Växtekologiska studier 12

Åke Sjödin

**Index to
distribution maps
of bryophytes
1887—1975
II. Hepaticae**

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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 second volume contains the result of my work concerning the hepatics. 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 of hepatics there is no complete general Index available, as the Index Hepaticarum (9 parts) now contains only the genera *Achiton* - *Lejeunites* and *Plagiochila*. Consequently there is for hepatics no guide to nomenclature comparable to the Index Muscorum for mosses. As I did not intend to put forward in this volume my own view of hepatic nomenclature, the only solution was to register the name(s) accompanying each map. Hence the same taxon may unfortunately appear with different names (such as *Grimaldia fragrans* and *Mannia fragrans*). Genera and species have been placed in alphabetical order while lower taxa have been placed in the following order: subspecies, variety, forma.

In this second volume nearly 3300 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, the complete area depicted on each map has been indicated, accompanied by the author's name and year of publication, which refers to the list of References. Example: *Acrobolbus antillanus* Schust. - World: SCHUSTER 1969, p. 58, Map 8. 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

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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 April 1980

Åke Sjödin

Abstract

Sjödin, Å., 1980, Index to distribution maps of bryophytes 1887 - 1975: II. Hepaticae. Växtekol. stud. 12, Uppsala. 143 pp. Available from Sv. Växtgeogr. Sällsk., Box 559 - S-751 22 Uppsala, Sweden.

A world-wide list is given of about 3300 distribution maps of Hepaticae, published within the time period 1928 - 1975. The genera and species are listed in alphabetical order and lower taxa in the following order: subspecies, variety, forma.

The complete area of each map is indicated, and there is a full list of references.

Abbreviations

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

Swedish provinces:

Sm.	Småland
Vrm.	Värmland

other geographical names:

Minn.	Minnesota (U.S.A.)
Rog.	Rogaland (Norway)
Schlesw.-Holst.	Schleswig-Holstein (BRD)
St.	Satakunta (Finland)
Sthlm.	Stockholm (Sweden)
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Fig. 22.

tridens (R.B. et N.) Trev. — Japan: INOUE 1974b, p. 24, Pl. 12.

trilobata (L.) S. Gray — Norway (S of lat. 68°N): E. JÖRGENSEN
1934, Kartblad XX e. Europe: K. MÜLLER 1951-57, p. 1175, Fig. 454.
USA (Minn.): SCHUSTER 1953, p. 659, Pl. 103, No. 104. E. Asia:
HORIKAWA 1955a, p. 33, Map 12. Japan: HATTORI & MIZUTANI 1958,
p. 114, Map d. Poland: SZWEYKOWSKI 1962, Map H. 223. World:
SZWEYKOWSKI 1962, Map H. 223. N. Hemisphere: SZWEYKOWSKI 1962,
Map H. 223. Europe: SZWEYKOWSKI 1962, Map H. 223. N. Germany:
PANKOW & KÜHNER 1967, Tab. 13. Europe: NEUMAYR 1971, p. 199,
Abb. 42.

yakushimensis Horik. — Japan: HATTORI & MIZUTANI 1958, p. 115,
Map g.

yoshinagana (Steph.) Steph. ex Yasuda — Japan: HATTORI & MIZUTANI
1958, p. 114, Map d. Japan: INOUE 1974b, p. 26, Pl. 13.

BLASIA

pusilla L. — Japan and Formosa: HORIKAWA 1951b, p. 12, Map 1.
 USA (Minn.): SCHUSTER 1953, p. 663, Pl. 107, No. 131. Poland:
 SZWEYKOWSKI 1968, Map H. 54. World: SZWEYKOWSKI 1968, Map H. 54.
 N. Hemisphere: SZWEYKOWSKI 1968, Map H. 54. Europe: SZWEYKOWSKI
 1968, Map H. 54. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 75.

BLEPHARIDOPHYLLUM

clandestinum (Mont.) Grolle — World: SCHUSTER 1969, p. 72, Map 20.
densifolium (Hook.) Ångstr. — World: SCHUSTER 1969, p. 72, Map 20.
gottscheanum Grolle — World: SCHUSTER 1969, p. 72, Map 20.
vertebrale (Tayl.) Ångstr. — World: SCHUSTER 1969, p. 72, Map 20.
xiphophyllum Grolle — World: SCHUSTER 1969, p. 72, Map 20.

BLEPHAROSTOMA

arachnoideum Howe — World: KOROTKEVICZ 1952, p. 191. World:
 SCHUSTER 1969, p. 66, Map 14.
minus Horik. — E. Asia: HORIKAWA 1951a, p. 105, Map 2. World:
 SCHUSTER 1969, p. 66, Map 14. E. Asia: HORIKAWA 1972, Map 490.
 Japan: INOUE 1974b, p. 6, Pl. 3.
trichophyllum (L.) Dum. — E. Asia: HORIKAWA 1951a, p. 102, Map 1.
 World: FULFORD 1951, p. 252, Fig. 5. USA (Minn.): SCHUSTER 1953,
 p. 658, Pl. 102, No. 102. Poland: SZWEYKOWSKI 1966, Map H. 66.
 World: SZWEYKOWSKI 1966, Map H. 66. N. Hemisphere: SZWEYKOWSKI
 1966, Map H. 66. Europe: SZWEYKOWSKI 1966, Map H. 66. World: GROLLE
 1969b, p. 566, Fig. 2. World: SCHUSTER 1969, p. 66, Map 14.
 Corsica: BISCHLER & JOVET-AST 1973b, p. 140, Carte 7. W. Greenland:
 SCHUSTER & DAMSHOLT 1974, Map 1.
 ssp. brevirete (Bryhn et Kaal.) Schust. — W. Greenland: SCHUSTER
 & DAMSHOLT 1974, Map 1.
 var. brevirete Bryhn et Kaal. — Poland and Czechoslovakia (Tatry
 Mountains): SZWEYKOWSKI 1960b, Map 4. Poland: SZWEYKOWSKI 1966,
 Map H. 66A. World: SZWEYKOWSKI 1966, Map H. 66A. N. Hemisphere:
 SZWEYKOWSKI 1966, Map H. 66A. Europe: SZWEYKOWSKI 1966, Map H. 66A.

BONNERIA

bifida (Steph.) Schust. — World: SCHUSTER 1972, p. 45, Fig. 16

(BONNERIA contin.)

ssp. densa (Pears.) Schust. — World: SCHUSTER 1972, p. 45, Fig. 16.

furcifolia (Steph.) Schust. — World: SCHUSTER 1972, p. 45, Fig. 16.

granatensis (Gott.) Fulf. et Tayl. — World: SCHUSTER 1972, p. 45, Fig. 16.

stipulata (Herz.) Schust. — World: SCHUSTER 1972, p. 45, Fig. 16.

BRACHIOLEJEUNEA

sandvicensis (Gott.) Evans — Japan, Formosa and Corea: HORIKAWA 1952, p. 69, Map 5. E. Asia: HORIKAWA 1955, p. 76, Map 26. Japan (excl. Hokkaido): MIZUTANI 1961, p. 286, Map 2c.

BRYOPTERIS

diffusa (Sw.) Nees — World: STOTLER & CRANDALL-STOTLER 1974, Fig. 219.

filicana (Sw.) Nees — World: STOTLER & CRANDALL-STOTLER 1974, Fig. 219.

flaccida Lindenb. et Hampe — World: STOTLER & CRANDALL-STOTLER 1974, Fig. 219.

fruticulosa Tayl. — World: STOTLER & CRANDALL-STOTLER 1974, Fig. 219.

gaudichaudii Gott. — World: STOTLER & CRANDALL-STOTLER 1974, Fig. 219.

liebmaniana Lindenb. et Gott. — World: STOTLER & CRANDALL-STOTLER 1974, Fig. 219.

trinitensis (Lehm. et Lindenb.) Lehm. et Lindenb. — World: STOTLER & CRANDALL-STOTLER 1974, Fig. 219.

BUCEGIA

romanica Radian — Poland: SZWEYKOWSKI 1964, Map H. 18. World: SZWEYKOWSKI 1964, Map H. 18. N. Hemisphere: SZWEYKOWSKI 1964, Map H. 18. Europe: SZWEYKOWSKI 1964, Map H. 18. World: LADYZHENSKAJA 1970a, p. 301. World: SCHOFIELD & CRUM 1972, p. 190, Map 30.

CALOBRYUM

rotundifolium (Mitt.) Schiffn. — Japan and Formosa: HORIKAWA 1951b, p. 12, Map 1.

CALYPOGEIA

annabonensis Steph. — Africa: BISCHLER 1970, p. 74, Carte 6.

arguta Mont. et Nees -- Norway (S of lat. 64°N): E. JÖRGENSEN 1934, Kartblad XXI g. W. Germany: SCHUMACHER 1942, Tab. VIII. Europe and N. Africa: K. MÜLLER 1951-57, p. 1175, Fig. 454. W. Europe and N. Africa: ALBRECHT 1953, p. 30. Europe and N. Africa: K. MÜLLER 1954, p. 119, Fig. 8. W. Germany (Westfalen, Niedersachsen): KOPPE 1962, p. 113. The Azores and Africa: BISCHLER 1970, p. 76, Carte 8. Benelux: MUYLDERMANS, ZANTEN & ZUTTERE 1971, p. 58, Fig. 1. Tunisia: JOVET-AST & BISCHLER 1972, p. 16, Carte 3.

asakawana Hatt. ex Inoue — Japan: INOUE 1974b, p. 32, Pl. 16.

azorica Bischl. — The Azores and Africa: BISCHLER 1970, p. 74, Carte 6.

bidentula (Web.) Nees — Africa: BISCHLER 1970, p. 71, Carte 3.

fissa (L.) Raddi — Norway (S of lat. 64°N): JÖRGENSEN 1934, Kartblad XXI e. Europe and N. Africa: K. MÜLLER 1951-57, p. 1175, Fig. 454. Europe and N. Africa: K. MÜLLER 1954, p. 119, Fig. 8. NE. Germany: KÜHNER & PANKOW 1967, p. 173, Abb. 9. Africa: BISCHLER 1970, p. 72, Carte 4. Netherlands: VOGELPOEL 1971, p. 102, Fig. 2A. Europe and N. Africa: NEUMAYR 1971, p. 157, Abb. 36. England (Warwickshire): LAFLIN 1971, p. 694, Map 808. Tunisia: JOVET-AST & BISCHLER 1972, p. 17, Carte 5. Sardinia: BISCHLER & JOVET-AST 1973a, p. 407, Carte 9. Corsica: BISCHLER & JOVET-AST 1973b, p. 150, Carte 17. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 626, Map 11.

fusca (Lehm. et Lindb.) Steph. — Africa: BISCHLER 1970, p. 69, Carte 1.

integristipula Steph. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 5. Japan: INOUE 1974b, p. 34, Pl. 17.

longifolia Steph. — Africa: BISCHLER 1970, p. 73, Carte 5.

mascarenensis Bischl. — Africa: BISCHLER 1970, p. 70, Carte 2.

meylanii Buch — USA (Minn.): SCHUSTER 1953, p. 659, Pl. 103, No. 107.

microstipula (Steph.) Steph. -- Africa: BISCHLER 1970, p. 75,

(CALYPOGEIA contin.)

muellerana (Schiffn.) K. Müll. — Norway (S of lat. 66°N):

E. JÖRGENSEN 1934, Kartblad XXI b. Poland (Warszawa reg.): REJMENT-GROCHOWSKA 1959, p. 282, Fig. 1. Africa: BISCHLER 1970, p. 71, Carte 3. Netherlands: VOGELPOEL 1971, p. 102, Fig. 2B. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 3.

muellerana (Schiffn.) K. Müll. sens. lat. — Norway (S of lat. 66°N): E. JÖRGENSEN 1934, Kartblad XXI c.

neesiana (Mass. et Carest.) K. Müll. — USA (Minn.): SCHUSTER 1953, p. 659, Pl. 103, No. 106. Africa: BISCHLER 1970, p. 70, Carte 2. Netherlands: VOGELPOEL 1971, p. 102, Fig. 2C. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 5.

sphagnicola (H.Arn. et J.Perss.) Warnst. et Loeske — Norway:

E. JÖRGENSEN 1934, Kartblad XXI d. USA (Minn.): SCHUSTER 1953, p. 659, Pl. 103, No. 108. N. Germany: PANKOW & KÜHNER 1967, Tab. 16. Africa: BISCHLER 1970, p. 74, Carte 6. Netherlands: VOGELPOEL 1971, p. 102, Fig. 2C. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 4. The British Isles: WHITEHOUSE et al. 1975, p. 384.

suecica (H.Arn. et J.Perss.) K. Müll. — Norway (S of lat. 66°N):

E. JÖRGENSEN 1934, Kartblad XXI f. USA (Minn.): SCHUSTER 1953, p. 659, Pl. 103, No. 109. Africa: BISCHLER 1970, p. 73, Carte 5.

tosana (Steph.) Steph. — Japan: INOUE 1974b, p. 36, Pl. 18.

trichomanis (L. emend K. Müll.) Corda — Morocco: JOVET-AST 1956b, p. 144, Map 7. USA (Minn.): SCHUSTER 1953, p. 659, Pl. 103, No. 105. The Azores and Africa: BISCHLER 1970, p. 75, Carte 7.

CARRPOS

sphaerocarpos (Carring.) Prosk. — World: SCHOFIELD & CRUM 1972, p. 197, Map 49.

CAVICULARIA

densa Steph. — Japan and Formosa: HORIKAWA 1951b, p. 12, Map 1.

E. Asia: HORIKAWA 1955a, p. 142, Map 51.

CEPHALOLOBUS

hodgsoniae Schust. — World: SCHUSTER 1969, p. 62, Map 11.

scabrellus (Mass.) Schust. — World: SCHUSTER 1969, p. 62, Map 11.

(CEPHALOLOBUS contin.)

sphenoloboides Schust. — World: SCHUSTER 1969, p. 62, Map 11.

squarrosus Schust. — World: SCHUSTER 1969, p. 62, Map 11.

CEPHALOZIA

affinis Lindb. ex Steph. — Norway (S of lat. 61°N): E. JÖRGENSEN 1934, Kartblad XXIV g. USA (Minn.): SCHUSTER 1953, p. 656, Pl. 100, No. 91.

ambigua Mass. — Norway: E. JÖRGENSEN 1934, Kartblad XXIV d.

bicuspidata (L.) Dum. — USA (Minn.): SCHUSTER 1953, p. 655, Pl. 99, No. 83. Israel: JOVET-AST & BISCHLER 1966, p. 108, Carte 1. England (Warwickshire): LAFLIN 1971, p. 697, Map 820. Tunisia (N. half): JOVET-AST & BISCHLER 1972, p. 18, Carte 12. Corsica: BISCHLER & JOVET-AST 1973b, p. 147, Carte 14. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 64.

ssp. ambigua (Mass.) Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 64.

catenulata (Hüb.) Lindb. — Norway (S of lat. 64°N): E. JÖRGENSEN 1934, Kartblad XXIV c. USA (Minn.): SCHUSTER 1953, p. 656, Pl. 100, No. 89. W. France: TOUFFET 1969b, p. 50, Fig. 2.

compacta Warnst. — USA (Minn.): SCHUSTER 1953, p. 657, Pl. 101, No. 94.

connivens (Dicks.) Lindb. — Norway (S of lat. 62°N): E. JÖRGENSEN 1934, Kartblad XX g. Europe: K. MÜLLER 1951-57, p. 1093, Fig. 411. USA (Minn.): SCHUSTER 1953, p. 657, Pl. 101, No. 93. Poland (Przedmoście, prov. Wrocław): KOLA 1961, p. 197, Fig. 2. Tunisia: JOVET-AST & BISCHLER 1972, p. 16, Carte 2.

hebernica Spruce ex Pears. — Europe: K. MÜLLER 1951-57, p. 1093, Fig. 411.

lacinulata (Jack) Spruce — USA (Minn.): SCHUSTER 1953, p. 656, Pl. 100, No. 86.

lammersiana (Hüb.) Carring. in Lees — USA (Minn.): SCHUSTER 1953, p. 656, Pl. 100, No. 85.

leucantha Spruce — USA (Minn.): SCHUSTER 1953, p. 656, Pl. 100,

(CEPHALOZIA contin.)

No. 87. N. America: SCHUSTER 1958a, p. 278, Fig. 49. Czechoslovakia: DUDA 1959, Mapa 2. The British Isles: WHITEHOUSE et al. 1967, p. 359; orig. J.A. Paton. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 65. Japan: INOUE 1974b, p. 118, Pl. 59.

loitlesbergeri Schiffn. — Norway: E. JÖRGENSEN 1934, Kartblad XIXd. USA (Minn.) SCHUSTER 1953, p. 656, Pl. 100, No. 92.

N. America: SCHUSTER 1958a, p. 278, Fig. 50. The British Isles: WHITEHOUSE et al. 1967, p. 358; orig. J.A. Paton.

lunulifolia (Dum.) Dum. — Germany (Schlesw.-Holst.): FRAHM & WALSEMANN 1973, p. 33. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 65.

macounii (Aust.) Aust. — USA (Minn.) SCHUSTER 1953, p. 656, Pl. 100, No. 88. N. America: SCHUSTER 1958a, p. 278, Fig. 49.

macrostachya Kaal. — Norway (S of lat. 65°N): E. JÖRGENSEN 1934, Kartblad XXIVa. The British Isles: WHITEHOUSE et al. 1971, p. 332; orig. F. Rose.

media Lindb. — USA (Minn.): SCHUSTER 1953, p. 656, Pl. 100, No. 90. Corsica: BISCHLER & JOVET-AST 1973b, p. 137, Carte 4.

nipponica Hatt. — Japan: INOUE 1974b, p. 120, Pl. 60.

otaruensis Steph. — Japan: INOUE 1974b, p. 122, Pl. 61.

pleniceps (Aust.) Lindb. — USA (Minn.): SCHUSTER 1953, p. 657, Pl. 101, No. 95. Czechoslovakia: DUDA 1959, Mapa 3. Poland (Przedmoście, prov. Wrocław): KOLA 1961, p. 197, Fig. 2. The British Isles: WHITEHOUSE et al. 1967, p. 357; orig. J. Paton. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 66.

CEPHALOZIELLA

alpina Douin — USA (Minn.): SCHUSTER 1953, p. 655, Pl. 99, No. 80.

arctica Bryhn et Douin — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 71. Czechoslovakia: DUDA & VÁNA 1974a, p. 31, Karte 199; orig. J. Duda.

aspericaulis Jörg. — Norway (S of lat. 64°N): E. JÖRGENSEN 1934, Kartblad XVf.

(CEPHALOZIELLA contin.)

baumgartneri Schiffn. — Morocco: JOVET-AST 1956b, p. 145, Map 12. Israel: JOVET-AST & BISCHLER 1966, p. 113, Carte 24. Libya: JOVET-AST & BISCHLER 1969, p. 283, Carte 17. Tunisia (N. Half): JOVET-AST & BISCHLER 1972, p. 18, Carte 9. Sardinia: BISCHLER & JOVET-AST 1973a, p. 402, Carte 4. Corsica: BISCHLER & JOVET-AST 1973b, p. 135, Carte 2. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 625, Map 8.

bicuspidata (L.) Dum. — USA (Minn.): SCHUSTER 1953, p. 655, Pl. 99, No. 84.

bifidoides Douin — Norway (S of lat. 64°N): JÖRGENSEN 1934, Kartblad XV g.

byssacea (Roth) Warnst. — Morocco: JOVET-AST 1956b, p. 145, Map 11. W. Greenland: SCHUSTER & DAMSHOLT 197, Map 68.

var. scabra (Howe) Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 68.

calyculata (Durieu et Mont.) K. Müll. — Tunisia: JOVET-AST & BISCHLER 1972, p. 16, Carte 3. Sardinia: BISCHLER & JOVET-AST 1973a, p. 405, Carte 7. Corsica: BISCHLER & JOVET-AST 1973b, p. 136, Carte 3. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 626, Map 11.

compacta (Jörg.) K. Müll. — Norway (S of lat. 61°N): JÖRGENSEN 1934, Kartblad XV h.

divaricata (Sm.) Schiffn. — Czechoslovakia: DUDA 1974, p. 361, Obr. 1. Czechoslovakia: DUDA & VÁNA 1975a, p. 74, Karte 205; orig. J. Duda.

var. rupestris (Jens.) K. Müll. — Czechoslovakia: DUDA & VÁNA 1975a, p. 74, Karte 205a; orig. J. Duda.

elachista (Jack.) Schiffn. — Norway (S of lat. 64°N): E. JÖRGENSEN 1934, Kartblad XIV b. USA (Minn.): SCHUSTER 1953, p. 654, Pl. 98, No. 74. N. Germany: PANKOW & KUHNER 1967, Tab. 12. Czechoslovakia: DUDA & VÁNA 1974a, p. 28, Karte 197; orig. J. Duda.

elegans (Heeg) Schiffn. — Norway (S of lat. 65°N): E. JÖRGENSEN 1934, Kartblad XIV d. USA (Minn.): SCHUSTER 1953, p. 655, Pl. 99,

(CEPHALOZIELLA contin.)

No. 79. Czechoslovakia: DUDA & VÁNA 1974a, p. 34, Karte 201, orig. J. Duda.

grimsulana (Jack.) Lacouture — Norway (S of lat. 62°N): E. JÖRGENSEN 1934, Kartblad XIVh. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 71. Czechoslovakia: DUDA & VÁNA 1974a, p. 33, Karte 200; orig. J. Duda.

hampeana (Nees) Schiffn. — Norway (S of lat. 66°N): E. JÖRGENSEN 1934, Kartblad XIVf. USA (Minn.): SCHUSTER 1953, p. 655, Pl. 99, No. 81. N. Germany: PANKOW & KÜHNER 1967, Tab. 12. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 69. Czechoslovakia: DUDA & VÁNA 1974b, p. 168, Karte 203; orig. J. Duda.

integerrima (Lindb.) Warnst. — The British Isles: WHITEHOUSE et al. 1966, p. 158; orig. J.A. Paton.

massalongi (Spruce) K. Müll. — Norway (S of lat. 64°N) E. JÖRGENSEN 1934, Kartblad XVg. Corsica: BISCHLER & JOVET-AST 1973b, p. 150, Carte 17. Czechoslovakia: DUDA & VÁNA 1974a, p. 35, Karte 204a; orig. J. Duda.

norvegica Douin — Norway (S of lat. 64°N): JÖRGENSEN 1934, Kartblad XVf.

papillosa (Douin) Schiffn. — Norway (S of lat. 66°N) JÖRGENSEN 1934, Kartblad XVb.

pearsoni (Spruce) Douin — Norway (S of lat. 61°N): JÖRGENSEN 1934, Kartblad XVh. The British Isles: WHITEHOUSE et al. 1966, p. 158; orig. H. Milne-Redhead.

perssonii (C. Jens.) K. Müll. — Norway (S of lat. 62°N): JÖRGENSEN 1934, Kartblad XVI.

phyllicantha (Mass. et Carest.) K. Müll. — Norway (S of lat. 61°N): JÖRGENSEN 1934, Kartblad XVh.

rubella (Nees) Warnst. — JÖRGENSEN 1934, Kartblad XIVe. USA (Minn.): SCHUSTER 1953, p. 654, Pl. 98, No. 76. Czechoslovakia: DUDA & VÁNA 1974b, p. 162, Karte 202; orig. J. Duda.

var. arctogena Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 69.

(CEPHALOZIELLA contin.)

var. pulchella (C. Jens.) Douin — USA (Minn.): SCHUSTER 1953, p. 655, Pl. 99, No. 78.

var. sullivantii (Aust.) K. Müll. — USA (Minn.): SCHUSTER 1953, p. 655, Pl. 99, No. 77. Czechoslovakia: DUDA & VÁNA 1974b, p. 166, Karte 202a; orig. J. Duda.

spinicaulis Douin — Japan and Korea: INOUE 1970, p. 360, Fig. 1.

spinigera (Lindb.) Jørg. — Norway (S of lat. 64°N): JØRGENSEN 1934, Kartblad XIV b.

starkei (Funck) Schiffn. — Norway: JØRGENSEN 1934, Kartblad XV a. USA (Minn.): SCHUSTER 1953, p. 655, Pl. 99, No. 82. England (Warwickshire): LAFLIN 1971, p. 696, Map 819. Tunisia (N. half): JOVET-AST & BISCHLER 1972, p. 19, Carte 14. Sardinia: BISCHLER & JOVET-AST 1973a, p. 401, Carte 3. Corsica: BISCHLER & JOVET-AST 1973b, p. 147, Carte 14. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 626, Map 10.

var. scabra (Howe) Clark et Frye — Sardinia: BISCHLER & JOVET-AST 1973a, p. 401, Carte 3. Corsica: BISCHLER & JOVET-AST 1973b, p. 138, Carte 5.

stellulifera (Tayl.) Schiffn. — Tunisia (N. half): JOVET-AST & BISCHLER 1972, p. 18, Carte 8. Sardinia: BISCHLER & JOVET-AST 1973a, p. 410, Carte 12. Corsica: BISCHLER & JOVET-AST 1973b, p. 141, Carte 8. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 625, Map 9. Czechoslovakia: DUDA & VÁNA 1974b, p. 166, Karte 204; orig. J. Duda.

striatula (C. Jens.) Douin — Norway (S of lat. 66°N): JØRGENSEN 1934, Kartblad XIV c.

subdentata Warnst. — USA (Minn.): SCHUSTER 1953, p. 654, Pl. 98, No. 75. N. America and Greenland: SCHUSTER 1958a, p. 288, Fig. 63 (incl. C. spinigera and C. spinosa). Czechoslovakia and adjacent areas: DUDA 1962, p. 26, Mapka 2. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 69. Czechoslovakia: DUDA & VÁNA 1974a, p. 30, Karte 198; orig. J. Duda.

turneri (Hook.) K. Müll. — World: SCHOFIELD & CRUM 1972, p. 189,

(CEPHALOZIELLA contin.)

Map 25. The British Isles: WHITEHOUSE et al. 1966, p. 159; orig.
J.A. Paton. Tunisia (N. half): JOVET-AST & BISCHLER 1972, p. 18,
Carte 13. Sardinia: BISCHLER & JOVET-AST 1973a, p. 402, Carte 4.
Corsica: BISCHLER & JOVET-AST 1973b, p. 146, Carte 13.

uncinata Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 70.

var. sphagnicola Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974,
Map 70.

CERATOLEJEUNEA

laetefusca (Aust.) Schust. — S. USA, M. America, S. America
(N. part) and the Antilles: JOVET-AST 1960, p. 124, Fig. 1.

CESIA

adusta (Nees) Lindb. — Norway: JÖRGENSEN 1934, Kartblad V c.

alpina (Gott.) Lindb. — Norway (S of lat. 66°N): JÖRGENSEN 1934,
Kartblad V e.

andreaeoides Lindb. — Norway (S of lat. 66°N): JÖRGENSEN 1934,
Kartblad II e.

crenulata (Gott.) Carruther — Norway (S of lat. 62°N): JÖRGENSEN
1934, Kartblad III g.

obtusa Lindb. — Norway: JÖRGENSEN 1934, Kartblad V a.

revoluta (Nees) Lindb. — Norway (S of lat. 64°N): JÖRGENSEN 1934,
Kartblad V f. Scandinavia: WEIMARCK 1937, p. 365, Fig. 1.

CHAETOCOLEA

palmata Spruce — World: SCHUSTER 1969, p. 66, Map 15.

CHAETOPHYLLOPSIS

whiteleggei (Carring. et Pears.) Schust. — World: SCHUSTER 1969,
p. 52, Map 1.

CHANDONANTHUS

birmensis Steph. — World: SZWEYKOWSKI 1956b, p. 605, Ryc. 2.

hamatus Steph. — World: SZWEYKOWSKI 1956b, p. 605, Ryc. 2.

hirtellus (Web.) Mitt. — World: SZWEYKOWSKI 1956b, p. 605, Ryc. 2.

piliferus Steph. — World: SZWEYKOWSKI 1956b, p. 605, Ryc. 2.

(CHANDONANTHUS contin.)

pusillus Steph. — World: SZWEYKOWSKI 1956b, p. 605, Ryc. 2.

setiformis (Ehrh.) Lindb. — World: SZWEYKOWSKI 1956b, p. 605, Ryc. 2. Poland and Czechoslovakia (Tatra Mountains): SZWEYKOWSKI 1960b, Map 4. Poland: SZWEYKOWSKI 1964, Map H. 73. World: SZWEYKOWSKI 1964, Map H. 73. N. Hemisphere: SZWEYKOWSKI 1964, Map H. 73. Europe: SZWEYKOWSKI 1964, Map H. 73. The British Isles: WHITEHOUSE et al. 1966, p. 154; orig. J.A. Paton. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 6.

var. nemoides Kaal. — World: SZWEYKOWSKI 1956b, p. 605, Ryc. 2.

squarrosus (Hook.) Mitt. — World: SZWEYKOWSKI 1956b, p. 605, Ryc.2.

CHEILOLEJEUNEA

grandiflora Steph. — SE. Asia, Australia and Oceania: MILLER, WHITTIER & BONNER 1963, Pl. 28.

imbricata (Nees) Hatt. — S. Japan: MIZUTANI 1961, p. 287, Map 3e. Japan (Honshu, Kii Peninsula): KODAMA 1970, p. 106, Map 8.

nipponica (Hatt.) Hatt. — Japan: INOUE 1974b, p. 150, Pl. 75.

obtusifolia (Steph.) Hatt. — Japan: MIZUTANI 1961, p. 287, Map 3f.

ontakensis (Steph.) Hatt. — Japan: MIZUTANI 1961, p. 287, Map 3f.

CHIASTOCAULON

dendroides (Nees) Carl — E. Asia: INOUE 1967, p. 184, Fig. 2.

CHILOSCYPHUS

fragilis (Roth) Schiffn. — Norway (S of lat. 65°N): JÖRGENSEN 1934, Kartblad XXII d.

pallescens (Ehrh. ex Hoffm.) Dum. — USA (Minn.): SCHUSTER 1953, p. 652, Pl. 96, No. 50. Sardinia: BISCHLER & JOVET-AST 1973a, p. 403, Carte 5. Corsica: BISCHLER & JOVET-AST 1973b, p. 139, Carte 6. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p.624, Map 5. Japan: INOUE 1974b, p. 80, Pl. 40.

var. fragilis (Roth) K. Müll. — USA (Minn.): SCHUSTER 1953, p.652, Pl. 96, No. 52.

polyanthos (L.) Corda — Norway (S of lat. 66°N): E. JÖRGENSEN 1934,

(CHILOSCYPHUS contin.)

Kartblad XXa. USA (Minn.): SCHUSTER 1953, p. 652, Pl. 96, No. 51.
 England (Warwickshire): LAFLIN 1971, p. 696, Map 818. Tunisia:
 JOVET-AST & BISCHLER 1972, p. 17, Carte 6. Sardinia: BISCHLER &
 JOVET-AST 1973a, p. 403, Carte 5. Corsica: BISCHLER & JOVET-AST
 1973b, p. 142, Carte 9.

var. rivularis (Schrad.) Nees — USA (Minn.): SCHUSTER 1953, p. 652,
 Pl. 96, No. 53.

rivularis (Schrad.) Loeske — Norway (S of lat. 62°N): JÖRGENSEN
 1934, Kartblad XXIII g.

CHLORANTHELIA

berggrenii (Herz.) Schust. (incl. *C. filosa* (Hodgs.) Schust.) —
 World: SCHUSTER 1969, p. 58, Map 7.

denticulata (Steph.) Schust. — World: SCHUSTER 1969, p. 58, Map 7.

CLADOPODIELLA

fluitans (Nees in Funck) Jörg. — Norway: E. JÖRGENSEN 1934, Kart-
 blad XXIV f. USA (Minn.): SCHUSTER 1953, p. 655, Pl. 99, No. 83.
 Poland: SZWEYKOWSKI 1964, Map H. 215. World: SZWEYKOWSKI 1964,
 Map H. 215. N. Hemisphere: SZWEYKOWSKI 1964, Map H. 215. Europe:
 SZWEYKOWSKI 1964, Map H. 215. Germany (Schlesw.-Holst.): FRAHM &
 WALSEMANN 1973, p. 36.

francisci (Hook.) Jörg. — Norway: E. JÖRGENSEN 1934, Kartblad
 XXIV e. Poland: SZWEYKOWSKI 1964, Map H. 214. World: SZWEYKOWSKI
 1964, Map H. 214. N. Hemisphere: SZWEYKOWSKI 1964, Map H. 214.
 Europe: SZWEYKOWSKI 1964, Map H. 214. W. France: TOUFFET 1969b,
 P. 64, fig. 29. World: SCHOFIELD & CRUM 1972, p. 193, Map 37.
 Germany (Schlesw.-Holst.): FRAHM & WALSEMANN 1973, p. 35.

CLASMATOCOLEA

vermicularis (Lehm.) Grolle — S. America and Africa: GROLLE 1960a,
 p. 85. World: GROLLE 1969b, p. 575, Fig. 8. S. America and Africa:
 FULFORD 1963, p. 143, Fig. 2.

CLEVEA

andina Spruce — S. America: BERGDOLT 1932, Karte 46 and 47.

chinensis Steph. — N. Hemisphere: BERGDOLT 1932, Karte 46. World:

(CLEVEA contin.)

handelii Herz. — N. Hemisphere: BERGDOLT 1932, Karte 46. World: BERGDOLT 1932, Karte 47.

hyalina (Sommerf.) Lindb. — N. Hemisphere: BERGDOLT 1932, Karte 46. World: BERGDOLT 1932, Karte 47. Arctic, Europe and W. Asia: BERGDOLT 1932, Karte 48. Norway: E. JØRGENSEN 1934, Kartblad I f. Czecho-slovakia, Austria and Hungary: SUZA 1938, p. 37, Karte 4. M. Europe (the Alps): K. MÜLLER 1939-40, p. 261, Fig. 42. World: K. MÜLLER 1939-40, p. 263, Fig. 43. Germany (SW. Harz): REIMERS 1940, p. 106, Karte 2. Germany (Fränkischen Alb, Bayer. Ostmark): GAUCKLER 1940, p. 71, Karte 2. Sweden (S of lat. 61°): ALBERTSON 1946, p. 182, Fig. 11. USA (Minn.): SCHUSTER 1953, p. 666, Pl. 110, No. 149. Morocco: JOVET-AST 1956b, p. 144, Map 8. N. America and Greenland: SCHUSTER 1958a, p. 298, Fig. 75. Czechoslovakia: PECIAR 1958, p. 921, Obr. 3.

pulcherrima Steph. — World: BERGDOLT 1932, Karte 47.

robusta Steph. — S. America: BERGDOLT 1932, Karte 46 and 47.

rousseliana (Mont.) Leitg. — N. Hemisphere: BERGDOLT 1932, Karte 46. World: BERGDOLT 1932, Karte 47. Europe, W. Asia and N. Africa: BERGDOLT 1932, Karte 48. S. Europe and N. Africa: GIACOMINI 1940, p. 631, Fig. 3.

spathysii (Lindenb.) K. Müll. — World: K. MÜLLER 1939-40, p. 263, Fig. 43. Israel: JOVET-AST & BISCHLER 1966, p. 112, Carte 20. Libya: JOVET-AST & BISCHLER 1969, p. 279, Carte 5. Tunisia: JOVET-AST & BISCHLER 1972, p. 17, Carte 7. Corsica: BISCHLER & JOVET-AST 1973b, p. 150, Carte 17. Iberia, N. Africa and Canary Islands: ACUNA et al. 1975, p. 76, Mapa 2. SE. Spain: ACUNA et al. 1975, p. 76, Mapa 2.

COLOLEJEUNEA

appressa (Evans) Bened. — World: GROLLE 1969b, p. 578, Fig. 11.

biddlecomiae (Aust.) Evans — USA (Minn.): SCHUSTER 1953, p. 661, Pl. 105, No. 116.

calcarea (Libert) Schiffn. — Norway (S of lat. 68°N): E. JØRGENSEN 1934, Kartblad XXII a. Czechoslovakia: DUDA 1960, p. 33, Mapa 2. The British Isles: WHITEHOUSE et al. 1968, p. 592; orig. H. Milne-

(COLOLEJEUNEA contin.)

-Redhead. S. Germany: PHILIPPI 1972, p. 736, Abb. 34. Poland: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 245. World: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 245. N. Hemisphere: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 245. Europe: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 245. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 624, Map 5. Czechoslovakia: DUDA & VÁNA 1975b, p. 182, Karte 252; orig. J. Duda.

campanulata Benedix — SE. Asia, Australia and Micronesia: MILLER, WHITTIER & BONNER 1963, Pl. 27.

formosana Mizut. — Japan: INOUE 1974b, p. 160, Pl. 80.

goebelii (Gott. ex Schiffn.) Schiffn. — Japan (excl. Hokkaido): MIZUTANI 1961, p. 288, Map 5n.

japonica (Schiffn.) Mizut. — Japan (excl. Hokkaido): MIZUTANI 1961, p. 288, Map 5n.

kapingaensis Miller — Micronesia: MILLER, WHITTIER & BONNER 1963, Pl. 25.

macounii (Spruce) Evans — Japan: MIZUTANI 1961, p. 288, Map 5m. SE. Asia and N. America: INOUE 1970, p. 361, Fig. 2.

microscopica (Tayl.) Schiffn. — Portugal (Madeira): SJÖGREN 1975, p. 275, Fig. 11.

minuta (Mitt.) Steph. — Japan: MIZUTANI 1961, p. 288, Map 5m.

minutissima (Sm.) Schiffn. — USA (E. part) and M. America: SHARP 1939, p. 340, Fig. 26. Tunisia (N. half): JOVET-AST & BISCHLER 1972, p. 18, Carte 10. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 625, Map 9. Portugal (Madeira): SJÖGREN 1975, p. 275, Fig. 12.

nakajimae Hatt. — Japan (Honshu, Kii Peninsula): KODAMA 1970, p. 109, Map 9.

peraffinis (Schiffn.) Schiffn. — E. Asia: INOUE 1970, p. 361, Fig. 3.

rosettiana (Mass.) Schiffn. — Europe, N. Africa and Asia: LADYZ-HENSKAJA 1953b, p. 175. W. France: TOUFFET 1969b, p. 57, Fig. 16. Corsica: BISCHLER & JOVET-AST 1973b, p. 145, Carte 12. Poland:

(COLOLEJEUNEA contin.)

SZWEYKOWSKI & KOŹLICKA 1974, Map H. 246. World: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 246. N. Hemisphere: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 246. Europe: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 246. Czechoslovakia: DUDA & VÁNA 1975b, p. 186, Karte 253; orig. J. Duda. spinosa (Horik.) Hatt. — S. Japan: MIZUTANI 1961, p. 288, Map 51. wightii Steph. — SE. Asia, Australia and Oceania: MILLER, WHITTIER & BONNER 1963, Pl. 28.

COLURA

ari (Steph.) Steph. — SE. Asia and Australia: JOVET-AST 1954, p. 14, Carte 6.

bisvoluta Herz. et Jov.-Ast. — SE. Asia and Australia: JOVET-AST 1954, p. 15, Carte 7.

calyptrifolia (Hook.) Dum. — World: JOVET-AST 1954, p. 13, Carte 5. The British Isles: WHITEHOUSE et al. 1964, p. 738; orig. M.C.F. Proctor. W. France: TOUFFET 1969b, p. 60, Fig. 21.

greig-smithii Jov.-Ast. — S. USA, M. America (N. part) and the Antilles: JOVET-AST 1960, p. 124, Fig. 1.

imperfecta Steph. — SE. Asia and Australia: JOVET-AST 1954, p. 14, Carte 6.

inuii Horik. — Japan: INOUE 1974b, p. 162, Pl. 81.

tenuicornis (Evans) Steph. — World: JOVET-AST 1954, p. 13, Carte 5.

CONOCEPHALUM

conicum (L.) Lindb. — USA (Minn.): SCHUSTER 1953, p. 664, Pl. 108, No. 139. E. Asia: HORIKAWA 1955a, p. 13, Map 5. Newfoundland: BUCH & TUOMIKOSKI 1955, p. 23, Map 2. Poland: SZWEYKOWSKI 1968, Map H. 13. World: SZWEYKOWSKI 1968, Map H. 13. N. Hemisphere: SZWEYKOWSKI 1968, Map H. 13. Europe: SZWEYKOWSKI 1968, Map H. 13. England (Warwickshire): LAFLIN 1971, p. 691, Map 796. E. Asia: HORIKAWA 1972, Map 497. Tunisia (N. half): JOVET-AST & BISCHLER 1972, p. 19, Carte 14. Sardinia: BISCHLER & JOVET-AST 1973a, p. 406, Carte 8. Corsica: BISCHLER & JOVET-AST 1973b, p. 137, Carte 4. Czechoslovakia: DUDA & VÁNA 1973b, p. 101, Karte 14; orig. J. Duda. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 623, Map 1.

(CONOCEPHALUM contin.)

supradecompositum (Lindb.) Steph. — Asia: LADYZHENSKAJA 1952a, p. 174. World: PANDE 1958, p. 13, Map IV. E. Asia: HORIKAWA 1972, Map 498.

var. propagulifera Mass. — Europe and Asia: LADYZHENSKAJA & VASILKEVA 1964, p. 268.

CORSINIA

coriandrina (Spreng.) Lindb. — Europe (S of lat. 52°N) and N. Africa: K. MÜLLER 1939-40, p. 282, Fig. 47. Morocco: JOVET-AST 1956b, p. 145, Map 13. Iberia and Morocco: V. ALLORGE & JOVET-AST 1958, p. 144, Map 7. Israel: JOVET-AST & BISCHLER 1966, p. 111, Carte 14. Tunisia (N. half): JOVET-AST & BISCHLER 1972, p. 18, Carte 10. Sardinia: BISCHLER & JOVET-AST 1973a, p. 400, Carte 2. Corsica: BISCHLER & JOVET-AST 1973b, p. 135, Carte 2. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 626, Map 10.

CRONISIA

paradoxa (Wils. et Hook.) Berkeley — S. America (N of lat. 20°S): VITAL 1974b, p. 273.

CROSSIDIUM

squamiferum (Viv.) Jur. var. pottioideum (De Not.) Mönkem. — Europe and N. Africa: DELGADILLO 1975, p. 298, Fig. 120. NW. Africa and Canary Islands. DELGADILLO 1975, p. 298, Fig. 120. N. India and Afghanistan: DELGADILLO 1975, p. 298, Fig. 120. W. USA: DELGADILLO 1975, p. 298, Fig. 120.

var. squamiferum — Europe and N. Africa: DELGADILLO 1975, p. 298, Fig. 119. W. USA: DELGADILLO 1975, p. 298, Fig. 119. NW. Africa and Canary Islands: DELGADILLO 1975, p. 298, Fig. 119. India: DELGADILLO 1975, p. 298, Fig. 119.

CROSSOCALYX

hellerianus (Nees). Meylan — Poland: REJMENT-GROCHOWSKA 1958, p. 280, Fig. 2. Czechoslovakia: DUDA 1960, p. 33, Mapka 3. Poland: SZWEYKOWSKI 1971, Map H. 110. World: SZWEYKOWSKI 1971, Map H. 110. N. Hemisphere: SZWEYKOWSKI 1971, Map H. 110. Europe: SZWEYKOWSKI 1971, Map H. 110.

CRYPTOCHILA

seinsifolia (Hook. f. et Tayl.) Crolla — World: CROLLA 1971

(CRYPTOCHILA contin.)

grandiflora (Lindenb. et Gott.) Grolle -- World: GROLLE 1971, p. 18, Karte 1.

nigrescens (Steph.) Grolle -- World: GROLLE 1971, p. 18, Karte 1.

paludosa (Steph.) Grolle -- World: GROLLE 1971, p. 25, Karte 2.

pseudocclusa (Hodgs.) Schust. -- World: GROLLE 1971, p. 18, Karte 1.

spegazziniana (Spruce ex Mass.) Grolle -- World: GROLLE 1971, p. 25, Karte 2.

CRYPTOCOLEA

imbricata Schust. -- USA (Minn.): SCHUSTER 1953, p. 651, Pl. 95, No. 45. N. America: SCHUSTER 1958a, p. 289, Fig. 65. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 38.

CRYPTOTHALLUS

mirabilis von Malmberg -- The British Isles: WHITEHOUSE et al. 1968, p. 588; orig. J.H. Dickson. Norway: J.H. DICKSON 1969, p. 238, Fig. 1. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 72. N. Norway, N. Sweden, Finland and W. USSR: DICKSON, KOPONEN & ULVINEN 1975, p. 56, Kuva 3.

CUSPIDATULA

caledonica Steph. -- World: SCHUSTER 1972, p. 40, Fig. 13.

contracta (Nees) Steph. -- World: SCHUSTER 1972, p. 40, Fig. 13.

monodon (Hook. f. et Tayl.) Steph. -- World: GROLLE 1969b, p. 574, Fig. 7. World: SCHUSTER 1972, p. 40, Fig. 13.

vitiensis (Jack et Steph.) Steph. -- World: SCHUSTER 1972, p. 40, Fig. 13.

CYATHODIUM

africanum Mitt. -- S. America: VITAL 1974a, p. 140.

CYLINDROCOLEA

recurvifolia (Steph.) Inoue -- Japan: INOUE 1974b, p. 130, Pl. 65.

CYSTOLEJEUNEA

lineata (Lehm. et Lindenb.) Evans. -- The Antilles: JOVET-AST 1960, p. 130, Fig. 4.

DENOTARISIA

linguifolia (De Not.) Grolle — Madagascar, Asia, Australia and New Zealand: GROLLE 1971, Karte 7.

DICRANOLEJEUNEA

johnsoniana (Mitt.) Grolle — Portugal (Madeira): SJÖGREN 1975, p. 276, Fig. 13.

DIPLASIOLEJEUNEA

unidentata (Lehm. et Lindenb.) Schiffn. — The Antilles: JOVET-AST 1960, p. 130, Fig. 3.

DIPLOPHYLLUM

albicans (L.) Dum. — Norway: JÖRGENSEN 1934, Kartblad XVI c. Finland and W. USSR: Auer 1944, p. 32, Kartta 10. Europe and Asia Minor: K. MÜLLER 1951-57, p. 913, Fig. 326. Newfoundland: BUCH & TUOMIKOSKI 1955, p. 28, Map 4. E. Asia: HORIKAWA 1955a, p. 22, Map 8. Germany (Bayern): SCHMIDT 1958, p. 119, Fig. 1. Europe: PETROV 1958, p. 408. England (Hertfordshire): SWINSCOW 1959, p. 556, Map 5. Poland: SZWEYKOWSKI 1962, Map H. 162. World: SZWEYKOWSKI 1962, Map H. 162. N. Hemisphere: SZWEYKOWSKI 1962, Map H. 162. Europe: SZWEYKOWSKI 1962, Map H. 162. Europe: NEUMAYR 1971, p. 157, Abb. 35. England (Warwickshire): LAFLIN 1971, p. 697, Map 821. Corsica: BISCHLER & JOVET-AST 1973b, p. 135, Carte 2. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 45.

apiculatum (Evans) Steph. — USA (Minn.): SCHUSTER 1953, p. 653, Pl. 97, No. 57. N. America: SCHUSTER 1958a, p. 277, Fig. 46. N. America: SCHUSTER 1958b, p. 229, Fig. 13.

var. obtusatum Schust. — N. America: SCHUSTER 1958, p. 277, Fig. 46.

obtusifolium (Hook.) Dum. — Norway (S of lat. 64°N): JÖRGENSEN 1934, Kartblad XVI e. Europe: K. MÜLLER 1951-57, p. 913, Fig. 326. Germany (Bayern): SCHMIDT 1958, p. 119, Fig. 2. N. America: SCHUSTER 1958b, p. 229, Fig. 13. Japan (Honshu, Kii Peninsula): KODAMA 1970, p. 109, Map 9. Poland: SZWEYKOWSKI 1971, Map H. 164. World: SCHWEYKOWSKI 1971, Map H. 164. N. Hemisphere: SZWEYKOWSKI 1971, Map H. 164. Europe: SZWEYKOWSKI 1971, Map H. 164. Europe: NEUMAYR 1971, p. 142, Abb. 34. Germany (Schlesw.-Holst.): FRAHM & WALSEMANN 1973, p. 28. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 45.

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plicatum Lindb. — Japan: INOUE 1974b, p. 70, Pl. 35.

squarrosus Steph. — World: SCHUSTER 1969, p. 72, Map 20.

taxifolium (Wahlenb.) Dum. — USA (Minn.): SCHUSTER 1953, p. 653, Pl. 97, No. 58. Germany (Bayern): SCHMIDT 1958, p. 121, Fig. 3. The British Isles: WHITEHOUSE et al. 1970, p. 147; orig. J.G. Duckett. Japan (Honshu, Kii Peninsula): KODAMA 1970, p. 109, Map 9. Poland: SZWEYKOWSKI 1971, Map H. 163. World: SZWEYKOWSKI 1971, Map H. 163. N. Hemisphere: SZWEYKOWSKI 1971, Map H. 163. Europe: SZWEYKOWSKI 1971, Map H. 163. Corsica: BISCHLER & JOVET-AST 1973b, p. 149, Carte 16. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 45.

verrucosus Schust. — World: SCHUSTER 1969, p. 72, Map 20.

DOUINIA

ovata (Dicks.) Buch — Norden: BUCH 1928, p. 166, Fig. XXXVIII. Norway (S of lat. $68^{\circ}5'N$): E. JÖRGENSEN 1934, Kartblad XVI b. Europe: K. MÜLLER 1951-57, p. 913, Fig. 326. The British Isles: WHITEHOUSE et al. 1968, p. 591; orig. H.J.B. Birks. W. France: TOUFFET 1969b, p. 64, Fig. 30.

DREPANOLEJEUNEA

aculeata Bischl. — M. America and S. America (N of lat. $24^{\circ}S$): BISCHLER 1964, p. 168, Carte 3.

andina Herz. — M. America and S. America (N of lat. $24^{\circ}S$): BISCHLER 1964, p. 172, Carte 9.

anoplantha (Spruce) Steph. — M. America and S. America (N of lat. $24^{\circ}S$): BISCHLER 1964, p. 171, Carte 8.

appalachiana Schust. — America (between $35^{\circ}N - 24^{\circ}S$): BISCHLER 1964, p. 170, Carte 6.

araucariae Steph. var. araucariae — M. America and S. America (N of lat. $40^{\circ}S$): BISCHLER 1964, p. 171, Carte 7.

var. chilensis Herz. — M. America and S. America (N of lat. $24^{\circ}S$): BISCHLER 1964, p. 171, Carte 7.

aurita Bischl. — M. America and S. America (N of lat. $24^{\circ}S$): BISCHLER 1964, p. 172, Carte 9.

(DREPANOLEJEUNEA contin.)

bidens Steph. — N. and M. America: SHARP 1939, p. 335, Fig. 14.
America (between 35°N - 24°S): BISCHLER 1964, p. 170, Carte 6.

biocellata Evans — M. America and S. America (N of lat. 20°S):
BISCHLER 1964, p. 167, Carte 2.

campanulata (Spruce) Steph. — M. America and S. America (N of lat.
24°S): BISCHLER 1964, p. 168, Carte 3.

canceroides Miller et Bonner — Micronesia: MILLER, WHITTIER &
BONNER 1963, Pl. 25.

crassiretis Evans — M. America and S. America (N of lat. 24°S):
BISCHLER 1964, p. 171, Carte 8.

crucianella (Tayl.) Evans — M. America and S. America (N of lat.
24°S): BISCHLER 1964, p. 169, Carte 4.

dissitifolia Evans — M. America and S. America (N of lat. 40°S):
BISCHLER 1964, p. 171, Carte 7.

evansii Bischl. — M. America and S. America (N of lat. 24°S):
BISCHLER 1964, p. 168, Carte 3.

fragilis Bischl. — M. America and S. America (N of lat. 40°S):
BISCHLER 1964, p. 171, Carte 7.

granatensis Jack et Steph. — M. America and S. America (N of lat.
24°S): BISCHLER 1964, p. 172, Carte 9.

hamatifolia (Hook.) Schiffn. — The British Isles: WHITEHOUSE et al.
1964, p. 739; orig. M.C.F. Proctor. W. France: TOUFFET 1969b, p. 60,
Fig. 22. Portugal (Madeira): SJÖGREN 1975, p. 276, Fig. 14.

inchoata (Meissner) Steph. var. inchoata — M. America and S. America
(N of lat. 24°S): BISCHLER 1964, p. 167, Carte 1.

var. roraimae (Steph. ex Zweckel.) Bischl. — M. America and S. Ame-
rica (N of lat. 24°S): BISCHLER 1964, p. 167, Carte 1.

infundibulata (Spruce) Evans — M. America and S. America (N of lat.
20°S): BISCHLER 1964, p. 167, Carte 2.

integribracteata Bischl. — M. America and S. America (N of lat.
24°S): BISCHLER 1964, p. 171, Carte 8.

(DREPANOLEJEUNEA contin.)

japonica Horik. — S. Japan: MIZUTANI 1961, p. 288, Map 4 i.

lichenicola (Spruce) Steph. — M. America and S. America (N of lat. 24°S): BISCHLER 1964, p. 169, Carte 4.

mosenii (Steph.) Bischl. — M. America and S. America (N of lat. 40°S): BISCHLER 1968, p. 132, Carte 2.

navicularis Steph. — M. America and S. America (N of lat. 24°S): BISCHLER 1964, p. 172, Carte 9.

orthophylla (Nees et Mont.) Bischl. — M. America and S. America (N of lat. 40°S): BISCHLER 1968, p. 131, Carte 1.

palmifolia (Nees) Steph. — S. America (N of lat. 20°S): BISCHLER 1964, p. 169, Carte 5.

perissodonta (Spruce) Bischl. — M. America and S. America (N of lat. 24°S): BISCHLER 1964, p. 168, Carte 3.

pinnatiloba Schiffn. — M. America and S. America (N of lat. 24°S): BISCHLER 1964, p. 169, Carte 4.

pterocalyx (Herz.) Bischl. — M. America and S. America (N of lat. 40°S): BISCHLER 1968, p. 131, Carte 1.

pungens Bischl. — S. America (N of lat. 20°S): BISCHLER 1964, p. 169, Carte 5.

ramentiflora Steph. — M. America and S. America (N of lat. 20°S): BISCHLER 1964, p. 167, Carte 2.

senticosa Bischl. — M. America and S. America (N of lat. 24°S): BISCHLER 1964, p. 169, Carte 4.

spinosa Herz. — M. America and S. America (N of lat. 20°S): BISCHLER 1964, p. 167, Carte 2.

subdissitifolia Herz. — America (between 35°N - 24°S): BISCHLER 1964, p. 170, Carte 6.

tenuis (Reinw., Bl. et Nees) Steph. — E. Asia, Australia and America: HORIKAWA 1952, p. 80, Map 12. Japan and Formosa: HORIKAWA 1952, p. 79, Map 11. E. Asia: HORIKAWA 1955, p. 79, Map 27. Japan (excl. Hokkaido): MIZUTANI 1961, p. 288, Map 4 k.

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trematodes (Nees) Bischl. — M. America and S. America (N of lat. 40°S): BISCHLER 1968, p. 132, Carte 2.

trigonophylla Steph. — M. America and S. America (N of lat. 24°S): BISCHLER 1964, p. 168, Carte 3.

valiae Jov.-Ast. — M. America and S. America (N of lat. 24°S): BISCHLER 1964, p. 172, Carte 9.

yoshinagana (Steph.) Mizut. — S. Japan: MIZUTANI 1961, p. 288, Map 4 i.

DUMORTIERA

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ECHINOCOLEA

asperima (Spruce) Schust. — World: SCHUSTER 1972, p. 44, Fig. 15.

herzogii Mizut. et Grolle — World: SCHUSTER 1972, p. 44, Fig. 15.

EOISOTACHIS

nigella (Herz.) Schust. — World: SCHUSTER 1969, p. 52, Map 2.

stephanii (Salm.) Schust. — World: SCHUSTER 1969, p. 52, Map 2.

EOPLEUROZIA

paradoxa (Jack) Schust. — Indomalayan Islands, Australia and America: SCHUSTER 1972, p. 20, Fig. 7.

simplicissima (Herz.) Schust. — Indomalayan Islands, Australia and America: SCHUSTER 1972, p. 20, Fig. 7.

EREMONOTUS

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hyalina (Lyll) Breidler — Norway: JÖRGENSEN 1934, Kartblad VIII c.
subelliptica (Lindb.) Breidler — Norway: JÖRGENSEN 1934, Kartblad VIII b.

EXORMOTHECA

pustulosa Mitt. — Iberia and Morocco: V. ALLORGE & JOVET-AST 1958, p. 144, Map 5.

FIMBRIARIA

africana Mont. — Tunisia: JOVET-AST & BISCHLER 1972, p. 17, Carte 7. Corsica: BISCHLER & JOVET-AST 1973b, p. 141, Carte 8.

fragrans (Schleich.) Nees — Czechoslovakia: SUZA 1938, p. 55, Karte 6.

lindenbergiana Corda — Poland and Czechoslovakia (Tatry Mountains): SZWEYKOWSKI 1960b, Map 3.

saccata (Wahlenb.) Nees — Poland: KORNAŚ 1952, p. 2, Ryc. 1. M. Europe: KORNAŚ 1952, p. 9, Ryc. 3. S. Poland: BROWICZ & SZWEYKOWSKI 1958, p. 204, Fig. 1 and p. 206, Fig. 3. Poland: BROWICZ & SZWEYKOWSKI 1958, p. 214, Fig. 10.

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alaskana Steere et Inoue — Alaska: STEERE & INOUE 1974, p. 70, Fig. 27.

angulosa (Dicks.) Raddi — W. Europe and W. Africa: JOVET-AST 1946, p. 365. Europe, W. Asia and N. Africa: K. MÜLLER 1951-57, p. 540, Fig. 155. World: LADYZHENSKAJA 1956, p. 169. The British Isles: WHITEHOUSE et al. 1965, p. 876; orig. D.A. Ratcliffe. Egypt: JOVET-AST & BISCHLER 1971b, p. 273. Tunisia: JOVET-AST & BISCHLER 1972, p. 16, Carte 4. Sardinia: BISCHLER & JOVET-AST 1973a, p. 410, Carte 12. Corsica: BISCHLER & JOVET-AST 1973b, p. 148, Carte 15. Portugal: SÉRGIO 1974, p. 323, Carte 1.

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var. robusta Lindb. — World: LADYZHENSKAJA 1970b, p. 308.

echinata Macv. — Tunisia: JOVET-AST & BISCHLER 1972, p. 16, Carte 4. Sardinia: BISCHLER & JOVET-AST 1973a, p. 401, Carte 3. Corsica: BISCHLER & JOVET-AST 1973b, p. 142, Carte 9. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 624, Map 4. Portugal: SÉRGIO 1974, p. 323, Carte 2.

foveolata Lindb. — USA (Minn.): SCHUSTER 1953, p. 663, Pl. 107, No. 127. Alaska: STEERE & INOUE 1974, p. 70, Fig. 27.

husnotii Corb. — Portugal: SÉRGIO 1974, p. 324, Carte 3.

incurva Lindb. — Europe and W. Asia: K. MÜLLER 1951-57, p. 540, Fig. 155. Europe (N of lat. 46°N): K. MÜLLER 1954, p. 110, Fig. 1. Germany (Schlesw.-Holst.): N. JENSEN 1955, p. 92, Karte 11.

longiseta (Aust.) Aust. — World: LADYZHENSKAJA 1963, p. 166.

mittenii Tindall — Portugal: SÉRGIO 1974, p. 323, Carte 2.

pusilla (L.) Nees — England (Warwickshire): LAFLIN 1971, p. 693, Map 806. Tunisia (N. half): JOVET-AST & BISCHLER 1972, p. 18, Carte 13. Sardinia: BISCHLER & JOVET-AST 1973a, p. 409, Carte 11. Corsica: BISCHLER & JOVET-AST 1973b, p. 150, Carte 17. Portugal: SÉRGIO 1974, p. 324, Carte 4.

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var. decipiens Corb. — World: LADYZHENSKAJA 1970b, p. 308.

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wondraczekii (Corda) Dum. — Norway (S of lat. 66°N): JØRGENSEN 1934, Kartblad V d. NE. Germany: KÜHNER OCH PANKOW 1967, p. 172, Abb. 2. Portugal: SÉRGIO 1974, p. 324, Carte 4.

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amplicrania Steph. — Japan: KAMIMURA 1961, p. 96, Map 1.

aoshimensis Horik. — Japan: KAMIMURA 1961, p. 98, Map 11. Japan (Honshu, Kii Peninsula): KODAMA 1970, p. 102, Map 5.

asagrayana Mont. — USA (Minn.): SCHUSTER 1953, p. 661, Pl. 105, No. 117.

bolanderi Aust. — N. America: STEERE 1937b, p. 10, Fig. 5. USA (Minn.): SCHUSTER 1953, p. 661, Pl. 105, No. 121. N. America: SCHUSTER 1958a, p. 299, Fig. 77. N. America: SCHUSTER 1958b, p. 225, Fig. 12. World: LADYZHENSKAJA & ZINOVJEVA 1964, p. 270.

brittoniae Evans — USA (Minn.): SCHUSTER 1953, p. 662, Pl. 106, No. 126.

delavayi Steph. — Japan: KAMIMURA 1961, p. 97, Map 9.

densiloba Steph. ex Evans — Japan: KAMIMURA 1961, p. 97, Map 8.

dilatata (L.) Dum. — Denmark: KJ. HOLMEN et al. 1959, p. 120, Fig. 12; orig. Anker Pedersen. Israel: JOVET-AST & BISCHLER 1966, p. 108, Carte 4. England (Warwickshire): LAFLIN 1971, p. 698, Map 824. USSR (Moldavia): SIMONOV 1972, p. 17. Tunisia: JOVET-AST & BISCHLER 1972, p. 16, Carte 2. Sardinia: BISCHLER & JOVET-AST 1973a, p. 401, Carte 3. Corsica: BISCHLER & JOVET-AST 1973b, p. 149, Carte 16. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 626, Map 10.

var. anomala Corb. — W. Europe (S of lat. 60°N): ALBRECHT-ROHNER 1949, p. 152, Fig. 3.

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diversitexta Steph. — Japan: KAMIMURA 1961, p. 98, Map 11.

eboracensis Lehm. — USA (Minn.): SCHUSTER 1953, p. 662, Pl. 106, No. 125.

elongatistipula (Verd.) Hatt. — World: HATTORI 1972, p. 248.

fauriana Steph. — Japan: KAMIMURA 1961, p. 96, Map 4.

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franciscana Howe — World: HATTORI 1972, p. 248.

hamatiloba Steph. — Japan: KAMIMURA 1961, p. 96, Map 3.

hampeana Nees. — Japan: KAMIMURA 1961, p. 98, Map 11. Japan: (Kinki-district): KODAMA 1962, p. 161. Japan (Kinki-district): KODAMA 1963, p. 23. Japan (Honshu, Kii Peninsula): KODAMA 1970, p. 97, Map 3.

inflata Gott. s. lat. — USA (Minn.): SCHUSTER 1953, p. 661, Pl. 105, No. 122. N. America: SCHUSTER 1958a, p. 277, Fig. 47 (incl. F. catalinae Evans and F. mexicana Lindenb.).

itoana Kamim. — Japan: KAMIMURA 1961, p. 97, Map 8.

iwatsukii Hatt. — World: HATTORI 1972, p. 248.

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ssp. japonica (San. Lac.) Hatt. — Japan: KAMIMURA 1961, p. 96, Map 5. Japan (Kinki-district): KODAMA 1962, p. 161. Japan (Honshu, Kii Peninsula): KODAMA 1970, p. 103, Map 6.

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ssp. japonica (San. Lac.) Hatt. var. chichibuensis Kamim. — Japan: KAMIMURA 1961, p. 96, Map 5.

kagoshimensis Steph. — Japan: KAMIMURA 1961, p. 96, Map 4. Japan: INOUE 1974b, p. 142, Pl. 71.

mayebarae Hatt. — Japan: KAMIMURA 1961, p. 97, Map 9.

var. concava Kamim. — Japan: KAMIMURA 1961, p. 97, Map 9.

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motoyana Steph. — Japan: KAMIMURA 1961, p. 97, Map 8.

muscicola Steph. — SE. Asia: INOUE 1970, p. 361, Fig. 2.

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oakesiana Aust. — Norway (S of lat. 62°N): JÖRGENSEN 1934, Kartblad XXII f. USA (Minn.): SCHUSTER 1953, p. 661, Pl. 105, No. 119. N. America: SCHUSTER 1958a, p. 279, Fig. 53.

osumiensis (Hatt.) Hatt. — Japan: KAMIMURA 1961, p. 98, Map 11.

pedicellata Steph. — Japan: KAMIMURA 1961, p. 96, Map 1.

polysticta Lindenb. in Gott. et al. — World: HATTORI 1972, p. 248. World: HOLMEN & RASMUSSEN 1972, p. 115, Fig. 4. Portugal (Madeira): SJÖGREN 1975, p. 277, Fig. 16.

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sakawana Steph. — Japan: KAMIMURA 1961, p. 98, Map 12. Japan: KODAMA 1970, p. 104, Map 7. Japan (Honshu, Kii Peninsula) KODAMA 1970, p. 104, Map 7.

saxicola Aust. — USA (Minn.): SCHUSTER 1953, p. 662, Pl. 106, No. 123. N. America: SCHUSTER 1958a, p. 277, Fig. 47.

schensiana Mass. — Japan: KAMIMURA 1961, p. 96, Map 3.

selwyniana Pears. — USA (Minn.): SCHUSTER 1953, p. 661, Pl. 105, No. 118.

squarrosa (Reinw., Bl. et Nees) Nees — USA (Minn.): SCHUSTER 1953, p. 661, Pl. 105, No. 120. Japan: KAMIMURA 1961, p. 98, Map 11.

takayuensis Steph. — Japan: KAMIMURA 1961, p. 97, Map 9.

tamarisci (L.) Dum. — Norway: JÖRGENSEN 1934, Kartblad XXII b. Denmark: KJ. HOLMEN et al. 1959, p. 120, Fig. 10; orig. Anker Pedersen. N. Germany: PANKOW & KÜHNER 1967, Tab. 17. World: HATTORI 1972, p. 248. World: HOLMEN & RASMUSSEN 1972, p. 115, Fig. 4. Tunisia: JOVET-AST & BISCHLER 1972, p. 17, Carte 5. Sardinia: BISCHLER & JOVET-AST 1973a, p. 409, Carte 11. Corsica: BISCHLER & JOVET-AST 1973b, p. 139, Carte 6. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 626, Map 12.

ssp. asagrayana (Mont.) Hatt. — World: HATTORI 1972, p. 248.

ssp. moniliata (Reinw., Bl. et Nees) Kamim. — Japan: KAMIMURA 1961, p. 97, Map 7.

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taradakensis Steph. — Japan: KAMIMURA 1961, p. 96, Map 4.

teneriffae (F. Web.) Nees — World: HATTORI 1972, p. 248. World: HOLMEN & RASMUSSEN 1972, p. 115, Fig. 4.

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usamiensis Steph. — Japan: KAMIMURA 1961, p. 96, Map 4.

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uvifera Horik. — Japan: KAMIMURA 1961, p. 97, Map 8.

valida Steph. — Japan: KAMIMURA 1961, p. 96, Map 3.

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hariotiana (Besch. et Mass.) Grolle — World: SCHUSTER 1969, p. 54, Map 6.

ljungeri (Herz.) Grolle — World: SCHUSTER 1969, p. 54, Map 6.

magellanica (Lam.) Trev. — World: SCHUSTER 1969, p. 54, Map 6.

patagonica (Steph.) Grolle — World: SCHUSTER 1969, p. 54, Map 6.

schwabei (Herz.) Grolle — World: SCHUSTER 1969, p. 54, Map 6.

weindorferi (Herz.) Grolle — World: SCHUSTER 1969, p. 54, Map 6.

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caledonicus Steph. — World: INOUE 1974b, p. 88, Pl. 44.

graveolens (Schrader) Nees — Norway: JÖRGENSEN 1934, Kartblad XXV d. USA (Minn.): SCHUSTER 1953, p. 652, Pl. 96, No. 56. The British Isles: WHITEHOUSE et al. 1964, p. 737; orig. H. Milne-Redhead. Poland: SZWEYKOWSKI & KOŻLIĆKA 1974, Map H. 201. World: SZWEYKOWSKI & KOŻLIĆKA 1974, Map H. 201. N. Hemisphere: SZWEYKOWSKI & KOŻLIĆKA 1974, Map H. 201. Europe: SZWEYKOWSKI & KOŻLIĆKA 1974, Map H. 201. World: INOUE 1974b, p. 88, Pl. 44. NE. Sweden, Finland and W. USSR: JÄRVINEN 1975, p. 17, Fig. 3.

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novaezealandiae Herz. — World: INOUE 1974b, p. 88, Pl. 44.

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cornigera (Mitt.) Steph. — World: SCHUSTER 1969, p. 52, Map 3.

GOEBELOBRYUM

grossitextum (Steph.) Grolle — World: SCHUSTER 1969, p. 54, Map 5.

unguiculatum (Hook. f. et Tayl.) Grolle — World: SCHUSTER 1969, p. 54, Map 5.

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ericetorum (Raddi) Nees — Tunisia (N. half): JOVET-AST & BISCHLER 1972, p. 18, Carte 11. Sardinia: BISCHLER & JOVET-AST 1973a, p. 403, Carte 5. Corsica: BISCHLER & JOVET-AST 1973b, p. 142, Carte 9. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 623, Map 2. The British Isles: WHITEHOUSE et al. 1975, p. 387.

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dichotoma Raddi — Europe, W. Asia and N. Africa: K. MÜLLER 1939-40, p. 232, Fig. 36. Europe, W. Asia and N. Africa: K. MÜLLER 1951-57, p. 343, Fig. 61. W. France: TOUFFET 1969b, p. 57, Fig. 16. Egypt: JOVET-AST & BISCHLER 1971b, p. 273. Europe, W. Asia and N. Africa: NEUMAYR 1971, p. 107, Abb. 26. Tunisia: JOVET-AST & BISCHLER 1972, p. 16, Carte 3. Sardinia: BISCHLER & JOVET-AST 1973a, p. 404, Carte 6. Corsica: BISCHLER & JOVET-AST 1973b, p. 138, Carte 5. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 625, Map 9.

fragrans (Balbis) Corda — Norway (S of lat. 62°N): JÖRGENSEN 1934, Kartblad I c. Czechoslovakia: SUZA 1935, p. 482, Karte 20. Czechoslovakia: SUZA 1938, p. 43, Karte 5. Europe and W. Asia: K. MÜLLER 1939-40, p. 232, Fig. 36. Germany (Fränkischen Alb, Bayer. Ostmark): GAUCKLER 1940, p. 71, Karte 2. Europe and W. Asia: K. MÜLLER 1951-57, p. 343, Fig. 61. Poland: KORNAŚ 1952, p. 2, Ryc. 1. M. Europe: KORNAŚ 1952, p. 8, Ryc. 2. S. Poland: BROWICZ & SZWEYKOWSKI 1958, p. 204, Fig. 1, p. 206, Fig. 3 and p. 208, Fig. 5. Poland: BROWICZ & SZWEYKOWSKI 1958, p. 214, Fig. 10. M. Poland: PALKOWA & KUC 1959, p. 315, Fig. 1. Poland, E. Germany and S. Sweden: FILIPEK & SZWEYKOWSKI 1960, p. 598, Fig. 1. Poland (Lower Oder): FILIPEK & SZWEYKOWSKI 1960, p. 599, Fig. 2. Czechoslovakia: SMARDA 1961, p. 8, Mapka 1. Poland: SZWEYKOWSKI 1962, Map H. 7. World: SZWEYKOWSKI 1962, Map H. 7. N. Hemisphere: SZWEYKOWSKI 1962, Map H. 7. Europe:

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pilosa (Hornem) Lindb. — Europe and W. Asia: K. MÜLLER 1951-57, p. 343, Fig. 61.

rupestris Lindenb. — Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 624, Map 6.

sibirica (K. Müll.) K. Müll. — Norway (S of lat. 62°N): JÖRGENSEN 1934, Kartblad I c. Europe and Asia: GAMS 1938, p. 60, Fig. 1.

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acutiloba (Schiffn.) K. Müll. — Norway (S of lat. 66°N): JÖRGENSEN 1934, Kartblad XV c. Alaska (Latouche Island): SHACKLETTE 1961, p. 2, Fig. 1. Poland: SZWEYKOWSKI 1969, Map H. 105. World: SZWEYKOWSKI 1969, Map H. 105. N. Hemisphere: SZWEYKOWSKI 1969, Map H. 105. Europe: SZWEYKOWSKI 1969, Map H. 105.

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var. heterostipa (Carring. et Spruce) K. Müll. — USA (Minn.): SCHUSTER 1953, p. 650, Pl. 94, No. 37.

soerensenii Kaal. — Norway (S of lat. 62°N): JÖRGENSEN 1934, Kartblad XX f.

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altissimum Schust. — World: SCHUSTER 1969, p. 68, Map 18.

andinum Schust. — World: SCHUSTER 1969, p. 68, Map 18.

apiculatum (Schiffn.) K. Müll. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 43.

concinatum (Lightf.) Corda — N. Norway, N. Sweden, Finland and W. USSR: HAAPASAARI 1966, p. 218, Fig. 2. W. Greenland: SCHUSTER &

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corallioides Nees — N. Norway, N. Sweden, Finland and W. USSR: HAAPASAARI 1966, p. 212, Fig. 1. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 44. Japan: INOUE 1974b, p. 64, Pl. 32.

crenulatilobum Grolle — World: SCHUSTER 1969, p. 68, Map 18.

crenulatum Gott. ex Carring. — The British Isles: GREIG-SMITH 1950, p. 334, Fig. 6. The British Isles: WHITEHOUSE et al. 1965, p. 877; orig. M.C.F. Proctor. N. Hemisphere: GROLLE 1966, p. 91, Abb. 3. World: SCHUSTER 1969, p. 68, Map 18.

cuspidatum (Berggr.) Schust. — World: SCHUSTER 1969, p. 68, Map 18.

incompletum (Gott.) Schust. -- World: SCHUSTER 1969, p. 68, Map 18.

laceratum (Steph.) Horik. — World: SHARP & HATTORI 1967, p. 106, Map 1. World: SCHUSTER 1969, p. 68, Map 18.

obtusum (Lindb.) Pears. -- N. Norway, N. Sweden, Finland and W. USSR: HAAPASAARI 1966, p. 223, Fig. 3.

pacificum Grolle — N. Hemisphere: GROLLE 1966, p. 91, Abb. 3. World: SCHUSTER 1969, p. 68, Map 18.

sinense K. Müll. — N. Hemisphere: GROLLE 1966, p. 91, Abb. 3. World: SCHUSTER 1969, p. 68, Map 18.

strictum (Berggr.) Schust. — World: SCHUSTER 1969, p. 68, Map 18.

HAPLOMITRIUM

andinum (Spruce) Schust. — World: SCHUSTER 1972, p. 36, Fig. 11.

blumei (Nees) Steph. — World: SCHUSTER 1972, p. 36, Fig. 11.

chilense Schust. -- World: SCHUSTER 1972, p. 36, Fig. 11.

gibbsiae (Steph.) Schust. — World: SCHUSTER 1972, p. 36, Fig. 11.

giganteum (Steph.) Grolle — World: SCHUSTER 1972, p. 36, Fig. 11.

hookeri (Sm.) Nees — Germany (Schlesw.-Holst.): N. JENSEN 1955, p. 92, Karte 12. Norden: SJÖGREN 1955, p. 331, Fig. 1. Poland and Czechoslovakia (Tatry Mountains): SZWEYKOWSKI 1960b, Map 4. Poland: SZWEYKOWSKI 1962, Map H. 59. World: SZWEYKOWSKI 1962, Map H. 59. N. Hemisphere: SZWEYKOWSKI 1962, Map H. 59. Europe: SZWEYKOWSKI 1962, Map H. 59. N. Germany: PANKOW & KÜHNER 1967, Tab. 14. Czecho-

(HAPLOMITRIUM contin.)

N. America (W. part): WORLEY 1969, p. 226, Fig. 1. The British Isles: WHITEHOUSE et al. 1970, p. 142; orig. M.F.V. Corley. World: INOUE 1971, p. 355, Fig. 2. World: SCHUSTER 1972, p. 36, Fig. 11. World: SCHOFIELD & CRUM 1972, p. 193, Map 39. Norway: HÜLLAND & PEDERSEN 1975, p. 58, Fig. 3.

indicum (Udar et Chand.) Schust. — World: SCHUSTER 1972, p. 36, Fig. 11.

intermedium Berrie — World: SCHUSTER 1972, p. 36, Fig. 11.

nnioides (Lindb.) Schust. — World: SCHUSTER 1972, p. 36, Fig. 11. Japan: INOUE 1974b, p. 2, Pl. 1.

ovalifolium chust. — World: SCHUSTER 1972, p. 36, Fig. 11.

HARPALEJEUNEA

ovata (Hook.) Schiffn. — Norway (S of lat. 62°N): JÖRGENSEN 1934, Kartblad XXII e. Corsica: BISCHLER & JOVET-AST 1973b, p. 148, Carte 15. Iberia: BRUGUES, CASAS DE PUIG & CROS 1974, p. 114, Fig. 3. Portugal (Madeira): SJÖGREN 1975, p. 278, Fig. 17.

uncinata Steph. — The Antilles: JOVET-AST 1960, p. 130, Fig. 3.

HARPANTHUS

flotovianus (Nees) Nees — Poland: SZWEYKOWSKI 1971, Map H. 199. World: SZWEYKOWSKI 1971, Map H. 199. N. Hemisphere: SZWEYKOWSKI 1971, Map H. 199. Europe: SZWEYKOWSKI 1971, Map H. 199. NE. Sweden, Finland and W. USSR: JÄRVINEN 1975, p. 17, Fig. 1.

scutatus (Web. et Mohr) Spruce — Norway (S of lat. 65°N): JÖRGENSEN 1934, Kartblad XXIV h. USA (Minn.): SCHUSTER 1953, p. 652, Pl. 96, No. 55. The British Isles: WHITEHOUSE et al. 1966, p. 157; orig. H. Milne-Redhead. Poland: SZWEYKOWSKI 1971, Map H. 200. World: SZWEYKOWSKI 1971, Map H. 200. N. Hemisphere: SZWEYKOWSKI 1971, Map H. 200. Europe: SZWEYKOWSKI 1971, Map H. 200. Finland and W. USSR: JÄRVINEN 1975, p. 17, Fig. 2.

HATTORIA

herzogii (Hatt.) Kamim. — Japan: KAMIMURA 1961, p. 97, Map 10.

yakushimensis (Horik.) Schust. — Japan: INOUE 1974b, p. 42, Pl. 21.

HERBERTA

aduncus (Dicks.) S. Gray — Norway (S of lat. 62°N): JÖRGENSEN 1934, Kartblad XXV e. The British Isles: GREIG-SMITH 1950, p. 331, Fig. 3. The British Isles, Faroes, and S. Norway: GAMS 1952, p. 155, Fig. 4. The British Isles: WHITEHOUSE et al. 1965, p. 878; orig. D.A. Ratcliffe. World: SCHUSTER 1972, p. 47, Fig. 19.

ssp. hutchinsiae (Gott.) Mill. — World: SCHUSTER 1972, p. 47, Fig. 19.

ssp. schusteri (Mill. et Scott.) Mill. — World: SCHUSTER 1972, p. 47, Fig. 19.

ssp. tenuis (Evans) Mill. et Scott — World: SCHUSTER 1972, p. 47, Fig. 19.

hutchinsiae (Gott.) Evans — Norway (S of lat. 64°N): JÖRGENSEN 1934, Kartblad XXV a. The British Isles: GREIG-SMITH 1950, p. 331, Fig. 3. The British Isles, Faroes and S. Norway: GAMS 1952, p. 155, Fig. 4. The British Isles: WHITEHOUSE et al. 1965, p. 879; orig. D.A. Ratcliffe. World: SCHUSTER 1972, p. 47, Fig. 19.

sakuraii (Warnst.) Hatt. — World: SCHUSTER 1972, p. 47, Fig. 19. Japan: INOUE 1974b, p. 4, Pl. 2.

ssp. hutchinsiae (Gott.) Schust. — N. Hemisphere: SCHUSTER 1957, p. 144, Fig. 5.

ssp. sakuraii — N. Hemisphere: SCHUSTER 1957, p. 144, Fig. 5.

ssp. tenuis (Evans) Schust. — N. Hemisphere: SCHUSTER 1957, p. 144, Fig. 5.

sendtneri (Nees) Lindb. — Austria: K. MÜLLER 1951-57, p. 566, Fig. 161. M. Europe (the Alps): GAMS 1952, p. 1952, p. 159, Fig. 5.

tenuis Evans — World: SCHUSTER 1972, p. 47, Fig. 19.

HERZOGIANTHUS

vaginatus (Herz.) Schust. — World: SCHUSTER 1969, p. 52, Map 1.

HERZOGIARIA

teres (Steph.) Fulf. — World: SCHUSTER 1969, p. 54, Map 4.

HERZOGOBYRUM

atrocapillaceum (Hook. f. et Tayl.) Grolle — World: SCHUSTER 1969,

(HERZOGOBRYUM contin.)

erosum (Carring. et Pears.) Grolle — World: SCHUSTER 1969, p. 68, Map 17.

molle Grolle — World: SCHUSTER 1969, p. 68, Map 17.

teres (Carring. et Pears.) Grolle — World: SCHUSTER 1969, p. 68, Map 17. World: GROLLE 1969b, p. 572, Fig. 6.

vermiculare (Schiffn.) Grolle — World: SCHUSTER 1969, p. 68, Map 17. World: GROLLE 1969b, p. 572, Fig. 6.

HETEROSCYPHUS

bescherellei (Steph.) Hatt. — Japan: INOUE 1974b, p. 82, Pl. 41.

planus (Mitt.) Schiffn. — Japan: INOUE 1974b, p. 84, Pl. 42.

HYGROBIELLA

laxifolia (Hook.) Spruce — World: SCHUSTER 1972, p. 49, Fig. 21.

W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 62. Japan: INOUE 1974b, p. 124, Pl. 62.

HYGROLEMBIDIUM

acrocladum (Berggr.) Schust. — World: SCHUSTER 1969, p. 58, Map 7.

andinum (Herz.) Schust. — World: SCHUSTER 1969, p. 58, Map 7.

australe (Steph.) Grolle — World: SCHUSTER 1969, p. 58, Map 7.

boschianum (San. Lac.) Schust. — World: SCHUSTER 1969, p. 58, Map 7.

isophyllum Schust. — World: SCHUSTER 1969, p. 58, Map 7.

ventrosum (Mitt.) Schust. — World: SCHUSTER 1969, p. 58, Map 7.

HYMENOPHYTUM

flabellatum (La Bill.) Dum. — Asia, Australia and America: W. TROLL 1932, Karte 45.

malaccense Steph. — Asia, Australia and America: W. TROLL 1932, Karte 45.

marginatum Steph. — Asia, Australia and America: W. TROLL 1932, Karte 45.

phyllanthus (Hook.) Steph. — Asia, Australia and America: W. TROLL 1932, Karte 45.

ISOLEMBIDIUM

cucullatum (Hodgs.) Schust. — World: SCHUSTER 1969, p. 58, Map 7.

ISOPACHES

bicrenatus (Schmid.) Buch — Corsica: BISCHLER & JOVET-AST 1973b, p. 142, Carte 9.

decolorans (Limpr.) Buch — Europe and Asia: LADYZHENSKAJA & ZHUKOVA 1971, p. 311.

ISOPHYLLARIA

murrayana Hodgs. et Allis. — World: SCHUSTER 1969, p. 54, Map 4.

ISOTACHIS

auberti (Schwaeg.) Mitt. — M. and S. America: HATCHER 1961, Pl. 29.

erythrorhiza (Lehm. et Lindenb.) Spruce — M. and S. America: HATCHER 1961, Pl. 30.

fragilis Steph. — M. and S. America: HATCHER 1961, Pl. 29.

grossidens Steph. — M. and S. America: HATCHER 1961, Pl. 29.

haematodes (Lehm. et Lindenb.) Gott. — M. and S. America: HATCHER 1961, Pl. 29.

inflata Steph. — M. and S. America: HATCHER 1961, Pl. 29.

japonica Steph. — E. Asia: HORIKAWA 1972, Map 491. Japan: INOUE 1974b, p. 8, Pl. 4. E. Asia. INOUE 1974b, p. 10, Pl. 5.

lacustris Herz. — M. and S. America: HATCHER 1961, Pl. 30.

lindigiana Gott. — M. and S. America: HATCHER 1961, Pl. 29.

madida (Tayl.) Mitt. — M. and S. America: HATCHER 1961, Pl. 29.

multiceps (Lindenb. et Gott.) Gott. — M. and S. America: HATCHER 1961, Pl. 30.

obtusa Steph. — M. and S. America: HATCHER 1961, Pl. 30.

obtusiloba Herz. — M. and S. America: HATCHER 1961, Pl. 29.

serrulata (Sw.) Gott. — M. and S. America: HATCHER 1961, Pl. 29.

spgazziniana Mass. — M. and S. America: HATCHER 1961, Pl. 29.

splendens Steph. — M. and S. America: HATCHER 1961, Pl. 30.

tenax Steph. — M. and S. America: HATCHER 1961, Pl. 30.

JACKIELLA

javanica Schiffn. — Japan: INOUE 1974b, p. 132, Pl. 66. World: INOUE 1974b, p. 134, Pl. 67.

JAMESONIELLA

autumnalis (DC.) Steph. — USA (Minn.): SCHUSTER 1953, p. 650, Pl. 94, No. 38. Japan: AMAKAWA 1960, p. 75, Map 2. Czechoslovakia: DUDA & VÁNA 1970b, p. 28, Karte 122; orig. J. Vána. Poland: SZWEYKOWSKI 1971, Map H. 155. World: SZWEYKOWSKI 1971, Map H. 155. N. Hemisphere: SZWEYKOWSKI 1971, Map H. 155. Europe: SZWEYKOWSKI 1971, Map H. 155. World: GROLLE 1971, p. 65, Karte 5. The British Isles: WHITEHOUSE et al. 1975, p. 385.

carringtonii (Balf.) Spruce — The British Isles: WHITEHOUSE et al. 1963, p. 508; orig. D.A. Ratcliffe.

colorata (Lehm.) Spruce — World: GROLLE 1971, p. 75, Karte 6.

dependula (Tayl.) Steph. — World: GROLLE 1971, p. 75, Karte 6.

elongella (Tayl.) Steph. — World: GROLLE 1971, p. 65, Karte 6.

flexicaulis (Nees) Schiffn. — Madagascar, Asia, Australia and New Zealand: GROLLE 1971, Karte 8.

kirikii Steph. — Madagascar, Asia, Australia and New Zealand: GROLLE 1971, Karte 8.

nipponica Hatt. — World: GROLLE 1971, p. 65, Karte 5.

orbicularis Grolle — Madagascar, Asia, Australia and New Zealand: GROLLE 1971, Karte 8.

purpurascens Steph. — World: GROLLE 1971, p. 56, Karte 4.

robusta (Aust.) Spruce — Madagascar, Asia, Australia and New Zealand: GROLLE 1971, Karte 8.

rubricaulis (Nees) Grolle — World: GROLLE 1971, p. 75, Karte 6.

schraderi Schiffn. — Norway (S of lat. 62°N): JÖRGENSEN 1934, Kartblad IX f.

subapicalis (Nees) Schiffn. — Norway (S of lat. 62°N): JÖRGENSEN 1934, Kartblad IX j.

tasmanica (Hook.f.et Tayl.) Steph. — World: GROLLE 1971, p. 56,

(JAMESONIELLA contin.)

undata (Mont.) Steph. — World: GROLLE 1971, p. 75, Karte 6.

undulifolia (Nees) K. Müll. — Czechoslovakia: DUDA & VÁNA 1969a, p. 22, Karte 123; orig. J. Vána, Poland: SZWEYKOWSKI 1971, Map H. 156. World: SZWEYKOWSKI 1971, Map H. 156. N. Hemisphere: SZWEYKOWSKI 1971, Map H. 156. Europe: SZWEYKOWSKI 1971, Map H. 156. Europe, Asia and Africa: GROLLE 1971, p. 38, Karte 3. N. America and Greenland: SCHOFIELD 1972, p. 1121, Fig. 9.

JUBULA

hutchinsiae (Hook.) Dum. — The British Isles: WHITEHOUSE et al. 1963, p. 509; orig. A.J.E. Smith. W. France: TOUFFET 1969b, p. 58, Fig. 18.

ssp. javanica (Steph.) Verd. — Japan and Formosa: HORIKAWA 1952, p. 64, Map 2. Japan: KAMIMURA 1961, p. 97, Map 10.

japonica Steph. — Japan: KAMIMURA 1961, p. 97, Map 10. Japan: MIZUTANI 1961, p. 286, Map 2b. Japan: INOUE 1974b, p. 144, Pl. 72.

javanica Steph. — Japan: MIZUTANI 1961, p. 286, Map 2b.

JUBULOPSIS

novazelandiae (Hodgs. et Arn.) Schust. — World: SCHUSTER 1972, p. 46, Fig. 18.

JUNGERMANNIA

amakawana Grolle — Czechoslovakia: DUDA & VÁNA 1969a, p. 30, Karte 145A; orig. J. Vána. World: VÁNA 1969b, p. 310, Karte 1.

atrovirens Dum. — Japan: AMAKAWA 1960, p. 80, Map 5. Czechoslovakia: DUDA & VÁNA 1969b, p. 110, Karte 147; orig. J. Vána.

boninensis (Horik.) Inoue — Japan: INOUE 1974b, p. 54, Pl. 27.

caespiticia Lindenb. — Czechoslovakia: DUDA & VÁNA 1970c, p. 163, Karte 151; orig. J. Vána. Germany (Schlesw.-Holst.): FRAHM & WALSE-MANN 1973, p. 26.

comata Nees — Japan: AMAKAWA 1960, p. 75, Map 1.

cordifolia Hook. — Scandinavia, Finland and W. USSR: T. ULVINEN 1959, p. 109, Abb. 2. Czechoslovakia: DUDA & VÁNA 1969b, p. 117, Karte 150; orig. J. Vána. Japan: INOUE 1974b, p. 50, Pl. 25.

(JUNGERMANNIA contin.)

ssp. exsertifolia (Steph.) Amak. — Japan: AMAKAWA 1960, p. 80, Map 5.

erecta (Amak.) Amak. — Japan: AMAKAWA 1960, p. 80, Map 6.

faurieana P. Beauv. — Japan: AMAKAWA 1960, p. 77, Map 3.

gracillima Sm. — Czechoslovakia: DUDA & VÁNA 1971b, p. 101, Karte 152; orig. J. Vána.

hattoriana (Amak.) Amak. — Japan: AMAKAWA 1960, p. 77, Map 4.

hattorii Amak. — Japan: AMAKAWA 1960, p. 80, Map 6.

horikawana (Amak.) Amak. — Japan: AMAKAWA 1960, p. 82, Map 8.

hyalina Lyell in Hook. — Czechoslovakia: DUDA & VÁNA 1971a, p. 38, Karte 157; orig. J. Vána.

infusca (Mitt.) Steph. — Japan: INOUE 1974b, p. 52, Pl. 26.

var. infusca — Japan: AMAKAWA 1960, p. 82, Map 8.

var. ovalifolia (Amak.) Amak. — Japan: AMAKAWA 1960, p. 82, Map 8.

var. ovicalyx (Steph.) Amak. — Japan: AMAKAWA 1960, p. 82, Map 8.

jenseniana Grolle — Czechoslovakia: DUDA & VÁNA 1970c, p. 166, Karte 155; orig. J. Vána.

karl-meulleri Grolle — World: VÁNA 1969a, Fig. 2. Czechoslovakia: DUDA & VÁNA 1969b, p. 118, Karte 150A; orig. J. Vána.

koreana (Steph.) Amak. — Japan: AMAKAWA 1960, p. 77, Map 3.

lanceolata L. — Norway: JØRGENSEN 1934, Kartblad IX c. USA (Minn.): SCHUSTER 1953, p. 650, Pl. 94, No. 39. W. France: TOUFFET 1969b, p. 51, Fig. 3.

ssp. stephanii Amak. — Japan: AMAKAWA 1960, p. 75, Map 2.

leiantha Grolle — Poland: SZWEYKOWSKI 1969, Map H. 137. World: SZWEYKOWSKI 1969, Map H. 137. N. Hemisphere: SZWEYKOWSKI 1969, Map H. 137. Europe: SZWEYKOWSKI 1969, Map H. 137. Czechoslovakia: DUDA & VÁNA 1969a, p. 23, Karte 145; orig. J. Vána.

levieri (Steph.) Buch — Czechoslovakia: DUDA & VÁNA 1970c, p. 164, Karte 153; orig. J. Vána.

(JUNGERMANNIA contin.)

obovata Nees — Czechoslovakia: DUDA & VÁNA 1971a, p. 33, Karte 156; orig. J. Vána.

phlagiochiloides Amak. — Japan: INOUE 1974b, p. 56, Pl. 28.

polaris Lindb. — N. America and Greenland: SCHUSTER 1958, p. 297, Fig. 74. N. America and Greenland: SCHUSTER 1958b, p. 222, Fig. 11. Czechoslovakia: DUDA & VÁNA 1969b, p. 115, Karte 149; orig. J. Vána.

pumila With. — Japan: AMAKAWA 1960, p. 75, Map 1. Czechoslovakia: DUDA & VÁNA 1969b, p. 112, Karte 148; orig. J. Vána. W. France: TOUFFET 1969b, p. 50, Fig. 1.

pusilla (C. Jens.) Buch — Japan: AMAKAWA 1960, p. 75, Map 1.

pyriflora Steph. — Japan: AMAKAWA 1960, p. 77, Map 4.

rosulans (Steph.) Steph. — Japan: AMAKAWA 1960, p. 80, Map 6.

schiffneri (Loitlesb.) Evans — N. America: STEERE 1937b, p. 10, Fig. 4. N. America and Greenland: SCHUSTER 1958b, p. 222, Fig. 11.

sphaerocarpa Hook. — Japan: AMAKAWA 1960, p. 75, Map 1. Czechoslovakia: DUDA & VÁNA 1970a, p. 67, Karte 154; orig. J. Vána.

var. lurida (Dum.) Pears. — Czechoslovakia: DUDA & VÁNA 1970a, p. 76, Karte 154a.

subelliptica (Lindb. ex Kaal.) Levier — Czechoslovakia: DUDA & VÁNA 1970c, p. 168, Karte 158.

subulata Evans — Japan: INOUE 1974b, p. 48, Pl. 24.

tetragona Lindenb. — Japan: AMAKAWA 1960, p. 75, Map 1.

thermarum Steph. — Japan: AMAKAWA 1960, p. 80, Map 7.

torticalyx Steph. — Japan: AMAKAWA 1960, p. 77, Map 3.

tristis Nees — Japan: AMAKAWA 1960, p. 80, Map 5. Czechoslovakia: DUDA & VÁNA 1969b, p. 106, Karte 146; orig. J. Vána.

tsukushiensis (Amak.) Amak. — Japan: AMAKAWA 1960, p. 75, Map 1.

virgata (mitt.) Steph. — Japan: AMAKAWA 1960, p. 80, Map 6.

KURZIA

makinoana (Steph.) Grolle — Japan: INOUE 1974b, p. 30, Pl. 15.

pauciflora (Dicks.) Grolle — Germany (Thüringen): MEINUNGER 1975, p. 223, Karte 1.

trichoclados (K. Müll.) Grolle — Germany (Thüringen): MEINUNGER 1975, p. 223, Karte 1.

LEIOCOLEA

badensis (Gott. ex Rabenh.) Jörg. — Norway: JÖRGENSEN 1934, Kartblad XIII b.

bantriensis (Hook.) Jörg. var. subcompressa (Limpr.) Lindb. — Norway: JÖRGENSEN 1934, Kartblad XIII c.

heterocolpos (Thed.) Buch — M. Europe: SZWEYKOWSKI 1957, p. 116, Ryc. 1. The British Isles: WHITEHOUSE et al. 1968, p. 590; orig. H. Milne-Redhead.

var. arctica (S. Arn.) Mårtensson — Poland and Czechoslovakia (Tatry Mountains): SZWEKOWSKI 1960b, Map 4.

kaurinii (Limpr.) Jörg. — Norway: JÖRGENSEN 1934, Kartblad XII e. Finland and W. USSR: AUER 1944, p. 17, Kartta 5. Finland (Kuusamo): AUER 1944, p. 17, Kartta 6.

mülleri (Nees) Jörg. — Sardinia: BISCHLER & JOVET-AST 1973a, p. 404, Carte 6. Corsica: BISCHLER & JOVET-AST 1973b, p. 143, Carte 10. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 624, Map 6.

rutheana (Limpr.) K. Müll. — Europe (N of lat. 46°N): K. MÜLLER 1954, p. 110, Fig. 1. Sweden (Vrm.): FRANSSON 1972, p. 114, Map 90. Iceland: DIERSSEN 1973, p. 100.

schulzii (Nees) Jörg. — Norway: JÖRGENSEN 1934, Kartblad XII f.

turbinata (Raddi) Buch — England (Warwickshire): LAFLIN 1971, p. 694, Map 809. Tunisia: JOVET-AST & BISCHLER 1972, p. 16, Carte 2. Corsica: BISCHLER & JOVET-AST 1973b, p. 150, Carte 17. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 624, Map 4.

LEJEUNEA

aloboidea Miller et Bonner — Micronesia: MILLER, WHITTIER & BONNER 1963, Pl. 25.

(LEJEUNEA contin.)

aquatica Horik. — Japan: MIZUTANI 1961, p. 288, Map 4j. Japan, Korea and Formosa: INOUE 1970, p. 360, Fig. 1.

boninensis Horik. — S. Japan: MIZUTANI 1961, p. 287, Map 3e.

cavifolia (Ehrh.) Lindb. — Morocco: JOVET-AST 1956b, p. 145, Map 9. USA (Minn.): SCHUSTER 1953, p. 660, Pl. 104, No. 115. Tunisia (N. half): JOVET-AST & BISCHLER 1972, p. 18, Carte 11. Germany (Schlesw.-Holst.): FRAHM & WALSEMANN 1973, p. 42. Sardinia: BISCHLER & JOVET-AST 1973a, p. 408, Carte 10. Corsica: BISCHLER & JOVET-AST 1973b, p. 136, Carte 3. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 624, Map 5. Poland: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 244. World: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 244. N. Hemisphere: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 244. Europe: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 244.

clavata Lindenb. — Micronesia: MILLER, WHITTIER & BONNER 1963, Pl. 25.

compacta (Steph.) Steph. — Japan: MIZUTANI 1961, p. 287, Map 3h.

diversiloba Spruce — The British Isles: WHITEHOUSE et al. 1967, p. 360; orig. H. Milne-Redhead.

flava (Sw.) Nees — S. Japan: MIZUTANI 1961, p. 287, Map 3g. The British Isles: WHITEHOUSE et al. 1969, p. 834; orig. H.J.B. Birks. Portugal (Madeira): SJÖGREN 1975, p. 278, Fig. 18.

holtii Spruce — The British Isles: WHITEHOUSE et al. 1969, p. 835; orig. H.J.B. Birks. Portugal (Madeira): SJÖGREN 1975, p. 279, Fig. 19.

japonica Mitt. — Japan: MIZUTANI 1961, p. 288, Map 4j.

lamacerina Steph. — Portugal (Madeira): SJÖGREN 1975, p. 279, Fig. 20.

mandonii (Steph.) K. Müll. — The British Isles: WHITEHOUSE et al. 1974, p. 124; orig. H.J.B. Birks.

patens Lindb. — Norway (S of lat. 63°N): JÖRGENSEN 1934, Kartblad XXIII i.

planiloba Evans — Japan (Kinki-district): KODAMA 1962, p. 161, Japan (Kinki-district): KODAMA 1963, p. 23. Japan: INOUE 1974b, p. 152, Pl. 76.

(LEJEUNEA contin.)

punctiformis Tayl. -- Japan (excl. Hokkaido): MIZUTANI 1961, p. 288, Map 4k.

rotundistipula (Steph.) Hatt. — Japan: MIZUTANI 1961, p. 287, Map 3h.

trukensis Miller et Bonner — Micronesia: MILLER, WHITTIER & BONNER 1963, Pl. 25.

ulicina (Tayl.) Gott. et al. — Japan: INOUE 1974b, p. 154, Pl. 77. Czechoslovakia: DUDA & VÁNA 1975b, p. 182, Karte 250; orig. J. Duda.

vaginata Steph. — S. Japan: MIZUTANI 1961, p. 287, Map 3g.

LEMBIDIUM

nutans Mitt. — World: SCHUSTER 1969, p. 58, Map 7.

LEPTICOLEA

abnormis Steph. — World: STEERE 1953, p. 47, Fig. 12.

attenuata (Mitt.) Scott — World: SCOTT 1960, Pl. 21.

boliviensis Steph. — World: STEERE 1953, p. 47, Fig. 12.

fissa Nees — World: STEERE 1953, p. 47, Fig. 12.

flaccida Steph. — World: STEERE 1953, p. 47, Fig. 12.

fryei H. Perss. — N. Hemisphere: STEERE 1953, p. 43, Fig. 5. World: STEERE 1953a, p. 47, Fig. 12. N. Hemisphere: GAMS 1955, p. 82, Fig. 1. World: LADYZHENSKAJA 1964, p. 257.

georgica Steph. — World: STEERE 1953, p. 47, Fig. 12.

herzogiana Steph. — World: STEERE 1953, p. 47, Fig. 12.

longifissa Steph. — World: STEERE 1953, p. 47, Fig. 12.

loriana Steph. — World: STEERE 1953, p. 47, Fig. 12. World: SCOTT 1960, Pl. 21.

ochroleuca (Spreng.) Spruce — World: STEERE 1953, p. 47, Fig. 12. World: SCOTT 1960, Pl. 20.

pruinosa (Tayl.) Spruce — World: STEERE 1953, p. 47, Fig. 12.

quadrilaciniata Sull. — World: STEERE 1953, p. 47, Fig. 12.

ramentifissa Herz. — World: STEERE 1953, p. 47, Fig. 12. World:

SCOTT 1960, Pl. 21.

(LEPICOLEA contin.)

rigida (De Not.) Scott -- World: SCOTT 1960, Pl. 21.

scolopendra (Hook.) Dum. -- World: STEERE 1953, p. 47, Fig. 12.
World: SCOTT 1960, Pl. 20.

simplicior Herz. -- World: STEERE 1953, p. 47, Fig. 12.

teres Steph. -- World: STEERE 1953, p. 47, Fig. 12.

yakusimensis (Hatt.) Hatt. -- World: SCOTT 1960, Pl. 20.

LEPIDOLAENA

berggrenii Hodgs. -- World: SCHUSTER 1969, p. 54, Map 6.

brachyclada (Tayl. ex Lehm.) Trev. -- World: SCHUSTER 1969, p. 54,
Map 6.

clavigera (Hook.) Dum. -- World: SCHUSTER 1969, p. 54, Map 6.

hodgsonianae Grolle -- World: SCHUSTER 1969, p. 54, Map 6.

menziesii (Hook.) Dum. -- World: SCHUSTER 1969, p. 54, Map 6.

palpebrifolia (Hook.) Dum. -- World: SCHUSTER 1969, p. 54, Map 5.

reticulata (Hook. f. et Tayl.) Trev. -- World: SCHUSTER 1969, p. 54,
Map 6.

taylori (Gott.) Trev. -- World: SCHUSTER 1969, p. 54, Map 6.

LEPIDOZIA

fauriana Steph. -- Japan: HATTORI & MIZUTANI 1958, p. 115, Map g.

filamentosa (Lehm. et Lindenb.) G., L. et N. -- Japan: HATTORI &
MIZUTANI 1958, p. 115, Map f.

pearsoni Spruce -- Norway (S of lat. 66°N): JÖRGENSEN 1934, Kart-
blad XXb; The British Isles: GREIG-SMITH 1950, p. 334, Fig. 6.

pinnata (Hook.) Dum. -- Norway (S of lat. 64°N): JÖRGENSEN 1934,
Kartblad XXIh. The British Isles: WHITEHOUSE et al. 1969, p. 831;
orig. D.A. Ratcliffe. W. France: TOUFFET 1969b, p. 59, Fig. 20.

reptans (L.) Dum. -- USA (Minn.): SCHUSTER 1953, p. 658, Pl. 102,
No. 103. Japan: HATTORI & MIZUTANI 1958, p. 114, Map e. England
(Warwickshire): LAFLIN 1971, p. 693, Map 807. Corsica: BISCHLER &
JOVET-AST 1973b, p. 136, Carte 3.

(LEPIDOZIA contin.)

var. tenera Hüb. — World: KOROTKEVICZ 1952, p. 191.

trichoclados K. Müll. — W. France: TOUFFET 1969b, p. 51, Fig. 3.

wallichiana Gott. — Japan: HATTORI & MIZUTANI 1958, p. 115, Map g.

vitrea Steph. — Japan: HATTORI & MIZUTANI 1958, p. 114, Map e.

Japan: INOUE 1974b, p. 28, Pl. 14.

LEPTOCOLEA

floccosa (Lehm. et Lindenb.) Steph. — Japan and Formosa: HORIKAWA 1952, p. 97, Map 23. E. Asia and Australia: HORIKAWA 1952, p. 98, Map 24.

goebelii (Gott. in litt.) Steph. — Japan and Formosa: HORIKAWA 1952, p. 94, Map 21. E. Asia and Australia: HORIKAWA 1952, p. 95, Map 22. E. Asia: HORIKAWA 1955, p. 89, Map 30.

LEPTOLEJEUNEA

balansae Steph. — SE. Asia: JOVET-AST 1958, p. 27, Carte 1.

brasiliensis Bischl. — M. and S. America: BISCHLER 1969b, Tab. 84.

convexistipa Bischl. — M. and S. America: BISCHLER 1969b, Tab. 87.

diversilobulata Bischl. — M. and S. America: BISCHLER 1969b, Tab. 86.

elliptica (Lehm. et Lindenb.) Steph. — M. and S. America: BISCHLER 1969b, Tab. 83. Japan: INOUE 1974b, p. 158, Pl. 79.

epiphylla (Mitt.) Steph. — SE. Asia: JOVET-AST 1958, p. 27, Carte 3.

exocellata (Spruce) Evans — M. and S. America: BISCHLER 1969b, Tab. 85.

foraminulosa Steph. — M. and S. America: BISCHLER 1969b, Tab. 87.

mexicana Bischl. — M. and S. America: BISCHLER 1969b, Tab. 87.

moniliata Steph. — M. and S. America: BISCHLER 1969b, Tab. 84.

obfuscata (Spruce) Steph. — M. and S. America: BISCHLER 1969b, Tab. 86.

obovata Bischl. — M. and S. America: BISCHLER 1969b, Tab. 86.

serratifolia Schiffn. — M. and S. America: BISCHLER 1969b, Tab. 88.

(LEPTOLEJEUNEA contin.)

subacuta Steph. — SE. Asia: JOVET-AST 1958, p. 27, Carte 2.

S. Japan: MIZUTANI 1961, p. 288, Map 51.

tridentata Bischl. — M. and S. America: BISCHLER 1969b, Tab. 88.

LEPTOSCYPHUS

abditus (Sull.) Grolle — Antarctic and Subantarctic: GROLLE 1962, p. 87, Karte 1.

aequatus (Hook.f. et Tayl.) Mitt. — America and W. Africa: GROLLE 1962, p. 89, Karte 3.

amphibolius (Nees) Grolle — M. and S. America and Africa: GROLLE 1962, p. 91, Karte 5.

azoricus (Buch et H. Perss.) Grolle — America, Azores and W. Africa: GROLLE 1962, p. 89, Karte 3.

cuneifolius (Hook.) Mitt. — America, Europe and Africa: GROLLE 1962, p. 88, Karte 2 (ssp. cuneifolius).

ssp. fragilis (Jack et Steph.) Grolle — America, Europe and Africa: GROLLE 1962, p. 88, Karte 2.

diversifolius (Gott.) Grolle — S. America and Africa: GROLLE 1962, p. 92, Karte 6.

expansus (Lehm.) Grolle — S. America and Africa: GROLLE 1962, p. 92, Karte 6.

gibbosus (Tayl.) Mitt. — M. and S. America: GROLLE 1962, p. 90, Karte 4.

hedbergii (S. Arn.) Schust. — S. America and Africa: GROLLE 1962, p. 92, Karte 6.

hexagonus (Nees) Grolle — M. and S. America: GROLLE 1962, p. 90, Karte 4.

horizontalis (Hook.) Grolle — America and W. Africa: GROLLE 1962, p. 89, Karte 3.

infuscatus (Mitt.) Jones — M. and S. America and Africa: GROLLE 1962, p. 91, Karte 5.

intermedius Grolle — America and W. Africa: GROLLE 1962, p. 89, Karte 3.

(LEPTOSCYPHUS contin.)

jackii (Steph.) Grolle — M. and S. America: GROLLE 1962, p. 90, Karte 4.

liebmanianus (Lindenb. et Gott.) Mitt. — America and W. Africa: GROLLE 1962, p. 89, Karte 3.

obcordatus (Spruce) Grolle — America and W. Africa: GROLLE 1962, p. 89, Karte 3.

ovatus (Spruce) Grolle — America and W. Africa: GROLLE 1962, p. 89, Karte 3.

patagonicus (Steph.) Grolle — S. America and Africa: GROLLE 1962, p. 92, Karte 6.

physocalyx (Hampe et Gott.) Gott. — M. and S. America: GROLLE 1962, p. 90, Karte 4.

LEUCOLEJEUNEA

xanthocarpa (Lehm. et Lindenb.) Evans — Japan and Formosa: HORIKAWA 1954, p. 273, Map 27. E. Asia and Australia: HORIKAWA 1954, p. 274, Map 28.

LOPHOCHAETE

fryei (H. Perss.) Schust. — World: SCHUSTER 1969, p. 66, Map 15.

quadrilaciniata (Sull.) Schust. — World: SCHUSTER 1969, p. 66, Map 15.

trollii (Herz.) Schust. ssp. andoi Schust. — World: SCHUSTER 1969, p. 66, Map 15.

ssp. trollii — World: SCHUSTER 1969, p. 66, Map 15.

LOPHOCOLEA

bidentata (L.) Dum. — Norway: JØRGENSEN 1934, Kartblad XIVg. England (Warwickshire): LAFLIN 1971, p. 695, Map 815. Tunisia (N. half): JOVET-AST & BISCHLER 1972, p. 18, Carte 8. Sardinia: BISCHLER & JOVET-AST 1973a, p. 407, Carte 9. Corsica: BISCHLER & JOVET-AST 1973b, p. 141, Carte 8.

breutelii Gott. — The Antilles: JOVET-AST 1960, p. 131, Fig. 5.

compacta Mitt. — Japan: INOUE 1974b, p. 92, Pl. 46.

(LOPHOCOLEA contin.)

cuspidata (Nees) Limpr. — Norway (S of lat. 66°N): JÖRGENSEN 1934, Kartblad XVII e. Belgium: LAMBINON 1964, p. 78, Fig. 2. England (Warwickshire): LAFLIN 1971, p. 696, Map 816. Tunisia (N. half): JOVET-AST & BISCHLER 1972, p. 18, Carte 8. Corsica: BISCHLER & JOVET-AST 1973b, p. 145, Carte 12. Finland: JÄRVINEN 1975, p. 17, Fig. 6.

fragrans (Moris et De Not.) Gott. et al. — Norway (S of lat. 64°N): JÖRGENSEN 1934, Kartblad XV k. Morocco: JOVET-AST 1956b, p. 145, Map 10. The British Isles: WHITEHOUSE et al. 1963, p. 510; orig. H. Milne-Redhead. Corsica: BISCHLER & JOVET-AST 1973b, p. 140, Carte 7.

heterophylla (Schrad.) Dum. — Norway (S of lat. 66°N): JÖRGENSEN 1934, Kartblad XVII b. USA (Minn.): SCHUSTER 1953, p. 651, Pl. 95, No. 49. Poland: SZWEYKOWSKI 1967, Map H. 69. World: SZWEYKOWSKI 1967, Map H. 69. N. Hemisphere: SZWEYKOWSKI 1967, Map H. 69. Europe and N. Africa: SZWEYKOWSKI 1967, Map H. 69. England (Warwickshire): LAFLIN 1971, p. 696, Map 817. Tunisia (N. half): JOVET-AST & BISCHLER 1972, p. 18, Carte 12. Sardinia: BISCHLER & JOVET-AST 1973a, p. 404, Carte 6. Corsica: BISCHLER & JOVET-AST 1973b, p. 140, Carte 7. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 624, Map 5. Finland and W. USSR: JÄRVINEN 1975, p. 17, Fig. 4.

horikawana Hatt. — Japan: INOUE 1974b, p. 94, Pl. 47.

minor Nees — Norway: JÖRGENSEN 1934, Kartblad XIII a. USA (Minn.): SCHUSTER 1953, p. 651, Pl. 95, No. 48. Poland: SZWEYKOWSKI 1967, Map H. 70. World: SZWEYKOWSKI 1967, Map 70. N. Hemisphere: SZWEYKOWSKI 1967, Map H. 70. Europe: SZWEYKOWSKI 1967, Map H. 70. USSR (Moldavia): SIMONOV 1972, p. 17. Corsica: BISCHLER & JOVET-AST 1973b, p. 146, Carte 13. NE. Sweden, Finland and W. USSR: JÄRVINEN 1975, p. 17, Fig. 5.

muricata (Lehm.) Nees — World: GROLLE 1969b, p. 578, Fig. 11.

LOPHOLEJEUNEA

subfusca (Nees) Steph. — SE. Asia, Australia and Oceania: MILLER, WHITTIER & BONNER 1963, Pl. 30.

LOPHOZIA

albviridis Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 17.

alpestris (Schleich.) Evans — USA (Minn.): SCHUSTER 1953, p. 648, Pl. 92, No. 20. Poland: SZWEYKOWSKI 1969, Map H. 89. World: SZWEYKOWSKI 1969, Map H. 89. N. Hemisphere: SZWEYKOWSKI 1969, Map H. 89. Europe: SZWEYKOWSKI 1969, Map H. 89. Corsica: BISCHLER & JOVET-AST 1973b, p. 141, Carte 8. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 24. Iberia: CASAS DE PUIG 1975, p. 734, Fig. 2.

ambigua (Jörg.) Jörg. — Norway: JÖRGENSEN 1934, Kartblad Xb.

ascendens (Warnst.) Schust. — USA (Minn.): SCHUSTER 1953, p. 648, Pl. 92, No. 19. N. America: SCHUSTER 1958a, p. 277, Fig. 48.

atlantica (Kaal.) Schiffn. — Norway: JÖRGENSEN 1934, Kartblad Xa.

attenuata (Mart.) Dum. — USA (Minn.): SCHUSTER 1953, p. 646, Pl. 90, No. 5.

badensis (Gott. ex Rabenh.) Schiffn. — USA (Minn.): SCHUSTER 1953, p. 647, Pl. 91, No. 12. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 13.

barbata (Schmid.) Dum. — USA (Minn.): SCHUSTER 1953, p. 646, Pl. 90, No. 7. Belgium: VANDEN BERGHEN 1956, p. 235, Fig. 71. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 10.

bicrenata (Schmid. ex Hoffm.) Dum. — Norway: JÖRGENSEN 1934, Kartblad XIIIId. USA (Minn.): SCHUSTER 1953, p. 649, Pl. 93, No. 27. Czechoslovakia: DUDA 1974, p. 362, Obr. 2.

binsteadii (Kaal.) Evans — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 7.

capitata (Hook.) Macoun — Europe (N of lat. 46°N): K. MÜLLER 1954, p. 110, Fig. 1. Poland (Miekinia, prov. Wrocław): KOLA 1961, p. 196, Fig. 1. Poland: SZWEYKOWSKI 1969, Map H. 93. World: SZWEYKOWSKI 1969, Map H. 93. N. Hemisphere: SZWEYKOWSKI 1969, Map H. 93. Europe: SZWEYKOWSKI 1969, Map H. 93. Germany (Schlesw.-Holst.): FRAHM & WALSEMANN 1973, p. 22.

cavifolia (Buch et S. Arn.) Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 30.

(LOPHOZIA contin.)

collaris (Nees) Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 13.

confertifolia Schiffn. — N. America: SCHUSTER 1958a, p. 290, Fig. 66.

cornuta (Steph.) Hatt. — Japan: INOUE 1974b, p. 44, Pl. 22.

cuspidata (Nees) Dum. — NE. Germany: KÜHNER & PANKOW 1967, p. 172, Abb. 2.

cylindracea (Dum.) Dum. — Norway (S of lat. 64°N): JÖRGENSEN 1934, Kartblad X e.

decolorans (Limpr.) Steph. — Norway (S of lat. 62°N): JÖRGENSEN 1934, Kartblad XII b.

elongata Steph. — Norway (S of lat. 62°N): JÖRGENSEN 1934, Kartblad X f. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 11.

excisa (Dicks.) Dum. — Norway: JÖRGENSEN 1934, Kartblad XIII e. USA (Minn.): SCHUSTER 1953, p. 648, Pl. 92, No. 17. World: SCHUSTER 1969, p. 78, Map 23. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 18. Czechoslovakia: DUDA 1974, p. 363, Obr. 3.

var. elegans Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 18.

var. infuscata Schust. et Damsh. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 18.

var. succulenta Schust. et Damsh. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 18.

floerkei (Web. et Mohr) Schiffn. — Belgium: VANDEN BERGHEN 1956, p. 230, Fig. 68.

gillmani (Aust.) Schust. — USA (Minn.): SCHUSTER 1953, p. 647, Pl. 91, No. 10. N. America: SCHUSTER 1958a, p. 288, Fig. 62. N. America and Greenland: SCHUSTER 1958b, p. 213, Fig. 2. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 12.

var. ciliolata Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 12.

var. gillmani f. orbiculata Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 12.

(LOPHOZIA contin.)

grandiretis (Lindb.) Schiffn. -- Norway (S of lat. 64°N): JÖRGENSEN 1934, Kartblad XII d. USA (Minn.): SCHUSTER 1953, p. 647, Pl. 91, No. 14. N. America: SCHUSTER 1958a, p. 279, Fig. 53. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 16.

var. parviretis Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 16.

groenlandica (Nees) Macoun — N. America and Greenland: SCHUSTER 1958a, p. 290, Fig. 66. N. America and Greenland: SCHOFIELD 1972, p. 1123, Fig. 20. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 19.

guttulata (Lindb. et H. Arn.) Evans — Norway: JÖRGENSEN 1934, Kartblad XI e. Japan: INOUE 1974b, p. 46, Pl. 23.

hatcheri (Evans) Steph. — USA (Minn.): SCHUSTER 1953, p. 647, Pl. 91, No. 8. N. America and Greenland: SCHUSTER 1958a, p. 293, Fig. 70. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 10.

heterocolpa (Thed.) Howe — USA (Minn.) SCHUSTER 1953, p. 647, Pl. 91, No. 9. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 14.

var. arctica (S. Arn.) Schust. et Damsh. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 14.

var. harpanthoides (Bryhn et Kaal.) Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 14.

heteromorpha Schust. et Damsh. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 17.

hyperborea (Schust.) Schust. — Arctic N. America and Greenland: SCHUSTER & DAMSHOLT 1972, p. 167. N. America and Greenland: SCHOFIELD 1972, p. 1123, Fig. 18.

f. paradoxa Schust. — Greenland: SCHUSTER & DAMSHOLT 1972, p. 167.

incisa (Schrader.) Dum. — Canada (Quebec): KUCYNIAK 1952, p. 75, Fig. 1. USA (Minn.): SCHUSTER 1953, p. 647, Pl. 91, No. 13. World: LADYZHENSKAJA, ZHUKOVA & KOROTKEVICZ 1970, p. 319. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 15. Poland: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 95. World: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 95. N. Hemisphere: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 95. Europe: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 95.

(LOPHOZIA contin.)

kunzeana (Hüb.) Evans — USA (Minn.): SCHUSTER 1953, p. 646, Pl. 90, No. 6. N. America: SCHUSTER 1958a, p. 280, Fig. 54. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 8.

f. acuta Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 8.

latifolia Schust. — USA (Minn.): SCHUSTER 1953, p. 648, Pl. 92, No. 21. N. America and Greenland: SCHOFIELD 1972, p. 1127, Fig. 36. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 19.

longidens (Lindb.) Macoun — USA (Minn.): SCHUSTER 1953, p. 648, Pl. 92, No. 18. Poland and Czechoslovakia (Tatry Mountains): SZWEYKOWSKI 1960b, Map 5. Poland: SZWEYKOWSKI 1969, Map H. 90. World: SZWEYKOWSKI 1969, Map H. 90. N. Hemisphere: SZWEYKOWSKI 1969, Map H. 90. Europe: SZWEYKOWSKI 1969, Map H. 90. World: SCHUSTER 1969, p. 78, Map 23. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 20.

ssp. arctica Schust. — World: SCHUSTER 1969, p. 78, Map 23. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 20.

longiflora (Nees) Schiffn. — USA (Minn.): SCHUSTER 1953, p. 648, Pl. 92, No. 24.

lycopodioides (Wallr.) Cogn. — Netherlands: WASSCHER 1957, p. 11, Fig. 2. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 10.

marchica (Nees) Steph. — Norway (S of lat. 61°N): JÖRGENSEN 1934, Kartblad XII c. USA (Minn.): SCHUSTER 1953, p. 647, Pl. 91, No. 16. Poland (Suwalki reg.): REJMENT-GROCHOWSKA & MICKIEWICZ 1962, p. 4, Fig. 2.

mildeana (Gott.) Schiffn. — Norway (S of lat. 61°N): JÖRGENSEN 1934, Kartblad XII c. USA (Minn.): SCHUSTER 1953, p. 647, Pl. 91, No. 15.

muelleri (Nees) Dum. — USA (Minn.): SCHUSTER 1953, p. 647, Pl. 91, No. 12.

obtusa (Lindb.) Evans — Europe: K. MÜLLER 1954, p. 111, Fig. 2. N. America and Iceland: SCHUSTER 1958a, p. 282, Fig. 56. Poland and Czechoslovakia (Tatry Mountains): SZWEYKOWSKI 1960b, Map 3. Corsica: BISCHLER & JOVET-AST 1973b, p. 149, Carte 16. Poland: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 92. World: SZWEYKOWSKI & KOŹLICKA 1974,

(LOPHOZIA contin.)

Map H. 92. N. Hemisphere: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 92.
Europe: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 92.

opacifolia Culm. — Poland and Czechoslovakia (Tatry Mountains):
SZWEYKOWSKI 1960b, Map 5. World: LADYZHENSKAJA, ZHUKOVA & KORTKE-
VICZ 1970, p. 319. Scandinavia, Finland and W. USSR: LAMMES 1974,
p. 2, Fig. 1. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 15.
Poland: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 96. World: SZWEYKOWSKI
& KOŹLICKA 1974, Map H. 96. N. Hemisphere: SZWEYKOWSKI & KOŹLICKA
1974, Map H. 96. Europe: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 96.

pellucida Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 26.

var. minor Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974,
Map 26.

polaris (Schust.) Schust. et Damsh. — W. Greenland: SCHUSTER &
DAMSHOLT 1974, Map 24.

var. sphagnorum (Schust.) Schust. et Damsh. — W. Greenland:
SCHUSTER & DAMSHOLT 1974, Map 24.

porphyroleuca (Nees) Schiffn. — USA (Minn.): SCHUSTER 1953, p.648,
Pl. 92, No. 23.

quadriloba (Lindb.) Evans — Norway: JÖRGENSEN 1934, Kartblad Xd.
N. America and Greenland: SCHUSTER 1958a, p. 281, Fig. 55. N. Hemis-
phere: SCHUSTER 1958b, p. 214, Fig. 3. W. Greenland: SCHUSTER &
DAMSHOLT 1974, Map 9.

var. collenchymatica Schust. — W. Greenland: SCHUSTER & DAMSHOLT
1974, Map 9.

var. glareosa (Jörg.) Jörg. — W. Greenland: SCHUSTER & DAMSHOLT
1974, Map 9.

f. cephalozielloides Schust. — W. Greenland: SCHUSTER & DAMSHOLT
1974, Map 9.

quinquedentata (Huds.) Cogn. var. turgida Lindb. — Norway: JÖRGEN-
SEN 1934, Kartblad Xc.

rubrigemma Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974,
Map 25.

(LOPHOZIA contin.)

rutheana (Limpr.) Howe — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 11.

schulzii (Nees) Schiffn. — USA (Minn.): SCHUSTER 1953, p. 647, Pl. 91, No. 11. N. America: SCHUSTER 1958a, p. 295, Fig. 72.

silvicola Buch — USA (Minn.): SCHUSTER 1953, p. 648, Pl. 92, No. 25.

subapiculata Schust. et Damsh. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 25.

ventricosa (Dicks.) Dum. — USA (Minn.): SCHUSTER 1953, p. 648, Pl. 92, No. 26. Corsica: BISCHLER & JOVET-AST 1973b, p. 135, Carte 2. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 22.

var. confusa Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 21.

var. grandiretis (Buch et S. Arn.) Schust. et Damsh. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 22.

var. longiflora (Nees) Macoun — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 22.

var. rigida Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 21.

var. silvicola (Buch) Jones — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 21.

wenzelii (Nees) Steph. — Norway: JÖRGENSEN 1934, Kartblad XI c. M. Europe: REJMENT-GROCHOWSKA 1950, Mapa 2. USA (Minn.): SCHUSTER 1953, p. 648, Pl. 92, No. 22. N. America: SCHUSTER 1958a, p. 290, Fig. 66. Czechoslovakia: DUDA 1959, Mapka 4. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 23.

f. confertifolia (Nees) K. Müll. — Czechoslovakia: DUDA 1959, Mapka 4.

var. lapponica Buch et S. Arn. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 23.

LOPHOZIELLA

integerrima (Lindb.) Douin et Schiffn. — Norway (S of lat. 64°N): JÖRGENSEN 1934, Kartblad XV j.

LUNULARIA

cruciata (L.) Dum. -- USA (Minn.): SCHUSTER 1953, p. 664, Pl. 108, No. 138. Great Britain (S. Wales): GOODMAN 1956, p. 99, Fig. 1. Israel: JOVET-AST & BISCHLER 1966, p. 114, Carte 28. NE. Germany: KÜHNER & PANKOW 1967, p. 173, Abb. 7. Libya: JOVET-AST & BISCHLER 1969, p. 282, Carte 15. England (Warwickshire): LAFLIN 1971, p. 691, Map 797. Czechoslovakia: DUDA & VÁNA 1972b, p. 172, Karte 15; orig. J. Duda. Tunisia (N. half): JOVET-AST & BISCHLER 1972, p. 18, Carte 8. Sardinia: BISCHLER & JOVET-AST 1973a, p. 403, Carte 5. Corsica: BISCHLER & JOVET-AST 1973b, p. 138, Carte 5. Germany: FRAHM 1973, p. 398 and 399. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 623, Map 2.

MACRODIPLOPHYLLUM

imbricatum (Howe) H. Perss. — World: PERSSON 1949, p. 508, Fig. 3.
microdontum (Mitt.) H. Perss. — World: PERSSON 1949, p. 508, Fig. 3.
 E. Asia and N. America: ABRAMOVA 1956, p. 493. Europe and Asia: ABRAMOVA & ABRAMOV 1966, p. 305.
plicatum (Lindb.) H. Perss. — World: PERSSON 1949, p. 508, Fig. 3.
 E. Asia: HORIKAWA 1955a, p. 70, Map 24. E. Asia and N. America: ABRAMOVA 1956, p. 493. Japan: IWATSUKI 1972b, p. 130, Fig. 18.
 World: IWATSUKI 1972b, p. 130, Fig. 18. World: SCHOFIELD & CRUM 1972, p. 186, Map 18. E. Asia: HORIKAWA 1972, Map 492.

MACVICARIA

ulophylla (Steph.) Hatt. -- E. Asia: HORIKAWA 1972, Map 495.

MADOTHECA

baueri Schiffn. — M. Europe: SZWEYKOWSKI 1957, p. 116, Ryc. 1. Switzerland (Vaud): BONNER 1960, p. 314.
cordeana (Hüb.) Dum. — Switzerland (Vaud): BONNER 1960, p. 311, (var. *cordaeana*). Poland: SZWEYKOWSKI 1962, Map H. 236. World: SZWEYKOWSKI 1962, Map H. 236. N. Hemisphere: SZWEYKOWSKI 1962, Map H. 236. Europe and N. Africa: SZWEYKOWSKI 1962, Map H. 236. Corsica: BISCHLER & JOVET-AST 1973b, p. 150, Carte 17. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 624, Map 6.
 var. faeroensis Jensen — Switzerland (Vaud): BONNER 1960, p. 311.

(MADOTHECA contin.)

var. simplicior (Zett.) Lindb. — Switzerland (Vaud): BONNER 1960, p. 311.

laevigata (Schrad.) Dum. — M. Europe: SZWEYKOWSKI 1957, p. 116, Ryc. 1. Switzerland (Vaud): BONNER 1960, p. 309 (var. laevigata). Tunisia: JOVET-AST & BISCHLER 1972, p. 17, Carte 6. Corsica: BISCHLER & JOVET-AST 1973b, p. 141, Carte 8.

var. thuja Nees — Switzerland (Vaud): BONNER 1960, p. 309.

perrottetiana Mont. — E. Asia: HORIKAWA 1955a, p. 92, Map 31.

platyphylla (L.) Dum. — Switzerland (Vaud): BONNER 1960, p. 312. Tunisia: JOVET-AST & BISCHLER 1972, p. 17, Carte 6. Corsica: BISCHLER & JOVET-AST 1973b, p. 149, Carte 16.

platyphylloidea (Schwein.) Dum. — M. Europe: SZWEYKOWSKI 1957, p. 116, Ryc. 1. Switzerland (Vaud): BONNER 1960, p. 313.

stephaniana Mass. — E. Asia: HORIKAWA 1955a, p. 120, Map 41.

thuja (Dicks.) Dum. — Tunisia: JOVET-AST & BISCHLER 1972, p. 16, Carte 3. Sardinia: BISCHLER & JOVET-AST 1973a, p. 411, Carte 13. Corsica: BISCHLER & JOVET-AST 1973b, p. 144, Carte 11. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 626, Map 11.

vernica (Lindb.) Steph. — Japan and Corea: ANDO 1955, p. 58, Fig. 8 (ssp. vernica).

ssp. faurieri (Steph.) Ando — Japan and Corea (with special map of Isle Attu): ANDO 1955, p. 58, Fig. 8.

MAKINOIA

crispata (Steph.) Miyake — E. Asia: HATTORI & MIZUTANI 1966, p. 195, Map 1. World: SCHUSTER 1969, p. 52, Map 1. E. Asia: HORIKAWA 1972, Map 496.

MANNIA

fragrans (Balbis) Frye et Clark — Europe: B. PETTERSSON 1946, p. 39, Fig. 3. Scandinavia and Finland: B. PETTERSSON 1946, p. 39, Fig. 4. USA (Minn.): SCHUSTER 1953, p. 665, Pl. 109, No. 145. N. America: SCHUSTER 1958a, p. 274, Fig. 40. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 73. Czechoslovakia: DUDA & VÁNA 1974b, p. 154, Karte 7; orig. J. Vána.

(MANNIA contin.)

pilosa (Horn.) Frye et Clark — Scandinavia and Finland: PERSSON 1945, p. 346, Fig. 2. USA (Minn.): SCHUSTER 1953, p. 665, Pl. 109, No. 144. N. America and Greenland: SCHUSTER 1958a, p. 285, Fig. 59. N. America and Greenland: SCHUSTER 1958b, p. 233, Fig. 16. Czechoslovakia: DUDA & VÁNA 1974a, p. 18, Karte 9; orig. J. Vána. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 73.

rupestris (Nees) Frye et Clark — USA (Minn.): SCHUSTER 1953, p. 665, Pl. 109, No. 143. N. America: SCHUSTER 1958a, p. 276, Fig. 44. N. America: SCHUSTER 1958b, p. 245, Fig. 17. Czechoslovakia: DUDA & VÁNA 1974a, p. 20, Karte 10; orig. J. Vána.

sibirica (K. Müll.) Frye et Clark — USA (Minn.): SCHUSTER 1953, p. 665, Pl. 109, No. 146. N. America: SCHUSTER 1958a, p. 285, Fig. 59. N. America and Greenland: SCHUSTER 1958b, p. 233, Fig. 16. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 73.

MARCHANTIA

alpestris (Nees) Burgeff — Norden and W. USSR: WARNCKE 1968, p. 360, Fig. 1. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 79.

berteroana Lehm. et Lindenb. — World: GROLLE 1969b, p. 571, Fig. 5.

domingensis Lehm. et Lindenb. — N. America (S of lat. 40°N) and M. America: SHARP 1938, p. 143, Fig. 4. USA (E. part) and M. America: SHARP 1939, p. 338, Fig. 23.

paleacea Bertol. — World: LADYZHENSKAJA 1951, p. 195. Egypt: JOVET-AST & BISCHLER 1971b, p. 273. Corsica: BISCHLER & JOVET-AST 1973b, p. 142, Carte 9. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 623, Map 2. World: MOHAN & PIRVU 1975, p. 596, Fig. 1.

polymorpha L. — USA (Minn.): SCHUSTER 1953, p. 665, Pl. 109, No. 141. England (Warwickshire): LAFLIN 1971, p. 691, Map 798. Egypt: JOVET-AST & BISCHLER 1971b, p. 273. Corsica: BISCHLER & JOVET-AST 1973b, p. 136, Carte 3.

MARCHESINIA

mackaii (Hook.) S. Gray — W. Europe and W. Africa: JOVET-AST 1946, p. 365. The British Isles: PROCTOR 1960, p. 2, Fig. 1. The British Isles: WHITEHOUSE et al. 1965, p. 880; orig. M.C.F. Proctor.

MARSUPELLA

alata Hatt. et Kitag. — Japan: INOUE 1974b, p. 66, Pl. 33.

alpina (Mass. et Carest.) H. Bern. — Poland and Czechoslovakia (Tatry Mountains): SZWEYKOWSKI 1960b, Map 6. The British Isles: WHITEHOUSE et al. 1970, p. 146; orig. J.G. Duckett.

aquatica (Lindenb.) Schiffn. — W. France: TOUFFET 1969, p. 52, Fig. 5.

arctica (Berggr.) Bryhn et Kaal. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 39.

badensis Schiffn. — M. Europe: K. MÜLLER 1954, p. 114, Fig. 4.

boeckii (Aust.) Lindb. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 41.

commutata (Limpr.) H. Bern. — M. Europe: K. MÜLLER 1954, p. 114, Fig. 4. Poland and Czechoslovakia (Tatry Mountains): SZWEYKOWSKI 1960b, Map 8.

condensata (Ångstr.) Schiffn. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 41. Poland and Czechoslovakia (Tatry Mountains): SZWEYKOWSKI 1960, Map 6.

emarginata (Ehrh.) Dum. — USA (Minn.): SCHUSTER 1953, p. 652, Pl. 96, No. 54. Tunisia: JOVET-AST & BISCHLER 1972, p. 17, Carte 6. Sardinia: BISCHLER & JOVET-AST 1973a, p. 402, Carte 4. Corsica: BISCHLER & JOVET-AST 1973b, p. 136, Carte 3.

var. aquatica (Lindenb.) Dum. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 39.

funckii (Web. et Mohr) Dum. — Norway (S of lat. 64°N): JØRGENSEN 1934, Kartblad IXd. Corsica: BISCHLER & JOVET-AST 1973b, p. 146, Carte 13.

joergensenii Schiffn. — Norway: JØRGENSEN 1934, Kartblad VI d.

miniata (Lindenb. et Gott.) Grolle — World: SCHUSTER 1969, p. 72, Map 19.

paroica Schust. — N. America: SCHUSTER 1958a, p. 295, Fig. 71. N. America: SCHUSTER 1958b, p. 245, Fig. 18.

ramosa K. Müll. — M. Europe: K. MÜLLER 1954, p. 114, Fig. 4.

(MARSUPELLA contin.)

revoluta (Nees) Dum. — World: SCHUSTER 1969, p. 72, Map 19. World: SCHUSTER 1972, p. 8, Fig. 1. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 40.

sparsifolia (Lindb.) Dum. — Norway: JÖRGENSEN 1934, Kartblad VI c. USA (Minn.): SCHUSTER 1953, p. 652, Pl. 96, No. 54. N. America: SCHUSTER 1958a, p. 295, Fig. 71. N. America: SCHUSTER 1958b, p. 245, Fig. 18. Poland and Czechoslovakia (Tatry Mountains): SZWEYKOWSKI 1960b, Map 6. World: SCHUSTER 1969, p. 72, Map 19. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 40.

sphacelata (Gieseke in Lindenb.) Dum. — Corsica: BISCHLER & JOVET-AST 1973b, p. 138, Carte 5.

sprucei (Limpr.) H. Bern. — Norway: JÖRGENSEN 1934, Kartblad VI b. W. France: TOUFFET 1969, p. 52, Fig. 5.

stableri Spruce — The British Isles: WHITEHOUSE et al. 1970, p. 145; orig. J.G. Duckett.

ustulata (Hüb.) Spruce — Norway: JÖRGENSEN 1934, Kartblad VI a. World: SCHUSTER 1969, p. 72, Map 19. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 40.

varians (Lindb.) K. Müll. — The British Isles: WHITEHOUSE et al. 1970, p. 144; orig. J.G. Duckett.

yakushimensis (Horik.) Hatt. — Japan: INOUE 1974b, p. 68, Pl. 34.

MASTIGOPHORA

diclados (Brid.) Nees ex Schiffn. — Japan: INOUE 1974b, p. 12, Pl. 6.

woodsii (Hook.) Nees — The British Isles: WHITEHOUSE et al. 1963, p. 511; orig. D.A. Ratcliffe. World: SCHOFIELD & CRUM 1972, p. 194, Map 42.

MEGACEROS

stahlai Steph. — World: PANDE 1958, p. 16, Map VIII.

tosanus Steph. — E. Asia: HORIKAWA 1972, Map 500.

MESOPTYCHIA

sahlbergii (Lindb. et H.W. Arn.) Evans — W. Arctic: PERSSON 1949, p. 511, Fig. 4. World: LADYZHENSKAYA 1953a, p. 170. N. Hemisphere:

(MESOPTYCHIA contin.)

GAMS 1955, p. 82, Fig. 1. World: ABRAMOVA & ABRAMOV 1966, p. 304.
N. America: SCHOFIELD 1972, p. 1119, Fig. 4. Alaska and Canada:
STEERE & INOUE 1975, p. 65, Fig. 9.

METACALYPOGEIA

cordifolia (Steph.) Inoue — Japan: INOUE 1974b, p. 38, Pl. 19.

schusterana Hatt. et Mizut. — W. Greenland: SCHUSTER & DAMSHOLT
1974, Map 3.

METAHYGROBIELLA

acuminata (Herz.) Schust. — World: SCHUSTER 1969, p. 66, Map 13.

acutiloba Inoue — World: SCHUSTER 1969, p. 66, Map 13.

albula (Steph.) Grolle — World: SCHUSTER 1969, p. 66, Map 13.

drucei Schust. — World: SCHUSTER 1969, p. 66, Map 13.

duzenii (Steph.) Schust. — World: SCHUSTER 1969, p. 66, Map 13.

lucens (Evans) H. Miller — World: SCHUSTER 1969, p. 66, Map 13.

macgregorii (Steph.) Schust. — World: SCHUSTER 1969, p. 66, Map 13.

mollusca (De Not.) Schust. — World: SCHUSTER 1969, p. 66, Map 13.

stolonacea (Herz.) Schust. — World: SCHUSTER 1969, p. 66, Map 13.

METZGERIA

campbelliensis Kuwah. — Australia and New Zealand: KUWAHARA 1966,
p. 203, Fig. 8.

colensoi Steph. — Australia and New Zealand: KUWAHARA 1966, p. 203,
Fig. 8.

conjugata Lindb. — Norway (S of lat. 64°N): JÖRGENSEN 1934, Kart-
blad III f. USA (Minn.): SCHUSTER 1953, p. 663, Pl. 107, No. 133.
Poland: SZWEYKOWSKI 1968, Map H. 37. World: SZWEYKOWSKI 1968, Map H.
37. N. Hemisphere: SZWEYKOWSKI 1968, Map H. 37. Europe: SZWEYKOWSKI
1968, Map H. 37. USSR (Moldavia): SIMONOV 1972, p. 15.

ssp. japonica (Hatt.) Kuwah. — World: KUWAHARA 1966, p. 201, Fig. 6.

crassipilis Lindb. — World (S of lat. 57°N): KUWAHARA 1966, p. 204,
Fig. 10.

decipiens (Mass.) Schiffn. et Gott. — E. Asia, Australia, New

(METZGERIA contin.)

World: SZWEYKOWSKI 1962, Map H. 39. H. Hemisphere: SZWEYKOWSKI 1962, Map H. 39. Europe: SZWEYKOWSKI 1962, Map H. 39. The British Isles: WHITEHOUSE et al. 1968, p. 589, orig. A. McG. Stirling. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 623, Map 1. Iberia: CASAS DE PUIG 1975, p. 734, Fig. 2.

rigida Lindb. — Australia and New Zealand: KUWAHARA 1966, p. 203, Fig. 8.

saccata Mitt. — World: SCHUSTER 1972, p. 48, Fig. 20.

sandei Schiffn. — E. Asia: KUWAHARA 1966, p. 198, Fig. 3.

scobina Mitt. — E. Asia: KUWAHARA 1966, p. 198, Fig. 3.

simplex Lorbeer in K. Müll. — Poland: SZWEYKOWSKI 1968, Map H. 38. World: SZWEYKOWSKI 1968, Map H. 38. N. Hemisphere: SZWEYKOWSKI 1968, Map H. 38. Europe: SZWEYKOWSKI 1968, Map H. 38.

METZGERIOPSIS

pusilla Goebel — World: SCHUSTER 1969, p. 72, Map 21.

MICROLEJEUNEA

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

ulicina (Tayl.) Evans — Norway (S of lat. 62°N): JÖRGENSEN 1934, Kartblad XXIII h. SW. Germany: DÜLL 1969, p. 299, Taf. 6. Corsica: BISCHLER & JOVET-AST 1973b, p. 150, Carte 17. Portugal (Madeira): SJÖGREN 1975, p. 281, Fig. 24.

MICROLEPIDOZIA

makinoana (Steph.) Hatt. — Japan: HATTORI & MIZUTANI 1958, p. 115, Map f.

setacea (Web.) Jörg. — Norway: JÖRGENSEN 1934, Kartblad XXc. Netherlands: ZANTEN 1972, p. 232, Fig. 3.

sylvatica (Evans) Jörg. — Netherlands: ZANTEN 1972, p. 232, Fig. 3.

trichoclados (K. Müll.) Jörg. — Norway: JÖRGENSEN 1934, Kartblad XXd.

MOERCHIA

blyttii (Mörck) Brockm. — Norway: JÖRGENSEN 1934, Kartblad IVb. The British Isles: WHITEHOUSE et al. 1966, p. 151; orig. J.A. Paton. Poland: SZWEYKOWSKI 1966, Map H. 51. World: SZWEYKOWSKI 1966

(MOERCHIA contin.)

Map H. 51. N. Hemisphere: SZWEYKOWSKI 1966, Map H. 51. Europe: SZWEYKOWSKI 1966, Map H. 51. Czechoslovakia: DUDA & VÁNA 1969b, p. 97, Karte 56; orig. J. Vána.

flotoviana (Nees) Schiffn. — Norway: JÖRGENSEN 1934, Kartblad IV a. Europe: DE SLOOVER 1959, p. 177, Fig. 30. Poland and Czechoslovakia (Tatry Mountains): SZWEYKOWSKI 1960b, Map 3. Czechoslovakia: DUDA & VÁNA 1968b, p. 98, Karte 57; orig. J. Vána.

hibernica (Hook.) Gott. — USA (Minn.): SCHUSTER 1953, p. 663, Pl. 107, No. 132. Europe: DE SLOOVER 1959, p. 177, Fig. 30. Czechoslovakia: DUDA & VÁNA 1968b, p. 100, Karte 58; orig. J. Vána.

MONOSELENIUM

tenerum Griff. — World: PANDE 1958, p. 13, Map IV and p.14, Map V.

MYLIA

anomala (Hook.) S. Gray — USA (Minn.): SCHUSTER 1953, p. 651, Pl. 95, No. 46. Poland (Przedmoście, prov. Wrocław): KOLA 1961, p. 197, Fig. 2. Poland: SZWEYKOWSKI 1964, Map H. 158. World: SZWEYKOWSKI 1964, Map H. 158. N. Hemisphere: SZWEYKOWSKI 1964, Map H. 158. Europe: SZWEYKOWSKI 1964, Map H. 158. SW. Germany: DÜLL 1969, p. 301, Taf. 7a. Czechoslovakia: DUDA & VÁNA 1973a, p. 18, Karte 165; orig. J. Vána. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 38. Germany (Thüringen): MEINUNGER 1975, p. 224, Karte 2.

cuneifolia (Hook.) S. Gray — Norway (S of lat. 64°N): JÖRGENSEN 1934, Kartblad XV k. The British Isles: WHITEHOUSE et al. 1963, p. 512; orig. A.C. Crundwell.

taylori (Hook.) S. Gray — Europe: K. MÜLLER 1954, p. 118, Fig. 7. Europe and Asia: LADYZHENSKAJA & ZENKOVA 1955, p. 231. Europe (N of lat. 41°N): K. MÜLLER 1951-57, p. 882, Fig. 311. Poland: SZWEYKOWSKI 1964, Map H. 157. World: SZWEYKOWSKI 1964, Map H. 157. N. Hemisphere: SZWEYKOWSKI 1964, Map H. 157. Europe: SZWEYKOWSKI 1964, Map H. 157. Europe and Asia: STEFUREAC 1969, p. 143, Fig. 38. Romania: STEFUREAC 1969, p. 145, Fig. 39. Czechoslovakia: DUDA & VÁNA 1973a, p. 10, Karte 164; orig. J. Vána. Germany (Thüringen): MEINUNGER 1975, p. 224, Karte 2.

verrucosa Lindb. — Europe and Asia: LADYZHENSKAJA & ZENKOVA 1955,

(MYLIA contin.)

p. 231. Japan: INOUE 1974b, p. 58, Pl. 29.

NARDIA

assamica (Mitt.) Amak. — Japan: INOUE 1974b, p. 62, Pl. 31.

breidleri (Limpr.) Lindb. — Norway: JÖRGENSEN 1934, Kartblad VII d. Japan: AMAKAWA 1960, p. 75, Map 1. Czechoslovakia: DUDA & VÁNA 1971a, p. 42, Karte 159; orig. J. Vána.

compressa (Hook.) S. Gray — Norway: JÖRGENSEN 1934, Kartblad VII a. Belgium: VANDEN BERGHEN 1957, p. 291, Fig. 93. Japan: AMAKAWA 1960, p. 75, Map 1. W. France: TOUFFET 1969b, p. 51, Fig. 3. Czechoslovakia: DUDA & VÁNA 1971a, p. 44, Karte 160; orig. J. Vána. N. America and Greenland: SCHOFIELD 1972, p. 1125, Fig. 27. Corsica: BISCHLER & JOVET-AST 1973b, p. 148, Carte 15.

geoscyphus (De Not.) Lindb. — Czechoslovakia: DUDA & VÁNA 1972b, p. 176, Karte 162; orig. J. Vána. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 37.

insecta Lindb. — Czechoslovakia: DUDA & VÁNA 1971b, p. 107, Karte 163; orig. J. Vána.

japonica Steph. — Japan: AMAKAWA 1960, p. 77, Map 4.

scalaris S. Gray — N. America: SHARP 1939, p. 330, Fig. 3. Newfoundland: BUCH & TUOMIKOSKI 1955, p. 23, Map 2. England (Warwickshire): LAFLIN 1971, p. 695, Map 812. Czechoslovakia: DUDA & VÁNA 1972a, p. 53, Karte 161; orig. J. Vána. Corsica: BISCHLER & JOVET-AST 1973b, p. 144, Carte 11. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 37.

ssp. botryoidea Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 37.

ssp. harae (Amak.) Amak. — Japan: AMAKAWA 1960, p. 75, Map 1. Japan: INOUE 1974b, p. 60, Pl. 30.

sieboldii (San. Lac.) Steph. — Japan: AMAKAWA 1960, p. 77, Map 3.

subclavata (Steph.) Amak. — Japan: AMAKAWA 1960, p. 77, Map 3.

NARDIOCALYX

apiculata (Schiffn.) Jörg. — Norway: JÖRGENSEN 1934, Kartblad VI e.

NEESIELLA

pilosa (Horn.) Schiffn. — Norway: JÖRGENSEN 1934, Kartblad II d. M. Europe: GAMS 1938, p. 62, Fig. 2. Europe and Asia: GAMS 1938, p. 60, Fig. 1 (incl. *N. carmica*). Finland (Kuusamo): AUER 1944, p. 43, Kartta 15.

rupestris (Nees) Schiffn. — Europe and Asia: GAMS 1938, p. 60, Fig. 1. M. Europe: GAMS 1938, p. 62, Fig. 2. M. Europe: NEUMAYR 1971, p. 256, Abb. 58. Germany (Fränkischen Alb): NEUMAYR 1971, p. 257, Abb. 59.

NEESIOSCYPHUS

allionii (Steph.) Grolle — Indomalayan Islands, Australia and America: SCHUSTER 1972, p. 45, Fig. 17.

argillaceus (Nees) Grolle — Indomalayan Islands, Australia and America: SCHUSTER 1972, p. 45, Fig. 17.

bicuspidatus (Steph.) Grolle — Indomalayan Islands, Australia and America: SCHUSTER 1972, p. 45, Fig. 17.

carneus (Nees) Grolle — Indomalayan Islands, Australia and America: SCHUSTER 1972, p. 45, Fig. 17.

homophyllus (Nees) Grolle — Indomalayan Islands, Australia and America: SCHUSTER 1972, p. 45, Fig. 17.

phoenicorhizus Grolle — Indomalayan Islands, Australia and America: SCHUSTER 1972, p. 45, Fig. 17.

NEOGROLLEA

notabilis Hodgs. — World: SCHUSTER 1969, p. 52, Map. 2.

NEOHATTORIA

australis Schust. — World: SCHUSTER 1972, p. 46, Fig. 18.

caledonica Schust. — World: SCHUSTER 1972, p. 46, Fig. 18.

chevalieri Schust. — World: SCHUSTER 1972, p. 46, Fig. 18.

herzogii (Hatt.) Kam. — World: SCHUSTER 1972, p. 46, Fig. 18.

microscopica (Pears.) Schust. — World: SCHUSTER 1972, p. 46, Fig. 18.

parhami Schust. — World: SCHUSTER 1972, p. 46, Fig. 18.

perversa (Steph.) Schust. — World: SCHUSTER 1972, p. 46, Fig. 18.

NEOTRICHOCOLEA

bissetii (Mitt.) Hatt. — Japan: INOUE 1974b, p. 18, Pl. 9. World: INOUE 1974b, p. 20, Pl. 10.

NEUROLEJEUNEA

catenulata (Nees) Schiffn. — The Antilles: JOVET-AST 1960, p. 130, Fig. 4.

NIPPONOLEJEUNEA

pilifera (Steph.) Hatt. — Japan: MIZUTANI 1961, p. 286, Map 2d. Japan: INOUE 1974b, p. 146, Pl. 73.

subalpina (Horik.) Hatt. — Japan: MIZUTANI 1961, p. 286, Map 2d.

NOTOSCYPHUS

paroicus Schiffn. — Japan: AMAKAWA 1960, p. 75, Map 1.

NOTOTHYLAS

orbicularis (Schwein.) Sull. — USA (Minn.): SCHUSTER 1953, p. 646, Pl. 90, No. 1. Czechoslovakia: DUDA & VÁNA 1972b, p. 170, Karte 4; orig. J. Duda.

NOWELLIA

borneensis (De Not.) Schiffn. — World: GROLLE 1968, p. 46, Karte 2.

curvifolia (Dicks.) Mitt. — Norway (S of lat. 64°N): JÖRGENSEN 1934, Kartblad XXI a. M. Europe (the Alps): RASCHENDORFER 1949, p. 275, Karte 2. Europe and Asia Minor: K. MÜLLER 1951-57, p. 1093, Fig. 411. USA (Minn.): SCHUSTER 1953, p. 657, Pl. 101, No. 96. Europe: PETROV 1958, p. 408. World: GROLLE 1968, p. 45, Karte 1. Poland: SZWEYKOWSKI 1969, Map H. 213. World: SZWEYKOWSKI 1969, Map H. 213. N. Hemisphere: SZWEYKOWSKI 1969, Map H. 213. Europe: SZWEYKOWSKI 1969, Map H. 213. Europe and Asia Minor: NEUMAYR 1971, p. 171, Abb. 37. Corsica: BISCHLER & JOVET-AST 1973b, p. 149, Carte 16.

dominicensis Steph. — World: GROLLE 1968, p. 46, Karte 2.

evansii Grolle — World: GROLLE 1968, p. 46, Karte 2.

langii Pears. — World: GROLLE 1968, p. 46, Karte 2.

pusilla Grolle — World: GROLLE 1968, p. 46, Karte 2.

wrightii (Gott. ex Spruce) Steph. — World: GROLLE 1968, p. 46, Karte 2.

OBTUSIFOLIUM

obtusum (Lindb.) S. Arn. — Sweden (Sm.): NICKLASSON 1972, p. 399, Fig. 12.

ODONTOSCHISMA

denudatum (Nees) Dum. — Norway (S of lat. 64°N): JÖRGENSEN 1934, Kartblad XXIVb. USA (Minn.): SCHUSTER 1953, p. 657, Pl. 101, No. 99. E. Germany (Sachsen): RIEHMER & BORSDORF 1961, folding map. Netherlands: GRADSTEIN 1972, p. 238, Fig. 2. Japan: INOUE 1974b, p. 126, Pl. 63.

var. laevissima Schust. — USA (Minn.): SCHUSTER 1953, p. 657, Pl. 101, No. 98.

elongatum (Lindb. Evans — N. America, Greenland and Iceland: SCHUSTER 1958a, p. 289, Fig. 65. Poland and Czechoslovakia (Tatry Mountains): SZWEYKOWSKI 1960b, Map 7. Sweden (Vrm.): FRANSSON 1972, p. 115, Map 91. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 67.

macounii (Aust.) Underw. — Norway: JÖRGENSEN 1934, Kartblad XIXc. Finland and W. USSR: AUER 1944, p. 40, Kartta 13. Finland (Kuusamo): AUER 1944, p. 40, Kartta 14. Europe: K. MÜLLER 1951-57, p. 1093, Fig. 411. USA (Minn.): SCHUSTER 1953, p. 657, Pl. 101, No. 97. N. America and Greenland: SCHUSTER 1958a, p. 292, Fig. 68. N. America and Greenland: SCHUSTER 1958b, p. 212, Fig. 1. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 67.

sphagni (Dicks.) Dum. — Norway (S of lat. 66°N): JÖRGENSEN 1934, Kartblad XXIIIc. Europe: K. MÜLLER 1951-57, p. 1093, Fig. 411. N. Germany: PANKOW & KÜHNER 1967, Tab. 16. Sweden (Vrm.): FRANSSON 1972, p. 115, Map 92. Netherlands: GRADSTEIN 1972, p. 239, Fig. 3.

ORTHOCAULIS

atlanticus (Kaal.) Buch — Denmark: KJ. HOLMEN et al. 1959, p. 119, Fig. 6; orig. Eva Clausen. Poland and Czechoslovakia (Tatry Mountains): SZWEYKOWSKI 1960b, Map 4. Poland: SZWEYKOWSKI 1967, Map H. 78. World: SZWEYKOWSKI 1967, Map H. 78. N. Hemisphere: SZWEYKOWSKI 1967, Map H. 78. Europe: SZWEYKOWSKI 1967, Map H. 78.

attenuatus (Mart.) Evans — Denmark: KJ. HOLMEN et al. 1959, p. 119, Fig. 5; orig. Eva Clausen.

binsteadii (Kaal.) Buch — S. Poland (Tatry Mountains): SZWEYKOWSKI

(ORTHOCAULIS contin.)

1960a, p. 402, Fig. 3. Poland: SZWEYKOWSKI 1964, Map H. 79. World: SZWEYKOWSKI 1964, Map H. 79. N. Hemisphere: SZWEYKOWSKI 1964, Map H. 79. Europe: SZWEYKOWSKI 1964, Map H. 79.

elongatus (Lindb.) Evans — Europe and Greenland: LADYZHENSKAJA & ZHUKOVA 1972, p. 304.

floerkei (Web. et Mohr) Buch — Denmark: KJ. HOLMEN et al. 1959, p. 118, Fig. 3; orig. Eva Clausen. Poland: SZWEYKOWSKI 1967, Map H. 76. World: SZWEYKOWSKI 1967, Map H. 76. N. Hemisphere: SZWEYKOWSKI 1967, Map H. 76. Europe: SZWEYKOWSKI 1967, Map H. 76.

gracilis (Schleich.) Buch — Poland: SZWEYKOWSKI 1967, Map H. 77. World: SZWEYKOWSKI 1967, Map H. 77. N. Hemisphere: SZWEYKOWSKI 1967, Map H. 77. Europe: SZWEYKOWSKI 1967, Map H. 77.

kunzeanus (Hüb.) Buch — Denmark: KJ. HOLMEN et al. 1959, p. 118, Fig. 4; orig. Eva Clausen. Poland: SZWEYKOWSKI 1962, Map H. 75. World: SZWEYKOWSKI 1962, Map H. 75. N. Hemisphere: SZWEYKOWSKI 1962, Map H. 75. Europe: SZWEYKOWSKI 1962, Map H. 75.

quadrilobus (Lindb.) Buch — Poland and Czechoslovakia (Tatry Mountains): SZWEYKOWSKI 1960b, Map 6. Poland: SZWEYKOWSKI 1967, Map H. 74. World: SZWEYKOWSKI 1967, Map H. 74. N. Hemisphere: SZWEYKOWSKI 1967, Map H. 74. Europe: SZWEYKOWSKI 1967, Map H. 74.

OXYMITRA

paleacea Bisch. in Lindenb. — Morocco: JOVET-AST 1956b, p. 144, Map 4. Israel: JOVET-AST & BISCHLER 1966, p. 109, Carte 5. Libya: JOVET-AST & BISCHLER 1969, p. 280, Carte 9. Poland: SZWEYKOWSKI 1969, Map H. 248. World: SZWEYKOWSKI 1969, Map H. 248. N. Hemisphere: SZWEYKOWSKI 1969, Map H. 248. Europe and N. Africa: SZWEYKOWSKI 1969, Map H. 248. Tunisia (N. half): JOVET-AST & BISCHLER 1972, p. 18, Carte 13. Sardinia: BISCHLER & JOVET-AST 1973a, p. 407, Carte 9. Corsica: BISCHLER & JOVET-AST 1973b, p. 145, Carte 12. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 623, Map 1.

PACHYGLOSSA

dissitifolia Herz. — Antarctic: GROLLE 1959, p. 349. Antarctic: FULFORD 1963, p. 142, Fig. 1.

(PACHYGLOSSA contin.)

fissa (Mitt.) Herz. et Grolle — Antarctic: GROLLE 1959, p. 349.
Antarctic: FULFORD 1963, p. 142, Fig. 1. World: GROLLE 1969b,
p. 572, Fig. 6.

spgazziniana (Mass.) Herz. et Grolle — Antarctic: FULFORD 1963,
p. 142, Fig. 1.

var. exilis Herz. et Grolle — Antarctic: GROLLE 1959, p. 349.

tenacifolia (Hook. f. et Tayl.) Herz. et Grolle — Antarctic:
GROLLE 1959, p. 349. Antarctic: FULFORD 1963, p. 142, Fig. 1.

PALLAVICINIA

lyellii (Hook.) Carruth. — Poland (Przedmoście, prov. Wrocław):
KOLA 1961, p. 197, Fig. 2. Poland: SZWEYKOWSKI 1967, Map H. 50.
World: SZWEYKOWSKI 1967, Map H. 50. N. Hemisphere: SZWEYKOWSKI
1967, Map H. 50. Europe: SZWEYKOWSKI 1967, Map H. 50. Czechoslova-
kia: DUDA & VÁNA 1968b, p. 95, Karte 55; orig. J. Vána. W. France:
TOUFFET 1969b, p. 58, Fig. 18. Tunisia (N. half): JOVET-AST & BISCH-
LER 1972, p. 18, Carte 10.

PEDINOPHYLLUM

autoicum (Steph.) Inoue — World: INOUE 1974b, p. 98, Pl. 50.

interruptum (Nees) Kaal. — Poland: SZWEYKOWSKI 1964, Map H. 159.
World: SZWEYKOWSKI 1964, Map H. 159. N. Hemisphere: SZWEYKOWSKI
1964, Map H. 159. Europe: SZWEYKOWSKI 1964, Map H. 159. The British
Isles: WHITEHOUSE et al. 1967, p. 356; orig. J.A. Paton. Europe:
GROLLE 1969a, p. 107. Europe and Asia Minor: NEUMAYR 1971, p. 285,
Abb. 62. Japan: IWATSUKI 1972b, p. 136, Fig. 20. World: IWATSUKI
1972b, p. 136, Fig. 20. Corsica: BISCHLER & JOVET-AST 1973b, p. 135,
Carte 2. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 626,
Map 11. World: INOUE 1974b, p. 98, Pl. 50.

monoicum (Steph.) Grolle — World: INOUE 1974b, p. 98, Pl. 50.

pyrenaicum (Spruce) Buch — The British Isles: GREIG-SMITH 1950,
p. 330, Fig. 2.

truncatum (Steph.) Inoue — Japan: INOUE 1974b, p. 96, Pl. 49.
World: INOUE 1974b, p. 98, Pl. 50.

PELLIA

endiviifolia (Dicks.) Dum. — Norway (S of lat. 68°N): JÖRGENSEN

(PELLIA contin.)

1934, Kartblad IV e. England (Warwickshire): LAFLIN 1971, p. 693, Map 804.

f. furcigera (Hook.) Mass. — USSR (Moldavia): SIMONOV 1972, p.17.

epiphylla (L.) Corda — USA (Minn.): SCHUSTER 1953, p. 663, Pl.107, No. 128. England (Warwickshire): LAFLIN 1971, p. 692, Map 803.

USSR (Moldavia): SIMONOV 1972, p. 15. Tunisia (N. half): JOVET-AST & BISCHLER 1972, p. 18, Carte 10. Sardinia: BISCHLER & JOVET-AST 1973a, p. 410, Carte 12. Corsica: BISCHLER & JOVET-AST 1973b, p. 140, Carte 7.

fabbroniana Raddi — USA (Minn.): SCHUSTER 1953, p. 663, Pl. 107, No. 130. Tunisia (N. half): JOVET-AST & BISCHLER 1972, p. 18, Carte 12. Corsica: BISCHLER & JOVET-AST 1973b, p. 140, Carte 7. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 623, Map 3.

neesiana (Gott.) Limpr. — USA (Minn.): SCHUSTER 1953, p. 663, Pl. 107, No. 129.

PELTOLEPIS

grandis (Lindb.) Lindb. — N. Hemisphere: BERGDOLT 1932, Karte 46. World: BERGDOLT 1932, Karte 47. Arctic, Europe and W. Asia: BERGDOLT 1932, Karte 48. Norway: JØRGENSEN 1934, Kartblad II c. Scandinavia and Finland: WEIMARCK 1937, p. 369, Fig. 2 (incl. var. sibirica). W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 76.

quadrata (Saut.) K. Müll. — M. Europe (the Alps): K. MÜLLER 1939-40, p. 261, Fig. 42. World: K. MÜLLER 1939-40, p. 263, Fig. 43. Czechoslovakia: DUDA & VÁNA 1973b, p. 117, Karte 18; orig. J. Vána.

PERSSONIELLA

vitreocincta Herz. — World: SCHUSTER 1969, p. 52, Map 1.

PETALOPHYLLUM

ralfsii (Wils.) Nees et Gott. — The British Isles: WHITEHOUSE et al. 1966, p. 152; orig. J.A. Paton. Tunisia (N. half): JOVET-AST & BISCHLER 1972, p. 18, Carte 13.

PHAEOCEROS

bulbiculosus (Brotero) Prosk. — Israel: JOVET-AST & BISCHLER 1966, p. 110, Carte 11. Tunisia: JOVET-AST & BISCHLER 1972, p. 17, Carte 7.

(PHAEOCEROS contin.)

Sardinia: BISCHLER & JOVET-AST 1973a, p. 406, Carte 8. Corsica:

BISCHLER & JOVET-AST 1973b, p. 145, Carte 12.

carolinianus (Michx.) Prosk. — Czechoslovakia: DUDA & VÁNA 1972b, p. 160, Karte 1; orig. J. Duda.

laevis (L.) Prosk. — Israel: JOVET-AST & BISCHLER 1966, p. 110, Carte 10. Tunisia: JOVET-AST & BISCHLER 1972, p. 17, Carte 6.

Sardinia: BISCHLER & JOVET-AST 1973a, p. 406, Carte 8. Corsica: BISCHLER & JOVET-AST 1973b, p. 135, Carte 2.

ssp. carolinianus (Mich.) Prosk. — Libya: JOVET-AST & BISCHLER 1969, p. 284, Carte 21.

PHYLLOTHALLIA

fuegiana Schust. — World: SCHUSTER 1969, p. 52, Map 1.

nivicola Hodgs. — World: SCHUSTER 1969, p. 52, Map 1.

PLAGIOCHASMA

algericum Steph. — Tunisia: JOVET-AST & BISCHLER 1972, p. 16, Carte 3.

rupestre (Forst.) Steph. — World: K. MÜLLER 1939-40, p. 223, Fig. 33. Egypt: JOVET-AST & BISCHLER 1971b, p. 273. Tunisia: JOVET-AST & BISCHLER 1972, p. 17, Carte 5. Sardinia: BISCHLER & JOVET-AST 1973a, p. 411, Carte 13. Corsica: BISCHLER & JOVET-AST 1973b, p. 139, Carte 6.

PLAGIOCHILA

acanthophylla Gott. ssp. japonica (San. Lac.) Inoue — Japan: INOUE 1974b, p. 100, Pl. 51.

arctica Bryhn et Kaal. — World: INOUE 1974a, p. 108, Fig. 3.

var. subarctica (Jörg.) Inoue — N. Norway and Finland: JÄRVINEN 1974, p. 110, Fig. 12.

asplenioides (L.) Dum. — USA (Minn.): SCHUSTER 1953, p. 651, Pl. 95, No. 47. England (Warwickshire): LAFLIN 1971, p. 695, Map 813. Poland: SZWEYKOWSKI 1971, Map H. 160. N. Hemisphere: SZWEYKOWSKI 1971, Map H. 160. World: SZWEYKOWSKI 1971, Map H. 160. Europe and N. Africa: SZWEYKOWSKI 1971, Map H. 160. USSR (Moldavia): SIMONOV 1972, p. 17. Sardinia: BISCHLER & JOVET-AST 1973a, p. 400,

(PLAGIOCHILA contin.)

Carte 2. Corsica: BISCHLER & JOVET-AST 1973b, p. 143, Carte 10.
Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 625, Map 7.
Netherlands: VOGELPOEL 1974, p. 239, Fig. 1. World: INOUE 1974a,
p. 108, Fig. 3. Finland and W. USSR: JÄRVINEN 1974, p. 110, Fig. 12.
W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 60.

var. major Nees — England (Warwickshire): LAFLIN 1971, p. 695,
Map 814.

var. subarctica Jörg. — W. Greenland: SCHUSTER & DAMSHOLT 1974,
Map 60.

biloba — World: INOUE 1974a, p. 107, Fig. 2.

birmensis Steph. — E. Asia: INOUE 1972, p. 28, Fig. 3.

caduciloba Blomqu. — World: INOUE 1974a, p. 107, Fig. 2.

columbiana Evans — World: INOUE 1974a, p. 108, Fig. 3.

corniculata (Dum.) Dum. — World: SCHUSTER 1972, p. 9, Fig. 2 and
p. 10, Fig. 3.

crassitexta Steph. — E. Asia: INOUE 1972, p. 29, Fig. 4.

dendroides (Nees) Nees — Japan: INOUE 1974b, p. 102, Pl. 48.

dissecta Steph. — E. Asia: INOUE 1972, p. 28, Fig. 3.

fissifolia Steph. — E. Asia: INOUE 1972, p. 28, Fig. 3.

furcifolia Mitt. — Japan (Kinki-district): KODAMA 1962, p. 161.
Japan (Kinki-district): KODAMA 1963, p. 23. Japan (Honshu, Kii
Peninsula): KODAMA 1970, p. 97, Map 3. E. Asia: INOUE 1972, p. 28,
Fig. 3.

huerlimannii Inoue — E. Asia: INOUE 1972, p. 29, Fig. 4.

japonica San. Lac. — World: SCHOFIELD & CRUM 1972, p. 181, Map 1.

kodamae — World: INOUE 1974a, p. 107, Fig. 2.

lophophora Schust. — World: INOUE 1974a, p. 107, Fig. 2.

major (Nees) S. Arn. — Poland: SZWEYKOWSKI 1971, Map H. 161. World:
SZWEYKOWSKI 1971, Map H. 161. N. Hemisphere: SZWEYKOWSKI 1971,
Map H. 161. Europe: SZWEYKOWSKI 1971, Map H. 161. World: INOUE
1974a, p. 108, Fig. 3.

(*PLAGIOCHILA* contin.)

ovalifolia Mitt. — Japan: INOUE 1974b, p. 104, Pl. 52.

padangensis Schiffn. — E. Asia: INOUE 1972, p. 28, Fig. 3.

peculiares Schiffn. — E. Asia: INOUE 1972, p. 29, Fig. 4.

philippinensis Steph. — E. Asia: INOUE 1972, p. 29, Fig. 4.

porelloides (Torrey ex Nees) Lindenb. — Netherlands: VOGELPOEL 1974, p. 239, Fig. 2. N. Norway, Finland and W. USSR: JÄRVINEN 1974, p. 109, Fig. 11.

pseudoventricosa Inoue — E. Asia: INOUE 1972, p. 28, Fig. 3.

punctata Tayl. — Norway (S of lat. 62°N): JÖRGENSEN 1934, Kartblad XIV a. Norden: DEGELIUS 1935, p. 208, Fig. 52. W. Europe: K. MÜLLER 1954, p. 115, Fig. 5. Europe: REICHLING 1954, p. 101. SW. Norway (Tel., Rog.): LYE 1970, p. 39, Fig. 17a.

retusa Mitt. — World: INOUE 1974a, p. 107, Fig. 2.

satoi Hatt. — World: INOUE 1974, p. 108, Fig. 3. Japan: INOUE 1974b, p. 106, Pl. 53.

spinulosa (Dicks.) Dum. — Europe: DUVIGNEAUD 192, Pl. 12. Europe: REICHLING 1954, p. 101. Belgium: VANDEN BERGHEN 1957, p. 277, Fig. 88.

steyermarkii Robinson — World: INOUE 1974a, p. 107, Fig. 2.

stipulifera Steph. — E. Asia: INOUE 1972, p. 28, Fig. 3.

tagawae Inoue — E. Asia: INOUE 1972, p. 29, Fig. 4.

trabeculata Steph. — Japan: INOUE 1974b, p. 108, Pl. 54.

treubii Schiffn. — E. Asia: INOUE 1972, p. 28, Fig. 3.

tridenticulata (Dum.) Dum. — Norway (S of lat. 62°N): JÖRGENSEN 1934, Kartblad XXf. World: INOUE 1974a, p. 107, Fig. 2. Portugal (Madeira): SJÖGREN 1975, p. 282, Fig. 25. The British Isles: WHITEHOUSE et al. 1975, p. 388.

verruculosa Schust. — World: INOUE 1974, p. 107, Fig. 2.

yokogurensis Steph. — E. Asia: HORIKAWA 1955a, p. 124, Map 43. E. Asia: INOUE 1972, p. 28, Fig. 3.

zantenii Inoue — E. Asia: INOUE 1972, p. 29, Fig. 4.

PLECTOCOLEA

hyalina (Lyell) Mitt. — NE. Germany: KÜHNER & PANKOW 1967, p. 173, Abb. 7. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 625, Map 9.

obovata (Nees) Mitt. — W. France: TOUFFET 1969b, p. 51, Fig. 4. Tunisia (N. half): JOVET-AST & BISCHLER 1972, p. 18, Carte 10.

PLEUROCLADA

albescens (Hook.) Spruce — Alaska (Latouche Island): SHACKLETTE 1961, p. 2, Fig. 1. The British Isles: WHITEHOUSE et al. 1966, p. 153; orig. J.A. Paton. Poland: SZWEYKOWSKI 1966, Map H. 64. World: SZWEYKOWSKI 1966, Map H. 64. N. Hemisphere: SZWEYKOWSKI 1966, Map H. 64. Europe: SZWEYKOWSKI 1966, Map H. 64. World: SCHUSTER 1972, p. 49, Fig. 21. World: SCHOFIELD & CRUM 1972, p. 194, Map 40. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 63. Czechoslovakia: DUDA & VÁNA 1975b, p. 177, Karte 70; orig. J. Vána.

var. islandica (Nees) Spruce — Czechoslovakia: DUDA & VÁNA 1975b, p. 179, Karte 70A; orig. J. Vána.

f. islandica (Nees) Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 63.

PLEUROZIA

acinosa (Mitt.) Trev. — Japan: INOUE 1974b, p. 138, Pl. 69.

purpurea Lindb. — Norway (S of lat. 62°N): JÖRGENSEN 1934, Kartblad XXIII b. The British Isles, Faroes and S. Norway: GAMS 1952, p. 155, Fig. 4. E. Asia, Alaska and Hawaii: IKEGAMI 1957, p. 66, Fig. 1. The British Isles: WHITEHOUSE et al. 1969, p. 833; orig. D.A. Ratcliffe. Norway (S of lat. 64°N): LYE 1970, p. 32, Fig. 9. SW. Norway (Tel., Rog.): LYE 1970, p. 39, Fig. 17c. World: SCHOFIELD & CRUM 1972, p. 196, Map 46.

POELTIA

campylata Grolle — World: SCHUSTER 1969, p. 68, Map 17. World: SCHUSTER 1972, p. 8, Fig. 1.

stoloniformis (Kitag.) Schust. — World: SCHUSTER 1969, p. 68, Map 17. World: SCHUSTER 1972, p. 8, Fig. 1.

PORELLA

- caespitans (Steph.) Hatt. — Japan: INOUE 1974b, p. 140, Pl. 70.
- cordaeana (Hüb.) Moore — World: SCHOFIELD & CRUM 1972, p. 190, Map 28. Germany (Schlesw.-Holst.): FRAHM & WALSEMANN 1973, p. 40.
- grandiloba Lindb. — World: PERSSON 1955, p. 227, Fig. 2.
- inaequalis (Gott. ex Steph.) H. Perss. — World: PERSSON 1955, p. 227, Fig. 2.
- laevigata (Schröd.) Lindb. — Norway (S of lat. 63°N): JÖRGENSEN 1934, Kartblad XXII i. Scandinavia and Denmark: DEGELIUS 1935, p. 216, Fig. 71. Belgium: VANDEN BERGHEN 1957, p. 356, Fig. 119.
- perrottetiana (Mont.) Trev. — E. Asia: HORIKAWA 1972, Map 494.
- pinnata L. — USA (Minn.): SCHUSTER 1953, p. 660, Pl. 104, No. 112. World: PERSSON 1955, p. 227, Fig. 2.
- platyphylla (L.) Pfeiff. — Norway: JÖRGENSEN 1934, Kartblad XXV c. USA (Minn.): SCHUSTER 1953, p. 660, Pl. 104, No. 110. England (Warwickshire): LAFLIN 1971, p. 697, Map 823. USSR (Moldavia): SIMONOV 1972, p. 17. Sweden (Sm., Bjurkärr): NICKLASSON 1974, Fig. 11.
- platyphylloidea (Schwein.) Lindb. — USA (Minn.): SCHUSTER 1953, p. 660, Pl. 104, No. 111.
- thuja (Dicks.) C. Jens. — Norway (S of lat. 62°N): JÖRGENSEN 1934, Kartblad XXIII h.
- vernica Lindb. ssp. fauriei (Steph.) M. Hara — E. Asia: ANDO 1960, p. 47, Fig. 1.
- ssp. gracillima (Mitt.) Ando — E. Asia: ANDO 1960, p. 47, Fig. 1.
- ssp. vernica — E. Asia: ANDO 1960, p. 47, Fig. 1.

PRASANTHUS

- suecicus (Gott.) Lindb. — Norway: JÖRGENSEN 1934, Kartblad VII c. World: SCHUSTER 1969, p. 68, Map 17. W. Greenland: SCHUSTER & DAMS-HOLT 1974, Map 42.

PREISSIA

- quadrata (Scop.) Nees — World: K. MÜLLER 1951-57, p. 220, Fig. 35. USA (Minn.): SCHUSTER 1953, p. 665, Pl. 109, No. 140. Poland: SZWEYKOWSKI 1967, Map H. 19. World: SZWEYKOWSKI 1967, Map H. 19.

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N. Hemisphere: SZWEYKOWSKI 1967, Map H. 19. Europe: SZWEYKOWSKI 1967, Map H. 19. Corsica: BISCHLER & JOVET-AST 1973b, p. 139, Carte 6. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 623, Map 2. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 78.

PROTOCEPHALOZIELLA

obtusa (Culman) Douin — Norway (S of lat. 62°N): JÖRGENSEN 1934, Kartblad XV i.

PSEUDOCEPHALOSIA

cucullata Engel et Schust. — World: SCHUSTER & ENGEL 1974, p. 698, Fig. 16. S. America (S of lat. 52°S): SCHUSTER & ENGEL 1974, p. 699, Fig. 17.

lepidozoides Schust. — World: SCHUSTER & ENGEL 1974, p. 698, Fig. 16.

leptodictyon Schust. — World: SCHUSTER & ENGEL 1974, p. 698, Fig. 16.

lobulata (Herz.) Schust. — World: SCHUSTER & ENGEL 1974, p. 698, Fig. 16.

paludicola Schust. — World: SCHUSTER & ENGEL 1974, p. 698, Fig. 16.

quadriloba (Steph.) Schust. — World: SCHUSTER & ENGEL 1974, p. 698, Fig. 16. S. America (S of lat. 52°S): SCHUSTER & ENGEL 1974, p. 699, Fig. 17.

PSEUDOLEPICOLEA

fryei (H. Perss.) Grolle et Ando — Arctic: LADYZHENSKAJA 1971, p. 316.

PSEUDOMARSUPIIDIUM

decepiens (Hook.) Grolle — World: GROLLE 1969b, p. 577, Fig. 10.

piliferum (Steph.) Herz. — World: GROLLE 1969b, p. 577, Fig. 10.

PTILIDIUM

californicum (Aust.) Howe Underw. et Cook. — Japan: HATTORI et al. 1953, p. 23, Map 1. World: KOROTKEVICZ 1963, p. 174. Japan: INOUE 1974b, p. 14, Pl. 7.

ciliare (L.) Hampe — USA (Minn.): SCHUSTER 1953, p. 658, Pl. 102, No. 101. Japan: HATTORI et al. 1953, p. 23, Map 1. Poland:

(PTILIDIUM contin.)

SZWEYKOWSKI 1966, Map H. 60. World: SZWEYKOWSKI 1966, Map H. 60. N. Hemisphere: SZWEYKOWSKI 1966, Map H. 60. Europe: SZWEYKOWSKI 1966, Map H. 60. World: GROLLE 1969b, p. 569, Fig. 4. W. France: TOUFFET 1969b, p. 50, Fig. 2. N. America, Greenland and Iceland: SCHOFIELD 1972, p. 1122, Fig. 14. W. Greenland: SCHUSTER & DAMSHOLT 1974, Kap. 2.

pulcherrimum (G. Web.) Vainio — Japan: HATTORI et al. 1953, p. 23, Map 1. USA (Minn.): SCHUSTER 1953, p. 658, Pl. 102, No. 100. The British Isles: WHITEHOUSE et al. 1963, p. 513; orig. E.C. Wallace. Poland: SZWEYKOWSKI 1966, Map H. 61. World: SZWEYKOWSKI 1966, Map H. 61. N. Hemisphere: SZWEYKOWSKI 1966, Map H. 61. Europe: SZWEYKOWSKI 1966, Map H. 61. Sweden (Sthlm reg.): LUNDSTRÖM 1968, p. 36, Karta 18.

PTYCHANTHUS

striatus (Lehm. et Lindenb.) Nees — Japan and Formosa: HORIKAWA 1952, p. 88, Map 17. E. Asia: HORIKAWA 1955, p. 97, Map 33. S. Japan: MIZUTANI 1961, p. 286, Map 2a.

PTYCHOCOLEUS

nipponicus Hatt. — Japan (excl. Hokkaido): MIZUTANI 1961, p. 286, Map 2c.

PYCNOLEJEUNEA

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rhenana Lorbeer in K. Müll. — S. Finland and parts of USSR: ERKAMO 1956, p. 176, Abb. 41. M. Europe: SOBOTKA 1958, p. 223, Fig. 7. Poland (Miekinia, prov. Wrocław): KOLA 1961, p. 196, Fig. 1. Europe and Asia: GAJEVÁJA 1964, p. 252. Czechoslovakia: DUDA & VÁNA 1970b, p. 24, Karte 28; orig. M. Rivola and J. Duda.

sommieri Levier in Sommier — Morocco: JOVET-AST 1956b, p. 146, Map 20. Portugal: SERGIO & MENDES 1971, p. 51, Fig. 1. Sardinia: BISCHLER & JOVET-AST 1973a, p. 405, Carte 7. SW. Europe and N. Africa: BISCHLER & JOVET-AST 1973c, p. 273, Carte 1.

sorocarpa Bisch. — Morocco: JOVET-AST 1956b, p. 144, Map 1. Iberia and Morocco: V. ALLORGE & JOVET-AST 1958, p. 143, Map 2. SE. Asia: K.P. SRIVASTAVA 1964, p. 62. Israel: JOVET-AST & BISCHLER 1966, p. 115, Carte 30. Libya: JOVET-AST & BISCHLER 1969, p. 278, Carte 2. England (Warwickshire): LAFLIN 1971, p. 692, Map 800. Egypt: JOVET-AST & BISCHLER 1971b, p. 280. Tunisia: JOVET-AST & BISCHLER 1972, p. 17, Carte 5. Sardinia: BISCHLER & JOVET-AST 1973a, p. 405, Carte 7. Corsica: BISCHLER & JOVET-AST 1973b, p. 147, Carte 14. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 80. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 624, Map 5.

var. heegii Schiffn. — Tunisia: JOVET-AST & BISCHLER 1972, p. 17, Carte 5. Sardinia: BISCHLER & JOVET-AST 1973a, p. 404, Carte 6. Corsica: BISCHLER & JOVET-AST 1973b, p. 148, Carte 15.

subbifurca Warnst. ex Crozals — Israel: JOVET-AST & BISCHLER 1966, p. 109, Carte 7. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 625, Map 7. Czechoslovakia: DUDA & VÁNA 1975b, p. 172, Karte 39; orig. J. Duda.

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americana Howe et Underw. — N. and S. America, Europe, W. Asia and Africa: ALLORGE 1932a, Karte 41. N. America (S. part): PROCTOR 1972, p. 283, Fig. 1.

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cyrenaica Maire — NE. Libya (Lamluda reg.): JELENC 1957, p. 27, Carte 14. N. Africa: JELENC 1957, p. 47, Carte générale. Libya: JOVET-AST & BISCHLER 1969, p. 284, Carte 20.

helicophylla (Bory et Mont.) Mont. — Europe and N. Africa: ALLORGE 1932, Karte 42. NW. Algeria (Oran reg.): JELENC 1957, p. 23, Carte 3. N. Tunisia (Tunis reg.): JELENC 1957, p. 27, Carte 10 and Carte 10 bis. NW. Algeria (Rass el Guessa reg.): JELENC 1957, p. 29, Carte 7. N. Africa: JELENC 1957, p. 47, Carte générale. Egypt: JOVET-AST & BISCHLER 1971b, p. 273. Tunisia (N. half): JOVET-AST & BISCHLER 1972, p. 19, Carte 14.

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parisii Gott. in Gott. et Rabenh. — Europe and N. Africa: ALLORGE 1932, Karte 42. N. Africa: JELENC 1957, p. 25, Carte 9 and p. 47, Carte générale.

paulsenii Porsild — N. and S. America, Europe, W. Asia and Africa: ALLORGE 1932, Karte 41. USSR: LADYZHENSKAJA & OBUCHOVA 1956, p. 178.

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alpina (Nees) Nees — N. Hemisphere: BERGDOLT 1932, Karte 46. World: BERGDOLT 1932, Karte 47. Arctic, Europe and W. Asia: BERGDOLT 1932, Karte 48. Norway: JÖRGENSEN 1934, Kartblad IIb. M. Europe (the Alps): K. MÜLLER 1939-40, p. 261, Fig. 42. World: K. MÜLLER 1939-40, p. 263, Fig. 43. Poland: SZWEYKOWSKI 1966, Map H. 16. World: SZWEYKOWSKI 1966, Map H. 16. N. Hemisphere: SZWEYKOWSKI 1966, Map H. 16. Europe: SZWEYKOWSKI 1966, Map H. 16. Czechoslovakia: DUDA & VÁNA 1973b, p. 115, Karte 17; orig. J. Vána. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 77.

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hookeri (Lyell) S.F. Gray — Norway: JÖRGENSEN 1934, Kartblad IV d.

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ampliata Steph. — Japan: INOUE 1974b, p. 72, Pl. 36.

apiculata Spruce — Norway (S of lat. 64° N): JÖRGENSEN 1934, Kartblad XVI f. USA (Minn.): SCHUSTER 1953, p. 653, Pl. 97, No. 63. N. America: SCHUSTER 1958a, p. 279, Fig. 52. Poland: REJMENT-GROCHOWSKA 1958, p. 280, Fig. 2. Czechoslovakia: DUDA & VÁNA 1968b, p. 107, Karte 174; orig. J. Duda.

aspera H. Bern. — Norway (S of lat. 66° N): JÖRGENSEN 1934, Kartblad XVIII f. M. Europe: REJMENT-GROCHOWSKA 1950, Mapa 2. Czechoslovakia: DUDA & VÁNA 1970a, p. 90, Karte 187; orig. J. Duda. Corsica: BISCHLER & JOVET-AST 1973b, p. 147, Carte 14. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 624, Map 4.

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buchii K. Müll. — Norway: JÖRGENSEN 1934, Kartblad XVII d. USA (Minn.): SCHUSTER 1953, p. 653, Pl. 97, No. 64. N. America and Greenland: SCHUSTER 1958a, p. 297, Fig. 73.

calciicola (H. Arn. et H. Perss.) Ingham — Norway: JÖRGENSEN 1934, Kartblad XVII f. Czechoslovakia: DUDA & VÁNA 1968b, p. 110, Karte 176; orig. J. Duda.

carinthiaca Jack in Lindb. — USA (Minn.): SCHUSTER 1953, p. 653, Pl. 97, No. 60.

ciliata San. Lac. — Japan: INOUE 1974b, p. 74, Pl. 37.

compacta (Roth) Dum. — Norden: BUCH 1928, p. 166, Fig. XXXVIII. Norway (S of lat. 62° N): JÖRGENSEN 1934, Kartblad XVII a. Europe and N. Africa: K. MÜLLER 1951-57, p. 980, Fig. 358. Europe and N. Africa: K. MÜLLER 1954, p. 116, Fig. 6. Germany (Schlesw.-Holst.): N. JENSEN 1955, p. 85, Karte 4. Czechoslovakia: DUDA & VÁNA 1971a,

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crassiretis Bryhn — Norway: JÖRGENSEN 1934, Kartblad XVIIIe.
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J. Duda. Corsica: BISCHLER & JOVET-AST 1973b, p. 137, Carte 4.
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vakia: DUDA & VÁNA 1968b, p. 109, Karte 175; orig. J. Duda. W. Green-
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Czechoslovakia: DUDA & VÁNA 1970c, p. 184, Karte 191; orig. J. Duda.
W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 56.

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No. 68. N. America and Greenland: SCHUSTER 1958b, p. 221, Fig. 10.
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gymnostomophila Kaal. — Norway: JÖRGENSEN 1934, Kartblad XIX b. Finland and W. USSR: AUER 1944, p. 33, Kartta 11. Finland (Kuusamo): AUER 1944, p. 33, Kartta 12. USA (Minn.): SCHUSTER 1953, p. 653, Pl. 97, No. 62. N. America: SCHUSTER 1958a, p. 287, Fig. 61, World: SZWEYKOWSKI 1958, p. 375, Fig. 3. N. America and Greenland: SCHUSTER 1958b, p. 215, Fig. 5 (incl. *S. incurva*). Poland and Czechoslovakia: (Tatry Mountains): SZWEYKOWSKI 1960b, Map 8. Czechoslovakia: DUDA & VÁNA 1968b, p. 103, Karte 172; orig. J. Duda. Poland: SZWEYKOWSKI 1971, Map H. 165. World: SZWEYKOWSKI 1971, Map H. 165. N. Hemisphere: SZWEYKOWSKI 1971, Map H. 165. Europe: SZWEYKOWSKI 1971, Map H. 165. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 47.

hedbergii S. Arn. — World: SCHUSTER 1969, p. 72, Map 20.

helvetica Gott. in Gott. et Rabenh. — M. Europe: K. MÜLLER 1954, p. 114, Fig. 4. Poland: REJMENT-GROCHOWSKA 1958, p. 280, Fig. 2. Czechoslovakia: DUDA & VÁNA 1969a, p. 42, Karte 179; orig. J. Duda.

hyperborea Jörg. — Norway: JÖRGENSEN 1934, Kartblad XVII c. N. America and Greenland: SCHUSTER 1958a, p. 283, Fig. 57. N. America and Greenland: SCHUSTER 1958b, p. 221, Fig. 10. N. Hemisphere: REJMENT-GROCHOWSKA 1967, p. 533, Fig. 1. Spitzbergen (Hornsund): REJMENT-GROCHOWSKA 1967, p. 534, Fig. 2. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 55.

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var. microphylla (Warnst.) Schust. — W. Greenland: SCHUSTER & DAMS-HOLT 1974, Map 51.

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mucronata Buch — USA (Minn.): SCHUSTER 1953, p. 653, Pl. 97, No. 66. Czechoslovakia: DUDA & VÁNA 1969a, p. 46, Karte 181; orig. J. Duda. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 52.

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paludosa (K. Müll.) K. Müll. — Czechoslovakia: DUDA & VÁNA 1971a, p. 45, Karte 193; orig. J. Duda.

paradoxa Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 46.

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pulcherrima Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 54.

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saxicola Schust. — USA (Minn.): SCHUSTER 1953, p. 653, Pl. 97, No. 61.

scandica (H. Arn. et Buch). Macv. — N. America and Greenland: SCHUSTER 1958a, p. 300, Fig. 79. N. America and Greenland: SCHUSTER 1958b, p. 215, Fig. 4. Czechoslovakia: DUDA & VÁNA 1969a, p. 44, Karte 180; orig. J. Duda. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 53.

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spitzbergensis (Lindb.) K. Müll. — Scandinavia and Finland: WEIMARCK 1937, p. 373, Fig. 4. Arctic: K. MÜLLER 1951-57, p. 987, Fig. 362. N. Hemisphere: SCHUSTER 1951, p. 174, Map 1. N. Hemisphere: REJMENT-GROCHOWSKA 1967, p. 533, Fig. 1. Spitzbergen (Hornsund): REJMENT-GROCHOWSKA 1967, p. 534, Fig. 2. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 59.

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tundrae (H. Arn.) Buch — Norway (S of lat. 62°N): JÖRGENSEN 1934, Kartblad XVII a. N. Hemisphere: REJMENT-GROCHOWSKA 1967, p. 533,

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Fig. 1. Spitzbergen (Hornsund): REJMENT-GROCHOWSKA 1967, p. 534,

Fig. 2. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 56.

uliginosa (Sw. ex Lindenb.) Dum. — Norden and W. USSR: BUCH 1928, p. 166, Fig. XXXVIII. Czechoslovakia: DUDA & VÁNA 1971a, p. 52, Karte 195; orig. J. Duda. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 58.

umbrosa (Schrad.) Dum. — USA (Minn.): SCHUSTER 1953, p. 654, Pl. 98, No. 70. N. America: SCHUSTER 1958, p. 299, Fig. 78. W. France: TOUFFET 1969b, p. 50, Fig. 2. Czechoslovakia: DUDA & VÁNA 1970a, p. 80, Karte 185; orig. J. Duda. Poland: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 179. World: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 179. N. Hemisphere: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 179. Europe: SZWEYKOWSKI & KOŹLICKA 197, Map H. 179.

undulata (L.) Dum. — USA (Minn.): SCHUSTER 1953, p. 654, Pl. 98, No. 71. Czechoslovakia: DUDA & VÁNA 1971b, p. 114, Karte 192; orig. J. Duda. Tunisia (N. half): JOVET-AST & BISCHLER 1972, p. 18, Carte 9. Corsica: BISCHLER & JOVET-AST 1973b, p. 143, Carte 10. Japan: INOUE 1974b, p. 78, Pl. 39.

var. oakesii (Aust.) Buch — Norway (S of lat. 62°N): JÖRGENSEN 1934, Kartblad XVIII g.

f. aequatiformis (De Not.) Duda — Czechoslovakia: DUDA & VÁNA 1972a, p. 69, Karte 192b; orig. J. Duda.

f. dentata (Dum.) Duda — Czechoslovakia: DUDA & VÁNA 1972a, p. 65, Karte 192a, orig. J. Duda.

f. oakesii (Aust.) Duda — Czechoslovakia: DUDA & VÁNA 1972a, p. 65, Karte 192a; orig. J. Duda.

verrucosa Heeg — Poland: SZWEYKOWSKI 1969, Map H. 182. World: SZWEYKOWSKI 1969, Map H. 182. N. Hemisphere: SZWEYKOWSKI 1969, Map H. 182. Europe: SZWEYKOWSKI 1969, Map H. 182.

SCHIFFNERIA

hyalina Steph. — E. Asia and Australia: HORIKAWA 1952, p. 67, Map 4. Japan and Formosa: HORIKAWA 1952, p. 66, Map 3. E. Asia: HORIKAWA 1955, p. 105, Map 36. Japan: INOUE 1974b, p. 128, Pl. 64.

SCHISMA

sendtneri Nees — M. Europe (the Alps): GAMS 1930, p. 16, Fig. 3.
M. Europe (the Alps): GAMS 1932b, p. 53, Fig. 1.

SCHISTOCHILA

nuda Horik. — E. Asia: HORIKAWA 1972, Map 493.

SIPHONOLEJEUNEA

nudicalycina Herz. — World: SCHUSTER 1969, p. 62, Map 12.

nudipes (Hook. f. et Tayl.) Herz. — World: SCHUSTER 1969, p. 62, Map 12.

schiffneri (Steph.) Herz. -- World: SCHUSTER 1969, p. 62, Map 12.

SOLENOSTOMA

appalachianum Schust. -- N. America: SCHUSTER 1958a, p. 295, Fig. 71.
N. America: SCHUSTER 1958b, p. 245, Fig. 18.

caespiticia (Lindenb.) Steph. — The British Isles: WHITEHOUSE et al. 1966, p. 156; orig. J.A. Paton.

cordifolium (Hook.) Steph. — Europe and W. Asia: K. MÜLLER 1951-57, p. 826, Fig. 282a, Europe: K. MÜLLER 1954, p. 112, Fig. 3.

crenulatum (Sm.) Mitt. — USA (Minn.): SCHUSTER 1953, p. 651, Pl. 95, No. 44. England (Warwickshire): LAFLIN 1971, p. 694, Map 811.
Tunisia: JOVET-AST & BISCHLER 1972, p. 17, Carte 6. Corsica: BISCHLER & JOVET-AST 1973b, p. 143, Carte 10.

f. elatior Gott. — Poland (Miekinia, prov. Wroclaw): KOLA 1961, p. 196, Fig. 1.

hyalinum (Lyell) Mitt. — USA (Minn.): SCHUSTER 1953, p. 650, Pl. 94, No. 43.

oblongifolium (K. Müll.) K. Müll. -- W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 33.

pumilum (With.) K. Müll. — USA (Minn.): SCHUSTER 1953, p. 650, Pl. 94, No. 42. Corsica: BISCHLER & JOVET-AST 1973b, p. 147, Carte 14. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 34.

ssp. anomalum Schust. et Damsholt — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 34.

(SOLENOTOMA contin.)

ssp. polaris (Berggr.) Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 34.

var. rivulare Schiffn. — Poland and Czechoslovakia (Tatry Mountains): SZWEYKOWSKI 1960b, Map 8.

pusillum (C. Jens.) Steph. — N. America: SCHUSTER 1958a, p. 303, Fig. 80. Poland and Czechoslovakia (Tatry Mountains): SZWEYKOWSKI 1960b, Map 7. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 35.

pyriflorum Steph. ssp. purpureum Schust. et Damsholt — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 36.

schiffneri (Loitlesb.) K. Müll. — USA (Minn.): SCHUSTER 1953, p. 650, Pl. 94, No. 41. N. America and Greenland: SCHUSTER 1958a, p. 297, Fig. 74. Europe: PÓCS 1960, p. 165. World: PÓCS 1960, p. 165. Poland and Czechoslovakia (Tatry Mountains): SZWEYKOWSKI 1960b, Map 8.

sphaerocarpum (Hook.) Steph. — USA (Minn.): SCHUSTER 1953, p. 650, Pl. 94, No. 40. N. America, Greenland and Iceland: SCHUSTER 1958a, p. 303, Fig. 80. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 35.

var. nana (Nees) Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 35.

subellipticum (Lindb.) Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 36.

triste (Nees) K. Müll. — Corsica: BISCHLER & JOVET-AST 1973b, p. 144, Carte 11. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 625, Map 8.

SOUTHBIA

nigrella (De Not.) Henriques — Israel: JOVET-AST & BISCHLER 1966, p. 113, Carte 23. W. France: TOUFFET 1969b, p. 57, Fig. 16. Libya: JOVET-AST & BISCHLER 1969, p. 280, Carte 8. Tunisia: JOVET-AST & BISCHLER 1972, p. 17, Carte 5. Sardinia: BISCHLER & JOVET-AST 1973a, p. 407, Carte 9. Corsica: BISCHLER & JOVET-AST 1973b, p. 136, Carte 3. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 625, Map 7. The British Isles: WHITEHOUSE et al. 1975, p. 386. Europe, Asia and N. Africa: LADYZHENSKAJA & GAJEVAJA 1975, p. 1506.

stillicidiorum (Raddi) Lindb. — Europe, Asia and N. Africa:

(SOUTHYA contin.)

tophacea (Spruce) Spruce — Israel: JOVET-AST & BISCHLER 1966, p. 108, Carte 3. Tunisia: JOVET-AST & BISCHLER 1972, p. 17, Carte 5. Corsica: BISCHLER & JOVET-AST 1973b, p. 148, Carte 15. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 625, Map 8. Europe, Asia and N. Africa: LADYZHENSKAJA & GAJEVAJA 1975, p. 1506.

SPHAEROCARPUS

europaeus Lorbeer — W. Europe (S of lat. 59°N) and N. Africa: K. MÜLLER 1939-40, p. 205, Fig. 29. W. Europe (S of lat 59°N) and N. Africa: K. MÜLLER 1951-57, p. 312, Fig. 47.

melchiorii Bellardi — W. Europe (S of lat. 59°N) and N. Africa: K. MÜLLER 1939-40, p. 205, Fig. 29. W. Europe (S of lat. 59°N) and N. Africa: K. MÜLLER 1951-57, p. 312, Fig. 47. The British Isles: WHITEHOUSE et al. 1966, p. 149; orig. J.A. Paton. Israel: JOVET-AST & BISCHLER 1966, p. 115, Carte 31. Libya: JOVET-AST & BISCHLER 1969, p. 282, Carte 13. Tunisia: JOVET-AST & BISCHLER 1972, p. 17, Carte 7. Sardinia: BISCHLER & JOVET-AST 1973a, p. 410, Carte 12. Corsica: BISCHLER & JOVET-AST 1973b, p. 135, Carte 2.

texasus Aust. — The British Isles: WHITEHOUSE et al. 1966, p. 150; orig. J.A. Paton. Libya: JOVET-AST & BISCHLER 1969, p. 282, Carte 14.

SPHENOLOBOPSIS

pearsonii (Spruce) Schust. — World: SCHUSTER 1972, p. 9, Fig. 2 and p. 10, Fig. 3.

SPHENOLOBUS

helleranus (Nees in Lindenb.) Steph. — Norway (S of lat. 65°N): JÖRGENSEN 1934, Kartblad XI d. The British Isles: WHITEHOUSE et al. 1970, p. 143; orig. J.G. Duckett.

michauxii (Web. fil.) Steph. — Norway (S of lat. 64°N): JÖRGENSEN 1934, Kartblad XII a.

minutus (Schreb.) Berggr. — Denmark: KJ. HOLMEN et al. 1959, p. 119, Fig. 7; orig. Eva Clausen. Poland: SZWEYKOWSKI 1969, Map H. 108. World: SZWEYKOWSKI 1969, Map H. 108. N. Hemisphere: SZWEYKOWSKI 1969, Map H. 108. Europe: SZWEYKOWSKI 1969, Map H. 108. W. France: TOUFFET 1969b, p. 51, Fig. 4.

saxicolus (Schrad.) Steph. — Norway: JÖRGENSEN 1934, Kartblad IX b.

SPRUCEANTHUS

polymorphus (San. Lac.) Verd. — Japan and Formosa: HORIKAWA 1954, p. 276, Map 29. E. Asia and Australia: HORIKAWA 1954, p. 277, Map 30. Japan (Honshu, Kii Peninsula): KODAMA 1970, p. 100, Map 4.

semirepandus (Nees) Verd. — Japan and Formosa: HORIKAWA 1952, p. 92, Map 19. E. Asia and Australia: HORIKAWA 1952, p. 93, Map 20. E. Asia: HORIKAWA 1955, p. 107, Map 37. S. Japan: MIZUTANI 1961, p. 286, Map 2a. Japan: INOUE 1974b, p. 148, Pl. 74.

STEEREA

mastigophoroides Hatt. et Mizut. — World; SCHUSTER 1972, p. 46, Fig. 18.

STEEREOCOLEA

bisbifida (Steph.) Schust. — World; SCHUSTER 1969, p. 52, Map 2.

STENOLEJEUNEA

apiculata (San. Lac.) Schust. — World: SCHUSTER 1969, p. 72, Map 21.

morobensis Grolle — World: SCHUSTER 1969, p. 72, Map 21.

thallophora (Eifrig) Schust. — World: SCHUSTER 1969, p. 72, Map 21.

STEPHANIELLA

paraphyllina Jack — World: GROLLE 1969b, p. 575, Fig. 8.

STICTOLEJEUNEA

squamata (Willd.) Schiffn. — S. USA, M. America, S. America (N. part and The Antilles): JOVET-AST 1960, p. 124, Fig. 1.

SYMBIEZIDIUM

laceratum Evans — Florida, Honduras and the Antilles: JOVET-AST 1960, p. 127, Fig. 2.

samoanum (Steph.) Steph. — Indomalayan Islands, Australia and Oceania: MILLER, WHITTIER & BONNER 1963, Pl. 26.

SYZIGIELLA

anomala (Lindenb. et Gott.) Steph. — World: SCHUSTER 1969, p. 78, Map 22.

bilobata Inoue — World: SCHUSTER 1969, p. 78, Map 22.

campanulata Schust. — World: SCHUSTER 1969, p. 78, Map 22.

concreta (Gott.) Spruce — World: SCHUSTER 1969, p. 78, Map 22.

(SYZIGIELLA contin.)

- eatonii (Aust.) Inoue — World: SCHUSTER 1969, p. 78, Map 22.
- geminifolia (Mitt.) Steph. — World: SCHUSTER 1969, p. 78, Map 22.
- integerrima Steph. — World: SCHUSTER 1969, p. 78, Map 22.
- macrocalyx (Mont.) Spruce — World: SCHUSTER 1969, p. 78, Map 22.
- manca (Mont.) Steph. — World: SCHUSTER 1969, p. 78, Map 22.
- ovalifolia Inoue — World: SCHUSTER 1969, p. 78, Map 22.
- pectiniformis Spruce — World: SCHUSTER 1969, p. 78, Map 22.
- perfoliata (Sw.) Spruce — World: SCHUSTER 1969, p. 78, Map 22.
- pseudoconnexa (Herz.) Inoue — World: SCHUSTER 1969, p. 78, Map 22.
- rubricaulis (Nees) Steph. — World: SCHUSTER 1969, p. 78, Map 22.
- ruwenzorensis Steph. — World: SCHUSTER 1969, p. 78, Map 22.
- setulosa Steph. — World: SCHUSTER 1969, p. 78, Map 22.
- subintegerrima (Nees) Spruce — World: SCHUSTER 1969, p. 78, Map 22.
- tonduzana Steph. — World: SCHUSTER 1969, p. 78, Map 22.
- uleana Steph. — World: SCHUSTER 1969, p. 78, Map 22.
- variegata (Lindenb.) Spruce — World: SCHUSTER 1969, p. 78, Map 22.

TAKAKIA

- ceratophylla (Mitt.) Grolle — E. Asia and N. America: HATTORI et al. 1968, p. 143, Fig. 4. E. Asia and N. America: IWATSUKI 1972a, p. 129, Fig. 2. World: SCHUSTER 1972, p. 36, Fig. 11. World: SCHOFIELD & CRUM 1972, p. 186, Map 16. E. Asia and N. America: HATTORI et al. 1974, p. 116, Fig. 1.

- lepidozoioides Hatt. et Inoue — E. Asia and N. America: HATTORI et al. 1968, p. 143, Fig. 4. E. Asia and N. America: IWATSUKI 1972a, p. 129, Fig. 2. World: SCHUSTER 1972, p. 36, Fig. 11. E. Asia and N. America: HATTORI et al. 1974, p. 116, Fig. 1.

TARGIONIA

- hypophylla L. — Czechoslovakia: SUZA 1938, p. 55, Karte 6. World: K. MÜLLER 1939-40, p. 223, Fig. 33. Europe and Asia: LADYZHENSKAJA 1950, p. 202. Iberia: JOVET-AST 1956a, p. 135. Israel: JOVET-AST &

(TARGIONIA contin.)

BISCHLER 1966, p. 112, Carte 18. The British Isles: WHITEHOUSE et al. 1967, p. 353; orig. A. McG. Stirling. Libya: JOVET-AST & BISCHLER 1969, p. 279, Carte 6. Tunisia: JOVET-AST & BISCHLER 1972, p.16, Carte 2. Sardinia: BISCHLER & JOVET-AST 1973a, p. 406, Carte 8. Corsica: BISCHLER & JOVET-AST 1973b, p. 145, Carte 12. Czechoslovakia: DUDA & VÁNA 1973b, p. 98, Karte 5; orig. J. Vána. Yugoslavia (coast reg.): BISCHLER & JOVET-AST 1974, p. 626, Map 10. S. America: VITAL 1974a, p. 140.

lorbeerana K. Müll. — Europe and N. Africa: RAUH 1952, p. 80, Karte 1. Iberia: JOVET-AST 1956a, p. 135. Morocco: JOVET-AST 1956b, p. 144, Map 2. Israel: JOVET-AST & BISCHLER 1966, p. 112, Carte 17. Libya: JOVET-AST & BISCHLER 1969, p. 279, Carte 4.

TELARANEA

setacea (Web.) K. Müll. — SW. Germany: DÜLL 1969, p. 301. Taf. 7a.
silvatica (Evans) K. Müll. — SW. Germany: DÜLL 1969, p. 299, Taf.6a.
trichocladus (K. Müll.) K. Müll. — W. Europe: K. MÜLLER 1951-57, p. 1140, Fig. 433. Europe: K. MÜLLER 1954, p. 116, Fig. 6. SW. Germany: DÜLL 1969, p. 299, Taf. 6a.

TEMNOMA

angustifolium Schust. — World: SCHUSTER 1969, p. 66, Map 14.
birmense (Steph.) Horik. — Japan and Corea: HORIKAWA 1952, p. 75, Map 8. E. Asia and Australia: HORIKAWA 1952, p. 76, Map 9. E. Asia: HORIKAWA 1955, p. 109, Map 38.
palmatum (Lindb.) Schust. — World: SCHUSTER 1969, p. 66, Map 14.
patagonicum Schust. — World: SCHUSTER 1969, p. 66, Map 14.
paucisetigerum Schust. — World: SCHUSTER 1969, p. 66, Map 14.
pilosum Evans — World: SCHUSTER 1969, p. 66, Map 14.
pulchellum (Hook.) Mitt. — World: SCHUSTER 1969, p. 66, Map 14.
quadrifidum (Mitt.) Mitt. — World: SCHUSTER 1969, p. 66, Map 14.
quadripartitum (Hook.) Mitt. — World: SCHUSTER 1969, p. 66, Map 14.
setigerum (Lindenb.) Schust. — World: SCHUSTER 1969, p. 66, Map 14.
townrowii Schust. — World: SCHUSTER 1969, p. 66, Map 14.

TESSELINA

pyramidata (Raddi) Dum. — Czechoslovakia: SUZA 1935, p. 482, Karte 19. M. Europe: GAMS 1938, p. 62, Fig. 2. Europe (S of lat. 57°N), Asia Minor and N. Africa: GAMS 1938, p. 64, Fig. 3. Czechoslovakia: SUZA 1938, p. 31, Karte 3.

TETRACYMBALIELLA

comptonii (Pears.) Grolle — World: SCHUSTER 1969, p. 52, Map 3.

cymbalifera (Hook. f. et Tayl.) Grolle — World: SCHUSTER 1969, p. 52, Map 3.

decipiens (Gott.) Grolle — World: SCHUSTER 1969, p. 52, Map 3.

TREUBIA

bracteata Steph. — Asia, Australia and America: HATTORI et al. 1966, p. 489, Fig. 1.

insignis Goeb. — Japan and Formosa: HORIKAWA 1951b, p. 12, Map 1. Asia, Australia and America: HATTORI et al. 1966, p. 489, Fig. 1. World: SCHUSTER 1972, p. 38, Fig. 12 (ssp. *insignis*).

ssp. bracteata (Steph.) Schust. et Scott — World: SCHUSTER 1972, p. 38, Fig. 12.

ssp. caledonica Schust. — World: SCHUSTER 1972, p. 38, Fig. 12.

ssp. vitiensis Schust. — World: SCHUSTER 1972, p. 38, Fig. 12.

lacunosa (Col.) Prosk. — Asia, Australia and America: HATTORI et al. 1966, p. 489, Fig. 1. World: SCHUSTER 1972, p. 38, Fig. 12.

nana Hatt. et Inoue — World: SCHUSTER 1972, p. 38, Fig. 12. World: SCHOFIELD & CRUM 1972, p. 187, Map 20.

pusilla Schust. — World: SCHUSTER 1972, p. 38, Fig. 12.

scapanioides Schust. — World: SCHUSTER 1972, p. 38, Fig. 12.

tahitensis (Nadeau) Besch. — World: SCHUSTER 1972, p. 38, Fig. 12.

tasmanica Schust. et Scott — Asia, Australia and America: HATTORI et al. 1966, p. 489, Fig. 1. World: SCHUSTER 1972, p. 38, Fig. 12.

TRIANDROPHYLLUM

subtrifidum (Hook. f. et Tayl.) Fulf. et Hatch. — World: GROLLE 1969b, p. 574, Fig. 7.

TRICHOCOLEA

tomentella (Ehrh.) Dum. — Norway (S of lat. 62°N): JÖRGENSEN 1934, Kartblad XXV g. Europe and N. Africa: K. MÜLLER 1951-57, p. 589, Fig. 174. Iberia: CASAS DE PUIG 1953, p. 396. Newfoundland: BUCH & TUOMIKOSKI 1955, p. 28, Map 4. Poland: SZWEYKOWSKI 1966, Map H. 65. World: SZWEYKOWSKI 1966, Map H. 65. N. Hemisphere: SZWEYKOWSKI 1966, Map H. 65. Europe and N. Africa: SZWEYKOWSKI 1966, Map H. 65. Europe: NEUMAYR 1971, p. 199, Abb. 43.

TRICHOCOLEOPSIS

bisseti (Mitt.) Horik. — E. Asia: HORIKAWA 1955a, p. 150, Map 55. sacculata (Mitt.) S. Okam. — E. Asia: HORIKAWA 1955a, p. 133, Map 47. World: SCHUSTER 1969, p. 54, Map 6. Japan: INOUE 1974b, p. 16, Pl. 8.

TRICHOTEMNOMA

corrugatum (Steph.) Schust. — World: SCHUSTER 1969, p. 54, Map 4 and p. 66, Map 14.

TRITOMARIA

exsecta (Schröd.) Loeske — Norway (S of lat. 62°N): JÖRGENSEN 1934, Kartblad XII b. USA (Min.): SCHUSTER 1953, p. 649, Pl. 93, No. 29. The British Isles: WHITEHOUSE et al. 1967, p. 355; orig. J.A. Paton. World: SCHUSTER 1969, p. 78, Map 23. Corsica: BISCHLER & JOVET-AST 1973b, p. 144, Carte 11. Poland: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 114. World: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 114. N. Hemisphere: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 114. Europe: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 114.

exsectiformis (Breidl.) Loeske — Norway: JÖRGENSEN 1934, Kartblad XI b. USA (Minn.): SCHUSTER 1953, p. 649, Pl. 93, No. 30. Germany (Bayern): SCHMIDT 1958, p. 123, Fig. 5. Denmark: KJ. HOLMEN et al. 1959, p. 120, Fig. 9; orig. Eva Clausen. Germany (Schlesw.-Holst.): FRAHM & WALSEMANN 1973, p. 24. Poland: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 113. World: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 113. N. Hemisphere: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 113. Europe: SZWEYKOWSKI & KOŹLICKA 1974, Map H. 113.

ssp. arctica Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 27.

(TRITOMARIA contin.)

heterophylla Schust. — N. America and Greenland: SCHOFIELD 1972, p. 1123, Fig. 19. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 27.

polita (Nees) Jörg. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 29.

ssp. polymorpha Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 29.

quinquedentata (Huds.) Buch — USA (Minn.): SCHUSTER 1953, p. 649, Pl. 93, No. 31. N. America, Greenland and Iceland: SCHUSTER 1958a, p. 304, Fig. 81. Denmark: KJ. HOLMEN et al. 1959, p. 119, Fig. 8; orig. Eva Clausen. W. France: TOUFFET 1969b, p. 52, Fig. 5. Corsica: BISCHLER & JOVET-AST 1973b, p. 145, Carte 12. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 28.

var. grandiretis Buch et S. Arn. — N. America: SCHUSTER 1958a, p. 304, Fig. 81. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 28.

var. turgida (Lindb.) H. Weim. — N. America: SCHUSTER 1958a, p. 304, Fig. 81. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 28.

f. gracilis (C. Jens.) Schust. — W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 28.

scitula (Tayl.) Jörg. — Norway: JÖRGENSEN 1934, Kartblad XI a. Finland (Kuusamo): AUER 1944, p. 24, Kartta 7. USA (Minn.): SCHUSTER 1953, p. 649, Pl. 93, No. 28. N. America: SCHUSTER 1958a, p. 292, Fig. 69. W. Greenland: SCHUSTER & DAMSHOLT 1974, Map 27.

TUYAMAELLA

angulistipa (Steph.) Schust. et Kachroo — World: SCHUSTER 1969, p. 62, Map 12.

appendiculata (Herz.) Schust. et Kachroo — World: SCHUSTER 1969, p. 62, Map 12.

bonensis (Horik.) Schust. — World: SCHUSTER 1969, p. 62, Map 12.

molischii (Schiffn.) Hatt. — World: SCHUSTER 1969, p. 62, Map 12.

serratistipa Hatt. — World: SCHUSTER 1969, p. 62, Map 12.

VERDOORNIA

succulenta Schust. — World: SCHUSTER 1969, p. 52, Map 1.

VETAFORMA

abnormis (Steph.) Fulf. et Tayl. — World: SCHUSTER 1969, p. 52, Map 2.

WETTSTEINIA

densiretis (Herz.) Grolle — World: SCHUSTER 1969, p. 58, Map 9.

inversa (San. Lac.) Schiffn. — World: SCHUSTER 1969, p. 58, Map 9.

rotundifolia (Horik.) Grolle — World: SCHUSTER 1969, p. 58, Map 9.

schusterana Grolle — World: SCHUSTER 1969, p. 58, Map 9.

WIESNERELLA

denudata (Mitt.) Steph. — Japan and Formosa: HORIKAWA 1952, p. 73, Map 6. E. Asia, Australia and New Zealand: HORIKAWA 1952, p. 74, Map 7. E. Asia: HORIKAWA 1972, Map 499.

XENOCHILA

integrifolia (Mitt.) Inoue — Japan: INOUE 1974b, p. 110, Pl. 55.

XENOTHALLUS

vulcanicolus Schust. — World: SCHUSTER 1969, p. 52, Map 1.

ZOOPSIDELLA

caledonica (Steph.) Schust. — Indomalayan Islands, Australia and America: SCHUSTER 1972, p. 20, Fig. 7.

ceratophylla (Spruce) Schust. — Indomalayan Islands, Australia and America: SCHUSTER 1972, p. 20, Fig. 7.

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