

The *Stanley*
British Bryological Society

Census Catalogue
OF
British Sphagna

Compiled for the B.B.S.
by
W. R. SHERRIN, A.L.S.
Revised by A. THOMPSON, B.Sc.

Price - 1/2

1946
Martin's Printing Works, Ltd.
64 & 66 West Street
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PREFACE TO 1946 EDITION.

This Catalogue is the Census Catalogue of British Sphagna, compiled by W. R. Sherrin, A.L.S., of 1937, with the addition of new vice-county records made since that date. A few vice-county numbers have been removed from *S. obesum* and from one or two other species that Mr. Sherrin found had been wrongly included in the 1937 Catalogue, and a few additions put in that were left out by mistake.

A. THOMPSON.

PREFATORY NOTE.

Since the last edition of the Census Catalogue (1926) the following alterations have been made :—

Sphagnum strictum Sulliv. and *S. americanum* Warnst., were discovered in Perthshire by Mr. J. Lid. The former is a well marked species common in Europe and N. America ; the latter might well be termed a doubtful species, and I have followed Warnstorf's *Sphagnologia Universalis* (1911) in placing it as a variety of *S. molle* Sulliv.

S. riparoides Warnst., was admitted in error, and has been removed from the present edition.

S. serratum Aust., has been reduced to a variety of *S. cuspidatum* Ehrh.

S. hercynicum W. var. *Binsteadii* Wheldon is a form of *S. inundatum* W.

S. aquatile W., is only a form of *S. auriculatum* Schimp.

S. rufescens W., is not a British species, and has been removed from the present edition.

I have had the advantage of the valuable co-operation of Mr. A. Thompson in the preparation of these notes.

W. R. SHERRIN.

London,
September, 1937.

BRITISH BRYOLOGICAL SOCIETY.

Census Catalogue of British Sphagna.

This Catalogue supersedes all previous catalogues of British Sphagna issued by the Society.

Sphagnum Dill.

ACUTIFOLIA SCHLIEPH.

1. *S. fimbriatum* *Wils.* 1-3, 5, 8-14, 16-19, 21-23, 25-27, 30, 34-46, 48-50, 54, 55, 57-75, 77, 79, 81, 83, 85, 86, 90-92, 95-97, 99-102, 104, 106, 108-112. I. 20, 30, 33-35, 37-40.
 - a. *robustum* *Braithw.* 1, 2, 5, 9, 17, 36, 41, 48, 58, 59, 62-64, 99. I. 38.
 - b. *validius* *Card.* 2, 5, 9, 11, 12, 17, 22, 30, 35, 36, 48-50, 55, 57-60, 62-66, 69, 71, 75, 77, 95, 96, 104, 109, 111.
 - c. *intermedium* *Russ.* 2, 5, 9, 11, 17, 18, 22, 36, 40, 42, 48, 54, 55, 57-67, 69, 74, 85, 90, 91, 95, 111. I. 34.
 - d. *tenue* *Grav.* 2, 9, 22, 36, 38, 48, 54, 57-64, 68, 69, 109. I. 37, 38, 40.
 - e. *laxifolium* *Warnst.* 2, 8, 9, 17, 19, 36, 40, 54, 57, 59, 62-65, 67, 69.
 - f. *concinnum* *Berggr.* 66, 85.
 - g. *flavescens* *Warnst.* 27, 38, 41, 49, 54, 57, 67, 109.
2. *S. Girgensohnii* *Russ.* 5, 24, 39, 46-50, 57, 60, 62-69, 71-73, 75, 81, 83, 85-88, 90-92, 96-101, 104, 105, 108, 109, 111. I. 20, 34, 38, 39.
 - a. *robustum* *Warnst.* 5, 24, 62, 63, 65, 67, 69, 86-88, 90, 96, 98, 99, 105, 109, 111.
 - b. *microcephalum* *Warnst.* 5, 47, 62, 64, 65, 67-69, 73, 75, 86, 88, 90, 91, 97-99, 104, 105.
 - c. *gracilescens* *Grav.* 57, 65, 66, 69, 71, 88, 96, 97, 101, 105 (107 or 108).
 - d. *stachyodes* *Russ.* 48, 49, 57, 62, 65, 66, 88, 90, 96, 98, 105, 109.
3. *S. Russowii* *Warnst.* 42, 43, 45, 46, 48-50, 57, 60, 62, 65-67, 69-71, 77, 85, 88, 90, 92, 96, 109, 111. I. 34, 39.
 - a. *girgensohniodes* *Russ.* 46, 57, 60, 62, 65-67, 69, 71, 77, 88, 90, 92, 96, 109, 111.

4. *S. fuscum* Schp. 1, 46, 48, 49, 60, 65-71, 73, 74, 78, 79, 87, 88, 90-92, 94, 96, 98, 107. I. 2, 18, 32-34, 38-40.
5. *S. Warnstorffii* Russ. 3, 5, 9, 48-50, 57, 58, 60-62, 64-70, 79, 87, 88, 90-92, 97, 105, 109, 110. I. 28, 34.
6. *S. rubellum* Wils. 1-5, 8, 9, 11-14, 16, 17, 22, 24, 27, 30, 35, 36, 38-40, 42, 44-55, 57, 58, 60, 62-67, 69-75, 77, 79-83, 85, 86, 88-99, 102, 104-111. I. 1-3, 6-10, 12, 14, 16-18, 20, 21, 23, 26-31, 33-40.
7. *S. subtile* (Russ.) Warnst. 88, 92, 96, 99. I. 27.
8. *S. acutifolium* Ehrh. 1-6, 9-17, 19-28, 30, 32, 34, 36-41, 45, 47-88, 90-92, 94-110, 112. C., I. 1-9, 16-21, 25-40.
9. *S. quinquefarium* Lindb. 1-5, 9, 13-15, 17, 35, 37-39, 42-44, 46-50, 57, 60, 62-70, 72, 73, 79, 86-88, 90, 92-94, 96-100, 104, 105, 107-109. I. 1-3, 6, 7, 14, 16, 27-29, 33-36, 38, 39.
10. *S. plumulosum* Röhl 1-6, 8-19, 22, 24-27, 34-38, 40-51, 54-75, 77, 82, 86, 88-93, 95-100, 102, 104-112. I. 1-3, 6-9, 11-13, 15, 16, 18, 20, 25-40.
11. *S. tenerum* (Aust.) Warnst. 4, 5, 36, 63, 69, 81, 88, 96, 99.
12. *S. molle* Sull. 4, 9, 12, 14, 16, 17, 22, 32, 34, 44, 45, 48, 49, 57, 59, 62-64, 66, 68-70, 73, 75, 83, 86, 88, 91, 96-100, 104, 105, 108, 110, 112. I. 34, 35, 37-40.
 - a. *molluscoides* C. Müll. 4, 9, 16, 32, 48, 62, 66, 70, 73, 75, 97, 98.
 - b. *limbatum* Warnst. 17, 59, 62-64, 86, 88, 99, 100.

RIGIDA WARNST.

13. *S. compactum* D.C. 1-6, 8-14, 16, 17, 19, 21, 22, 24, 27, 34, 35, 37-50, 54-56, 58, 60-62, 64-73, 75-79, 81-88, 90-92, 94-99, 101-105, 108-112. I. 1-3, 6, 8, 14, 16-21, 27-39.
 - a. *squarrosum* Russ. 9-11, 14, 17, 19, 21, 27, 34, 62, 66, 73, 75, 90, 91. I. 6, 27, 31, 33, 35, 37.
 - b. *subsquarrosum* Warnst. 2, 3, 5, 9-12, 17, 22, 24, 35, 37-49, 54, 56, 60-62, 64, 66-70, 73, 75, 79, 85, 88, 90, 92, 96-98, 104, 105, 108-110. I. 1, 2, 6, 27, 31, 33, 35, 39.
 - c. *imbricatum* Warnst. 3, 8-11, 17, 22, 27, 34, 45, 48, 49, 54, 60-62, 65-71, 73, 75, 82, 84, 85, 90-92, 94-98, 101, 104, 105, 108-110. I. 2, 3, 6, 8, 16, 27, 29, 31, 33, 36-39.
14. *S. strictum* Sull. 49, 73, 88, 97, 98, 104, 105. I. 3.

SQUARROSA SCHLIEP.

15. *S. squarrosum* Pers. 1-3, 5, 8-10, 12-14, 16-20, 22, 23, 25-27, 30, 34-40, 43, 44, 46-50, 52, 54-73, 75-77, 79-81, 83, 85, 86, 88, 90-92, 94-99, 103, 105-110, 112. I. 2, 4, 5, 7, 8, 13, 16, 20-22, 27, 29, 31-34, 36-39.

- a. *spectabile* *Russ.* 1, 2, 5, 16, 17, 30, 38, 46-50, 57-71, 77, 79, 88, 90, 91, 96, 98, 105, 110. I. 7, 8, 27, 29, 33, 34, 36-39.
 - b. *subsquarrosum* *Russ.* 1, 8, 13, 14, 17-19, 22, 25, 34, 36, 43, 47-49, 54, 55, 58-60, 62-71, 90, 91, 95-97, 109, 110. I. 27, 29, 33, 34, 37, 39.
 - c. *imbricatum* *Schp.* 10, 13, 14, 30, 35, 38, 48, 54, 58, 59, 63, 71, 90, 92, 96. I. 8, 38.
16. **S. teres** *Ångstr.* 4, 5, 9, 11, 13, 14, 17, 27, 38, 40, 42, 46-50, 57-60, 62-71, 73, 75-78, 86-88, 90-92, 95, 96, 99, 100, 104, 109. I. 20, 34, 37-39.
- a. *imbricatum* *Warnst.* 4, 5, 11, 17, 27, 38, 48, 49, 65-71, 75, 88, 90, 91, 96, 99, 104, 109.
 - b. *subteres* *Lindb.* 9, 13, 14, 38, 40, 42, 48-50, 57, 59, 60, 62, 65-67, 69-71, 75, 88, 91, 96, 100, 104, 109. I. 37-39.
 - c. *squarrosulum* *Warnst.* 13, 14, 17, 40, 47, 48, 58-60, 62, 63, 66, 69, 88, 91, 109.

CUSPIDATA *SCHLIEPH.*

17. **S. Lindbergii** *Schp.* 106, 112.
18. **S. riparium** *Ångstr.* 24, 38, 58, 60, 61, 67, 90, 92. I. 6.
19. **S. obtusum** *Warnst.* 9, 59, 60, 62.
- a. *riparoides* *Warnst.* 59, 60.
 - b. *recurviforme* *Warnst.* 59, 60, 62.
 - c. *tenellum* *Warnst.* 59.
20. **S. amblyphyllum** *Russ.* 2-6, 8-12, 14-18, 22, 24, 27, 34-36, 39, 41-43, 46-50, 54, 57, 59-71, 73, 88, 90, 91, 93, 95-98, 100, 104, 105, 107-110. I. 1, 3, 27-29, 39, 40.
- a. *macrophyllum* *Warnst.* 2, 6, 22, 24, 34-36, 47-50, 57, 59-64, 69, 70, 90, 96-98, 104, 110. I. 27, 28.
 - b. *mesophyllum* *Warnst.* 2-5, 8-12, 14-18, 22, 24, 35, 41-43, 46-48, 50, 54, 57, 59-71, 73, 88, 90, 91, 93, 95-98, 104, 105, 107-109. I. 1, 3, 27-29, 40.
 - c. *parvifolium* *Warnst.* 17, 27, 35, 46, 57, 62-66, 69, 71, 96, 100, 107, 109. I. 39.
21. **S. balticum** *Russ.* 1, 22, 57, 63, 64, 73, 92, 107.
22. **S. Torreyanum** *Sulliv.* 40, 48, 59, 60, (105 ?).
23. **S. pulchrum** *Warnst.* 1-3, 5, 9, 11, 12, 14, 16, 17, 22, 24, 38-40, 43, 46-50, 54, 57-64, 66-71, 88, 90, 96-99, 104-106, 109. I. 2, 3, 29, 31, 34, 38.

24. **S. recurvum** *P. de Beauv.* 2, 4, 5, 8-12, 14-18, 21, 22, 24, 27, 35-39, 41-43, 45-51, 54, 55, 57-75, 78, 79, 83-86, 88, 90-93, 95-97, 99, 105, 107-110. I. 1, 2, 6, 7, 9, 27-29, 34-40.
- a. *robustum* *Breidl.* 2, 9, 11, 14, 16, 17, 22, 24, 35, 36, 41, 42, 46, 48, 50, 57-60, 62-70, 74, 86, 88, 90, 93, 96, 99, 105, 107, 109. I. 2, 9, 28, 39.
- b. *majus* *Ångstr.* 2, 5, 8-12, 14-18, 22, 24, 27, 35-39, 42, 43, 46-51, 54, 55, 57-75, 78, 79, 83-85, 88, 90-93, 95-97, 105, 108, 109. I. 1, 6, 27-29, 34, 36, 39, 40.
- c. *parvulum* *Warnst.* 5, 11, 16, 17, 24, 27, 35-38, 45, 46, 48, 50, 51, 57-60, 62-67, 69-71, 75, 88, 90, 97. I. 34.
25. **S. fallax** *Klinggr.* 2, 9, 11, 13, 15-18, 21, 24, 35, 37, 38, 41, 42, 47, 48, 54, 55, 57-59, 62-70, 77, 88, 90, 97-99, 104. I. 1, 29, 39.
- a. *laxifolium* *Warnst.* 38, 41, 47, 55, 59, 62-66, 69, 70, 97. I. 1.
- b. *plumosum* *Warnst.* 37, 38, 57, 62-64, 67, 90.
- c. *microphyllum* *Warnst.* 9, 16, 17, 35, 54, 57, 64, 65, 98, 99, 104.
- d. *Roellii* *Schlieph.* 24, 57-59, 62-64.
- e. *robustum* *Warnst.* 17, 57, 58, 63-65, 69, 70. I. 1, 29.
- f. *Schultzii* *Warnst.* 62-64. I. 1.
26. **S. cuspidatum** *Ehrh.* 1-6, 8, 9, 11-22, 24, 25, 27, 28, 30, 34-50, 54-86, 88-93, 95-112. I. 1-3, 6, 8, 11, 13, 14, 16-18, 20, 25-30, 32-40.
- a. *falcatum* *Russ.* 1-3, 9, 11, 13-18, 22, 35-45, 47-50, 57-74, 77, 78, 83, 88-93, 96-99, 104, 105, 107, 109-111. I. 1-3, 6, 8, 11, 13, 14, 16-18, 20, 25, 27-30, 32-40.
- b. *submersum* *Schp.* 2, 5, 11, 16, 17, 22, 25, 28, 35-38, 40-43, 46, 48, 49, 54, 57, 60-67, 69, 70, 75, 79, 83, 84, 88, 90, 92, 93, 95-97, 105, 106, 109, 110. I. 1, 8, 18, 27, 28, 33-39.
- c. *plumosum* *Bryol. germ.* 2-5, 8, 9, 11, 17, 35, 36, 38, 40, 41, 43, 48, 49, 59, 61-70, 74, 83, 88, 90, 92, 93, 96, 97, 100, 104, 105. I. 2, 14, 20, 26, 28, 29, 33, 37-40.
- d. *pumulosum* *Schp.* 5, 11, 14, 16, 17, 22, 24, 42, 44, 48, 49, 54, 60-69, 88, 90, 92, 96, 97, 104, 105, 108, 110. I. 27, 39, 40.
- e. *serratum* (*Aust.*) 5, 11, 13, 16-18, 22, 35, 36, 38, 41-43, 48, 58-66, 69, 107, 109. I. 34.
27. **S. molluscum** *Bruch* 1-3, 5, 6, 9, 11-19, 22, 24, 27, 28, 34, 35, 37, 40, 41, 44, 45, 48-50, 56-66, 69-81, 83, 85, 86, 88, 90-92, 94-98, 100-106, 108-112. I. 1-3, 6, 14, 16, 18, 20, 21, 26-30, 30-39.

SUBSECUNDA SCHLIEPH.

28. **S. Holtii** Warnst. 2, 17, 22, 58, 60, 62, 69. I. 2, 27.
29. **S. obesum** Wils. 1-3, 5, 8, 9, 11, 16-18, 22, 35-37, 48-50, 55, 57, 59, 60, 62-67, 69, 70, 73-75, 90, 97, 104, 109-111. I. 1, 3, 16, 20, 27-29, 37, 38.
- a. plumosum Warnst. 1, 3, 8, 11, 16, 17, 35, 49, 57, 59, 60, 63-66, 69, 70, 74, 90. I. 27.
- b. luxurians Warnst. 2, 17, 18, 35, 57, 62, 63, 69.
- c. insolitum Card. 2, 49, 50, 55, 57, 59, 63, 73, 75.
- d. teretiramosum Warnst. 22, 36, 48, 57. I. 1, 3, 27, 28.
- e. sanguineum Warnst. 2, 5, 35, 49, 60, 66, 69, 70, 90.
- f. brachycladum Warnst. 1, 2, 17, 48, 60, 64, 69, 70, 109, 110.
- g. canovirens Warnst. 1, 5, 8, 9, 37, 49, 57, 60, 62-67, 90. I. 3, 16, 27, 29, 37, 38.
- h. hemiisophyllum Warnst. 60, 63-65, 69, 70, 109. I. 1, 27.
- i. mastigocladum Warnst. 3, 17, 48, 62, 64, 69. I. 20.
30. **S. subsecudum** Nees 1-3, 9, 17, 22, 28, 34, 35, 42, 48-51, 54, 59-62, 64, 65, 67-71, 74, 86, 88, 90, 94, 96-99, 104, 105, 109-111. I. 2, 3, 29, 39.
- a. parvulum Grew. 1, 61, 68, 111.
- b. tenellum Warnst. 1-3, 22, 28, 48, 49, 59-62, 65, 69-71, 74, 94, 96, 109.
- c. intermedium Warnst. 1, 3, 9, 17, 22, 35, 42, 50, 54, 60-62, 64, 67, 69, 70, 86, 88, 90, 97-99, 104, 109, 110. I. 2, 29.
- d. lanceolatum Warnst. 22, 51, 60, 62, 105, 109. I. 39.
- e. robustum Warnst. 35, 62, 69, 90, 97. I. 3.
31. **S. inundatum** Russ. 1-5, 8, 9, 11, 12, 14, 16-22, 24, 27, 31, 33-37, 41-43, 45-52, 54, 55, 57-71, 73-77, 84, 85, 88, 90-93, 96-100, 104-106, 108-111. I. 1-3, 6, 27-29, 31, 33-35, 38-40.
- a. robustum (Warnst.) Sherrin 1, 5, 9, 11, 17, 42, 49, 50, 57, 61, 62, 64, 65, 67, 69, 70, 73, 77, 85, 88, 96, 97, 99, 110, 111. I. 2, 28, 33, 35.
- b. eurycladum (Warnst.) Sherrin 1-5, 9, 11, 17, 36, 42, 45, 47, 50, 64, 66, 67, 69, 70, 88, 90, 92, 96-99, 104, 105, 108. I. 1-3, 33, 34.
- c. densum (Warnst.) Sherrin 3, 11, 41, 47, 48, 62, 69, 70, 75, 88, 90, 97, 99, 104, 105, 110. I. 1-3, 34, 39.
- d. lancifolium Warnst. 1, 3, 5, 9, 11, 17-19, 22, 35, 36, 42, 47, 50, 54, 57, 59-71, 73, 74, 76, 85, 90, 92, 96, 97, 104-106, 109-111. I. 2, 29, 31, 33.
- e. diversifolium Warnst. 1, 3, 8, 9, 11, 12, 17, 21, 31, 36, 47, 48, 54, 57, 60-62, 67, 69-71, 90, 91, 97, 108, 109. I. 1, 2, 29, 38.

32. **S. auriculatum** *Schp.* 1-5, 8-22, 24, 33-38, 41-43, 45-50, 54, 55, 57-71, 73-75, 85-88, 90, 92, 97-100, 104, 105, 108-111. I. 1-3, 6, 16, 20, 27-29, 31, 33, 34, 38, 39.
- a. *tenellum* *Warnst.* 1-3, 11, 17, 35, 43, 49, 50, 62, 66, 69, 88, 92, 97, 104, 108, 109.
- b. *ovatum* *Warnst.* 1-5, 9, 14, 16-19, 22, 34-37, 41-43, 45-50, 58, 62, 64-67, 69-71, 73, 75, 86-88, 90, 97-100, 104, 105, 109, 110. I. 1-3, 6, 16, 20, 27-29, 33, 38.
- c. *laxifolium* *Warnst.* 1-3, 9-11, 13, 17, 41, 47, 48, 55, 57, 58, 61-65, 67, 69, 70, 74, 88, 90, 97, 98, 105. I. 33.
- d. *canovirescens* *Warnst.* 1-5, 9, 11-18, 20-22, 24, 34-38, 41, 42, 46-48, 54, 57-59, 64, 67, 85, 90, 99, 104, 109. I. 2.
- e. *fluitans* *Grav.* 3.
- f. *submersum* *Warnst.* 1, 9, 16, 22, 35, 47, 55, 58, 61-63, 65, 66, 69, 70, 73, 88, 90, 97, 98, 105. I. 2, 27.
- g. *plumosum* *Warnst.* 17, 22, 24, 35, 61, 69, 70.
- h. *racemosum* *Warnst.* 60, 63, 64, 69. I. 28, 31.
33. **S. crassicladum** *Warnst.* 1-5, 8-11, 14, 16, 17, 19, 21, 22, 24, 34-38, 41-43, 48-51, 55, 57, 59-71, 75, 83-86, 88, 90-92, 96-98, 100, 104, 105, 108-110. I. 1-3, 6, 17, 25, 27-30, 33, 35, 37, 38, 40.
- a. *magnifolium* *Warnst.* 2, 4, 9, 11, 14, 16, 17, 22, 24, 34-37, 48, 55, 57, 59-66, 69-71, 75, 83, 85, 88, 90-92, 97, 98, 104, 105, 108-110. I. 2, 17, 40.
- b. *diversifolium* *Warnst.* 5, 8, 9, 11, 35, 48, 49, 55, 57, 61-66, 68-70, 90, 96, 100, 105. I. 1, 3, 27, 33.
- c. *intermedium* *Warnst.* 3, 5, 16, 17, 41, 61, 64, 67, 97, 104.
34. **S. bavaricum** *Warnst.* 2, 17, 49, 54, 62, 64, 88, 105.
35. **S. Camusii** *Card.* 1, 3, 9, 11, 16-18, 22, 35, 54, 57, 61, 65, 69, 90, 92, 97, 109, 110. I. 1, 2, 27-29, 37.
36. **S. turgidulum** *Warnst.* 2, 3, 9, 11, 14, 17, 49, 60-62, 66, 67, 97, 104, 105.
37. **S. contortum** *Schultz* 1, 13, 14, 16, 40, 45, 47-49, 52, 58, 60-62, 65, 67, 69-71, 73, 86-88, 90, 92, 96-99, 104, 109. I. 2, 3, 6, 8, 12, 16, 20, 21, 27, 29-31, 34, 35, 38, 39.
38. **S. platyphyllum** (*Sull. and Lindb.*) *Warnst.* 49, 60, 69, 88, 96, 97, 110. I. 33.

CYMBIFOLIA *LINDB.*

39. **S. imbricatum** *Hornsch.* 40, 48, 62, 65, 66, 69, 70, 73, 77, 83, 86-88, 96, 98, 104-107, 109, 110. I. 16-18, 27, 39.
40. **S. hakkodense** *Warnst.* 1, 2, 22, 64, 69, 77.

41. **S. papillosum** *Lindb.* 1-14, 16, 17, 22, 24, 26, 27, 34-51, 53-55, 57-78, 82, 83, 85, 86, 88, 90-112. I. 1-3, 6, 14, 16-18, 20, 21, 23-40.
- a.* normale *Warnst.* 1-5, 8-12, 16, 17, 22, 35, 36, 40, 41, 43, 46-51, 54, 58-60, 62-71, 73-75, 82, 88, 90-99, 104-110. I. 1-3, 6, 16, 20, 24, 27-29, 33, 34, 38-40.
- b.* sublaeve *Limpr.* 1-3, 5, 9, 11, 17, 22, 27, 34-36, 40, 46-49, 54, 57-60, 62-71, 73, 77, 88, 90, 92, 93, 96, 97, 99, 105, 108, 109, 111. I. 1, 2, 27, 28, 38, 40.
- c.* laeve *Warnst.* 11, 22, 36, 49, 96.
42. **S. cymbifolium** *Ehrh.* 1-6, 8-19, 21-28, 30, 32, 34-41, 43, 45-52, 54-93, 95-112. I. 1-4, 6-21, 24-29, 31-35, 37-40.
43. **S. centrale** *C. Jens.* 11, 42, 60, 62, 70, 75, 88, 91, 99, 100, 105. I. 1, 16.
44. **S. magellanicum** *Brid.* 3, 9, 11, 14, 17, 22, 24, 27, 40, 48-50, 58, 60, 62, 64-70, 72-80, 83, 86, 88, 90, 92, 96, 97, 99, 102, 104, 105, 107, 109-111. I. 2, 3, 8-10, 16, 18, 25-30, 33, 35, 37-40.