. — Sweden (Sk., Nävlingeås distr.): WEIMARCK 1944, p. 52, Fig. 22. Sweden: KRUSENSTJERNA 1945, p. 170, Karta 6. Sweden (Sk.): WALDHEIM 1947, p. 162, Fig. 25. Denmark: KJ. HOLMEN et al. 1959, p. 128, Fig. 42; orig. S. Rungby. Latvia: ABOLIN 1968, p. 136. England (Warwickshire): LAFLIN 1971, p. 708, Map 854.

var. angustata (Schimp.) Limpr. — Denmark: KJ. HOLMEN et al. 1959, p. 129, Fig. 42a; orig. S. Rungby.

vahliana (Schultz) Mont. — The British Isles: WHITEHOUSE et al. 1974, p. 125; orig. H.J.B. Birks.

velenovskii Schiffn. — M. Europe: WACLAWSKA 1958, p. 183, Fig. 2. Poland (Kraków distr.): WACLAWSKA 1958, p. 184, Fig. 3. S. Poland (Miechów reg.): WACLAWSKA 1959, p. 324, Fig. 1. Europe (S of lat. 57°N): KUC 1960, p. 93. SE. Poland: KARCZMARZ 1961b, p. 190, Fig. 1. Poland (E. Lublin upland): KARCZMARZ & KUC 1962, p. 486, Fig. 1. S. Poland: KUC 1964, p. 108, Ryc. 24. Poland (Lower Nida): WACLAWSKA 1964, p. 368, Fig. 1. Europe: MARTINCIC 1966, p. 63, Abb. 42.

virescens (De Not.) De Not. — Denmark: KJ. HOLMEN et al. 1959, p. 127, Fig. 38; orig. S. Rungby (T. pulvinata). Jugoslavia:

(TORTULA contin.)

MARTINCIC 1966, p. 44, Abb. 23 (*Syntrichia pulvinata*). Poland (Warsaw distr.): MICKIEWICZ 1968, p. 626, Ryc. 6 (*T. pulvinata*).

TRACHYCYSTIS

flagellaris (Sull. et Lesq.) Lindb. — E. Asia: HORIKAWA 1955a, p. 67, Map 23 (*Mnium flagellare*). Japan: IWATSUKI 1972b, p. 127, Fig. 15 (*Mnium flagellare*). World: IWATSUKI 1972b, p. 127, Fig. 15 (*Mnium flagellare*). E. Asia: HORIKAWA 1972, Map 473 (*Mnium flagellare*).

microphylla (Doz. et Mol.) Lindb. — E. Asia: HORIKAWA 1972, Map 474 (*Mnium microphyllum*).

TRACHYPHYLLUM

fabronioides (Besch.) Gepp. — Madagascar: JOVET-AST 1948, p. 51, Fig. 4.

TRACHYPODOPSIS

auriculata (Mitt.) Fleisch. — E. Asia, Australia and Oceania: ZANTEN 1959, p. 518, Pl. V, Map 2.

formosana Nog. — World: ZANTEN 1959, p. 518, Pl. V, Map 3.

laxoalaris Broth. — World: ZANTEN 1959, p. 518, Pl. V, Map 3.

normandii (Broth. et Par.) Fleisch. — World: ZANTEN 1959, p. 518, Pl. V, Map 3.

serrulata (P. Beauv.) Fleisch. var. crispatula (Hook.) Zant. — World: ZANTEN 1959, p. 518, Pl. V, Map 1. World: CROIZAT 1967, p. 780, Fig. 2.

var. guilbertii (Thér. et P. Vard.) Zant. — World: ZANTEN 1959, p. 518, Pl. V, Map 1. World: CROIZAT 1967, p. 780, Fig. 2.

var. serrulata — World: ZANTEN 1959, p. 518, Pl. V, Map 1. World: CROIZAT 1967, p. 780, Fig. 2.

TRACHYPUS

appendiculatus (Ren. et Card.) Broth. — World: ZANTEN 1959, p. 484, Pl. I, Map 2.

bicolor Reinw. et Hornsch. — Japan: NOGUCHI 1951, p. 16, Map 58. Japan: NOGUCHI 1951, p. 16, Map 58 (*T. cuspidatus*). E. Asia, Australia and Oceania: ZANTEN 1959, p. 503, Pl. III, Map 1 (var. *bicolor*).

(TRACHYPUS contin.)

Asia, Australia and New Zealand: WANG 1970, p. 405, Fig. 26.

var. hispidus (C. Müll.) Card. — World: ZANTEN 1959, p. 484, Pl. I, Map 2.

var. scindifolius (Sak.) Wijk et Marg. — World: ZANTEN 1959, p. 484, Pl. I, Map 2.

var. viridulus (Mitt.) Zant. — World: ZANTEN 1959, p. 484, Pl. I, Map 3.

cuspidatus Fleisch. — See *T. bicolor* Reinw. et Hornsch.

humilis Lindb. — Japan: NOGUCHI 1951, p. 16, Map 58. E. Asia, Australia and Oceania: ZANTEN 1959, p. 503, Pl. III, Map 2 (var. *humilis*).

var. tenerrimus (Herz.) Zant. — E. Asia, Australia and Oceania: ZANTEN 1959, p. 503, Pl. III, Map 3.

longifolius Nog. — E. Asia, Australia and Oceania: ZANTEN 1959, p. 503, Pl. III, Map 3.

perplicatus Dix. — E. Asia, Australia and Oceania: ZANTEN 1959, p. 503, Pl. III, Map 1.

TREMATODON

ambiguus (Hedw.) Hornsch. — Canada (Quebec): KUCYNIK 1953, p. 87. SW. Poland: KUC 1956, p. 637, Fig. 4. World: GANGULEE 1971, p. 227, Map LX.

assamensis Broth. — SE. Asia: GANGULEE 1971, p. 221, Map LVIII.

brevicollis Hornsch. — Switzerland: J. AMANN 1928, p. 437, Fig. 13. M. Europe (C. Alps): GAMS 1950a, p. 452, Fig. 1. Scandinavia: GAMS 1950a, p. 453, Fig. 2. Greenland and W. Hemisphere: STEERE 1952, p. 236, Map 1. N. Hemisphere: GAMS 1955, p. 83, Fig. 3. World: SLJAKOV 1961, p. 216. Europe and Asia: BARDUNOV 1965, p. 47. NW. Canada (Axel Heiberg Island): KUC 1973b, p. 48, Fig. 16. World: BARDUNOV 1974, p. 121.

conformis Mitt. — World: GANGULEE 1971, p. 227, Map LX.

hookeri C. Müll. — SE. Asia: GANGULEE 1971, p. 224, Map LIX.

kurzii Hamp. ex Gang. — SE. Asia: GANGULEE 1971, p. 224, Map LIX.

(TREMATODON contin.)

longicollis Michx. — World: IWATSUKI 1958, p. 341, Fig. 3. World: GRADSTEIN 1971, p. 677, Fig. 2. World: GANGULEE 1971, p. 230, Map LXI.

megapophysatus C. Müll. — World: GANGULEE 1971, p. 230, Map LXI.

TRICHOSTOMUM

aurianum Warnst. ex Amann — M. Europe (the Alps): GAMS 1925, p. 23, Fig. 9. M. Europe (the Alps): GAMS 1927, p. 181, Abb. 2.

brachydontium Bruch — Sweden (S of lat. 61°N) and Denmark: WALDHEIM 1935b, p. 445, Fig. 1. World: GANGULEE 1972, p. 675, Map CCI.

ssp. cuspidatum (Braithw.) Giac. — Europe with maps of Tenerife and Madeira: GIACOMINI 1951, p. 96, Carta 3.

ssp. mutabile (Bruch) Giac. — Czechoslovakia (Tatra): PILOUS 1961a, p. 17 (T. mutabile). SW. Germany: DÜLL 1969, p. 296, Taf. 5 (T. mutabile).

var. litorale (Mitt.) C. Jens. — Norway (S of lat. 66°N): STÖRMER 1969, p. 204, Fig. 144. Europe and N. Africa: STÖRMER 1969, p. 205, Fig. 145.

brevifolium Sendtn. ex C. Müll. — See T. crispulum Bruch var. brevifolium (C. Müll.) G.S.G.

subulosus Griff. — SE. Asia: GANGULEE 1971, p. 221, Map LVIII.

TRICHODON

cylindricus (Hedw.) Schimp. — Sweden (Sk.): WALDHEIM 1947, p. 182, Fig. 38 (Ditrichum tenuifolium). England (Warwickshire): LAFLIN 1971, p. 703, Map 845 (Ditrichum cylindricum). Poland (Silesia): BERDOWSKI 1974, p. 20, Mapa 3 (Ditrichum tenuifolium). Hungary, Rumania and adjacent countries: ORBAN 1974, p. 51, Karte 3 (Ditrichum tenuifolium).

TRICHOSTELEUM

elegantissimum Fleisch. — Japan: SEKI 1968, p. 54, Fig. 22.

ferriei Card. et Thér. — Japan: SEKI 1968, p. 54, Fig. 22.

thelidictyon (Sull. et Lesq.) Jaeg. — Japan: SEKI 1968, p. 64, Fig. 26 (Rhapidostichum boschii ssp. thelidictyon).

TRICHOSTOMOPSIS

crispifolia Card. — Spain (Barcelona): CASAS DE PUIG 1970b, p. 21, Fig. 3 (T. umbrosa).

umbrosa (C. Müll.) H. Robinson — See T. crispifolia Card.

crispulum Bruch — Poland (Silesia): KUC 1956, p. 637, Fig. 4. Poland (Upper Woslok): WACLAWSKA 1957, p. 98, Fig. 2. Poland (NW. Sudet): WILCZYŃSKA 1974, p. 61, Ryc. 2.

var. brevifolium (C. Müll.) B.S.G. — Europe: MARTINCIC 1966, p. 63, Abb. 42 (T. brevifolium).

cuspidatissimum Card. et Thér. — World: SAVICZ-LJUBITZKAJA 1955, p. 205, Abb. 3. World: SAVICZ-LJUBITZKAJA 1956, p. 207. Greenland: KJ. HOLMEN 1957, p. 13, Fig. 2. World: KUC 1963a, p. 319, Fig. 14. World: ABRAMOVA & ABRAMOV 1966, p. 311. Canada (Queen Elizabeth Island): BRASSARD 1971, p. 263, Fig. 19. N. America and Greenland: SCHOFIELD 1972, p. 1119, Fig. 1. Spitzbergen: KUC 1973a, p. 458, Fig. 28.

cylindricum (Brid.) C. Müll. — See *Oxystegus cylindricus* (Brid.) Hilp.

cylindrotheca (Mitt.) Broth. — SE. Asia: GANGULEE 1972, p. 659, Map CXCV (Oxystegus cylindrothecus).

ehrenbergii Lor. — See *Hydrogonium ehrenbergii* (Lor.) Jaeg.

flavovirens Bruch — See *Tortella flavovirens* (Bruch) Broth.

hibernicum (Mitt.) Dix. — See *Oxystegus cylindricus* (Brid.) Hilp. ssp. hibernicus (Mitt.) Podp.

hasianum (Mitt.) Broth. — SE. Asia: GANGULEE 1972, p. 659, Map CXCV (Oxystegus hasianus).

mutabile Bruch — See T. brachydontium Bruch ssp. mutabile (Bruch) Giac.

pallidisetum H. Müll. — See T. triumphans De Not. var. pallidisetum (H. Müll.) Husn.

sinuosum (Mitt.) C. Müll. — See *Barbula sinuosa* (Mitt.) Grav.

triumphans De Not. var. pallidisetum (H. Müll.) Husn. — Switzerland: J. AMANN 1928, p. 431, Fig. 10 (T. pallidisetum).

TRICHOTOMNOMA

corrugatum (Steph.) Schust. — World: SCHUSTER 1969, p. 54, Map 4.

TRIQUETRELLA

arapilensis Luis. — World: P. ALLORGE 1947, p. 90, Fig. 9.

TROCHOBRYUM

carniolicum Breidl. et Beck. — Europe: J. AMANN 1928, p. 309, Fig. 6. Switzerland: J. AMANN 1928, p. 435, Fig. 12. Europe: B. PETTERSSON 1950, p. 64, Fig. 3. M. Europe: GAMS 1951, n. 48, Fig. 1. Europe (between lat. 42° - 60° N): GAMS 1951a, p. 48, Fig. 1. Europe: B. PETTERSSON 1955, p. 172, Fig. 1. Europe and Asia: ABRAMOV 1969, p. 38.

ULOTA

americana (P. Beauv.) Limpr. — See *U. hutchinsiae* (Sm.) Ham.

bruchii Hornsch. — Hungary: IGMÁNDY 1942b, p. 81, Fig. 6. Latvia: ABOLIN 1968, p. 206.

calvescens Wils. — W. Europe and Macaronesia: P. ALLORGE 1947, p. 100, Fig. 12. The British Isles: WHITEHOUSE et al. 1964, p. 746; orig. M.C.F. Proctor (*U. vittata*).

coarctata (P. Beauv.) Hammar — Hungary: IGMÁNDY 1942b, p. 80, Fig. 1 (*U. ludwigii*). The British Isles: WHITEHOUSE et al. 1964, p. 747; orig. U.K. Duncan (*U. ludwigii*). Latvia: ABOLIN 1968, p. 206. Europe: STÖRMER 1969, p. 139, Fig. 81. Norway (S of lat. 67° N): STÖRMER 1969, p. 138, Fig. 80. W. France: TOUFFET 1969b, p. 54, Fig. 9 (*U. ludwigii*).

crispa (Hedw.) Brid. — Hungary: IGMÁNDY 1942b, p. 75, Fig. 3 (*U. ulophylla*). England (Warwickshire): LAFLIN 1971, p. 722, Map 920.

crispula Bruch — Hungary: IGMÁNDY 1942b, p. 79, Fig. 5.

curvifolia (Wahlenb.) Lilj. — Switzerland: J. AMANN 1928, p. 437, Fig. 13. Hungary: IGMÁNDY 1942b, p. 78, Fig. 4. N. America and Greenland: VITT 1973b, p. 509, Fig. 1.

drummondii (Hook. et Grev.) Brid. — Hungary: IGMÁNDY 1942b, p. 78, Fig. 4.

hutchinsiae (Sm.) Ham. — Hungary: IGMÁNDY 1942b, p. 72, Fig. 2 (*U. americana*). W. France: TOUFFET 1969b, p. 54, Fig. 9

(ULOTA contin.)

(*U. americana*). Poland (NW. Sudet): WILCZYŃSKA 1974, p. 61, Ryc. 2
(*U. americana*).

intermedia Schimp. — Hungary: IGMÁNDY 1942b, p. 78, Fig. 4
(*U. ulophylla* var. *intermedia*).

japonica (Sull. et Lesq.) Mitt. — Asia and N. America: IWATSUKI & SHARP 1968b, p. 56, Fig. 1.

ludwigii (Brid.) Brid. — See *U. coarctata* (P. Beauv.) Hammar

phyllantha Brid. — NW. Germany (Schlesw.-Holst.): JENSEN 1951, p. 207, Abb. 2. NE. Germany: KÜHNER & PANKOW 1967, p. 173, Abb. 6. N. America and Iceland: SCHOFIELD 1972, p. 1126, Fig. 30. World: SCHOFIELD 1974, p. 26, Map 19.

rehmannii Jur. — Hungary: IGMÁNDY 1942b, p. 78, Fig. 4.

reptans Mitt. — Asia and North America: IWATSUKI & SHARP 1968b, p. 56, Fig. 1.

ulophylla Broth. — See *U. crispa* (Hedw.) Brid.

var. *intermedia* (Schimp.) Jans. et Wacht. — See *U. intermedia* Schimp.

vittata Mitt. — See *U. calvescens* Wils.

WEBERA

annotina (Hedw.) Bruch — See *Pohlia camptotrachela* (Ren. et Card.) Broth.

bulbifera Warnst. — See *Pohlia bulbifera* (Warnst.) Warnst.

grandiflora (H. Lindb.) C. Jens. — See *Pohlia camptotrachela* (Ren. et Card.) Broth.

proligera Kindb. — See *Pohlia proligera* (Kindb.) Arn.

pulchella (Hedw.) Fühnr. — See *Mniobryum pulchellum* (Hedw.) Loeske

sessilis Lindb. — See *Diphyscium foliosum* (Hedw.) Mohr

WEISIA

controversa Hedw. — England (Warwickshire): LAFLIN 1971, p. 713, Map 887. Germany (Schlesw.-Holst.): FRAHM & WALSEMANN 1973, p. 75.

(WEISIA contin.)

var. australis (Aust.) Schornh. — E. Asia and N. America: WANG 1970, p. 407, Fig. 30 (W. longiseta).

crispa (Hedw.) Mitt. — See *Astomum crispum* (Hedw.) Hampe

dalmatica Latz. — See W. *wimmeriana* (Sendtn.) B.S.G. var. *dalmatica* (Latz.) Podp.

longiseta Lesq. et Jam. — See W. *controversa* Hedw. var. *australis* (Aust.) Schornh.

microstoma (Hedw.) C. Müll. — See *Hymenostomum microstomum* (Hedw.) R. Br.

var. brachycarpa (Nees et Hornsch.) C. Müll. — See *Hymenostomum microstomum* (Hedw.) R. Br. var. *brachycarpum* (Nees et Hornsch.) Hüb.

rostellata (Brid.) Lindb. — See *Hymenostomum rostellatum* (Brid.) Schimp.

rutilans (Hedw.) Lindb. — Belgium: DEMARET & CASTAGNE 1964, p.247, Fig. 94.

sharpii Anderson et Lemmon — USA: L.E. ANDERSON & LEMMON 1973, p. 136, Fig. 11.

tortilis (Schwaegr.) C. Müll. — See *Hymenostomum tortile* (Schwaegr.) B.S.G.

wimmeriana (Sendtn.) B.S.G. var. dalmatica (Latz.) Podp. — Jugoslavia: MARTINCIC 1966, p. 70, Abb. 43 (W. *dalmatica*).

WEISIOPSIS

angulosa (Broth. et Dix.) Hilp. — World: GANGULEE 1972, p. 768, Map CCXXXII.

VENTURIELLA

sinensis (Vent.) C. Müll. — Japan: IWATSUKI 1972, p. 120, Fig. 10. World: IWATSUKI 1972b, p. 120, Fig. 10.

VESICULARIA

montagnei (Bel.) Broth. — Asia, Australia and New Zealand: WANG 1970, p. 412, Fig. 40.

WILLIA

austro-leucophaea (Besch.) Broth. — S. Georgia: BELL 1974, p. 76, Fig. 2.

WILSONIELLA

decipiens (Mitt.) Alston — SE. Asia: GANGULEE 1971, p. 236, Map LXIII.

VOITIA

hookeri Mitt. — See *V. nivalis* Hornsch. var. *stenocarpa* Par.

hyperborea Grev. et Arnott — See *V. nivalis* Hornsch.

nivalis Hornsch. — Switzerland: J. AMANN 1928, p. 437, Fig. 13.
M. Europe (the Alps): GAMS 1932b, p. 53, Fig. 1. N. Hemisphere:
GAMS 1950b, p. 193, Fig. 1. M. Europe (the Alps): GAMS 1950b,
p. 194, Fig. 2. M. Europe (the E. Alps): GAMS 1950b, p. 195,
Fig. 3. N. Hemisphere: GAMS 1950b, p. 193, Fig. 1 (*V. hyperborea*).
N. Hemisphere: STEERE 1953a, p. 45, Fig. 9 (*V. hyperborea*).
N. Hemisphere: GAMS 1955, p. 84, Fig. 5 (*V. hyperborea*). N. America:
BRASSARD 1971, p. 268, Fig. 22. Greenland and N. America: BRASSARD
1971, p. 268, Fig. 22 (*V. hyperborea*). Spitzbergen: KUC 1973a,
p. 461, Fig. 39 (*V. nivalis* var. *hyperborea*). N. Canada: KUC 1973b,
p. 75, Fig. 28 (*V. hyperborea*). World: GANGULEE 1974, p. 872,
Map CCLXIX.

var. hyperborea (Grev. et Arnott) Schimp. — See *V. nivalis* Hornsch.

var. stenocarpa Par. — N. Hemisphere: GAMS 1950b, p. 193, Fig. 1.
(*V. stenocarpa*). World: GANGULEE 1974, p. 872, Map CCLXIX
(*V. hookeri*).

stenocarpa Wils. ex Jaeg. — See *V. nivalis* Hornsch. var. *stenocarpa*
Par.

ZIERIA

julacea Schimp. — See *Plagiobryum zierii* (Hedw.) Lindb.

ZYGODON

conoideus (Dicks.) Hook. et Tayl. — Europe (W of long. 30°E):
MALTA 1924, p. 142, Fig. 11. Norden: KOTILAINEN 1933a, p. 3,
Kartake 1. Scandinavia, Finland and W. USSR: KOTILAINEN 1933b,
p. 7, Kartogramm 1. NW. Germany (Schlesw.-Holst.): JENSEN 1951,
p. 207, Abb. 1. Denmark: KJ. HOLMEN et al. 1959, p. 135, Fig. 68;

(*ZYGODON* contin.)

orig. G. Skovgaard Christensen. USSR (Baikal area): BARDUNOV 1965, p. 103. Europe: STÖRMER 1969, p. 234, Fig. 173. Norway (S of lat. 66° N): STÖRMER 1969, p. 233, Fig. 172. Europe and Asia: BARDUNOV 1974, p. 103.

dentatus Breidl. — See *Z. viridissimus* (Dicks.) Brid. var. *dentatus* (Breidl.) Limpr.

forsteri (With.) Mitt. — Europe (W of long. 30° E): MALTA 1924, p. 142, Fig. 11.

gracilis Wils. — Europe (W of long. 30° E): MALTA 1924, p. 142, Fig. 11. Europe: J. AMANN 1928, p. 305, Fig. 4. W. Europe: PROCTOR 1960, p. 8, Fig. 4.

stirtonii Schimp. — See *Z. viridissimus* (Dicks.) Brid. var. *stirtonii* (Schimp.) Hag.

viridissimus (Dicks.) Brid. — Europe: MALTA 1926, Fig. 18. Denmark: KJ. HOLMEN et al. 1959, p. 136, Fig. 69; orig. G. Skovgaard Christensen. N. Germany: PANKOW & KÜHNER 1967, Tab. 24. Latvia: ABOLIN 1968, p. 206. Japan (Honshu): SAITO 1970, p. 92. England (Warwickshire): LAFLIN 1971, p. 720, Map 915.

ssp. dentatus (Breidl.) Amann — Europe: MALTA 1924, Fig. 6. Europe: MALTA 1926, Fig. 18.

var. dentatus (Breidl.) Limpr. — Europe: LISOWSKI 1955a, p. 291 (*Z. dentatus*). S. Poland (W. Carpathians): LISOWSKI & KORNAŚ 1966, p. 70, Fig. 11 (*Z. dentatus*).

var. occidentalis Malta — See *Z. viridissimus* (Dicks.) Brid. var. *viridissimus*

var. rupestris Hartm. — Europe: MALTA 1924, Fig. 6 (*Z. viridissimus* var. *vulgaris*). Europe: MALTA 1926, Fig. 18 (*Z. viridissimus* var. *vulgaris*). Japan (Honshu): SAITO 1970, p. 92. Sweden (Sm., Bjurkärr): NICKLASSON 1974, Fig. 10 (*Z. vulgaris*).

var. stirtonii (Schimp.) Hag. — Europe: MALTA 1924, Fig. 6 (*Z. viridissimus* f. *stirtonii*). Europe: MALTA 1926, Fig. 18 (*Z. viridissimus* f. *stirtonii*). Denmark: KJ. HOLMEN et al. 1959, p. 136, Fig. 69b; orig. G. Skovgaard Christensen. W. France: TOUFFET 1969b, p. 63, Fig. 27 (*Z. stirtonii*).

(ZYGODON contin.)

var. viridissimus — Europe: MALTA 1924, Fig. 6 (Z. viridissimus var. occidentalis). Europe: MALTA 1926, Fig. 18 (Z. viridissimus var. occidentalis). Denmark: KJ. HOLMEN et al. 1959, p. 136, Fig. 69a; orig. G. Skovgaard Christensen (Z. viridissimus var. occidentalis).

var. vulgaris Malta — See Z. viridissimus (Dicks.) Brid. var. rupestris Hartm.

f. mediterranea Malta — Europe: MALTA 1924, Fig. 6. Europe: MALTA 1926, Fig. 18.

f. stirtonii (Schimp.) Malta — See Z. viridissimus (Dicks.) Brid. var. stirtonii (Schimp.) Hag.

vulgaris (Malta) Nyh. — See Z. viridissimus (Dicks.) Brid. var. rupestris Hartm.

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Errata (Oct. 1980) Sjödin, Å. 1980. Index to distribution maps of bryophytes 1887-1975. I. Musci. - Växtekologiska studier 11.

- p. 6; under Andreaea blyttii, between USSR: ABRAMOVA, LADYZHENSKAJA & SAVICZ-LJUBITZKAJA 1954... and Spitzbergen: KUC 1973a... — insert N. America and Greenland: SCHOFIELD 1972, p. 1124, Fig. 22.
- p. 6; for Andreaea depressinervis — read Andreaea depressinervis
- p. 22; under Brachydontium trichodes, between W. Asia: STÖRMER 1969... and W. France: TOUFFET 1969b... — insert SW. Germany: DÜLL 1969, p. 296, Taf. 5a.
- p. 32; under Bryum geheebii, for ssp. gemmiparum (De Not.) Kindb., — read ssp. geheebii (C. Müll.) Podp.
- p. 32; under Bryum gemmiparum, for ssp. gerwigii (C. Müll.) Podp., — read ssp. gemmiparum (De Not.) Kindb.
- p. 36; under Buxbaumia aphylla, after GITTINEN 1967... — insert Latvia: ABOLIN 1968, p. 80.
- p. 37; under Calliergon cordifolium ssp. orbicularicordatum, after KARCZMARZ & KUC — add N. Hemisphere: KARCZMARZ 1971, p. 67, Fig. 3 (C. orbiculari-cordatum).
- p. 41; between Camptothecium lutescens var. fallax and Camptothecium philippeii — insert Camptothecium nitens (Hedw.) Schimp. - See Homalothecium nitens (Hedw.) Robins.
- p. 46; under Campylostelium saxicola, after SZAFRAN 1948... — add SW. Germany: DÜLL 1969, p. 296, Taf. 5a.
- p. 55; after Cynodontium strumiferum — add tenellum (B.S.G.) Limpr. — SW. Spitzbergen (Hornsund): KUC 1963a, Fig. 47. Spitzbergen: KUC 1973a, p. 456, Fig. 19. NW Canada (Axel Heiberg Island): KUC 1973b, p. 48, Fig. 16.
- p. 59; under Dicranodontium denudatum, after Newfoundland: TUOMIKOSKI, KOPONEN & AHTI 1973... — add Poland (Silesia): BERDOWSKI 1974, p. 33, Mapa 7.
- p. 61; under Dicranum acutifolium, for 1975a — read 1957a.

- p. 65; under Distichium capillaceum, for ORBÁN 974, — read ORBAN 1974,
- p. 72; under Encalypta brevicollis, after CRUM 1963... — delete NW. Canada: KUC 1973b, p. 56, Fig. 19.
- p. 77; under Fissidens adianthoides, for KJ. HOLMEN et al. 1959, p. 23, — read ...p. 124,
- p. 82; under Fissidens osmundoides, after KUC 1974 — add KUC 1974 — add Poland (Silesia): BERDOWSKI 1974, p. 29, Mapa 6.
- p. 93; under Grimmia torquata, after Spitzbergen: — add KUC 1973a, p. 460, Fig. 36.
- p. 95; under Habrodon perpusillus, for STÖRMER 1969, p. 202, Fig. 143. — read ...Fig. 142.
- p. 98; under Heterocladium heteropteroides, for & VILKOVA — read & VOLKOVA
- p. 102; transpose Hygroamblystegium tenax to p. 103 between Hygroamblystegium irriguum and H. varium
- p. 115; for Isopterygium müllerianum — read Isopterygium muellerianum
- p. 118; under Leptodontium flexifolium, after FRAHM 1975a, p. 424, Abb. 5 and — add p. 427.
- p. 121; under Leucobryum juniperoideum, after RASMUSSEN... — add Iberia: BRUGUES, CASAS DE PUIG & CROS 1975, p. 112, Fig. 2.
- p. 123; under Lyellia lescurii, for HORIKAWA 1955, p. 58, Map 5a — read ...Map 20a
- p. 123; under Lyellia lescurii, for OSADA 1966, p. 45, Map 20a — read ...Map 5a
- p. 124; under Meesia longiseta, between E. Germany (Mecklenburg): PANKOW 1966... and The British Isles: J.H. DICKSON 1973..., — insert Latvia: ABOLIN 1968, p. 194.
- p. 129; under Mnium blyttii, after KUC 1973b... — add Hungary, Rumania and adjacent countries: ORBAN 1975, p. 75, Karte 5.

- p. 138; under Neckeropsis exserta, for exserta (Schwaegr.) Broth. — read exserta (Schwaegr.) Broth. var. scrobiculata (Nees) Touw
- p. 138; delete line below exserta (Schwaegr.) Broth.
- p. 180; between Pylaisia polyantha (Hedw.) B.S.G. and polyantha (Hedw.) Grout — insert PYLAIELLA
- p. 192; under Scorpidium turgescens, after PAUL 1943, p. 129 — add (Calliergon turgescens)
- p. 192; under Scorpidium turgescens, for DU RIETZ 1945 — read DU RIETZ 1945b
- p. 211; under Tetraphis geniculata, delete Japan, Formosa, Korea and Manchuria: HORIKAWA 1951, p. 18, Map 3.
- p. 211; under Tetraphis pellucida, delete Japan, Formosa, Korea and Manchuria: HORIKAWA 1951, p. 18, Map 3.
- p. 212; under Thuidium bipinnatum, for Map 3D. — read Map 2D.
- p. 217; under Tortella nitida, for WHITEHOUSE et al. 1971, p. 133: — read ...p. 333;
- p. 224; above crispulum, insert TRICHOSTOMUM
- p. 229; under Zygodon conoidens, for BARDUNOV 1974, p. 103. — read ...p. 55.
- p. 231; under Abramova, A.L. 1956b, for Plantae Cryptogamae 19: — read ... 10:
- p. 235; under Bell, B.G. 1973., for ... Georgian mosses 1:2. — read ... Georgian mosses 2.
- p. 281; under Wilczyńska, W. 1974, for ... Gór Kaczawskich. — read ... Gór Kaczawskich.