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OFFICERS OF THE

BOTANICAL RECORD CLUB:

PHANEROGAMIC & CRYPTOGRAMIC.

Referees:

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(For RUBI, CHARACEÆ, AND FLOWERING PLANTS GENERALLY.)

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EXTRACTS FROM RULES.

I.—The Botanical Record Club shall be an association of persons desirous of forwarding the purposes for which the Club was (in 1873) formed, the condition of membership being a subscription to the funds.

II.—The objects of the association shall be to verify, register, and publish annually such facts (relating to the horizontal or vertical distribution of British Plants) as may be furnished for the purpose by the members, and as seem to merit publication either as (1) hitherto unpublished (for example, a *fresh station* for a plant, with a comital census at least under sixty, occurring in a county for which it may be already on record); or (2) as additional to the items tabulated in Mr. H. C. Watson's works: *Compendium Cybele Britannica*, its *Supplement*, and *Topographical Botany*; and Moore & More's *Cybele Hibernica*; or (3) as interesting and worthy of repetition by reason of previous confusion, uncertainty, or reported extinction.

III.—Since there is for the Mosses and Hepaticæ no existing compendium of published data analogous to those above mentioned for Phanerogamia and the Vascular Cryptogams, it shall be an aim of the Club to work out and tabulate the distribution throughout Britain of such lower Cryptogams, effecting this, first, by the successive compilation and printing of moss and hepatica florulas for each county; and, second, by subsequent addenda to such comital lists as may have been previously issued.

IV.—A third object of the Club shall be the exemplification of geographic plant-distribution (first phanero-, then crypto-gamic) by means of outline county maps, so displayed as to indicate the various 'types' of distribution, best discernible in such way, for selected representative species.

XI.—Membership in this Club shall be of two kinds:—Honorary (or non-contributing) and Ordinary (or working) members.

Honorary members need not contribute any specimens, but shall subscribe annually a sum of not less than ten shillings.

Ordinary members shall subscribe not less than five shillings annually, and shall also send annually plants as defined in Rules II and III.

Sub-Kingdom Bryophyta.

CLASS I.

MUSCI.

Section 1.—ACROCARPI.

I. Sphagnaceæ.

SPHAGNUM, *Dill.*

- 1 acutifolium, *Ehrh.*—1 to 18. *I.*
 - b. deflexum, *Schpr.*—2. 10. 12. 15. 16.
 - c. purpureum, *Schpr.*—2. 9 to 12. 15 to 17.
 - d. rubellum, *Wils.*—1. 2. 3. 5. 9. 10. 12 to 17. *I.*
 - e. tenue, *Braithw.*—12. 15.
 - f. quinquesarium, *Lindb.*—18A. *I.*
 - g. gracile, *Russ.*—15.
 - h. elegans, *Braithw.*—18A.
 - i. fuscum, *Schpr.*—12. 14. 15. 17.
 - j. arctum, *Braithw.*—12. 15.
 - k. luridum, *Hüb.*—7. 10. 15.
 - l. lætevirens, *Braithw.*—10. 15.
 - m. patulum, *Schpr.*—1. 3. 8. 10. 15. 16.
- 2 fimbriatum, *Wils.*—2. 3. 5. 9. 10. 14. to 17. *I.*
- 3 strictum, *Lind.* (*Girgensohni*, *Russ.*)—12. 15. 16. 17. *I.*
 - b. squarresulum, *Russ.*—10.
- 4 squarrosum, *Pers.*—1. 2. 3. 5. 7 to 17. *I.*
 - b. imbricatum, *Schpr.*—15.
 - c. laxum, *Braithw.*—10.
- 5 teres, *Angst.*—9. 10. 12. 15.
- 6 Lindbergii, *Schpr.*—16. 17.
- 7 intermedium, *Hoffm.*—1. 2. 3. 5. 6. 8 to 13. 15. 16. 17B.
 - b. riparium, *Angst.* (*S. spectabile*, *Schpr.*)—9. 15.
 - c. pulchrum, *Lindb.*—12.
- 8 cuspidatum, *Ehrh.*—1. 2. 3. 5 to 10. 12. 15. 17. *I.*
 - b. plumosum, *Nees.*—1. 5 to 12.
 - c. falcatum, *Russ.*—2. 12. 15. 17.
 - d. brevifolium, *Lindb.*—15.
- 9 molle, *Sull.*—15.
 - b. Mülleri, *Schimp.*—10. 15.
 - c. tenerum, *Sull.*—15.

- 10 *rigidum*, *Schpr.*—1. 2. 3. 7. 8. 10. 12.
 b. *compactum*, *Brid.*—1. 2. 3. 5 to 8. 10. 12. 15. 16. 17.
 c. *squarrosulum*, *Russ.*—2. 3. 5. 12.
- 11 *subsecundum*, *Nees.*—1. 2. 3. 5 to 10. 12. 13. 15. 16. 17. *I.*
 b. *contortum*, *Schultz.*—1. 2. 3. 5. 9 to 17. *I.*
 c. *obesum*, *Wils.*—1. 5. 9. 12. 13. 15. 16. 17.
 d. *auriculatum*, *Schpr.*—2. 5. 9. 12. 15. 16. *I.*
- 12 *laricinum*, *Spruce.*—7. 9. 10. 12. 15.
 b. *platyphyllum*, *Sull.*—7.
- 13 *tenellum*, *Ehrh. (molluscum, Bruch.)*—1. 2. 3. 6. 7. 9. 10. 12. 14 to 18. *I.*
 b. *longifolium*, *Lindb.*—7. 12.
- 14 *Austini*, *Sull.*—18.
 b. *imbricatum*, *Hornsch.*—12. 18A.
- 15 *papillosum*, *Lindb.*—1 to 5. 8. 9. 10. 12. 14. 15. 17. 18A.
 b. *confertum*, *Lindb.*—2. 5. 10. 12. 15.
 c. *stenophyllum*, *Lindb.*—5.
- 16 *cymbifolium*, *Ehrh.*—1 to 13. 15 to 18. *I.*
 b. *congestum*, *Schpr.*—2. 5. 12. 15. 16.
 c. *squarrosulum*, *Nees.*—2. 3. 5. 10. 12. 15. 16.

2. *Andreæaceæ.*

ANDREÆA, Ehrh.

- 17 *petrophila, Ehrh. (rupestris, Hedw.)*—1. (2). 6. 7. 9. 10 to 12. 15 to 18. *I.*
 b. *acuminata, Schpr.*—7. 15. 16. 18C.
 c. *gracilis, Schpr.*—7. 10. 12. 15. 16.
 d. *sparsifolia, Zett. (obovata, (Thed.) Angl. Auct.)*—15.
- 18 *alpestris, Schpr.*—7. 15.
- 19 *alpina, Turn.*—7. 10 to 12. 15. 16. *I.*
 b. *compacta, Hook.*—7. 16.
 c. *flavicans, Hook.*—16.
- 20 *Rothii, W. & M. (rupestris, 'L.' Schpr.)* 1. 6. 7. 10. 11. 12. 14 to 17. *I.*
 b. *hamata, Lindb.*—1.
- 21 *grimsulana, Bruch. (Rothii var. frigida, Braith.)*—10. 15.
- 22 *falcata, Schpr.*—1. 7. 10. 12. *I.*
- 23 *crassinervis, Bruch.*—1. 7. 9. 10. 11. 12. 15. *I.*
- 24 *nivalis, Hook.*—15. 16. 17.
 b. *fuscescens, Hook.*—15. 16.

3. *Weissiaceæ.*

SYSTEGIUM, Schpr.

- 25 *crispum, Hedw.*—1 to 5. 10. 15. *I.*
- 26 *Mittenii, Schpr.*—2.
- 27 *multicapsulare, Sm.*—2. 3. 4. 5. 9. 10.

GYMNOSTOMUM, Hedw.

- 28 *rostellatum, Brid. (Hymenostomum, Schpr.)*—2. 4. 9. 11.
- 29 *tenue, Schrad.*—2. 3. 5. 9. 10. 11. 12. *I.*
- 30 *rupestre, Schwg.*—5. 7. 9 to 17. *I.*

- 31 *curvirostrum*, *Ehrh.*—7. 10 to 17. *I.*
- 32 *commutatum*, *Mitt.*—7. 15.
- 33 *microstomum*, *Hedw.*—1. 2. 3. 5. 8 to 16. *I.*
- 34 *squarrosum*, *N. & H.*—2. 9.
- 35 *tortile*, *Schw.*—1. 2. 3. 8. 12. *I.*

ANÆCTANGIUM, *Schw.*

- 36 *compactum*, *Schl.*—7. 9 to 13. 15. 16. 17. *I.*

WEISSIA, *Hedw.*

- 37 *viridula*, *Brid. (controversa, Hedw.)*—1 to 12. 16. 18. *I.*
- 38 *mucronata*, *Bruch.*—1. 2. 3. 5. 12. 16. *I.*
- 39 *crispula*, *Hedw.*—(3). 7. 10. 12. 15. *I.*
- 40 *cirrhata*, *Hedw.*—1. 2. 3. 5. 8. 10. 11. 12. *I.*

RHABDOWEISSIA, *B. & S.*

- 41 *fugax*, *Hedw.*—1. 7. 9. 10. *I.*
- 42 *denticulata*, *Brid.*—7. 9. 12. 13. 15. 16. *I.*

CYNODONTIUM, *B. & S.*

- 43 *Bruntoni*, *B. & S.*—1. 2. (3). 5. 6. 8. 10. 11. 15. *I.*
- 44 *polycarpum*, *Ehrh.*—15.
- 45 *strumiferum*, *Brid.*—(10). 15.
- 46 *virens*, *Hedw.*—15.

DICHODONTIUM, *Schpr.*

- 47 *pellucidum*, *L.*—1. 2. 5 to 8. 10. 13. 15. *I.*
- b. *serratum*, *Schpr.*—1. 8 to 12. 14. 15. 16. *I.*
- c. *compactum*, *Schpr.*—6.

DICRANELLA, *Schpr.*

- 48 *crispa*, *Hedw.*—1. 2. 5. 7. 9. 13. 15. 16. 17. *I.*
- 49 *Grevilleana*, *B. & S.*—15. *I.*
- 50 *Schreberi*, *Hedw.*—2. 5. 8 to 13. 15. *I.*
- b. *elata*, *Schpr.*—9. 10. 15.
- 51 *squarrosa*, *Schrad.*—1. 2. 5. 7. 10. 11. 12. 15 to 18. *I.*
- 52 *cerviculata*, *Hedw.*—1. 2. 3. 5. 7 to 18. *I.*
- 53 *varia*, *Hedw.*—1 to 12. 15. 17. *I.*
- b. *fallax*, *Wils.*—7. 9. 15.
- 54 *rufescens*, *Turn.*—1. 2. 3. 5. 8. 9. 10. 16. *I.*
- 55 *subulata*, *Hedw.*—1. 5. 7. 9. 10. *I.*
- 56 *curvata*, *Hedw.*—7. 15.
- 57 *heteromalla*, *Hedw.*—1 to 12. 16. *I.*
- b. *sericea*, *Schpr.*—15. 16.
- c. *elata*, *Ferg.*—10.

DICRANUM, *Hedw.*

- 58 *fulvellum*, *Sm. (Arctoa.)*—7. 10. 12. 15. 16. *I.*
- 59 *Starkii*, *W. & M.*—(10). 15. 16.
- 60 *falcatum*, *Hedw.*—10. 13. 15. 16. 17.
- 61 *Blyttii*, *B. & S.*—7. 10. 12. 15. 16. 17. *I.*
- 62 *montanum*, *Hedw.*—3. 5. 15.
- 63 *flagellare*, *Hedw.*—3. (10). *I.*
- 64 *viride*, *Sm.*—5.

- 65 *Scottianum*, *Turn.*—1. 2. 3. 7. 8. 10. 15. 16. *I.*
 66 *longifolium*, *Hedw.*—15.
 67 *arcticum*, *Schpr.* (*glaciale*, Berg.)—15. 16.
 68 *elongatum*, *Schw.*—14? 15. 16.
 69 *fuscescens*, *Turn.*—2. 3. 7 to 11. 13 to 18. *I.*
 b. saxicola, *Ferg.*—9. 10. 14. 16.
 70 *scoparium*, *L.*—1 to 18. *I.*
 b. orthophyllum, *Schpr.*—13. 15.
 c. paludosum, *Schpr.*—12. 15.
 d. alpestre, *Milde.*—
 71 *majus*, *Turn.*—1. 2. 3. 5. 7 to 17. *I.*
 72 *palustre*, *Bry. Brit.* (*Bonjeanii*, De Not.)—1. 2. 3. 5. 7. 8. 10 to 17. *I.*
 b. juniperifolium, *Sendl.*—2.
 c. rugifolium, *Bostw.*—8. 10.
 73 *Schraderi*, *Schw.*—9. 10.
 74 *spurium*, *Hedw.*—1. 2. 9. 10. 15.
DICRANODONTIUM, *B. & S.*
 75 *longirostrum*, *Web. & Mohr.*—7 to 10. 12. 15. 16. 17. *I.*
 b. alpinum, *Schpr.*—7. 10. 15. 16. *I.*
 76 *aristatum*, *Schpr.*—13. 15. 16. 17.
 77 *circinatum*, *Wils.*—15. 16. 17.
CAMPYLOPUS, *Brid.*
 78 *atrovirens*, *De Not.* (*longipilus*, p.p.)—1. 6. 7. 10 to 18. *I.*
 79 *brevipilus*, *B. & S.*—1. 2. 10. 11. 13 to 17. *I.*
 80 *introflexus*, *Brid.* (*polytrichoides*, De Not.)—1. 2. 7. (15). *C. I.*
 81 *Shawii*, *Wils.*—18A.
 82 *flexuosus*, *Brid.*—1. 2. 3. 5 to 18. *I.*
 83 *paradoxus*, *Wils.*—9. 10. 11. 16.
 84 *setifolius*, *Wils.*—7. 12. 15. 17. *I.*
 85 *Schwarzii*, *Schpr.*—7. 15 to 18. *I.*
 86 *fragilis*, *B. & S.*—1 to 3. 5. 7 to 10. 13 to 17. *I.*
 87 *Schimperi*, *Milde.*—15 to 18.
 88 *pyriformis*, *Brid.* (*turfæcus*, B. & S.)—1 to 5. 7 to 13. 16. 17.
 89 *brevifolius*, *Schpr.*—15. 16.

4. Leucobryaceæ.

LEUCOBRYUM, *Hampe.*

- 90 *glaucum*, *L.*—1 to 5. 7 to 18. *I.*

5. Bruchiaceæ.

ARCHIDIUM, *Brid.*

- 91 *phascoides*, *Brid.*—1. 2. 3. 5. 7. 9. 10. 13. 14. 15.

PLEURIDIUM, *Brid.*

- 92 *nitidum*, *Hedw.*—1. 2. 3. 5. 9. 10. 12 to 15. *I.*
 b. strictum, *Dicks.*—3.
 93 *subulatum*, *L.*—1. 2. 3. 5. 7. 9. 10 to 16. *I.*
 94 *alternifolium*, *B. & S.*—1. 2. 5. 9 to 16. *I.*

6. Seligeriaceæ.

SELIGERIA, *B. & S.*95 *Doniana*, *Sm.* (*Anodus*.)—7. 9. 10. 11. 15. 16.96 *pusilla*, *Hedw.*—1. 3. 8. 10. 12. 15. *I.*97 *acutifolia*, *Lindb.*—8. 10.98 *calcarea*, *Dicks.*—2. 3. 4. 7. 10. *I.*99 *tristicha*, *Brid.*—8. 10. 15.100 *recurvata*, *Hedw.* (*S. setacea*, *Jacq.*)—5. 7. 9 to 13. 15. 16. *I.*101 *subcernua*, *Schpr.* (*S. calcicola*, *Mitt.*)—2. 3. (10).CAMPYLOSTELIUM, *B. & S.*102 *saxicola*, *W. & M.*—2. 7. 9 to 13. *I.*BRACHYODUS, *Nees & H.*103 *trichodes*, *W. & M.*—2. 7. 9. 10. 11. 13 to 16. *I.*STYLOSTEGIUM, *B. & S.*104 *cæspiticium*, *Schw.*—15.BLINDIA, *B. & S.*105 *acuta*, *Hedw.*—1. 7. 10. 11. 12. 16. 17. 18. *I.*b. *trichodes*, *Braithw.*—9. 10.

7. Pottiaceæ.

EPHEMERELLA, *Müll.*106 *recurvifolia*, *Dicks.*—2. 3. 4. 11.MICROBRYUM, *Schpr.*107 *Floerkeanus*, *W. & M.*—2. 3. 7. 10. 11.SPHÆRANGIUM, *Schpr.*108 *muticum*, *Schreb.*—1. 2. 3. 5. 9. 10. 13. 15. 16. 17. *I.*109 *triquetrum*, *Spruce*.—2. 3.PHASCUM, *L.*110 *cuspidatum*, *Schreb.*—1 to 5. 8 to 16. *I.*111 *bryoides*, *Dicks.*—1. 2. 3. 5. 8. 10. 12. 15. *I.*112 *curvicollum*, *Hedw.*—1. 2. 3. 5. 10. 11. (*I.*)113 *rectum*, *Sm.*—1. 2. 3. 5. 8. 10. 12. 16. *I.*POTTIA, *Ehrh.*114 *cavifolia*, *Ehrh.*—2. 3. 5. 8. 9. 10. 12 to 16. *I.*115 *minutula*, *Schw.*—1 to 3. 5. 7. 10 to 13. 16.116 *truncata*, *L.*—1 to 5. 8 to 12. 16 to 18. *I.*117 *intermedia*, *Turn.*—2. 3. 5. 8. 9. 10. 15.118 *Wilsoni*, *Hook.*—1. 5. 7. 9. 15. *I.*119 *crinita*, *Wils.*—1. 7. 9. 14. 15. 17. *I.*120 *viridifolia*, *Mitt.*—1. 7.121 *littoralis*, *Mitt.*—2. 3. 9. *I.*122 *asperula*, *Mitt.*—1. 2.123 *Heimii*, *Hedw.*—1. 2. 3. 7. 9. 10. 12 to 18. *I.*§ ANACALYPTA (*Röhl.*).124 *Starkeana*, *Hedw.*—1. 2. 3. 5. 7. 10. 12. *I.*125 *cæspitosa*, *Bruch.*—2. 3. 5.126 *lanceolata*, *Dicks.*—1. 2. 3. 5. 6. 9. 10. 12. 14. 16. *I.*127 *latifolia*, *Schw.*—15.

DIDYMODON, *Hedw.*128 rubellus, *B. & S.*—1 to 12. 15. 16. 18. *I.*b. serrulatus, *Ferg.*—10.129 luridus, *Hornsch.*—1. 2. 3. 5. 7. 8. 10. 12. 14. 15. *I.*130 flexifolius, *Dicks.*—1. 2. 3. 5. 8. 9. 10. 14. 15. *I.*b. gemmescens, *Mitt.*—1. 2. 10. 15.131 cylindricus, *Bruch.*—1. 2. 7. 8. 10. 12. 13. 15. 16. 17. *I.*132 sinuosus, *Wils.*—1. 2. 3. 5. 7. 8. 10. *I.*133 recurvifolius, *Tayl.*—7. 15. *I.*EUCLADIUM, *B. & S.* (*Weissia.*)134 verticillatum, *L.*—1. 2. 3. 5 to 12. 15. 16. *I.*DITRICHUM, *Timm.* (*Leptotrichum*, *Hampe.*)135 tortile, *Schrad.*—2. 10. *I.*136 homomallum, *Hedw.*—1. 2. 3. 5. 7. 9. 10. 12. 15. 16. 17. *I.*137 flexicaule, *Schw.*—1. 2. 3. 5 to 17. *I.*b. densum, *Schpr.*—1. 8. 10. 12. 15.138 subulatum, *Bruch.*—1.139 glaucescens, *Hedw.*—15.140 zonatum, *Lorenz.* (*vaginans*, b. *glaciale*, *Wils.*)—7. 15. 16. 17.TRICHOSTOMUM, *Sm.*141 tophaceum, *Brid.*—1. 2. 3. 5. 8. to 16. *I.*142 mutabile, *Bruch.* (*brachydontium*, *Brid.*)—1. 2. 3. 5. 7. 10 to 15. *I.*143 crispulum, *Bruch.*—1. 2. 3. 5. 6. 7. 10. 12. 13. 15. 16. *I.*b. elatum, *Schpr.*—1. 10.144 flavo-virens, *Bruch.*—1. 2. 3. 7. 14. 15. 17. *I.*145 nitidum, *Lindb.*—1. 2. 5 to 8. 12.146 littorale, *Mitt.*—1. 2. 7. 14 to 18. *I.*BARBULA, *Hedw.* (*Tortula.*)

§ 1 ALOIDELLA.

147 brevirostris, *B. & S.*—8. 14.148 rigida, *Schultz.* (*stellata*, *Schreb.*)—1 to 5. 8. 9. 10. 12. 13. 14. *I.*149 ambigua, *B. & S.*—1. 3. 5. 8. 10. 12 to 15. *I.*150 aloides, *Koch.*—1. 2. 3. 5. 8. 10 to 15. *I.*151 lamellata, *Lindb.* 2. 3. 10. 13. 15. *I.*

§ 2 CUNEIFOLIA.

152 atrovirens, *Sm.* (*Desmatodon nervosus*, *Hook.*)—1. 2. 5. 7. 14. 15. 16. *I.*153 cuneifolia, *Dicks.*—1. 2. 3. 5. 7. (10). *I.*154 Vahlia, *Schultz.*—2. 3. 14. 15. *I.*155 marginata, *B. & S.*—2. 3. 4. 5. 9. 10. 16.156 canescens, *Bruch.* (*commutata.*)—2.157 muralis, *L.*—1 to 18. *I.*b. aestiva, *Brid.*—5. 7. 13. 15.c. rupestris, *Schultz.*—1. 2. 3. 5. 7. 8. 10. 13. 15. *I.*

§ 3 BARBULA.

158 unguiculata, *Dill.*—1 to 3. 5 to 12. 15 to 18. *I.*b. cuspidata, *Bry. Eur.*—2. 5. 7.c. apiculata, *Hedw.*—3. 8.

- 159 fallax, *Hedw.*—1 to 5. 7 to 12. 16. *I.*
 b. brevifolia, *Wils.*
 160 recurvifolia, *Schpr.* (*reflexa*, *Brid.*)—1. 2. 5 to 8. 10. 12. *I.*
 161 Woodii, *Schpr.*—*I.*
 162 rigidula, *Dicks.*—2. 3. 5. 8. 9. 10. 14 to 17. *I.*
 163 spadicea, *Mitt.* (*Trichost. rigidulum*, *Sm.*)—5. 9. 10. 12. 14 to 17. *I.*
 164 cylindrica, *Tayl.* (*insulana*, *De Not.*)—1. 2. (3). 5. 7. 9. 10. 12. 17. *I.*
 165 vinealis, *Brid.*—1. 2. 3. 5. 8. 9. 10. 13. 15. 16. *I.*
 166 Hornschuchiana, *Schultz.*—2. 3. 5. 7 to 10. 12. 15. 16. *I.*
 167 revoluta, *Schw.*—1. 2. 3. 5. 8. 10. 13. 15. *I.*
 168 convoluta, *Hedw.*—1. 2. 3. 5. 8 to 18. *I.*
 169 commutata, *Juratzka.* (*B. Sardoia*, *Bry. Eur.*)—15. 16. *I.*

§ 4 TORTUOSA.

- 170 inclinata, *Schw.*—3. 15.
 171 tortuosa, *L.*—1. 2. 3. 5. 7 to 18. *I.*
 172 Hibernica, *Mitt.* (*Anactangium*, *Tayl.* *B. cirrifolia*, *Schpr.*)—*I.*
 173 fragilis, *Hook.*—15. *I.*
 174 squarrosa, *Brid.*—1. 2. 3. *I.*
 175 Brebissoni, *Brid.* (*Cinclidotus terrestris.* *T. mucronata*, *B.*)—1 to 7.

§ 5 SYNTRICHIA.

- 176 subulata, *L.*—1. 2. 3. 5. 7 to 12. 15 to 18. *I.*
 177 lævipila, *Brid.*—1. 2. 3. 5. 6. 7. 10 to 15. *I.*
 178 latifolia, *B. & S.*—1. 2. 3. 5. 10. 13. 14. 15. *I.*
 179 ruralis, *L.*—1 to 3. 5 to 8. 10 to 18. *I.*
 180 intermedia, *Brid.*—1. 3. 5. 8 to 12. 14. 15. 16. *I.*
 181 papillosa, *Wils.*—2. 3. 5. 6. 7. 10. 13. 14. 15. *I.*
 182 princeps, *De Not.* (*Mülleri*, *Bruch.*)—10. 15. 16. 17. *I.*

TRICHODON, *Schpr.*

- 183 cylindricus, *Hedw.*—2. 8. 9. 10. 15. *I.*

CERATODON, *Brid.*

- 184 purpureus, *L.*—1 to 3. 5 to 18. *I.*

DISTICHUM, *B. & S.*

- 185 capillaceum, *L.*—1. 5. 7. 10. 11. (15). *I.*
 186 inclinatum, *Hedw.*—13. 15. 17. *I.*

8. Calymperaceæ.

ENCALYPTA, *Schreb.*

- 187 commutata, *Nees.*—15.
 188 vulgaris, *Hedw.*—1. 2. 3. 5. 7. 8. 10 to 16. *I.*
 189 rhabdocarpa, *Schw.*—10. 15. 16. 17. *I.*
 190 ciliata, *Hedw.*—5. 6. 7. 10 to 17. *I.*
 191 streptocarpa, *Hedw.*—1. 2. 3. 5 to 8. 10 to 16. *I.*

9. Grimmiaceæ.

GRIMMIA, *Ehrh.*

§ 1 SCHISTIDIUM (*Brid.*).

- 192 conferta, *Funck.*—10. 14. 15. *I.*
 b. pruinosa, *Wils.*—15.

193 apocarpa, *L.*—1. 2. 3. 5 to 12. 15 to 18. *I.*

b. rivulare, *Brid.*—5. 10. 16.

194 maritima, *Turn.*—1. 7. 10. 13 to 18. *I.*

§ 2 *GASTEROGRIMMIA* (*Schpr.*).

195 anodon, *B. & S.*—14.

196 crinita, *Brid.*—5.

§ 3 *GRIMMIA* (*Schpr.*).

197 orbicularis, *B. & S.*—1. 3. 5. 7. 12. 14. 15. 16. *I.*

198 pulvinata, *Dill.*—1 to 3. 5 to 17. *I.*

b. obtusa, *Wils.*

199 Schultzii, *Brid.*—1. 7. (10). 12. 16. 17. *I.*

200 robusta, *Fergus.*—15. 16. 17B. *I.*

201 contorta, *Wahl.*—11. 15.

202 torquata, *Grev.*—7. 8. 10. 11. 13 to 17. *I.*

203 funalis, *Schw.* (*spiralis*, *Bry. Brit.*)—1. 7. 10. 11. 15 to 17. *I.*

204 Mühlenbeckii, *Schpr.*—13. 15.

205 subsquarrosa, *Wils.*—6. 14. 15. 16.

206 trichophylla, *Grev.*—1. 2. 3. 5. 8 to 17. *I.*

207 Hartmanni, *Schpr.*—7. 12. 15. 16. *I.*

208 elatior, *Schpr.*—15.

§ 4 *GUEMBELIA* (*Schpr.*).

209 Doniana, *Sm.*—5. 7 to 17.

b. elongata, *Wils.*—

210 ovata, *W. & M.*—6. 7. 8. 10. 12. 14. 15. *I.*

211 leucophæa, *Grev.*—1. 14. 15. 16. *I.*

212 commutata, *Hüb.*—7. 13. 14. 15.

213 montana, *B. & S.*—1. 15.

214 Ungerii, *Juratz.*—15.

215 elongata, *Kaulf.*—15. 16.

216 unicolor, *Grev.*—15.

217 atrata, *Miel.*—7. 15.

218 Stirtoni, *Schpr.*—13.

§ 5 *COSCINODON* (*Spreng.*).

219 cribrus, *Hedw.*—12. 15.

RHACOMITRIUM, *Brid.*

220 patens, *Dicks.*—7. 13 to 17. *I.*

221 ellipticum, *Turn.*—7. 13 to 17. *I.*

222 aciculare, *L.*—1. 2. (3). 5. 7. 8. 10 to 18. *I.*

b. denticulatum, *Wils.*—10. 13. 15. 16. 17.

223 protensum, *A. Braun.*—1. 7. 8. 10. 11. 12. 15. 16. *I.*

224 sudeticum, *Funch.* (*microcarpum*, *Hedw. p.p.*)—1. 7. 10. 11. 16. *I.*

225 heterostichum, *Hedw.*—1. 2. 3. 5. 8. 10 to 18. *I.*

b. alopecurum, *Bry. Eur.*—7. 10. 13. 15. 16.

c. gracilescens, *Bry. Eur.*—15. 16.

226 fasciculare, *Schrad.*—1. 2. 5 to 8. 10 to 18. *I.*

227 lanuginosum, *Hedw.*—1. 2. 4 to 8. 10 to 12. 14 to 18. *I.*

228 canescens, *Hedw.*—1. 2. 3. 5. 7. 8. 10. 12 to 18. *I.*

b. ericoides, *Bry. Eur.*—2. 3. 8. 10. 15 to 17.

GLYPHOMITRIUM, *Brid.*229 *Daviesii*, *Sm.*—1. 7. 16. 17. *I.*PTYCHOMITRIUM, *B. & S.*230 *polyphyllum*, *Dicks.*—1. 5 to 17. *I.*AMPHORIDIUM, *Schpr.* (*Zygodon.*)231 *lapponicum*, *Hedw.*—7. 11. 12 to 16.232 *Mougeotii*, *B. & S.*—1. 5. 7. 8. 10 to 18. *I.*ZYGODON, *H. & T.*233 *viridissimus*, *Dicks.*—1 to 5. 8. 10. 16. *I.*b. *rupestris*, *Lindb.* (*Stirtoni*, *Schpr.*)—7. 15. *I.*234 *conoideus*, *Dicks.*—1. 2. 7. 9. 10. 12. 13. 15. *I.*235 *Nowellii*, *Schpr.* (*gracilis*, *Wils.*)—9. 10.236 *Forsteri*, *Dicks.*—1. 2.ULOTA, *Mohr.* (*Orthotrichum.*) (*Weissia*, *Ehrh.*)237 *Drummondii*, *Grev.*—10. 13 to 17. *I.*238 *Ludwigii*, *Brid.*—2. 15. *I.*239 *Bruchii*, *Hornsch.*—1. 2. 3. 7 to 17. *I.*240 *calvescens*, *Wils.* (*vittata*, *Mitt.*)—12. 13. 15. *I.*241 *crispa*, *Hedw.*—1. 2. 3. 5. 7. 8. 10. 12 to 17. *I.*242 *intermedia*, *Schpr.*—2. 3. 5. 8. 10. 12. 13. 16. 17.243 *crispula*, *Bruch.*—1. 7. 10. 12. 13. 15. *I.*244 *phyllantha*, *Brid.*—1. 2. 3. 7. 10. 12. 13 to 18. *I.*245 *Hutchinsiae*, *Sm.*—1. 7. 10. 13. 15. 16. 17. *I.*ORTHOTRICHUM, *Hedw.*246 *anomalum*, *B. & S.*—1. 13 to 16.247 *saxatile*, *Brid.* (*anomalum*, *Bry. Brit.*)—1 to 3. 5 to 16. *I.*248 *cupulatum*, *Hoffm.*—1. 2. 3. 5. 10. 12 to 15. *I.*b. *nudum*, *Dicks.*—2. 3. 10. 13. 15.249 *Sturmii*, *Hoppe.*—15. *I.*250 *Shawii*, *Wils.* (*Fraxini olim.*)—13. 16.251 *rupestre*, *Schleich.*—1. 2. 7. 10 to 17. *I.*252 *obtusifolium*, *Schrad.*—3. 5. 10. 12. 15.253 *affine*, *Schrad.*—1 to 6. 8 to 17. *I.*254 *fastigiatum*, *Bruch.*—(2). 10. 11. 13. 15. *I.*255 *speciosum*, *Nees.*—(10). 15. 16.256 *patens*, *Bruch.*—13.257 *stramineum*, *Hornsch.*—3. 6. 7. 10 to 16. *I.*258 *pumilum*, (*Dicks.?*) *Swartz.* (*fallax*, *Bry. Eur.*)—10. 13. *I.*259 *tenellum*, *Bruch.*—2. 3. 5. 7. 10. 12 to 16. *I.*260 *pallens*, *Bruch.*—1. 10. 14. 15. *I.*261 *diaphanum*, *Schrad.*—1 to 5. 7 to 17. *I.*262 *pulchellum*, *Sm.*—1. 2. 7. 9 to 17. *I.*263 *Lyellii*, *H. & T.*—1. 2. 3. 5. 10 to 16. *I.*264 *leiocarpum*, *B. & S.*—1. 2. 3. 5. 10 to 16. *I.*265 *Sprucei*, *Mont.*—2. 3. 5. 6. 7. 9. 10. 12. 13. 15.266 *rivulare*, *Turn.*—1. 2. 5 to 13. 15. *I.*

10. Splachnaceæ.

ŒDIPODIUM, *Schw.*

267 Griffithianum, *Dicks.*—7. 10. 12. 13. 15. 16.

DISSODON, *Grev.*

268 splachnoides, *Schw.*—15.

TAYLORIA, *Hook.*

269 tenuis, *Dicks.*—15. *I.*

TETRAPLONDON, *B. & S.*

270 angustatus (*L. fil.*) *Hedw.*—(10). 15. 16. 17.

271 mnioides, (*L. fil.*) *Hedw.*—9 to 17. *I.*

SPLACHNUM, *L.*

272 sphæricum, *L. fil.*—7 to 17. *I.*

273 vasculosum, *L.*—(10). 15.

274 ampullaceum, *L.*—1. 2. 3. 7. 9. 10. 12 to 16. *I.*

11. Funariaceæ.

DISCELIUM, *Brid.*

275 nudum, *Dicks.*—9. 10. 13. 15.

EPHEMERUM, *Hampe.*

276 serratum, *Schreb.*—1. 2. 3. 5. 9. 10. 13 to 16. *I.*

277 tenerum, *B. & S.*—2.

278 cohærens, *Hedw.*—2. 9. 15. *I.*

279 stenophyllum, *Voit.*—2. 9.

b. brevifolium, *Schpr.*—9. 15.

PHYSCOMITRELLA, *Schpr.*

280 patens, *Hedw.*—2. 3. 5. 9. 10. 13. *I.*

PHYSCOMITRIUM, *Brid.*

281 sphæricum, *Schw.*—9.

282 pyriforme, *L.*—1. 2. 3. 5. 8 to 18. *I.*

ENTOSTHODON, *Schw.*

283 ericetorum, *Bals.*—1. 2. 3. 5. 9 to 18. *I.*

284 Templetoni, *Hook.*—1. 7. 9. 10. 12 (Manx). 13. 15. 16. *I.*

FUNARIA, *Schreb.*

285 fascicularis, *Dicks.*—1. 2. 5. 10. 12. 13. 15. 16. *I.*

286 calcarea, *Wahl.* (*Muhlenbergii*, *Schw.* et *Hibernica*, *Hook.*)—1. 2. 5.

287 hygrometrica, *L.*—1 to 18. *I.* [8. 10. 12. 14. 15. *I.*

288 microstoma, *B. & S.*—2.

12. Bartramiaceæ.

AMBLYODON, *P. Beauv.*

289 dealbatus, *Dicks.*—4. 5. 9. 10. 14 to 17.—*I.*

MEESIA, *Hedw.*

290 uliginosa, *Hedw.*—9. 11. 14 to 17.

PALUDELLA, *Ehrh.*

291 squarrosa, *L.*—(9. 10.)

CATOSCOPIUM, *Brid.*

292 nigrum, *Hedw.*—9. 11. 12. 15. 17.

BARTRAMIA, *Hedw.*

- 293 stricta, *Brid.*—2.
 294 ithyphylla, *Brid.*—3. 5. 7. 9 to 16. *I.*
 295 pomiformis, *L.*—1. 2. 3. 5. 7 to 18. *I.*
 b. crispa, Swartz.—7. 10. 11. 15. 16. 17.
 296 Halleriana, *Hedw.*—5. 6. 7. 10. 11. 12. 15. 16. 17. *I.*
 297 (Ederi, *Gunn.* (*gracilis*, *Floerke.*)—7. 8. 10 to 13. 15. 17. *I.*

CONOSTOMUM, *Swartz.*

- 298 boreale, *Swartz.*—15. 16. 17.

PHILONOTIS, *Brid.* (*Bartramia.*)

- 299 Wilsoni, *B. & S.* (*Bartramidula*, *B. & S.*)—7. 15. *I.*
 300 rigida, *Brid.*—1. 7. *I.*
 301 adpressa, *Ferg.*—14. 15.
 302 fontana, *L.*—1. 2. 3. 5 to 12. 13 to 18. *I.*
 b. cæspitosa, Wils. (*paludosa.*)—9. 13. 15. *I.*
 c. falcata, De Not.—*I.*
 d. firma, Ferg. (*compacta*, *Schpr.*)—15.
 303 seriata, *Mitt.*—15. 16. 17.
 304 calcarea, *B. & S.*—3. 5. 8. 10. 11. 14 to 17. *I.*

BREUTELIA, *Schpr.* (*Bartramia.*)

- 305 arcuata, *Dicks.*—1. 5. 8. 10. 11. 12. 16. *I.*

13. Bryaceæ.

MIELICHOFERIA, *Hornsch.*

- 306 (nitida, *Funck.*) *b. gracilis, Wils. et Schpr.*—10. 15.

ORTHODONTIUM, *Schw.*

- 307 gracile, *Wils.*—2. (3?). 9. 10.

LEPTOBRYUM, *Schpr.*

- 308 pyriforme, *L.*—1. 2. 3. 5. 9 to 17. *I.*

WEBERA, *Hedw.* (*Bryum*, *Dill.*)

- 309 acuminata, *Hoppe.*—7. 10. 12. 15. *I.*
 310 polymorpha, *Hoppe.*—7. 10. 15. 17. *I.*
 311 elongata, *Dicks.*—1. 7. 9. 10. 13 to 17. *I.*
 312 nutans, *Schreb.*—1. 2. 3. 5. 7 to 18. *I.*
 313 cruda, *Schreb.*—2. 5. 9. 10. 11. 13 to 17. *I.*
 314 annotina, *Hedw.*—1. 2. (3). 5. 10. 11. 13 to 17. *I.*
 315 Ludwigii, *Spreng.* (*Breidleri*, *Jur.*)—7. 12. 15. 16. *I.*
 b. elata, Schpr.—15.
 316 carnea, *L.*—1 to 6. 8. 10. 13 to 17. *I.*
 317 albicans, *Wahl.*—1. 2. 3. 5 to 17. *I.*

ZIERIA, *Schpr.* (*Bryum.*)

- 318 julacea, *Schpr.* (*B. Zierii*, *Dicks.*)—1. 5 to 8. 10. 11. 12. 14 to 17. *I.*
 319 demissa, *Hornsch.*—15.

BRYUM, *Dill.*

- 320 pendulum, *Hornsch.* (*cernuum*, *Hedw.*)—1 to 3. 5 to 17. *I.*
 321 rufum, *Fergus.*—8. 10.
 322 inclinatum, *Swartz.*—1. 3. 5. 7 to 18. *I.*
 323 Warneum, *Bland.*—1. 9. 13. 15. *I.*

- 324 lacustre, *Brid.*—4. 5. 9. 13. 15.
 325 Barnesi, (*Wood*) *Schpr.*—5. 12.
 326 Marrattii, *Wils.*—9. 13. 15. *I.*
 327 calophyllum, *R. Br.*—9. 11. 15.
 328 uliginosum, *Bruch.*—3. 9. 10. 12. 15. *I.*
 329 intermedium, *W. & M.*—1. 2. 3. 5. 7 to 10. 12 to 16. *I.*
 330 bimum, *Schreb.*—1. 3. 5. 7 to 10. 12 to 16. *I.*
 b. cuspidatum, *Bry. Eur.*—2. 9. 10. 13.
 331 torquescens, *B. & S.*—1. 3. 5. 10. 12. 13. *I.*
 332 pallescens, *Schleich.*—1. (3). 9. 10. 11. 15. *I.*
 333* Sauteri, *B. & S.*—(11). (15).
 334 erythrocarpum, *Schw.* (*sanguineum*, *Ludw.*)—1. 2. 3. 5. 8 to 17. *I.*
 335 murale, *Wils.* (*rubens*, *Mitt.*?)—1. 2. 3. 5. 7. 8. 9. 12. 15. *I.*
 336 atropurpureum, *W. & M.*—1. 2. 3. 5. 7 to 10. 13 to 17. *I.*
 b. gracilentum, *Tayl.*—8. 10.
 337 alpinum, *L.*—1. 7. 9 to 18. *I.*
 b. meridionale, *Schpr.*—
 338 cæspitium, *L.*—1 to 18. *I.*
 339 argenteum, *L.*—1 to 18. *I.*
 b. majus, *Schpr.*—5. 7. 8. 10. 12. 15.
 c. lanatum, *Schpr.*—9. 15.
 340 concinnum, *Spruce.*—10. 11. 15. *I.*
 341 capillare, *L.*—1 to 18. *I.*
 342 obconicum, *Hornsch.*—1. 10. 13. 16. *I.*
 343 Donianum, *Grev.*—1. 2. 3. 7. 9. 15. *I.*
 344 provinciale, *Phil.* (*Billardieri*, *Bry. Brit.*)—2.
 345 pallens, *Swartz.*—1. 2. 3. 5. 8 to 18. *I.*
 346 Stirtoni, *Schpr.* (*barbatum*, *Wils.*)—15.
 347 organum, *Bostw.*—11. 12.
 348 Duvalii, *Voit.*—10. 12. 14. 15. *I.*
 349 pseudo-triquetrum, *Hedw.*—1 to 18. *I.*
 b. compactum, *Schpr.*—9. 10. 15. 16.
 350 neodamense, *Itzig.*—9. 15.
 351 turbinatum, *Hedw.*—2. 3. 4. 9. 15.
 352 (*Schleicheri*, *Schw.*) b. latifolium.—15. 18.
 353 roseum, *Schreb.*—1. 2. 3. 5. 7 to 10. 12 to 17. *I.*
 354 filiforme, *Dicks.* (*julaceum*, *Sm.*)—5. 7. 9 to 17. *I.*
 355 catenulatum, *Schpr.*—15.

14. Mniaceæ.

CINCLIDIUM, *Swartz.*

- 356 stygium, *Swartz.*—4. 10. 15.

MNIUM, *L.*

- 357 cuspidatum, *Hedw.*—1. 2. 3. 5. 7 to 10. 12 to 17. *I.*
 358 affine, *Bland.*—1 to 5. 9. 10. 12 to 17. *I.*
 b. elatum, *Schpr.*—9. 10.
 c. rugicum, *Laur.*—7. 15.

- 359 undulatum, *Hedw.*—1 to 3. 5 to 18. *I.*
 360 rostratum, *Schrad.*—1. 2. 3. 5. 8. 10 to 16. *I.*
 361 hornum, *L.*—1 to 18. *I.*
 362 serratum, *Schrad.*—2. 5. 10 to 17. *I.*
 363 orthorhynchum, *B. & S.*—2. 10.
 364 riparium, *Mitt.*—2.
 365 spinosum, *Voit.*—15.
 366 stellare, *Hedw.*—1. 2. 5. 8. 9. 10. 13 to 16.
 367 cinclidioides, *Blytt.*—14. 15. 16. 17.
 368 punctatum, *Hedw.*—1. 2. 3. 5 to 18. *I.*
 b. elatum, *Schpr.*—15.
 369 subglobosum, *B. & S.*—5. 8 to 17. *I.*

AULACOMNIUM, *Schwag.*

- 370 androgynum, *L.*—2. 3. 5. 8. 10 to 16.
 371 palustre, *L.*—1 to 18. *I.*
 372 turgidum, *Wahl.*—10. 15.

TIMMIA, *Hedw.*

- 373 austriaca, *Hedw.*—15.
 374 Norvegica, *Zett.*—15. 16.

15. Tetraphidaceæ.

TETRAPHIS, *Hedw.* (*Georgia*, *Ehrh.*)

- 375 pellucida, *L.*—1 to 3. 5 to 16. *I.*

TETRODONTIUM, *Schwag.*

- 376 Brownianum, *Dicks.*—1. 2. 9. 10. 11. 13. 14. 15. *I.*

16. Polytrichaceæ.

OLIGOTRICHUM, *DC.*

- 377 hercynicum, *Ehrh.* (*incurvum*, *Huds.*)—7. 8. 10. 11. 12 to 17. *I.*
 b. laxum, *Braith.*—7. 16.

ATRICHUM, *P. Beauv.* (*Catharinaea*, *Ehrh.*)

- 378 undulatum, *L.*—1 to 13. 15. 16. 18. *I.*
 379 angustatum, *Brid.*—2. 15.
 380*tenellum *Röhl.*—(10). (15).
 381 crispum, *James.* (*laxifolium*, *Wils.*)—1. 6. 9. 10.

POGONATUM, *P. Beauv.*

- 382 nanum, *Neck.* (*subrotundum*, *Huds.*)—1. 2. 3. 5. 8 to 17. *I.*
 b. longisetum, *Hampe.*—1. 3. 5. 10. 15.
 383 aloides, *Hedw.*—1. 2. 3. 5 to 17. *I.*
 b. minus, *Bry. Eur.* (*Dicksoni*, *Turn.*)—1. 3. 4. 8. 10. 11. 15. *I.*
 384 urnigerum, *L.*—1. 3. 5. 8 to 18. *I.*
 b. humile, *Wahl.*—15. 16.
 385 alpinum, *L.*—7. 10. 11. 12 to 18. *I.*
 b. campanulatum, *Hornsch.*—15.

POLYTRICHUM, *L.*

- 386 sexangulare, *Flörk.*—15. 16.
 387 gracile, *Menz.*—1. 5. 8. 9. 10. 15. 16. *I.*
 388 formosum, *Hedw.* (*attenuatum*, *Menz.*)—2. 3. 5. 7. 9. 10. 12 to 16. *I.*
 389 piliferum, *Schreb.*—1 to 6. 7 to 18. *I.*

- 390 juniperinum, *Willd.*—1 to 3. 5 to 18. *I.*
 391 strictum, *Banks.*—1. 2. 4. 9. 10. 11. 12. 15. 16.
 392 commune, *L.*—1 to 18. *I.*
 b. perigoniale, *Schpr.*—5. 8. 9. 10. 15.
 c. humile, *Schpr.*—9. 15.
 d. fastigiatum, *Lyle.*—2. 9. 10. 15.

DIPHYSCIUM, *Mohr.*

- 393 foliosum, *L.*—1. 2. 5. 7. 10. to 17.

17. Buxbaumiaceæ.

BUXBAUMIA, *Haller.*

- 394 aphylla, *Hall.*—3. 4. 9. 10. 13 to 16. (*I.*)
 395 indusiata, *Brid.*—15. 17.

Section II.—AMPHOCARPI.

18. Fissidentaceæ.

FISSIDENS, *Hedw.*

- 396 bryoides, *Hedw.*—1 to 18. *I.*
 b. cæspitans, *Schpr.*—1. (10?).
 c. inconstans, *Schpr.*—3. 5.
 397 exilis, *Hedw.*—1. 2. 3. 5. 8. 9. 10. 12. 13. 15. *I.*
 398 incurvus, *W. & M.*—1. 2. 3. 5. 8. 9. 10. 13. 14. 15. *I.*
 b. Lylei.—5. 9.
 399 viridulus, *Wils.*—1. 2. 5. 10. 12. 14. 15. *I.*
 b. fontanus, *Wils.*—1. 15.
 400 tamarindifolius, *Brid.*—1. 2. 5. 9. 10. 13. 15. *I.*
 401 pusillus, *Wils.*—2. 3. 5. 8. 9. 10. 12. 13. 15.
 b. madidus, *Spruce.*—10.
 402 crassipes, *Wils.*—3. 5. 9. 10. 13. 15.
 403 rufulus, *Schpr.*—(10?). 12.
 404 serrulatus, (*Brid.*) *Hedw.*—1. (*I?*).
 405 osmundoides, *Hedw.*—7. 9. 10. 12. 14. 15. 18. *I.*
 406 polyphyllus, *Wils.*—1. 7. *I.*
 407 decipiens, *De Not.*—1. 7. 8. 12. 13. *I.*
 408 adiantoides, *Hedw.*—1. 2. 3. 5. 7 to 18. *I.*
 409 taxifolius, *L.*—1 to 17. *I.*

19. Schistostegaceæ.

SCHISTOSTEGA, *Mohr.*

- 410 osmundacea, *Dicks.*—1. 5. 7. 8. 9. 10. 15.

20. Epipterygiaceæ.

EPIPTERYGIUM, *Lindb.* (*Bryum.*)

- 411 Tozeri, *Grev.*—1. 2. (3). *I.*

Section III.—CLADOCARPI.

21. Ripariaceæ.

CINCLIDOTUS, *P. Beauv.*

- 412 fontinaloides, *Hedw.*—1. 3. 5. 7 to 16. *I.*

FONTINALIS, *Dill.*

- 413 antipyretica, *L.*—1 to 18. *I.*
 b. gigantea, *Schpr.*—?
 c. gracilis, *Lindb.*—10. 15. 16. 18.
 414 squamosa, *L.*—1. 10. 11.

22. Cryphæaceæ.

HEDWIGIA, *Ehrh.*

- 415 ciliata, *Dicks.*—1. 5. 7. 10 to 18. *I.*
 b. leucophæa, *Schpr.*—15. 16.
 c. viridis, *Schpr.*—7. 12. 13.
 d. striata, *Wils.*—7. 12. *I.*

HEDWIGIDIUM, *B. & S.*

- 416 imberbe, *Sm.*—7. *I.*

CRYPHÆA, *Mohr.*

- 417 heteromalla, *Hedw.*—1. 2. 3. 5. 7 to 10. 12 to 16. *I.*
 b. aquatilis, *Schpr.*—1.

Section IV.—PLEUROCARPI.

23. Leucodontaceæ.

LEPTODON, *Mohr.*

- 418 Smithii, *Dicks.*—1. 2. 3. (12).

LEUCODON, *Schw.*

- 419 sciuroides, *L.*—1. 2. 3. 5. 7 to 16. *I.*
 b. morensis, *Brid.*—3. 15.

MYURIUM, *Schpr.*

- 420 Hebridarum, *Schpr.* (*L. Lagurus*, var. *borealis*, *Wils.*)—17. 18A.

ANTITRICHIA, *Brid.*

- 421 curtispindula, *L.*—1. 2. 3. 5. 7 to 18. *I.*

24. Neckeraceæ.

NECKERA, *Hedw.*

- 422 pennata, *Hall.*—15. *I.*
 423 pumila, *Hedw.*—1. 2. 3. 7. 8. 10. 12. 13. 15. *I.*
 b. Philippeana, *Schpr.*—1. 2. 3. 7. 15.
 424 crispa, *L.*—1. 2. 3. 6. 7. 8. 10. 11. 12. *I.*
 425 complanata, *L.*—1. 2. 3. 5 to 17. *I.*

HOMALIA, *Brid.*

- 426 trichomanoides, *Schreb.*—1. 2. 3. 5. 7 to 16. *I.*

25. Hookeriaceæ.

DALTONIA, *H. & T.*

- 427 splachnoides, *Sm.*—*I.*

HOOKERIA, *Sm.*

- 428 lætevirens, *H. & T.*—1. *I.*

PTERYGOPHYLLUM, *Brid.* (*Hookeria*, *Wils.*)

- 429 lucens, *Sm.*—1. 2. 3. 5. 7 to 17. *I.*

26. Fabroniaceæ.

HABRODON, *Schpr.*430 Notarisii, *Schpr.* (*Pterogonium perpusillum*, De Not.)—1. 10. 12. 15.MYRINIA, *Schpr.* (*Leskea*.)431 pulvinata, *Wahl.*—2. 9. 10. 13.

27. Leskeaceæ.

MYURELLA, *Schpr.*432 julacea, *Villars.* (*Leskea moniliformis*, W.)—10. 14. 15. 17. *I.*433 apiculata, *Hübner.*—15.LESKEA, *Hedw.*434 polycarpa, *Ehrh.*—1. 2. 3. 5. 9. 10. 12. 13. 15. *I.*435 nervosa, *Schw.*—15.ANOMODON, *Hook.*436 longifolius, *Schleich.*—10. 15.437 viticulosus, *L.*—1. 2. 3. 5 to 16. *I.*438 attenuatus, *Schreb.*—15.PSEUDOLESKEA, *B. & S.*439 atrovirens, *Dicks.*—14. 15. 16.440 catenulata, *Brid.* (*Hyp. catenulatum*, Schwg.)—7. 10. 12. 15.HETEROCLADIUM, *Schpr.* (*Hypnum*.)441 dimorphum, *Brid.*—15. 17.442 heteropterum, *Bruch.*—1. 5. 7. 9. 10. 12. 16. *I.*THUIDIUM, *Schpr.*443 tamariscinum, *Hedw.*—1 to 18. *I.*444 decipiens, *De Not.*—15. 16.445 recognitum, *Hedw.*—2. 3. 5. 10. 12. 15.446 abietinum, *L.*—1. 2. 3. 4. 10. 13. 15. 17. *I.*447 Blandovii, *W. & M.*—(3). 9. 10.

28. Hypnaceæ.

PTERIGYNANDRUM, *Hedw.*448 filiforme, *Timm.*—12 to 17. *I.*b. heteropterum, *Brid.*—15.PTEROGONIUM, *Swartz.*449 gracile, *Dill.*—1. 2. 5. 7. 10 to 17. *I.*CYLINDROTHECIUM, *Schpr.*450 concinnum, *De Not.* (*Montagnei*, Müll.)—2. 3. 8. 10. 11. 15. 17. *I.*THAMNIUM, *Schpr.*451 alopecurum, *L.*—1. 2. 3. 5 to 17. *I.*CLIMACIUM, *Brid.*452 dendroides, *L.*—1 to 5. 7 to 18. *I.*PYLAISIA, *Brid.*453 polyantha, *Schreb.*—2. 5. 9. 10. 13. 14. 15. *I.*ISOTHECIUM, *Brid.*454 myurum, *Poll.* (*H. curvatum*, Turn.)—1. 2. 3. 5 to 8. 10 to 18. *I.*ORTHOTHECIUM, *Schpr.*455 intricatum, *Hartm.* (*Leskea subrufa*, Wils.)—7 to 12. *I.*456 rufescens, *Dicks.*—10. 15. 16. 17. *I.*

HOMALOTHECIUM, *Schpr.*

- 457 sericeum, *L.*—1 to 18. *I.*

CAMPTOTHECIUM, *Schpr.*

- 458 lutescens, *Huds.*—1. 2. 3. 5. 7 to 18. *I.*
 459 nitens, *Schreb.*—4. 9. 10. 14. 15.

SCIÆROPODIUM, *Schpr.*

- 460 cæspitosum, *Wils.*—2. 3. 5. 7 to 10. 15.
 461 illecebrum, *Schw.*—1. 2. 3. 5. 7. *I.*

BRACHYTHECIUM, *Schpr.*

- 462 plicatum, *Schl.*—15.
 463 salebrosum, *Hoffm.*—2. 3. 8. 10. 14. 15.
 b. Mildeanum, *Schpr.*—1. 2. 3. 8. 9. 15. *I.*
 464 glareosum, *B. & S.*—1. 2. 3. 5. 8. 9. 10. *I.*
 465 cirrhosum, *Schw.*—15.
 466 albicans, *Neck.*—1 to 5. 7 to 10. 12 to 18. *I.*
 467 velutinum, *L.*—1. 2. 3. 5 to 18. *I.*
 468 reflexum, *W. & M.*—15. 16.
 469 Starkii, *Brid.*—15. 16.
 470 glaciale, *B. & S.*—15.
 471 rutabulum, *L.*—1 to 18. *I.*
 b. longisetum, *Bry. Eur.*—3. (10).
 472 campestre, *B. & S.*—2. 9.
 473 rivulare, *B. & S.*—1. 5. 7. 9. 10 to 17. *I.*
 474 populeum, *Hedw.*—1. 2. 3. 5 to 10. 12 to 18. *I.*
 b. majus, *Bry. Eur.*—10.
 475 plumosum, *Swartz.*—1. 3. 5 to 18. *I.*

EURHYNCHIUM, *Schpr.*

- 476 myosuroides, *L.*—1. to 8. 10 to 18. *I.*
 477 strigosum, *Hoffm.*—1.
 478 circinatum, *Brid.*—1. 2. (3). 5. *I.*
 479 striatulum, *Spruce.*—1. 2. 5. 15. 16. *I.*
 480 striatum, *Schreb.*—1 to 13. 15. 16. 17. *I.*
 b. arcuatum, *Lees.*—8.
 481 crassinervium, *Tayl.*—1. 2. 3. 5. 8 to 12. 14. 15. *I.*
 482 piliferum, *Schreb.*—1. 2. 3. 5. 7. 8. 10. 12 to 17. *I.*
 483 speciosum, *Brid.*—1. 3. 5. 7. 9. 10. 15. *I.*
 484 hians, *Hedw.*—1. 2. (3). *I.*
 485 Swartzii, *Turn.* (*prælongum*, *Bry. Eur.*)—1. 2. 3. 5 to 18. *I.*
 486 prælongum, *Dill.* (*Stokesii*, *Bry. Eur.*)—1 to 18. *I.*
 b. Stokesii, *Turn.*—5. 7. 10. 12. 15. 16. *I.*
 487 pumilum, *Wils.*—1. 2. 3. 5. 7 to 10. 12 to 16. *I.*
 488 Teesdalii, *Sm.*—1. 3. 5. 7 to 10. 12. 13. 15. 16. *I.*

HYOCOMIUM, *Schpr.*

- 489 flagellare, *Dicks.* (*H. umbratum*, *Sm. E. B.*)—1. 2. 5. 7 to 12. 14. 15. *I.*

RHYNCHOSTEGIUM, *Schpr.*

- 490 tenellum, *Dicks.*—1. 2. 3. 5. 7 to 12. 14. 15. *I.*
 491 curvisetum, *Brid.* (*litoreum*, *De Not.*)—2. 3. 10.

492 depressum, *Bruch.*—2. (3). 5. 7 to 10. 12. 13. 15. *I.*

493 confertum, *Dicks.*—1 to 15. *I.*

494 megapolitanum, *Bland.*—1. 2. (3). 9. 15. 16. *I.*

495 murale, *Hedw.*—1. 3. 5. 7. 8. 9. 10. 12. 15. *I.*

b. complanatum, *Bry. Eur.*—5. 10. 15.

c. julaceum, *Schpr.*—12. 15.

496 ruscifolium, *Neck.*—1 to 18. *I.*

ISOPTERYGIUM, *Lindb.*

497 demissum, *Wils.*—7. *I.*

PLAGIOTHECIUM, *Schpr.*

498 latebricola, *Wils.*—2. 3. 4. 5. 9. 10. 14.

499 pulchellum, *Hedw.*—5. 7. 9. 10. 11. 13 to 17. *I.*

500 nitidulum, *Wahl.*—10. 15. 16.

501 denticulatum, *L.* a. aptychus, *Spruce.*—10. 11.

b. sulcatum, *Spruce.*—1 to 18. *I.*

c? obtusifolium, *H. & T.*—15. 16. 17.

502 Borrerianum, *Spruce.*—1. 3. 5 to 17. *I.*

b. collinum, *Wils.*—9. 10. 13.

503 sylvaticum, *L.*—1. 2. 3. 5. 8. 10 to 16. *I.*

b. succulentum, (*Wils.*) *Spruce.*—9.

504 undulatum, *L.*—1. 2. 3. 5 to 18. *I.*

505 Mühlenbeckii, *Schpr.*—15. 16. 17.

506 silesiacum, *Seliger.*—3. 10.

AMBLYSTEGIUM, *Schpr.*

507 Sprucei, *Bruch.*—9. 10. 11. 15.

508 confervoides, *Brid.*—1. 5. 7. 11.

509 serpens, *L.*—1 to 16. *I.*

b. majus, *Brid.*—3. 5. 8. 10. 12. 14.

510 radicale, *P. Beauv.*—1. 2. 3. 5. 7. 9. 10. 12. 14. 15.

511 irriguum, *Wils.*—2. 3. 5. 8. 9. 10. 12. 15. 18. *I.*

512 fluviatile, *Swartz.*—1. 5. 7. 8. 10. 14. 15. *I.*

513 riparium, *L.*—1. 2. 3. 5. 7 to 15.—*I.*

b. longifolium, *Brid.*—3. 5. 10.

HYPNUM, *Dill.*

§ 1 *HARPIDIUM* (*Sulliv.*).

514 aduncum, *Hedw.*—1. 3. 5. 8. 9. 10.

b. Kneiffii, *Bry. Eur.*—3. 5. 8. 9. 10. 12. *I.*

515 exannulatum, *Gümb.* (*aduncum*, *Bry. Brit.*)—1. 3. 5. 9. 10. 11. 12. *I.*

b. stenophyllum, *Wils.*—10. 11.

c. purpurascens, *Schpr.*—15.

516 vernicosum, *Lindb.*—5. 9. 10. 12. 15. *I.*

517 Cossoni, *Schpr.* (*intermedium*, *Lindb.*)—5. 10. 12. 15. *I.*

518 Sendtneri, *Schpr.*—1. 5. 8. 9. 10. 12. 14.

b. Wilsoni, *Schpr.*—9.

519 lycopodioides, *Schw.*—1. 3. 9. 10. 11. 15. 17. *I.*

520 revolvens, *Swartz.*—1. 2. 5. 7. 9 to 18. *I.*

521 fluitans, *L.*—1. 2. 3. 5. 7 to 18. *I.*

522 uncinatum, *Hedw.*—1. 2. 5. 7 to 10. 12 to 18. *I.*

§ 2 *CRATONEURON* (Schpr.).

- 523 filicinum, *L.*—1 to 18. *I.*
 b. vallisclausæ, *Brid.*—2. 5. 7. 8. 10. 15.
 c. gracilescens, *Schpr.*—10.
 524 commutatum, *Hedw.*—1. 2. 3. 5 to 18. *I.*
 525 virescens, *Boulay.*—5. 10.
 526 falcatum, *Brid.*—1. 2. 3. 5 to 10. 12 to 17.
 b. gracilescens, *Schpr.*—10. 15. 18.
 527 sulcatum, *Schpr.*—15.
 b. subsulcatum, *Schpr.*—15.

§ 3 *RHYTIDIUM* (Sulliv.).

- 528 rugosum, *Ehrh.*—(4). 5. 8. 10. 11. 12. 15. 16. 17.

§ 4 *HOMOMALLUM* (Schpr.).

- 529 incurvatum, *Brid.*—10. 11. 12. 15. 16.

§ 5 *DREPANIUM* (Schpr.).

- 530 canariense, *Mitt.*—1.
 531 hamulosum, *B. & S.*—(10). 15. *I.*
 532 callichroum, *Brid.*—7. 15. 16. 17.
 533 Bambergeri, *Schpr.*—15.
 534 imponens, *Hedw.*—2. 3. 10.
 535 cupressiforme, *L.*—1 to 18. *I.*
 b. tectorum, *Schpr.* (*lacunosum*, *Wils.*)—3. 5. 6. 8. 10. 12. *I.*
 c. filiforme, *Bry. Eur.*—3. 5. 8. 10. 13 to 17. *I.*
 d. ericetorum, *Bry. Eur.* (*compressum*, *Wils.*)—2. 3. 8. 10. 16. 17. 18.
 e. minus, *Wils.*—2. 5. 10. *I.*
 536 resupinatum, *Wils.*—1 to 5. 7 to 18. *I.*
 537 patientiæ, *Lindb.* (*arcuatum*, et *pratense*, *B. B.*)—1. 3. 5. 9. 10. *I.*

§ 6 *CTENIDIUM* (Schpr.).

- 538 molluscum, *Hedw.*—1 to 18. *I.*

§ 7 *CTENIUM* (Schpr.).

- 539 crista-castrensis, *L.*—10. 12. 15. 16. *I.*

§ 8 *LIMNOBIUM* (*Bry. Eur.*)

- 540 palustre, *L.*—1. 2. 3. 5 to 17. *I.*
 b. subsphæricarpon, *Bry. Univ.*—5. 7. 10. *I.*
 541 molle, *Dicks.*—(10) 15.
 542 dilatatum, *Wils.*—7. 9. 15. 16. 17.
 543 eugyrium, *Schp.*—7. 9. 10. 12. 15.
 b. Mackaii, *Schpr.*—*I.*
 544 arcticum, *Somm.*—15.
 545 ochraceum, *Turn.*—1. 7 to 10. 12 to 17. *I.*
 b. flaccidum, *Milde.*—10.

§ 9 *CHRYSOBRYUM*.

- 546 micans, *Wils.* (*Leskea.*)—*I.*

§ 10 *CAMPYLIUM*.

- 547 Halleri, *L.*—15. 16.
 548 polymorphum, *Hedw.* (*Sommerfelti*, *Myr.*)—3. 5. 7. 10 to 13. 15. *I.*
 549 elodes, *Spruce.*—3. 5. 9. 10. 13. 14. 15. 18. *I.*
 550 chrysophyllum, *Brid.*—1. 2. 3. 5. 8. 10 to 17. *I.*
 551 polygamum, *B. & S.*—3. 5. 9. 10. 12. 13 to 17. *I.*
 b. stagnatum, *Wils.*—5. 15. 17. *I.*
 552 stellatum, *Schreb.*—1 to 5. 8 to 18. *I.*
 b. protensum, *Brid.*—5. 10. 15. 16.

§ 11 *CALLIERGON*.

- 553 cordifolium, *Hedw.*—1. 2. 3. 5. 8. 9. 10. *I.*
 554 giganteum, *Schpr.*—5. 9. 10. 12. 13. 15. 16. *I.*
 555 sarmentosum, *Wahl.*—1. 7. 10 to 18. *I.*
 b. subflavum, *Ferg.*—15. 16.
 556 cuspidatum, *L.*—1 to 18. *I.*
 b. pungens, *Schpr.*—10. 15.
 557 Schreberi, *Ehrh.*—1. 2. 3. 5 to 8. 10 to 18. *I.*
 558 purum, *L.*—1 to 18. *I.*
 559 stramineum, *Dicks.*—1. 3. 5. 7. 9 to 18. *I.*
 560 trifarium, *W. & M.*—15. 16. 17.
 561 scorpioides, *L.*—1. 2. 4. 5. 7. 8. 10 to 16. *I.*

HYLOCOMIUM, *Schpr.*

- 562 splendens, *Dill.*—1 to 5. 7 to 18. *I.*
 563 umbratum, *Schreb.*—(10). 15. 16. 17.
 564 Oakesii, *Sull.*—15. 16.
 565 brevirostrum, *Ehrh.*—1. 2. 3. 5. 7. 9 to 16. *I.*
 566 squarrosuni, *L.*—1 to 18. *I.*
 b. calvescens, *Wils.*—7. 9. 15.
 567 loreum, *L.*—1. 2. (3). (5). 7 to 17. *I.*
 568 triquetrum, *L.*—1 to 17. *I.*

CLASS II.

HEPATICÆ.

ORDER I.—MARCHANTIACEÆ.

Section A.—SCHIZOCARPÆ.

1. Marchantieæ.

MARCHANTIA, *Linnaeus* (1753).

1 polymorpha, *L.*—1 to 17. 18B. *I.*

PREISSIA, *Corda* (1829). (*Chomiocarpon*, Scop. 1760.)

2 commutata, *Nees*. (*C. quadratus*, Scop.)—2. 3? 6. 7. 10. 12. 15. *I.*

CONOCEPHALUS, *Necker* (1790). (*Hepatica*, Mich. 1741. *Fegatella*, Raddi. 1818.)

3 conicus, *L.*—1 to 18. *I.*

ASTERELLA, *P. Beauv.* (1810.) (*Reboulia*, Raddi. 1818.)

4 hemisphærica, *L.*—1 to 5. 7. 8. 10 to 13. 15. 16. *I.*

DUMORTIERA, *Nees* (1823).

5 hirsuta, *Sw.* (*irrigua*, Wils. and Tayl.)—1. 2. 10*. *I.*

LUNULARIA, *Micheli* (1741).

6 vulgaris, *Mich.* (*cruciata*, *L.* 1753.)—1 to 5. 7 to 10. 12. 15. *I.*

2. Targionieæ.

TARGIONIA, *Micheli* (1741).

7 hypophylla, *L.*—1. 2. 7. 10. 12. 13. *I.*

Section B.—CLEISTOCARPÆ.

1. Riccieæ.

RICCIA, *Micheli* (1729).

8 glauca, *L.*—1. 2. 3. 4. 5. 7. 8. 10. 12. 13. 14. *I.*

b. minor, *Lindenbg.* (*imbricata*, Del.)—

c. minima, *Lindenbg.* (*venosa*, Roth. et. *Michelii*, Raddi.)—

9 nigrella, *DC.* (*lamellosa*, Ralfs.)—7.

10 crystallina, *L.*—3? 13?

11 glaucescens, *Carr.* (*R. Lescurii*, Aust.?)—1. 5. 7. 12. 13.

12 tumida, *Lindenbg.*—5. 7.

b. *Pearsoni*, *Carr.*—7.

13 bifurca, *Bischoff.*—12. 16.

14 sorocarpa, *Bischoff.*—5. 7. 12. *I.*

- 15 minima, *Micheli*.—7.
 RICCIELLA, *Al. Braun* (1821).
 16 fluitans, *L.*—3. 4. 5. 9. 10. 14. *I.*
 RICCIOCARPUS, *Corda* (1829).
 17 natans, *L.*—4. 5. 7. 8. 10. *I.*

2. Synhymenieæ.

- CYATHODIUM, *Kunze* (1834).
 18 spurium, *Lindbg.* (*Riccia spuria*, *Dicks.* 1801.)—15?

ORDER 2.—J U N G E R M A N N I A C E Æ.

Section A.—SCHIZOCARPÆ.

* ANOMOGAMÆ (*Lindbg.*)

1. Frullanieæ.

- FRULLANIA, *Raddi* (1818).
 19 dilatata, (*L.*) *Dum.*—1. 2. 3. 5 to 8. 10 to 16. *I.*
 20 fragilifolia, *Tayl.*—1. 7. 10. 12. 15. *I.*
 21 Hutchinsiae, *Hook.*—1? 7. 12 (Manx). 16. *I.*
 b. integrifolia, *Nees.*—*I.*
 22 Tamarisci, (*Mich.*) *Dum.*—1. 3. 5. 7 to 12. 13 to 17. *I.*
 b. Cornubica, *Carr.*—1. 7.
 c. microphylla, *Gottsche.*—7. 16. *I.*
 23 germana, *Tayl.*—1. 7. 12. S? *I.*

LEJEUNEA, *Mme. Libert* (1820).

§ *Acuminatifoliae.*

- 24 calyptrifolia, *Hook.*—1. 12. *I.*
 25 hamatifolia, *Hook.*—1. 7. 10. 12. *I.*
 26 echinata, *Hook.* (*calcarata*, *Lib.*)—7. 8. 10. 11. 12. *I.*
 27 ovata, (*Dicks.*) *Tayl.*—7. 10. 12. *I.*

§§ *Obtusifoliae.*

- 28 microscopica, *Tayl.*—*I.*
 29 minutissima, *Sm.* (*ulicina*, *Tayl.*)—1. 3. 9. 10. 12. 15. *I.*
 30 inconspicua, *Raddi.* (*Taylori*, *Spruce.*)—10. 15. 16. *I.*
 31 diversiloba, *Spruce* (*diversifolia*, *Gottsche.*)—*I.*
 32 serpyllifolia, *Mich.*—1. 2. 3. 5 to 8. 10 to 15. *I.*
 a. planiuscula, *Lindb.*—
 b. cavifolia, *Ehrh.*—
 c. heterophylla, *Carr.*—*I.*

33 patens, *Lindbg.*—7. 12. 16. *I.*

34 flava, *Sw.* (*Moorei*, *Lindb.*)—12. *I.*

35 Mackaii, (*Hook.*) *Spreng.* (*Phragmicoma*, *Dum.*)—1. 7. 10. 12. 16. *I.*

RADULA, *Dumortier* (1823). (*Martinellia*, *Sect. A.*, *Gray.*)

36 complanata, *L.*—1 to 17. *I.*

37 aquilegia, *Tayl.*—7. *I.*

- 38 *commutata*, *Gottsche*.—15.
 39 *Xalapensis*, *N. M.* (*voluta*, *Tayl.*)—7. *I.*
 40 *Lindenbergii*, *Gottsche*.—12. 16. *I.*
 PORELLA, *Dillenius* (1741), *Dicks.* (*Madotheca*, *Dum.* 1823.)
 41 *lævigata*, *Schrader*.—1. 7. 10. 12. 15. *I.*
 42 *platyphylla*, *L.*—1 to 3. 5 to 18. *I.*
 43 *Thuja*, *Dicks.*—1. 12. 16. *I.*
 44 *rivularis*, *Nees*.—1. 7. 10. 12. 14. *I.*
 45 *pinnata*, (*Dicks.*) *Lindbg.* (*Madotheca Porella*, *Nees*.)—1. (10). *I.*
 PLEUROZIA, *Dumortier* (1835). (*Physotium*, *Nees.* 1838.)
 46 *cochleariformis*, *Weiss.* (*J. purpurea*, *Lightf.* 1777.)—1? 10. 15. 16. *I.*

** HOMOGAMÆ (*Lindbg.*)

† OPISTHOGAMÆ (*Lindbg.*)

2. *Lepidozieæ.*

LEPIDOZIA, *Dumortier* (1833).

- 47 *reptans*, *L.*—1 to 12. 14 to 17. *I.*
 48 *cupressina*, *Sw.* (*tumidula*, *Tayl.*)—1. 10. *I.*
 49 *setacea*, *Mitten.* (*Blepharostoma*, *Dumort.*)—1. 2. 3. 5. 7 to 10. 12. 14. *I.*

BAZZANIA, *Gray* (1821). (*Mastigobryum*, *Nees.* 1845.)

- 50 *trilobata*, (*Buddl.*) *L.*—1. 2. 6. 7. 8. 10 to 16. *I.*
 51 *tricrenata*, (*Wahl.*) *Lindbg.* (*deflexa*, *Mart.*)—7. 10. 12. 15. 16. 17. *I.*
 52 *triangularis*, *Schl.* (*innovans*, *Nees*.)—7. 16.

ODONTOSCHISMA, *Dum.* (1835.) (*Sphagnæcetis*, *Nees*.)

- 53 *Sphagni*, *Dicks.*—1. 2. 4. 7. 8. 10 to 17. *I.*
 54 *denudatum*, *Nees*.—2. 9. 12. 16. *I.*

ADELANTHUS, *Mitt.* (1864.) (*Odontoschisma*, p.p. *Lindbg.*)

- 55 *decipiens*, *Hook.*—1. 7. *I.*

CEPHALOZIA, *Dumort* (1835). (*Trigonanthus*, *Spruce.* 1849.)

- 56 *Francisci*, *Hook.* (*Sehlmeyeri*, *Hüb.*)—2. 4. 9. 10. 15.? *I.*
 57 *obtusiloba*, *Lindbg.* (*J. inflata*, var. *fluitans*, *G.L.N.*)—9. 12. *I.*
 58 *albescens*, *Hook.*—16.
 59 *laxifolia*, *Hook.*—7. 11. 12. 15. *I.*
 60 *elachista*, *Jack.*—*I.*
 61 *byssacea*, (*Roth.*) *Hook.*—1. 3. 5. 7. 10. 11. 15. *I.*
 62 *divaricata*, *Sm. E. B.* (*Starkii*, *Nees*.)—1. 7. 10. 12. 15. 16. *I.*

b. *Pearsoni*, *Lindbg.*—*E.*

- 63 *stellulifera*, *Tayl.*—1. 5. 15.
 64 *bicuspidata* (*L.*) *Dum.*—1 to 17.
 b. *rigidula*, *Carr.*—
 65 *Lammersiana*, *Hüb.* (*C. uliginosa*, *Spruce*.)—8. 9. 10. 12. *I.*
 66 *curvifolia*, *Dicks.*—5. 7. 10. 12. 16. *I.*
 67 *connivens*, *Dicks.*—1. 2. 5. 7. 9. 10. 12. 15. 16. *I.*
 68 *multiflora*, (*Huds.*) *Spruce*.—7. 9. 10. 12.
 69 *catenulata*, *Hüb.*—7. 10. 12. 15. 16. *I.*
 70 *Turneri*, (*Hook.*) *Lindbg.*—*E.*? *I.*

LOPHOCOLEA, *Dumort.* (1835.)

- 71 bidentata, *L.*—1 to 18. *I.*
 b. cuspidata, *Gottsche.*—
 c. gracile, *Carr.*—
 d. latifolia, *Hook.*—

72 heterophylla, *Schrad.*—1. 3. 5. 7. to 12. 14. 16. *I.*

73 spicata, *Tayl.*—*I.*

LEPTOSCYPHUS, *Mitt.* (1851.) (*Pedinophyllum*, *Lindbg.* 1874.)

- 74 interruptus, *Nees.* (*Plagiochila interrupta*, *Dum.*)—2. 5. 8. 10. 12.
 b. pyrenaicum, *Spruce.* (*J. polymorpha*, *Carr.*)—10. *I.*

CHILOSCYPHUS, *Corda* (1829).

- 75 polyanthos, *L.*—1. 3. 5. 7 to 15. *I.*
 b. pallescens, *Ehrh.*—
 c. rivularis, *Nees.*—8. 10. 12.

HARPANTHUS, *Nees* (1836).

- 76 scutatus, *Spruce.*—3. 7. 10. 15. *I.*
 77 Flotowii, *Nees.*—16.

3. Saccogyneæ.

SACCOGYNA, *Dumort.* (1823). (*Lippius*, *Gray.* 1821.) (*Geocalyx*, *Nees.* 1833.)

- 78 viticulosa, *Mich.*—1. 3. 6. 7. 9. 10. 12. 15. *I.*

KANTIA, *Gray* (1821). (*Calypogeia*, *Corda.* 1829.)

§ Monœciæ.

- 79 Trichomanis, *L.*—1 to 5. 7 to 12. 14. 15.
 b. fissa, *Raddi.*—10.

80 Sprengelii, *Mart.*—1. 7. 10. 16.

§ § Diœciæ.

81 arguta, *Nees et Mont.*—7. 10. 12. *I.*

‡ ACROGAMÆ (*Lindbg.*)

4. Blepharozieæ.

TRICHOCOLEA, *Dumort.* (1823.)

- 82 tomentella, *Ehrh.*—1. 2. 5. 7 to 12. 14 to 16. *I.*

BLEPHAROZIA, *Dumort.* (1831.) (*Ptilidium*, *Nees.* 1833.)

83 ciliaris, *Nees.*

- a. pulcherrima, *Hoffm.* (*Var. ericetorum*, *Syn. Hep.*)—1. 6 to 16. *I.*
 b. Wallrothiana, *Nees.*—10.

MASTIGOPHORA, *Nees* (1833).

84 Woodsii, *Hook.*—17. *I.*

HERBERTA, *Gray* (1821). (*Schisma*, *Dum.* 1823.)

85 adunca, *Dicks.*—7. 12. 15. 16. *I.*

ANTHELIA, *Dumort.* (1835.) (*Chandonanthus*, *Mitt.* p.p.)

- 86 julacea, (*L.*) *Lightf.*—1. 7. 10 to 13. 15. 16. 17. *I.*
 b. clavigera.—7. 16.

87 setiformis, *Ehrh.*—15. 16.

BLEPHAROSTOMA, *Dumort.* (1835).

88 trichophyllum, *L.*—1 to 4. 7 to 12. 15. *I.*

5. *Jungermanniæ*.SCAPANIA, *Dumort. Syll.* (1831). (*Martinellia*, Sect. B., Gray.)

§ Leaves roundish, lobes sub-equal.

89 *compacta* (*Roth.*) *Dum.*—1. 3. 7. 10. 12. 14. 15. *I.*90 *subalpina*, *Dum.*—15. *I.*b. *undulifolia*, *Gott.*—15.91 *nimbosa*, *Tayl.*—*I.*92 *undulata*, *Dill.*—1. 3. 5. 7 to 12. 14 to 18. *I.*93 *uliginosa*, *Nees.*—1. 10. 16. *I.*94 *irrigua*, *Nees.*—1. 7. 9. 15. *I.*

§ § Leaves longer than broad, lobes acuminate.

95 *nemorosa*, *L.*—1 to 3. 5 to 8. 10 to 12. 15. *I. C.*96 *resupinata*, *Dumort.* (b. *recurvifolia*, *Hook.*)—1. 3. 5. 7. 10 to 12. 14. 15. *I.*97 *purpurea*, (*Dill.*) *Carr.* (c. *purpurascens*, *Hook.*)—7. 9 to 12. 15. *I.*98 *planifolia*, *Hook.*—7. 15. *I.*99 *æquiloba*, *Schwæg.*—1. 7. 10. 12. 15. 16. 18A. *I.*100 *Bartlingii*, *Nees.* (*rupestris*, *Dum.*)—10. 11.101 *umbrosa*, *Schrad.* (*J. convexa*, *Scop.* 1772)—1. 2. 7. 10. 12. 14. 15. *I.*102 *curta*, *Mart.*—2. 7. 9. 10. 12. 14. 15. 16. *I.*b. *spinulosa*, *Nees.*—10. 15.c. *rosacea*, *Nees.*—15.DIPLOPHYLLUM, *Dumort.* (1835.)103 *albicans*, *L.*—1 to 18. *I.*104 *Dicksoni*, *Hook.* (*J. ovata*, *Dicks.* 1793.)—7? 10. 12. 15. *I.*105 *obtusifolium*, *Hook.*—9. 10. 11. 15. *I.*b. *elegantulum*, *Spruce.*—10.PLAGIOCHILA, *Dumort.* (1835.) (*Martinellia*, Sect. C., Gray.)106 *asplenoides*, *L.*—1 to 18. *I.*b. *Dillenii*, *Tayl.*—1. 5. 7. 8 to 12. 14. *I.*c. *humilis*, *Lindb.*—1. 10. 15.107 *spinulosa*, *Dicks.*—1. 2. 7. 10. 11. 12. 14. 15. *I.*b. *microphylla*, *Carr.*—*I.*108 *punctata*, *Tayl.*—7. 16. *I.*109 *tridenticulata*, *Tayl.*—1. 7. 12. 14.110 *exigua*, *Tayl.*—7. *I.*JAMESONIELLA, *Spruce* (1876). (*Adelanthus*, *Carr.*)111 *Carringtoni*, *Balf.*—15. 17B.MYLIA, *Gray* (1821).112 *Taylori*, *Hook.*—1. 7. 8. 10. 11. 12. 15. 17A. *I.*113 *anomala*, *Hook.*—4. 8. 9. 10. 12. 16. *I.*EUCALYX, *Lindbg.* (1872). (*Southbya*, *Spruce*, 1871. *Nardia*, p.p., *Carr.*)114 *obovata*, *Nees.* (*J. tersa*, *Nees*, p.p.)—7. 10. 12. 15. *I.*115 *hyalina*, *Lyell.*—2. 7. 8. 9. 10. 12. 15. 16. *I.*JUNGERMANNIA, *Linn.* (1745.)§ 1 *APLOZIA*, *Dumort.* (1835.)116 *lanceolata*, *Nees.* (*Lioclana*, *Nees.* 1845.)—1? 2. 10. 12. 15 or 16.117 *Schraderi*, *Mart.*—E. S. W.—7. 10. 12. 15. 16.

- 118 *crenulata*, *Sm.*—1. 3. 5. 7 to 12. 14. 16. *I.*
 b. gracillima, *Sm. (J. Genthiana, Hübn.)*—1. 2. 4. 10. 12. 15. 16. *I.*
 119 *lurida*, *Dum. (J. nana, Nees.)*—1. 15. *I.*
 120 *pumila*, *With.*—1. 3. 6. 7. 10. 12. 15. 16. *I.*
 b. nigricans, *Hook.*—10.
 c. Zeyheri, *Hübn.*—10. 16.
 121 *sphærocarpa*, *Hook.*—1. 2. 3. 5. 7. 9. 10. 12. 14. 15. *I.*
 122 *cordifolia*, *Hook.*—1. 7. 10. 11. 12. 13. 15. 16. *I.*
 123 *riparia*, *Tayl.*—7. 8. 10. 11. 12. 15. *I.*

§ 2 *LOPHOZIA*, *Dumort.* (1835.)

- 124 *Bantriensis*, *Hook.*—7. 10. 11. 12. 15. *I.*
 125 *Mülleri*, *Nees.*—10. 11. 15. *I.*
 126 *Hornschuchiana*, *Nees.*—15. *I.*
 127 *socia*, *Nees.*—7.
 128 *Orcadensis*, *Hook.*—7? 12. 15. 18B. *I.*
 129 *barbata*, *Schreb. (J. barbata v. Schreberi, N.)*—1. 7 to 17. *I.*
 130 *attenuata*, *Lindenbg. (J. gracilis, Schl.)*—3. 7. 9. 10. 12. 13. *I.*
 131 *Floerkii*, *Web. et Mohr.*—7. 9. 10. 11. 12. 15. *I.*
 132 *quinquedentata*, *Web. (J. Lyoni, Tayl.)*—1. 7. 8. 10. 11. 12. 15. 16. *I.*
 133 *lycopodioides*, *Wallr.*—7. 10. 15.
 134 *exsecta*, *Schmid.*—3. 4. 7. 10. 15.
 135 *porphyroleuca*, *Nees.*—7. 10. 12. 16. *I.*
 136 *ventricosa*, *Dicks.*—1. 3. 5. 7. 8. 9. 10. 12. 14. 15. *I.*
 137 *bicrenata*, *Lindenb. (J. excisa, Sm. E. B.)*—7. 10. 11. 15. *I.*
 138 *capitata*, *Hook. (J. intermedia, Lind.)*—1. 2. 3. 9. 10. 12. 13. 15. *I.*
 139 *incisa*, *Schrad.*—1. 3. 7. 10. 11. 12. 15. *I.*
 140 *alpestris*, *Schleich.*—7. 12. 15. 16. *I.*
 b. gelida, *Tayl.*—7. 16.

§ 3 *GYMNOCOLEA*, *Dum.* (1831.)

- 141 *cuneifolia*, *Hook.*—*I.*
 142 *inflata*, *Huds.*—1 to 18. *I.*
 b. compacta, *Nees.*—
 c. laxa, *Nees.*—
 143 *turgida*, *Carr. (C. heterostypa, Spruce.)*—7.
 144 *turbinata*, *Rad. (affinis, Wils. Wilsoniana, N.)*—1 to 5. 7 to 12. 14. *I.*
 145 *Nevicensis*, *Carr. Exsicc. II.*—16.

§ 4 *ANASTROPHYLLUM*, *Spruce.* (1876.)

- 146 *Doniana*, *Hook.*—12. 15. 17?

§ 5 *SPHENOLOBUM*, *Lindbg.* (1874.)

- 147 *Kunzeana*, *Hübn.*—15.
 148 *saxicola*, *Schrad.*—16.
 149 *minuta*, *Crantz.*—2. 7. 10. 12. 13. 15. *I.*
 150 *myriocarpa*, *Carr.*—15.

NARDIA, Gray (1821).

§ 1 *MARSUPELLA*, Dum. (1823. *Sarcoscyphus*, p.p., Corda.)151 emarginata, Ehrh. (*S. Ehrharti*, Nees.)—1. 3. 7. 10 to 17. *I.*

152 alpina, Gottsche.—7. 15.

b. laxior, Gott.—15.

153 Mülleri, Nees.

b. ligurica-viride, Carr.—15.

154 picea, (*De Not.*) Carr.—7. 16.155 sphacelata, Giesecke.—15. 16. *I.*156 revoluta, Nees.—*I.*157 adusta, Lindbg. (*N. brevissima*, Dum.)—2. 7. 10. 12.

b. sparsifolia, Lindbg.—16.

158 Funckii, Nees.—2. 7. 12. 15. 16. *I.*§ 2 *MESOPHYLLA*, Dumort. (1823. *Alicularia*, Corda. 1829.)159 compressa, Gray.—1. 7. 9. 10. 12. 15. 16. 17. *I.*160 scalaris, Schrad.—1 to 5. 7 to 18. *I.*

161 repanda, Hübner.—10. 15.

162 geoscypha, *De Not.* (*N. hæmatostictam*, Nees.)—2. 7. 13. 10.GYMNOMITRIUM, Corda. (1829.) (*Cesia*, Gray. 1821.)

163 concinnatum, Corda.—7. 10. 12. 13 to 18.

164 corallioides, Nees.—15. 16. 17A.

165 obtusum, Lindbg.—7. 12. 15. 16.

166 crassifolium, Carr.—15.

167 crenulatum, Gottsche.—1. 7. 12. 15. 16. *I.*

*** HETEROGAMÆ.

6. Fossombronieæ.

ACROBOLBUS, Nees. (1844.) (*Gymnanthe*, Tayl. 1844.)168 Wilsoni, Tayl.—*I.*SCALIA, Gray (1821.) (*Haplomitrium*, Nees. 1833.)169 Hookeri, Lyell.—1. 2. 10. 15. *I.*FOSSOMBRONIA, Raddi. (1818.) (*Maurocena*, Gray. 1821.)170 pusilla, Nees. (*F. Wondraczclei*, Hep. Eur.)—1. 3. 5. 10. 12. *I.*171 Dillenii, Tayl. (*F. Dumortieri*, Hep. Eur.)—10. 12.172 angulosa, Raddi.—1. 7. *I. C.*173 cæspitiformis, *De Not.*—2. 9. 12.PETALOPHYLLUM, Gottsche (1846.) (*Codonia*, p.p. Dum.)174 Ralfsii, Wils.—1. 7. *I.*PALLAVICINIA, Gray (1821.) (*Marckia*, Gottsche. 1865.)175 Hibernica, Hook.—1. 7. 9. *I.*176 Blyttii, Lindenbg. (*Marckia Norvegica*, Gott.)—14. 15?DILÆNA, Dumort. (1822.) (*Blyttia*, Endl. 1840.)177 Lyellii, Hook.—1. 2. 7? 11. 12. *I.*

BLASIA, Micheli (1729).

178 pusilla, *I.*—1. 3. 6 to 10. 12. 15. *I.*

PELLIA, *Raddi*. (1818.) (*Marsilia*, Mich. 1741.)

179 epiphylla, *L.*—1 to 18. *I.*

180 calycina, *Tayl.* (v. *furcigera*, Hook.)—1 to 5. 7 to 12. 14 to 17. *I.*

7. Aneureæ.

ANEURA, *Dum.* (1823.) (*Riccardia*, Gray. 1821). (*Ræmeria*, *Raddi*. 1818.)

* Diœciæ.

181 pinguis, *L.*—1. 3. 5. 7 to 12. 14. *I.*

182 palmata, *Hedw.*—9. 10. 12. 16. *I.*

* * Monœciæ.

183 latifrons, *Lindb.*—16. *I.*

b. aquosa, *Lindb.*—7. *I.*

184 sinuata, *Dicks.* (*pinnatifida*, *Nees.*)—5. 7. 9. 10. 12. *I.*

185 multifida, (*Dill.*) *Gray.*—1 to 16. *I.*

b. ambrosioides, *Nees.*—5. 7. 9. 10. *I.*

c. submersa-major.—*I.*

8. Metzgeriæ.

METZGERIA, *Raddi.* (1818.) (*Hervera*, Gray. 1821.)

* Diœciæ.

186 furcata, (*L.*) *Dum.*—1. 2. 3. 5 to 12. 14 to 17. *I.*

b. æruginosa, *Hook.*

187 pubescens, *Schrank.*—7. 8. 10. 11. 12. 16. *I.*

188 linearis, (*Sw.*) *Lindbg.*—16. *I.*

b. hamata, *Lindbg.*—7.

* * Monœciæ.

189 conjugata, (*Dill.*) *Lindbg.*—7. 10. 12. *I.*

Section B.—CLEISTOCARPÆ.

1. Sphærocarpeæ.

SPHÆROCARPUS, *Micheli* (1729).

190 terrestris, *Sm.* (*S. Michelii*, Bellard.)—4. 7? 10. *I.*

ORDER 3.—ANTHOCEROTACEÆ.

1. Anthoceroteæ.

ANTHOCEROS, *Micheli* (1729)

191 punctatus, *L.*—1. 3. 5. 7. 10. 12. 15. *I.*

b. multifidus, ('*L'*'), *Nees.*—E. S.

192 lævis, *Dill.*—1. 3? 5. 10. 12. *I.*

EXCLUDED SPECIES.

ERRORS; AMBIGUITIES; UNCERTAINTIES; INTRODUCTIONS.

-
- SPHAGNUM Wulfianum, *Schpr.*
 ANDRÆA obovata, *Theden.*
 WEISSIA calcarea, Müll. b. brevifolium, *Schpr.*
 WEISSIA trunciola, *De Not.*
 GYMNSTOMUM calcareum, *Nees et Hornsch.*
 DICRANUM undulatum, *Ehrh.*
 GRIMMIA gigantea, *Schpr. Syn.*
 RHACOMITRIUM microcarpum, *Funk.*
 GLYPHOMITRIUM cylindraceum, *Tayl.*
 ORTHOTRICHUM fallax, *Swartz.*
 DIDYMODON rufus, *Schpr. (Barbula rufa, Lor., Cat. Ed. I.)*
 DIDYMODON Jenneri, *Schpr.*
 TRICHOSTOMUM Bambergeri, *Schpr.*
 TORTULA gracilis, *Schwæg., Wils.*
 GEHEEBIA cataractarum, *Schpr.*
 DISSODON Froelichianus, *Greß.*
 TAYLORIA serrata, *Hedw.*
 SPLACHNOBRYUM Wrightii, Müll. (*Entosthodon minimus, Hunt.*)
 MEESIA longiseta, *Hedw.*
 BRYUM Muhlenbeckii, *B. & S.*
 BRYUM Funckii, *Schwæg.*
 PHILONOTIS parvula, *Lindb. (P. fontana var. pumila olim, Schpr. Syn.)*
 PHILONOTIS Marchica, *Willd.*
 TIMMIA Megapolitana, *Hedw.*
 FISSIDENS asplenioides, *Hedw.*
 DICHELIMA capillaceum, *Dicks.*
 CINCLIDOTUS riparius, *Arnott.*
 THUIDIUM delicatulum, *Linn.*
 HYPNUM elegans, *Hook.*
 HYPNUM pratense, *Koch.*
 BRACHYTHECIUM chrysoleucum, *Spruce ms.*
 AMBLYSTEGIUM heterocladium, *Spruce ms.*
 PLAGIOTHECIUM Sullivantiae, *Schpr.*
-

- RICCIA ciliata, *Hoffm.*
 RICCIA cavernosa, *Hoffm.*
 FRULLANIA ciliata, *Gottsche, et Lindenb.*
 PORELLA Cordeana (*Hübner.*), *Dumort.*
 JUNGERMANNIA Mildana, *Gottsche.*

EXPLANATIONS OF THE CATALOGUE.

The Moss List.—A new edition of this catalogue being called for, advantage has been taken of the opportunity to make some additions and corrections in details, without materially altering the technical arrangement first adopted, or greatly interfering with the numbers affixed to the specific names. The 1877 catalogue was arranged upon a system then recently promulgated by Jæger, from the impression not so much of its absolute perfection as of its general convenience, and the likelihood of its being in common use for some time as a reference and standard; and with so many methods of arrangement in the field, it seemed undesirable to introduce even one more. But few mere changes of names will be found in the present list to have been made out of regard to the somewhat fashionable doctrine of the claims of priority, the practice of which seems of very doubtful advantage, and rather likely to confuse than to aid the student in any way. The resuscitation of forgotten names seems dictated more by the vanity of writers than by desire to promote the study of the science, and in this instance, therefore, little heed is given to examples recently set, except in cases where some additional reason exists for a restoration. In some few cases, however, where the single line allotted to each species permitted, early names lately raked up have been given in brackets as synonyms. A mere catalogue should follow known and accepted models of nomenclature, and not attempt to lead the way; intended for reference, the more familiar the better. Authors of voluminous monographs may indulge in "views," but until they have cleared the road the list compiler should be content to keep in the old familiar path, or he becomes a bewilderer and a misleader who should be a useful guide.

Although the total number of species (568), here included as in strictness natives of the British Isles, appears to be the same as in the first edition, yet the alterations are much more numerous than would be revealed by any such superficial examination as a comparison of numbers. It was thought well to adhere to the original series—those denoting each species—as nearly as possible, and the correspondence in this respect between the two issues will rarely be found to differ above an unit or so. This result has been attained only with considerable trouble by a process of substitution. Bryological research during the past four years has shown the claims of many species hitherto included in British lists to be very slight indeed, in some cases absolutely nil; whilst, on the other hand, an almost equal number of species have been established as indubitably occurring within our limits. The one class has balanced the other, all new species up to date with good Authority for their sponsor having been inserted, and all in the *doubtful* category (parenthetically included and improperly numbered in the first edition)—with the exception of two, those numbered 333* and 380*, still *sub judice*—expunged from the body of the list, and relegated to a separate position at the end, after the fashion set in the Phanerogamic *London Catalogue of British Plants*. This concluding list, under the heading of *Excluded Species*, consists, then, of such as were certainly alien, such as were probably erroneously recorded, and such as are ill-understood, rather names than species, too hastily bestowed or referred to plants gathered in Britain, all representing confusion of one kind or another in the past.—H. Boswell.

The List of Hepatics.—A numbered catalogue of the British Species having become necessary to the Record Club as a basis for the working out of their comital distribution, a choice had to be made of some existing arrangement, or one entirely original had to be framed. The latter alternative seemed undesirable, notwithstanding the fact that there is in English no sufficiently recent completed monograph of the class which could be followed, and that the arrangement of *Synopsis Hepaticarum* by Gottsche, Lindenberg, and Nees (Hamburgh, 1844) is somewhat antiquated, however

exhaustive and trustworthy that work, as a whole unsurpassed to this day, may be. A hope was at one time held out to the compiler of the present list that a new arrangement, which would have been the outcome of a deep and wide experience of exotic as well as of European forms, and reflective and expressive of views matured by an unrivalled knowledge of the works of others as well, might be furnished to the Record Club, for the benefit alike of its members and of science; but advancing age, ill health, and other work with paramount claims calling for completion, has stood in the way. The framing of an arrangement both as natural and as little antiquated as possible was no easy task, since no model could be servilely followed. Dr. Spruce (without subscribing to the principles involved in any particular one) had expressed the opinion that several good classifications of genera and species exist: that of *Synopsis Hepaticarum*, that of Dumortier in his *Hepaticæ Europæ*, that of Mitten at the end of Hooker's *Handbook of the New Zealand Flora*, and that of Lindberg, first outlined in 1874 in *Hepaticæ in Hibernia lectæ*, and perfected in *Musci Scandinavici* in 1879. This latest elaboration has in this catalogue been in the main followed, although in one or two instances generic names having indisputable priority in age have been replaced by others less ancient, but more happily descriptive or familiar to British Hepaticologists—e.g., *Scapania* has been retained in preference to *Martinellia*, *Gymnomitrium* instead of *Cesia*, etc. Two groups included in other genera by Dr. Lindberg have been here accorded generic rank—*Adelanthus*, for example; and *Metzgeria* and *Ancura* have been removed from the Anomogamous and Opisthogamous Lindbergian sections, in which in many respects they seemed out of place, and put next the Fossombronieæ, after Pellia, more in accordance with their natural affinities, as well as with older systems of grouping. Moreover, they ill-agreed with the somewhat unweildy characters of the sections in which Dr. Lindberg included them. Sub-generic partitioning has been carried out as far as possible amongst the large residuum of forms still left under *Jungermannia*, with the view of suggesting to the student intra-generic alliances which in a catalogue it is impossible to define. As many Neesian synonyms, for both genera and species, have been inserted as the allotted line allowed; and the dates of publication of each generic name have also been given, so that those who work by *Synopsis Hepaticarum*, or have access to Hooker's rare *British Jungermannie*, will have little difficulty in correlating them with this catalogue.

The Census of Distribution.—The idea of tracing each species through the counties, or giving the mere aggregate number of known comital-occurrences, as does the *London Catalogue of Plants*, has been abandoned until the Record Club Reports have furnished a basis list of the species of at least 70 out of the 112 counties and vice-counties into which H. C. Watson has divided Britain; but the timely co-operation of some of the leading students of the Bryophyta has, nevertheless, enabled a geographical census, albeit a somewhat less detailed one, to be taken. The result is the provincial outline of distribution furnished in the series of numerals, and the italic letters *I.* and *C.* (for Ireland and the Channel Islands Province respectively) which are seen to follow the italicised *pater* of each specific name. The sixteen numbers, 1 to 16, and the lettered numerals 17A, 17B, 18A, 18B, and 18C, stand for the twenty-one Watsonian Provinces, and shew in which of those provinces each species is known to grow. Where the occurrence of a species in any particular county is in any way doubtful, or is reported extinct, the number of such province is placed within the parenthesis bracket. The names of these provinces, with the numbers standing for them in the catalogue, and the counties included in each province, are as follows:—

1. *Peninsular* (Cornwall, Devon, Somerset); 2. *Channel* (Wilts, Dorset, Wight, Hants, Sussex); 3. *Thames* (Oxon, Bucks, Berks, Surrey, Middlesex, Herts, Essex, Kent); 4. *Ouse* (Northton, Beds, Hunts, Cambridge, Norfolk, Suffolk); 5. *Severn* (Monmouth, Gloster, Hereford, Worcester, Warwick, Salop, and Stafford); 6. *South Welsh* (Glamorgan, Carmarthen, Brecon, Radnor, Cardigan, and Pembroke); 7. *North Welsh* (Montgom., Merioneth, Anglesea, Carnarvon, Denbigh, Flint); 8. *Trent* (Lincoln, Leicester, Notts, Derby); 9. *Mersey* (Cheshire, Lancashire, *sine* Lake Lanc.); 10. *Humber* (Yorkshire solus); 11. *Tyne* (Durham, Northumberland); 12. *Lake* (Lake Lane., Isle of Man, Westmorland, Cumberland); 13. *West Lowland*

(Dumfries, Wigton, Kirkcudbright, Lanark, Ayr, Renfrew); 14. *East Lowland* (Berwick, Roxburgh, Selkirk, Peebles, Haddington, Edinburgh, Linlithgow); 15. *East Highland* (Perth, Stirling, Forfar, Kincardine, Aberdeen, Banff, Elgin, Easterness); 16. *West Highland* (Argyle, Arran, Islay, Mull, Skye, Westernness); 17A. *Upper North Highland* (Sutherland, Caithness); 17B. *Lower North Highland* (Ross-shire); 18A. *Hebridean* (Isles); 18B. *Orkney* (Isles); 18C. *Shetland* (Isles).

In this first attempt at an outline of the distribution of mosses and hepatics it is likely that omissions may have occurred, and possibly a few errors have crept in, which will be detected and corrected at a future time, but great care has been taken in examining specimens where doubts existed, in order to prevent the extension of false records, as far as lay in the Editors' power. The information from the various provinces is very unequal: from those of the Ouse (4), South Welsh (6), and Orkney (18B), especially, is it small.

Coadjutors in the Work.—Knowing that Union, even in a matter so apparently simple as a catalogue of the species of a country with a census of their range therein—if such work, when completed, was to occupy anything like the position of a reliable register, gives a strength not possibly attainable otherwise, the editor, in his capacity of general superintendent, has not hesitated to seek aid outside the ranks of the Record Club membership. Besides the Club's Referees—Mr. Henry Boswell, of Oxford, in the sphere of mosses, and Dr. Benj. Carrington, of Eccles, in that of hepatics—acknowledgment of indebtedness and sincere thanks on the Club's behalf must be given to several gentlemen (all with special knowledge of the points on which their help was sought) for material assistance freely rendered, especially with regard to the census of distribution. Foremost amongst these is the Rev. J. Fergusson, of Fern, who, apart from valuable facts as to new species, marked for the Club a catalogue showing the provincial distribution throughout Britain of all species so far as known to him, by doing which he unselfishly made available for the editors' use a large store of information amassed for a forthcoming work of his own, helping the Club in this respect to forestall an outline of distribution he plans publishing. Other helpers who have willingly given assistance to the best of their ability have been found in Messrs. J. E. Bagnall, W. Curnow, W. H. Pearson, John Ralls, Geo. Stabler, William West, and John Whitehead, and suggestions have kindly been made in the course of the work by Drs. Braithwaite, H. F. Parsons, and Spruce, and Messrs. E. M. Holmes, E. D. Marquand, and Matthew B. Slater. To have furnished the outline of distribution would have been impossible without the hearty co-operation of all concerned, given ungrudgingly in face of the fact that it would be impossible in the united result to discern the relative amount or value of each individual quota. Every contributor must be content with equal share of credit. The very various data of each contributor, all drawn from personal knowledge, have, in one way or another, supplemented those from the rest, and the aid rendered by any single one could have been but ill spared. The experiment has been a novel one, not carried out without difficulties, for contributors' "views" will prove difficult to reconcile sometimes; but the result, if it be at all successful, must be held to say something in favour of such *botanical partnership* as the Record Club alone amongst scientific associations affords the facility for. Although views as to what constitutes a species, or as to the claims of priority in nomenclature, may differ, "splitters," "resurrectionists," and the rest may yet unite their forces for a common end, and work amicably together.

Suggestions, corrections, or inquiries relating to the nomenclature or distribution of any of the species mentioned in the *Catalogue* may be addressed to either of the Referees or to the Editor—

F. ARNOLD LEES,

November, 1880.

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