

## Lewis David von Schweinitz's copy of the *Scleromyceci Sueciae*

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Study of the mycological herbarium of Lewis David von Schweinitz revealed 76 printed labels attributable to the first edition of Fries' *Scleromyceci Sueciae* and over 340 specimens annotated with the words "Fries" or "Suecia". Schweinitz's copy of this exsiccata is incomplete and most of it exists presently as specimens remounted by Ezra Michener. Although material from Fascicle 7 was not discovered, 33 of the 40 specimens attributable to Fascicle 9 are housed at the Academy of Natural Sciences of Philadelphia. An annotated checklist to Schweinitz's copy of the *Scleromyceci Sueciae* is provided.

Key Words: ascomycete classification, exsiccata, Fascicle 9, Fries, historical mycology.

The *Scleromyceci Sueciae*, edited by Elias Fries, is one of the most important mycological exsiccata produced during the 19<sup>th</sup> century (Holm & Nannfeldt, 1963). Many of the ascomycetes included in this exsiccata were described in Fries' *Systema Mycologicum* (1821–1832), a seminal contribution that served as the basis for the classification of fungi for over a hundred years following its publication. Fascicles 1–8 of the first edition of the *Scleromyceci Sueciae* were issued between 1819 and 1822 and consisted of 300 specimens mounted in small booklets with printed title pages and indices (Holm & Nannfeldt, 1963). Fascicle 9 lacked a dated title page but was probably published in 1825; the 40 specimens it contained were likely unmounted when distributed (Holm & Nannfeldt, 1963; Pfister, 1975).

The *Scleromyceci Sueciae* can be found in a number of herbaria (Pfister, 1985; Stafleu, 1976) but the best documented copies are housed at Harvard, Kew, Rome and Uppsala (Graniti & Zucconi, 1995; Holm & Nannfeldt, 1963; Pfister, 1975). The copy in the Curtis Herbarium at Farlow is of particular interest because Moses Curtis removed the specimens and labels from the original booklets and reglued these onto small sheets of paper (Pfister, 1975). Curtis' set of the first edition of the *Scleromyceci Sueciae* is incomplete but it can be separated from material belonging to the second edition of this

exsiccata since the latter includes specimens with handwritten labels (Holm & Nannfeldt, 1963; Pfister, 1975).

Identifying material from the first edition of the *Scleromyceci Sueciae* in the herbarium of Lewis David von Schweinitz at the Academy of Natural Sciences of Philadelphia (PH) is more problematic. Upon receiving Fascicles 1-6 and 8 from Fries in 1826 (Shear & Stevens, 1921), Schweinitz folded individual pages of the exsiccata inward to form a packet that enclosed both the specimen and the printed label (Untereiner, 2002). In one instance, he formed a packet from a page of the index from Decade XXXI of Fascicle 9 (Untereiner, 2002). Schweinitz wrote the names of species and one or more collection localities on the face of each packet (illustrated in Shear & Stevens, 1917a) and incorporated this material into his own herbarium. He often annotated the inner packet or emended the printed Friesian label (Untereiner 2002). The majority the packets at PH labelled in his hand contain specimens, and in a number of cases, separate collections (sometimes from up to three different host plants) are housed in a single packet (Untereiner, 2002). Schweinitz also incorporated material from *Deutschlands Schwämme in Getrockneten Exemplaren* into his collection of fungi (Untereiner, 2002).

The presence of a printed, numbered label within a packet corresponding to the checklist for the *Scleromyceci Sueciae* compiled by Holm & Nannfeldt (1963) provides the best evidence that the packet housed material from this exsiccata (Untereiner, 2002). Schweinitz's annotations on the face of these packets also indicate that they housed material from the *Scleromyceci Sueciae* since all of his packets containing printed Friesian labels are annotated "Suecia Fries", "Suec. Fries", "Suec. Fr." or "Fries Suecia". Although there is no evidence that Fries and Schweinitz corresponded after 1824 (Shear, 1949) the presence of 7 similarly annotated packets corresponding to names from Fascicle 9 (specimens 301-340) (Tab. 1) and the title page for Decade XXXI in PH demonstrates that Schweinitz acquired this fascicle at a later date. Fries had promised in 1824 to forward "the missing numbers" (Fascicles 7 and 9) of the *Scleromyceci Sueciae* to Schweinitz (Shear, 1949), but material from the former fascicle was not discovered at PH (Tab. 1).

Following his death in 1834, Schweinitz's herbarium moved to PH (Pennell, 1935; Shear & Stevens, 1917a) and between 1885 and 1857 his collection of fungi was remounted by Ezra Michener (Shear & Stevens, 1917c, 1917d). Michener removed representative specimens or portions thereof from Schweinitz's packets, glued these to small, generally unlined strips of paper, and attached each mounted specimen to a second, larger paper mount that was usually ruled (Untereiner, 2002). He typically distinguished between North Amer-

Table 1. Checklist of names from Fries' *Scleromyceti Sueciae* in the Schweinitz Herbarium at PH.

Number, species name and authority on printed label*	Numbers in Schweintz's <i>Synopsis fungorum</i>	Reference and species number in Fries' <i>Systema mycologium</i>	Schweinitz packet in PH annotated 'Fries' or 'Suecia'	<i>Scleromyceti Sueciae</i> label	Michener mount annotated 'Suecia' or 'Fries'
1. <i>Sphaeria repanda</i> Fr.	–	2: 346, 53	–	–	+
2. <i>Sphaeria virgultorum</i> Fr. §	–	2: 351, 64	+, e	+	+
3. <i>Sphaeria parallela</i> Fr.	–	2: 373, 112	–	–	+
4. <i>Sphaeria Ostruthii</i> Fr.	–	2: 526, 527	+, L = Sax.	–	+, L = Sax.
5. <i>Sphaeria Junci</i> Fr.	1449–304	2: 428, 243	+, L = Sax.	+	–
6. <i>Sphaeria detrusa</i> Fr.	–	2: 382, 134	–	–	+
7. <i>Sphaeria Pini</i> A. & S.	–	2: 397, 168	–	–	+
8. <i>Sphaeria ambiens</i> Pers.	1364–217	2: 403, 182	–	–	+
9. <i>Sphaeria quaternata</i> Pers.	1386–239	2: 409, 195	+, L = Sal.	+	–
10. <i>Sphaeria salicina</i> Pers.	1361–214	2: 401, 177	+, L = Sax.	+	+
11. <i>Sphaeria profusa</i> Fr.	1346–199	2: 392, 158	+, L = Sax.	+	+
12. <i>Sphaeria conspersa</i> Fr. §	1964–4	2: 175, 6	+, L = Beth., Sal.	–	+
13. <i>Sphaeria leptidea</i> Fr.	–	2: 522, 513	–	–	+
14. <i>Sphaeria pithya</i> Fr. §	1993–16	2: 184, 13	–	–	+ ?
15. <i>Sphaeria eutypa</i> Fr.	1626–481	2: 478, 385	–	–	+
16. <i>Sphaeria pupula</i> Fr.	1643–498	2: 484, 401	+	+	+
17. <i>Sphaeria hirta</i> Fr.	–	2: 483, 398	+	+	+
18. <i>Sphaeria sarmentorum</i> Fr.	1690–545	2: 498, 438	–	–	+
19. <i>Sphaeria epidermidis</i> Fr.	–	2: 499, 442	–	–	+
20. <i>Sphaeria macularis</i> Pers. var. §	1777–632	2: 524, 521	+, L = Beth., Sal.	–	+ 2 sp
21. <i>Sphaeria Hederae</i> Fr.	–	2: 521, 512	–	–	+
22. <i>Sphaeria Taxi</i> Fr.	1695–550	2: 500, 447	+, L = East.	+	–
23. <i>Sphaeria Buxi</i> DC. §	1697–552	2: 501, 448	+, L = East., Phil.	+	+, L = Pen.
24. <i>Sphaeria (Ceratostoma) chionea</i> Fr.	–	2: 446, 292	+, L = Sax.	+	+
25. <i>Sphaeria (Ceratostoma) pilifera</i> Fr.	1612–467	2: 472, 369	–	–	–
26. <i>Sphaeria (Ceratostoma) Gnomon</i> Tode	1761–616	2: 516, 494	–	–	+
27. <i>Sphaeronaema rufum</i> Fr.	–	2: 536, 2	+, e	+	+
28. <i>Sphaeronaema bullosum</i> Fr.	2007–30	2: 184, 12	–	–	+

29. <i>Hysterium melaleucum</i> Fr. §	–	2: 589, 32	+, L = Sax., e	+	+
30. <i>Hysterium pinastri</i> Schrad. §	2100–39	2: 587, 27	+, L = Sal., Sax.	+	–
31. <i>Sphaeria citrina</i> Pers.	1185–39	2: 337, 30	+, L = Sal.	–	–
32. <i>Sphaeria hypodermia</i> Fr.	–	2: 407, 189	–	–	+
33. <i>Sphaeria elongata</i> Fr. §	1437–289	2: 422, 230	+, L = Beth., Sax.	–	+
34. <i>Sphaeria Laburni</i> Pers.	–	2: 413, 204	–	–	+
35. <i>Sphaeria Berberidis</i> Pers.	1409–262	2: 415, 211	–	–	+, L = Sax.
36. <i>Sphaeria complanata</i> Tode	1713–568	2: 508, 468	–	–	–
37. <i>Sphaeria Resinae</i> Fr. ¶	–	2: 453, 312	–	–	–
38. <i>Sphaeria herbarum</i> Fr. var. $\gamma$ Pers.	1719–574	2: 511, 477	+, L = Beth., Sal., Sax.	+	+
39. <i>Sphaeronaema hynoideum</i> Fr. §	594–6	1: 416, 4	–	–	+
40. <i>Hysterium degenerans</i> Fr.	–	2: 585, 17	+, L = Sax.	+	+
41. <i>Sphaeria fragiformis</i> Pers. §	1169–23	2: 332, 19	+, L = Sal	–	–
42. <i>Sphaeria fusca</i> Pers. var. §	1170–24	2: 332, 20	–	–	+, L = Sax.
43. <i>Sphaeria cohaerens</i> Pers.	1172–26	2: 333, 22	+, L = Sax.	–	+, L = Sax.
44. <i>Sphaeria multififormis</i> Fr.	1173–27	2: 334, 23	+	–	+
45. <i>Sphaeria multiceps</i> Sow. §	–	2: 357, 76 $\beta$	+	+	+
46. <i>Sphaeria stigma</i> Hoffm.	1230–84	2: 350, 61	+	–	+
47. <i>Sphaeria serpens</i> Pers.	1196–50	2: 341, 40	–	–	+
48. <i>Sphaeria filicina</i> Fr.	1448–303	2: 427, 242	+, L = Beth., Sal., Sax.	–	–
49. <i>Sphaeria thelena</i> Fr.	1496–351	2: 441, 279	–	–	+ 2 sp
50. <i>Sphaeria canescens</i> Pers.	–	2: 448, 297	–	–	+
51. <i>Sphaeria Vaccinii</i> Fr. §	–	2: 418, 219	–	–	+
52. <i>Sphaeria herpotricha</i> Fr.	–	2: 504, 456	+	+	+
53. <i>Sphaeria Dematium</i> Pers. $\beta$ minor §	–	2: 505, 460	–	–	–
54. <i>Sphaeria ditricha</i> Fr. §	1840–8	2: 515, 491	–	–	+
55. <i>Phacidium (Triblidium) pinastri</i> Fr. §	2007–30	2: 184, 12	+, e	+	+
56. <i>Phacidium Rubi</i> Fr. §	–	2: 578, 19	–	–	+
57. <i>Sphaeria Grossulariae</i> Fr.	–	2: 521, 510	–	–	+
58. <i>Sphaeria punctiformis</i> Pers. §	1778–633	2: 525, 522	+, L = Beth., Sal.	+	+
59. <i>Sphaeria alnea</i> Fr.	–	2: 520, 509	+	+	+
60. <i>Hysterium mytilinum</i> Pers. §	–	2: 533, 1	+	+	+
61. <i>Hysterium pulicare</i> Pers. §	2062–1 $\alpha$	2: 580, 1 $\beta$	+	–	+ 2 sp
62. <i>Hysterium elongatum</i> Wahlenb.	2063–2	2: 581, 3	+, e	+	+

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63. <i>Actidium Hysterioides</i> Fr.	–	2: 596, 1	–	–	+
64. <i>Actinothyrium graminis</i> Kunze	2176–1	2: 597, 1	+, L = Sax.	+	+
65. <i>Leptostroma filicinum</i> Fr.	2180–2	2: 599, 5	–	–	+
66. <i>Xyloma</i> (?) <i>Spireae</i> Kunze §	–	2: 599, 6	–	–	+
67. <i>Xyloma</i> (?) <i>Pteridis</i> Fr. §	–	2: 555, 20	+, L = Sal., e	+	+
68. <i>Sclerotium Semen</i> β Fr.	–	2: 249, 5 β	–	–	–
69. <i>Sclerotium erysiphoides</i> Fr. ¶	–	3: 251, 9	–	–	–
70. <i>Myriococcum praecox</i> Fr. ¶	222–1	2: 304, 1	–	–	–
71. <i>Sphaeria disciformis</i> Hoffm.	1237–91	2: 353, 68	+, L = Sax., e	–	+, L = Sax.
72. <i>Sphaeria angulata</i> Schum.	–	2: 390, 155	–	–	+
73. <i>Sphaeria lanciformis</i> Fr.	1263–118	2: 362, 85	–	–	+
74. <i>Sphaeria verrucaeformis</i> Ehrh.	1242–96	2: 355, 72	–	–	–
75. <i>Sphaeria atropurpurea</i> Tode	1195–49	2: 340, 39	+	–	+
76. <i>Sphaeria nivea</i> Hoffm.	1338–191	2: 386, 143	+, L = Ang., Beth., Sal.	+	–
77. <i>Sphaeria Abietis</i> Fr.	–	2: 398, 169	–	–	+
78. <i>Sphaeria radula</i> Pers. §	1356–209	2: 399, 171	–	–	+
79. <i>Sphaeria diatrypa</i> Fr.	–	2: 388, 146	–	–	+
80. <i>Sphaeria Tiliae</i> Pers. §	1647–502	2: 485, 405	+, L = Sax.	–	+
81. <i>Sphaeria decedens</i> Pers.	–	2: 481, 392	–	–	+
82. <i>Sphaeria pruinosa</i> Fr.	1648–503	2: 486, 406	–	–	+
83. <i>Sphaeria rhodostoma</i> A. & S.	–	2: 483, 400	–	–	+
84. <i>Sphaeria ditopa</i> Fr.	1653–508	2: 481, 394	+	+	+
85. <i>Sphaeria duplex</i> var. <i>Nardi</i> Fr.	–	2: 520, 507 β	–	–	+
86. <i>Sphaeria punctiformis</i> Pers. §	1778–633	2: 525, 522	+	+	+
87. <i>Sphaeria geographica</i> Fr. §	–	2: 502, 451	–	–	+
88. <i>Lophium excipuliforme</i> Fr. §	–	2: 469, 360	–	–	+
89. <i>Lophium compressum</i> Pers. §	1602–457	2: 470, 363	–	–	+
90. <i>Hysterium lineare</i> Fr.	2069–8	2: 583, 10	+, L = Beth., Sal.	+	–
91. <i>Hysterium pulicare</i> β Kunze §	2062–1	2: 579, 1	–	–	–

92. <i>Hysterium pulicare</i> ; <i>lenticulare</i> Fr. §	2062-1 β	2: 580, 1 γ	+	-	+
93. <i>Hysterium elatinum</i> Pers. §	-	2: 584, 15	+	+	+
94. <i>Hysterium elatinum</i> var. Pers. §	2082-21	2: 584, 15 β	+, L = Sal., e	+	+
95. <i>Hysterium parallelum</i> Wahlenb. §	993-19	2: 197, 14	-	-	+
96. <i>Hysterium herbarum</i> Fr.	-	2: 593, 44	-	-	+
97. <i>Hysterium culmigenum</i> Fr.	-	2: 591, 39	+	+	+
98. <i>Phacidium quadratum</i> Schmidt §	-	2: 576, 15	+, L = Sax., e	+	+
99. <i>Phacidium (Triblidium) Caliciiforme</i> Rebert. §	1992-15	2: 183, 11	+, L = Sal.	+	+
100. <i>Dothidea Ribesia</i> Fr.	1870-5	2: 550, 5	-	-	+
101. <i>Excipula Rubi</i> Fr.	2118-2	2: 190, 26	-	-	+
102. <i>Sphaeronaema versiforme</i> A. & S. §	-	2: 174, 1	+, L = Sax., e	+	+
103. <i>Sphaeronaema colliculosum</i> Fr.	-	2: 540, 14	-	-	+
104. <i>Sphaeronaema hemisphaericum</i> A. & S.	2140-10	2: 539, 13	-	-	+
105. <i>Sphaeronaema truncatum</i> Fr.	-	2: 539, 11	-	-	+
106. <i>Sphaeronaema conicum</i> Tode §	-	2: 494, 430	-	-	+
107. <i>Naemospora crocea</i> Pers. var. ¶	-	3: 478, 1	-	-	-
108. <i>Naemospora incarnata</i> Kunze §	-	3: 479, 5	+, e	+	+
109. <i>Bostrychia rubescens</i> Fr. §	-	2: 542, 3	-	-	+
110. <i>Peziza Arenula</i> A. & S.	-	2: 148, 93	-	-	+
111. <i>Sphaeria spinosa</i> Pers.	1277-132	2: 368, 98	-	-	+
112a. <i>Sphaeria lata</i> Pers., in <i>Pyro malo</i> §	1280-135	2: 369, 100	-	-	+
112b. <i>Sphaeria lata</i> Pers., in <i>Acere</i> §	1282-137	2: 370, 102	-	-	+
113. <i>Sphaeria milliaria</i> Fr.	1283-138	2: 370, 103	-	-	+
114. <i>Sphaeria Sorbi</i> Schmidt	-	2: 380, 127	-	-	+
115. <i>Sphaeria strumella</i> Fr.	-	2: 365, 91	-	-	+
116. <i>Sphaeria rostrata</i> Tode, Pers.	-	2: 473, 370	+	+	+
117. <i>Sphaeria cuspidata</i> Fr.	-	2: 474, 373	-	-	+
118. <i>Sphaeria acuta</i> Hoffm.	1711-566	2: 507, 465	+	-	+
119. <i>Sphaeria incrustans, minor</i> Fr. ¶	1550-405	2: 456, 322	-	-	-
120. <i>Sphaeria pulvis pyrius</i> Pers. var.	1554-409	2: 458, 329	-	-	-
121. <i>Sphaeria pulveracea</i> Ehr.	1555-410	2: 459, 330	+, L = Beth., e	-	+
122. <i>Sphaeria botryosa</i> Fr.	-	2: 342, 44	-	-	+
123. <i>Sphaeria picastra</i> Fr.	1582-437	2: 463, 344	-	-	+
124. <i>Sphaeria hirsuta</i> Pers. §	1523-378	2: 450, 303	+, L = Sal.	+	+

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125. <i>Sphaeria moriformis</i> Tode §	1553-408	2: 458, 328	-	-	+
126. <i>Sphaeria sapinea</i> Fr.	-	2: 491, 418	-	-	+
127. <i>Sphaeria sanguinea</i> Auct. §	1541-396	2: 453, 313	+, L = Beth.	+	+
128. <i>Sphaeria obturata</i> Fr.	-	2: 495, 432	+	+	+
129. <i>Hysterium Sorbi</i> Wahlenb. §	-	2: 552, 12	+, L = Sax., e	+	+
130. <i>Hysterium quercinum</i> Pers. §	2011-34	2: 189, 24	-	-	+
131. <i>Peziza Ribesia</i> Pers. Obs. §	1978-1	2: 179, 1	+, L = Beth., Sal., Sax.	+	+
132. <i>Phacidium Andromedae</i> Fr.	-	2: 574, 8	-	-	+
133. <i>Rhytisma Andromedae</i> Fr.	2021-1	2: 567, 5	+, L = Lab., e	+	-
134. <i>Rhytisma salicinum</i> Fr. §	2028-8	2: 568, 12	-	-	- ?
135. <i>Rhytisma corrugatum</i> Fr.	2020-1	2: 565, 1	-	-	+
136. <i>Excipula strigosa</i> Fr. §	831-88	2: 103, 76	-	-	+
137. <i>Excipula Lecideola</i> Fr.	951-208	2: 151, 103	-	-	-
138. <i>Excipula Sphaeroides</i> Fr.	-	2: 191, 30	-	-	+
139. <i>Sclerotium populneum</i> Pers. §	2457-43	2: 262, 52	+, Lus., Sax.	-	+ ?
140. <i>Sclerotium salicinum</i> DC.	-	2: 263, 53	-	-	+
141. <i>Sphaeria concentrica</i> Bolt.	1168-22	2: 331, 18	+	-	-
142. <i>Sphaeria rubiginosa</i> Pers.	1193-47	2: 340, 37	-	-	+
143. <i>Sphaeria quercina</i> Pers.	1262-117	2: 362, 84	-	-	+
144. <i>Sphaeria Xylomoides</i> Fr. §	-	2: 554, 17	-	-	+
145. <i>Sphaeria stilbostoma</i> Fr. §	1366-219	2: 403, 182	-	-	+
146. <i>Sphaeria pulchella</i> Pers.	1380-233	2: 406, 186	-	-	-
147. <i>Sphaeria ciliatula</i> Fr.	1379-232	2: 406, 185	+, L = Sal.	+	+
148. <i>Sphaeria stricta</i> Pers. §	1614-469	2: 474, 372	+, L = Nis., Sal.	+	-
149. <i>Sphaeria ovina</i> Pers.	1514-369	2: 446, 293	+, L = Beth., Sal.	-	-
150. <i>Sphaeria scripicola</i> DC.	1724-579	2: 510, 476	+	+	+
151. <i>Sphaeria Artocreas</i> Tode	1772-627	2: 523, 516	+, L = Beth., Sal.	+	+
152. <i>Sphaeria impressa</i> Fr. §	-	2: 564, 52	+	+	+
153. <i>Sphaeria Arundinis</i> Fr.	1723-578	2: 510, 474	-	-	+, L = Sax.

154. <i>Cytispora chrysoesperma</i>	2144-1	2: 542, 4	+	L = Beth., Lus., Sal.	-	+
155. <i>Cytispora carphosperma</i> Fr.	2145-2	2: 543, 6	-		-	+
156. <i>Cytispora leucosperma</i>	-	2: 543, 7	+	L = Lus., e	+	+
157. <i>Cytispora melasperma</i> Fr.	2150-7	2: 545, 12	+	L = Sal.	+	-
158. <i>Cytispora microsperma</i> Fr. §	1692-547	2: 498, 440; 546, -	-		-	+
159. <i>Cytispora lanata</i> Fr. §	1641-496	2: 482, 397	-		-	+
160. <i>Sphaeronaema subtile</i> Fr. ¶	-	2: 539, 12	-		-	-
161. <i>Phacidium</i> (Tribl.) <i>seriatum</i> Fr. §	-	2: 185, 15	+		+	+
162. <i>Phacidium</i> (Tr.) <i>fibrosum</i> Fr. §	-	2: 113, 110 $\alpha$	-		-	+
163. <i>Phacidium Pini</i> ¶	-	2: 573, 5	-		-	-
164. <i>Phacidium commutatum</i> Fr §	1439-291	2: 424, 235	-		-	-
165. <i>Phacidium coronatum</i> Fr.	2057-11	2: 577, 16	+	L = Sax.	-	-
166. <i>Hysterium tumidum</i> Fr.	-	2: 591, 40	-		-	+
167. <i>Hysterium maculare</i> Fr.	-	2: 592, 42	-		-	+
168. <i>Hysterium Sphaeroides</i> A. & S.	-	2: 588, 28	-		-	+
169. <i>Hysterium Oxycoccus</i> Fr.	-	2: 588, 31	-		-	+
170. <i>Hysterium Scirpi</i> Funk §	-	2: 590, 37	+		-	+
171. <i>Cenangium conspersum</i> $\gamma$ §	1964-4	2: 175, 6	+	L = Beth., Sal.	-	+
172. <i>Excipula pithya</i> Fr. n. 14 §	1993-16	2: 184, 13	-		-	+ ?
173. <i>Peziza lacustris</i> Fr.	-	2: 143, 77	-		-	+
174. <i>Rhizoctonia muscorum</i> Fr.	-	2: 265, 3	-		-	+
175. <i>Leptostroma scirpinum</i> Fr.	-	2: 598, 2	-		-	+
176. <i>Leptostroma caricinum</i> Fr.	2179-1	2: 598, 3	+		+	+
177. <i>Ectostroma sedi</i> Fr.	-	2: 602, 1	-		-	+
178. <i>Exosporium Tiliae</i> Lk. §	1833-1	3: 361, 14	-		-	+
179. <i>Sclerococcum sphaerale</i> Fr.	-	3: 257, 1	-		-	+
180. <i>Caeoma Scirpi</i> Fr. ¶	-	-, -	-		-	-
181. <i>Sphaeria</i> ( <i>Cordyceps</i> ) <i>Hypoxyylon</i> L.	1157-11	2: 327, 11	+	L = Sax.	-	-
182. <i>Sphaeria</i> ( <i>Poronia</i> ) <i>truncata</i> Bolt. ¶	-	2: 330, 15	-		-	-
183. <i>Sphaeria coccinea</i> Pers. §	1402-255	2: 412, 202	+	L = Beth., Sal.	+	-
184. <i>Sphaeria decolorans</i> Pers. §	1400-253	2: 412, 201	+	L = Beth., Sal., Sax.	+	+
185. <i>Sphaeria microstoma</i> Pers.	1342-195	3: 388, 148	-		-	-
186. <i>Sphaeria Platanoides</i> Pers. §	1366-219	2: 404, 182 $\gamma$	-		-	+ ?
187. <i>Sphaeria tessella</i> Pers.	-	2: 393, 160 $\beta$	-		-	+

Number, species name and authority on printed label*	Numbers in Schweintz's <i>Synopsis fungorum</i>	Reference and species number in Fries' <i>Systema mycologium</i>	Schweinitz packet in PH annotated 'Fries' or 'Suecia'	<i>Scleromyceti Sueciae</i> label	Michener mount annotated 'Suecia' or 'Fries'
188. <i>Sphaeria salicella</i> Fr.	–	2: 377, 122	–	–	+
189. <i>Sphaeria xylostei</i> Pers. Obs.	–	2: 487, 408	–	–	+
190. <i>Sphaeria pinastri</i> DC.	–	2: 488, 413	–	–	+
191. <i>Sphaeria rubra</i> Fr. §	–	2: 553, 14	–	–	+
192. <i>Sphaeria Podagrariae</i> Roth. §	–	2: 556, 22	+	+	+
193. <i>Sphaeria Anethi</i> Pers.	1453–308	2: 429, 248	–	–	–
194. <i>Sphaeria picea</i> Pers.	1457–312	2: 431, 253	–	–	–
195. <i>Sphaeria striaeformis</i> Fr.	–	2: 428, 244	–	–	+
196. <i>Sphaeria polygramma</i> Fr.	–	2: 432, 256	+	+	+
197. <i>Sphaeria nebulosa</i> Pers.	1461–316	2: 430, 250	+, L = Beth., Sal., Sax.	–	–
198. <i>Sphaeria poliota</i> Fr.	1728–583	2: 512, 481; 3: 251, 12	–	–	–
199. <i>Sphaeria stipata</i> Fr.	1891–26	2: 558, 30	–	–	+
200. <i>Sphaeria melaena</i> Fr.	1456–311	2: 431, 252	+, L = Beth., Sal.	+	–
201. <i>Sphaeria Coryli</i> Batsch	–	2: 436, 266	+, L = Sax.	–	+, L = Sax.
202. <i>Sphaeria Dematium</i> Pers. §	1837–5	2: 505, 460	–	–	+
203. <i>Sphaeria trichella</i> Fr.	1839–7	2: 515, 490	–	–	–
204. <i>Sphaeria subradians</i> Fr.	1780–635	2: 525, 524	–	–	+
205. <i>Sphaeria pustula</i> Pers. §	2165–3	2: 547, 4	+	+	+
206. <i>Sphaeria speirea</i> Fr. §	2497–2	2: 261, 50	+, L = Beth.	+	–
207. <i>Rhytisma acerinum</i>	2030–10	2: 569, 14	+, L = Sal., Sax.	–	+
208. <i>Rhytisma salicinum</i> §	2028–8	2: 568, 12	+, L = Sax.	+	+
209. <i>Rhytisma Urticae</i> Fr.	–	2: 570, 17	+, L = Sax.	+	+
210. <i>Phacidium carbonaceum</i> Fr.	–	2: 574, 6	+, e	+	+
211. <i>Cytispora fugax</i> Fr.	2147–4	2: 544, 9	+, L = Beth., Sax.	+	+
212. <i>Cytispora globifera</i> Fr.	2153–10	2: 546, 17	–	–	+
213. <i>Coryneum pulvinatum</i> β §	–	–, –	–	–	–
214. <i>Stilbospora pyriformis</i> Hoffm. §	2957–1	3: 485, 6 b	+	+	–
215. <i>Stilbospora juglandis</i> §	–	3: 485, 6	+	+	–
216. <i>Hymenella Ebuli</i> Fr. §	1144–1	2: 234, 2	+, L = Sax.	+	+

217. <i>Tremella Urticae</i> Willd. §	–	2: 231, 7	+, L = Sax.	–	+
218. <i>Sclerotium durum</i> Pers.	2446–32	2: 259, 42	+, L = Sal., Sax.	+	–
219. <i>Xyloma artemisiae</i> Fr. ¶	–	2: 600, –	–	–	–
220. <i>Psilonia rosea</i> Fr. §	2568–2	3: 448, –	–	–	–
221. – 260. ¶					
261. <i>Sphaeria deusta</i> Hoffm.	1215–69	2: 345, 51	–	–	–
262. <i>Sphaeria faginea</i> Pers. §	1359–212	2: 400, 175	+, L = Sal.	+	–
263. <i>Sphaeria cucurbitula</i> Tode	1407–260	2: 415, 209	+, L = Beth., Sal.	+	–
264. <i>Sphaeria sanguinea</i> Bolt. §	1541–396	2: 453, 313	–	–	+ ?
265. <i>Sphaeria episphaeria</i> Tode	1543–398	2: 454, 315	+, L = Beth, Flor., Sal.	+	+
266. <i>Sphaeria bombardaria</i> Batsch	–	2: 456, 323	+, L = Lus.	+	+
267. <i>Sphaeria seriata</i> Pers. §	1545–400	2: 454, 317	–	–	–
268. <i>Sphaeria operculata</i> Fr. §	1627–482	2: 479, 386	+, L = Nis.	+	+
269. <i>Sphaeria fimeti</i> Pers.	1291–146	2: 373, 110	–	–	+
270. <i>Sphaeria sordaria</i> Fr.	–	2: 458, 327	+	+	+
271. <i>Lophium mytilinellum</i> Fr. ¶	–	2: 534, 2	–	–	–
272. <i>Chaetomium pusillum</i> Fr. ¶	–	3: 255, 5	–	–	–
273. <i>Sphaeronaema cylindricum</i> β Fr.	2135–5	2: 538, 7 β	–	–	–
274. <i>Sphaeronaema pyriforme</i>	2139–9	2: 539, 10	–	–	–
275. <i>Stictis pallida</i> Pers.	982–8	2: 196, 11	–	–	–
276. <i>Stictis versicolor</i> Fr.	998–24	2: 198, 17	–	–	+
277. <i>Stictis Phacidioides</i> Fr.	–	2: 198, 18	–	–	+
278. <i>Stictis atrovirens</i> Fr. §	–	2: 199, 19	–	–	+
279. <i>Agyrium caesium</i> Fr.	1139–1	2: 231, 1	+	+	–
280. <i>Agyrium rufum</i> Fr.	1140–2	2: 232, 3	–	–	+
281. <i>Sphaeria latitans</i> Fr. §	–	2: 552, 9	–	–	+
282. <i>Sphaeria graminis</i> Pers.	1476–331	2: 434, 261	+, L = Sax.	–	+
283. <i>Sphaeria saligna</i> §	–	2: 546, 1	+	+	+
284. <i>Sphaeria brunneola</i> Fr.	–	2: 526, 526	–	–	+
285. <i>Sphaeria Gnomon</i> Tode	1763–618	2: 517, 497	+, L = Beth., Sal., Sax.	–	–
286. <i>Sphaeria setacea</i> Pers.	1764–619	2: 518, 500	+, L = Beth., Sal., Sax.	–	+
287. <i>Sphaeria ? stemmatea</i> Fr.	1821–676	2: 528, 2	–	–	+
288. <i>Xyloma alneum</i> Pers. §	1944–80	2: 564, 51	+, L = Lus., Sax.	–	+
289. <i>Phacidium Vaccinii</i> Fr.	–	2: 575, 9	–	–	+

Number, species name and authority on printed label*	Numbers in Schweintz's <i>Synopsis fungorum</i>	Reference and species number in Fries' <i>Systema mycologium</i>	Schweinitz packet in PH annotated 'Fries' or 'Suecia'	<i>Scleromyceci Sueciae</i> label	Michener mount annotated 'Suecia' or 'Fries'
290. <i>Cytispora Vaccinii</i> Fr. §	–	2: 489, 414	–	–	+
291. <i>Peziza fascicularis</i> A. & S. ¶	–	2: 75, 82	–	–	–
292a. <i>Peziza fusca</i> §	860–117	2: 109, 99	–	–	+ 2 sp
292b. <i>Cenangium ferruginosum</i> Fr. §	2009–32	2: 187, 18	+, L = Sax.	–	+
293. <i>Cenangium acerinum</i> Fr. §	–	–, –	+, e	–	+
294. <i>Peziza farinacea</i> b. Syst. Myc.	–	–, –	–	–	–
295. <i>Ditiola radicata</i> Fr.	–	2: 170, 1	–	–	+
296. <i>Dacrymyces stillatus</i> Nees	1124–4	2: 230, 5	+	–	+
297. <i>Arthrimum caricinum</i> Kunze §	2612–1	3: 376, 1	+, L = Sax.	+	+
298. <i>Melanconium discolor</i> Kunze §	–	3: 488, 1	–	–	–
299. <i>Melanconium betulinum</i> Kunze §	2971–2	3: 486, 1	+, L = Sax.	–	–
300. <i>Aegerita persicina</i> Fr.	–	3: 259, 4	+	+	–
301. <i>Sphaeria ophioglossoides</i> Ehrh. §	1151–5	2: 324, 4	+, L = Sax., ?	–	+
302. <i>Sphaeria carpophila</i> Pers.	1161–15	2: 328, 12	–	–	+
303. <i>Sphaeria rufa</i> Pers.	1181–35	2: 335, 26	–	–	+
304. <i>Sphaeria gelatinosa</i> Tode	1182–36	2: 336, 27	–	–	+
305. <i>Sphaeria ferruginea</i> Pers.	1264–119	2: 363, 86	+, L = Nis.	–	+
306. <i>Sphaeria favacea</i> Fr.	1241–95	2: 354, 71	–	–	+
307. <i>Sphaeria spiculosa</i> Pers.	1279–134	2: 369, 99	+	–	+
308. <i>Sphaeria Dothidea</i> Fr. §	–	2: 423, 232	–	–	+
309. <i>Sphaeria scabra</i> β <i>Podoides</i> Fr.	1258–113	2: 360, 79 á	–	–	–
310. <i>Sphaeria Racodium</i> Pers.	1521–376	2: 449, 301	–	–	+
311. <i>Sphaeria protrusae</i> Fr. <i>affinis</i>	–	2: 491, –	–	–	+
312. <i>Sphaeria aurantia</i> Pers.	1493–348	2: 440, 276	+	–	+
313. <i>Sphaeria myriocarpa</i> Fr.	1558–413	2: 459, 332	–	–	+
314. <i>Sphaeria stricta</i> γ <i>obliqua</i> Fr. §	–	2: 474, 372 γ	+	–	+
315. <i>Sphaeria vibratilis</i> Fr.	1640–495	2: 482, 396	+	–	+
316. <i>Sphaeria livida</i> Fr.	1629–484	2: 479, 388	–	–	+
317. <i>Sphaeria pupula</i> β <i>philadelphii</i> Fr. §	–	–, –	–	–	+ 2 sp

318. <i>Sphaeria strobilina</i> Holl	1675– 530	2: 495, 431	–	–	–
319. <i>Sphaeria semitecta</i> Fr. ¶	–	2: 497, 437	–	–	–
320. <i>Sphaeria arbuticola</i> Fr.	–	2: 500, 446	–	–	+
321. <i>Sphaeria Doliolum</i> Pers.	1716–571	2: 509, 471	+, L = Sax.	–	+
322. <i>Sphaeria Pisi</i> Sow.	1722–577	2: 509, 472	–	–	+
323. <i>Sphaeria culmifraga</i> Fr.	1718–573	2: 510, 475	–	–	+
324. <i>Sphaeria uda</i> Pers.	1248–102	2: 358, 78 b	–	–	–
325. <i>Sphaeronaema subulatum</i> Fr.	2128–1	2: 536, 1	–	–	–
326. <i>Dothidea Vaccinii</i> Fr.	–	–, –	–	–	+
327. <i>Phacidium Ledi</i> A. & S.	–	2: 574, 7	–	–	+
328. <i>Dothidea Asteroma</i> Fr. §	1905–40	2: 560, 37	–	–	+
329. <i>Hysterium bifforme</i> Fr.	–	2: 582, 6	–	–	+
330. <i>Leptostroma juncinum</i> Fr.	–	2: 598, 4	–	–	+
331. <i>Peziza chrysocoma</i> Bull. §	923–180	2: 140, 67	–	–	+ 2 sp
332. <i>Peziza flammea</i> A. & S.	840–97	2: 96, 51	–	–	+
333. <i>Peziza barbata</i> Kunze	–	2: 99, 62	–	–	+
334. <i>Peziza Resinae</i> Fr.	–	2: 149, 95	–	–	+
335. <i>Stictis alba</i>	–	–, –	–	–	+
336. <i>Patellaria atrata</i> β Fr.	1956–1	2: 160, 4	–	–	+
337. <i>Naematelia encephala</i> Fr.	1118–1	2: 227, 1	–	–	–
338. <i>Sclerotium figuratum</i> Fr.	–	–, –	–	–	+
339. <i>Sclerotium areolatum</i> Fr.	–	2: 263, 54	–	–	+
340. <i>Aegerita candida</i> Hoffm.	3040–1	3: 220, 1	–	–	–

\* from Holm and Nannfeldt (1963); § = see commentary to the checklist; ¶ = material under this name not found in the Schweinitz Herbarium; + = present; – = absent; e = packet empty; L = locations on packet or mount in addition to 'Suecia' (Ang. = Nov. Angl., Beth. = Bethlehem, East. = Easton, Flor. = Florida, Lab. = Labrador, Lus. = Lusat, Nis. = Nisky or Nieskey, Pen. = Pennsylvania, Phil. = Philadelphia, Sal. = Salem, Sax. = Saxony); 2 sp = 2 specimens.

ican and European collections (i.e., Nieskey, Saxony and Sweden) by mounting the former on white paper and the latter on blue paper. Michener transcribed the species name and the collection locality provided on Schweinitz's packets beneath the remounted material and, in many cases, wrote the series numbers used in Schweinitz's *Synopsis Fungorum in America Boreali* (1832) in the upper left hand corner above each specimen (illustrated in Shear & Stevens, 1917a). Eight remounted specimens (Michener mounts) were attached with pins to a folio sized herbarium sheet (Shear & Stevens, 1917a, 1917c). The Michener mounts were later removed from the herbarium sheets and are now found, together with Schweinitz packets, in individually labelled housing packets.

Of the over 850 specimens and packets examined by Untereiner (2002), 76 contained printed Friesian labels (Tab. 1); 14 packets that contained labels lacked specimens, but the paper above each label usually bore the remnants of dried glue and plant material. A comparison of the Schweinitz packets and Michener mounts bearing the annotation "Fries" or "Suecia" (Tab. 1) illustrates that there are fewer of the former than would be expected. Michener noted that many of Schweinitz's 'envelopes' were missing and that these were often either empty or their contents ravaged by insects (Shear & Stevens, 1917d). Schweinitz's habit of distributing specimens (Petersen, 1979; Shear & Stevens, 1917b, 1917c) certainly accounts for a number of missing packets, but it is likely that many others were removed or emptied by the mycologists who plundered Schweinitz's collection before it was remounted by Michener (among them, Curtis in 1851 and Henry Ravenel in 1853) (Petersen, 1979; Shear & Stevens, 1917c; Smith, 1957).

Fries is thought to have prepared only a few copies of Fascicle 9 for the first edition of the *Scleromyceti Sueciae* (Holm & Nannfeldt, 1963). Although Schweinitz's copy of this exsiccata is incomplete and lacks many specimens and printed labels, the collection housed at PH is remarkable in that it contains 33 of the 40 specimens attributable to Fascicle 9 (Tab. 1). Given the importance of the *Scleromyceti Suecia* to fungal nomenclature and the historical significance of the Schweinitz herbarium, it is worthwhile documenting the composition of this exsiccata at PH. To this end, a checklist summarising the names from the first edition of the *Scleromyceti Suecia* found in the Schweinitz herbarium is provided. Names are cross referenced to the numbers for taxa provided in the *Systema Mycologicum* and *Synopsis Fungorum*. The presence of printed Friesian labels, Schweinitz packets or Michener mounts bearing the annotation "Fries" or "Suecia", and other collecting localities are also noted. A commentary to most noteworthy specimens is also provided.

## Commentary to the checklist

### Abbreviations

BPI = Beltsville, Maryland, USA.

DS = *Deutschlands Schwämme*

EF = *Elenchus fungorum* (Fries, 1828)

GZ = Graniti & Zucconi (1995)

HN = Holm & Nannfeldt (1963)

P = Pfister (1985)

RO = General Herbarium in Rome

SF = *Synopsis fungorum in America boreali media degentium* (Schweinitz, 1832)

SHerb = Schweinitz Herbarium

SM = *Systema mycologicum* (Fries, 1821–1832)

SS = *Scleromyceti Sueciae*

UPS = Uppsala, Sweden

IT = quotation marks used by Fries

/ = line break

“ ” = my quotation marks

[*italicized text*] = my comments

2. *Sphaeria virgultorum* Fr. The spelling of the name of this species on the outside of the packet (in Schweinitz's hand) and on the printed Friesian label inside the packet is “virgultorum” rather than “virgultorum”. GZ noted this spelling on the label of second edition material at RO.

12. *Sphaeria conspersa* Fr. Listed as *Tympanis conspersa* Fr. in SHerb and SF. A Friesian label is absent but Schweinitz has written “Tympanis conspersa / Fries Suecia” on the inner surface of the packet.

14. *Sphaeria pithya* Fr. There are three Michener mounts under the names *Excipula pithya* and *Phacidium pithyum* in SHerb. The first is labelled “Excipula pithya / Fries Sueciae” and may correspond to SS n. 14. The second, labelled “Phacidium pithyum Fr. Elenchus / Dothidea pythia Fr. / Fries Suecia” may correspond to SS n. 172. The third mount, which probably originates from DS, is labelled “Phacidium pithyum Kze. / (ined) ad ramul. Pini / Kunze”. The reader is referred to HN (p. 39) for a discussion of the confusion surrounding SS n. 14 and SS n. 172.

20. *Sphaeria macularis* Pers. var. As noted by HN (p. 39), “macularis” is an error for “maculiformis”. A Michener mount in SHerb labelled “Sphaeria maculaeformis Pers. / Fries Suecia” likely corresponds to SS n. 20 whereas a mount labelled “S. macularis Fr. / Fries Suecia” represents SS n. 87.

23. *Sphaeria Buxi* DC. Schweinitz has written “var. atrovirens” below the Friesian label. A Michener mount from BPI labelled “1697–552 Syn. Fung. / (et Suecia) / Sphaeria Buxi – Dec. / in Buxus / ex Herb. Schw.) Penns.” also likely represents Friesian material.

29. *Hysterium melaleucum* Fr. Schweinitz’s packet is empty, but the presence of a copious amount of dried glue on the inside of the packet as well as on the specimen affixed to the Michener mount suggests that the latter originated from the former. The Friesian label inside the packet has been cut and reads “29. Hysterium melaleucum. Fri”.

30. *Hysterium pinastri* Schrad. Schweinitz cited the incorrect species number from SM for *H. pinastri* (26 rather than 27), and Fries cited SS n. 50 instead of SS n. 30 for this species (SM 2: 587). The label inside the Schweinitz packet is cut and reads “pinastri. Schrad.”; although this text corresponds to the label for DS Nr. CXXXV (P, p. 18), it more closely resembles the other SS labels examined in this study.

33. *Sphaeria elongata* Fr. The Schweinitz packet is annotated “Sphaeria elongata Fr./ scabra Kz. / Suecia Fries / Sax. Kunze / Bethl.”.

39. *Sphaeronaema hydnoideum* Fr. Listed as *Radulum aterrimum* Fr. in SHerb and SF. There is also a Michener mount in SHerb labelled “Epic. 10 / Radulum aterrimum Fr. / Suecia” that may represent this number.

41. *Sphaeria fragiformis* Pers. None of the specimens examined suggests that Friesian material is present under this name in SHerb. However, included within a housing packet labelled “Sphaeria fusca Fr. / Bethlehem, 1828 / Syn. # 1170” there is a Schweinitz packet labelled in his hand as “Sphaeria / fragiformis / Salem / et Suecia”.

42. *Sphaeria fusca* Pers. var. See number 41.

45. *Sphaeria multiceps* Sow. The outside of the packet is annotated “Sphaeria multiceps / an var. flavovirensis / Suec. Fr.” in Schweinitz’s hand. The SS label on the inside of the packet reads “45. S. multiceps. Sow. – Sph. latae / proxima haec cum fla- / vovirente juncta species”. Fries (SM 2: 357) described this taxon as  $\beta$ . *Sphaeria multiceps* under species number 76. *Sphaeria flavovirens*.

51. *Sphaeria Vaccinii* Fr. The labels on the housing packet and Michener mount read “Sphaeria Vaccinii Sowerb. / Fries Suecia”.

53. *Sphaeria Dematium* Pers.  $\beta$  minor. This name was not found in SHerb. See number 202.

54. *Sphaeria ditricha* Fr. This name is not found in SHerb but there is a Michener mount labelled “Vermicularia ditricham / ad foliis / Fr. Suecia”. The specimen, a leaf of *Betula* sp., corresponds to the sub-

strate given by Fries (SM 2: 515) for SS n. 54. Schweinitz combined *S. ditricha* in *Vermicularia* (SF: 228) but cited F. Sph. 49 instead of number 491 for this species.

55. *Phacidium (Triblidium) pinastri* Fr. Listed under the name *Cenangium Pinastri* Fr. in SHerb and SF.

56. *Phacidium Rubi* Fr. The label on the housing packet lists this species as “*Sphaeria rubi* Fr. / in Rubo Ideo / Fries Suecia”. The Michener mount is annotated “*Phacidium Rubi* Fr. / in Rubo Ideo / Fries Suecia” which agrees with the substrate described by Fries (SM 2: 578).

58. *Sphaeria punctiformis* Pers. There are two sets of specimens in the housing packet under this name and SF number in SHerb. The first set includes a Schweinitz packet containing a printed Friesian label and a Michener mount that corresponds to *Sphaeria punctiformis* Pers. (SS n. 58). The second set includes a Schweinitz packet with a printed Friesian label and a Michener mount for *Sphaeria punctiformis* Pers. (SS n. 86).

60. *Hysterium mytilinum* Pers. Listed as *Lophium mytilinum* Fr. in SHerb. Schweinitz has crossed out “*Hysterium*” on the printed Friesian label inside the packet and written “*Lophium*” beneath it.

61. *Hysterium pulicare* Pers. There are two Michener mounts of note under this name. The first is annotated “*Hysterium pulicare* Pers. / ad cortices / Fries Suecia”, which corresponds to the substrate provided by Fries for *Hysterium pulicare*  $\beta$ . *H. angustatum* SS n. 61 (SM 2: 580). The second mount is labelled “*Hysterium pulicare* Pers. / ( $\beta$  betulina nobis) / in cortice / Kunze Saxony” and probably corresponds to DS Nr. CLVIII. Also present is a Schweinitz packet labelled “*Hysterium pulicare* / Suec. Fr.” with the following annotation on the inner surface; “*Hysterium pulicare* /  $\alpha + \gamma$  / Suecia”. It is difficult to interpret this annotation since Fries and Schweinitz designated the same varieties using different the Greek letters. Interestingly, the Schweinitz packet is contained in a housing packet labelled “*Hysterium pulicare* Fr. / Salem & Bethlehem / Suec. Fr. / var. lenticulare / var. angustatum / Syn. # 2062”. This suggests that the Schweinitz packet includes material from both SS n. 61 and SS n. 92. See the discussion by HN (p. 40) concerning the confused editorial history of this number.

66. *Xyloma (?) Spireae* Kunze. Listed as *Leptostroma spireae* Kunze in SHerb.

67. *Xyloma (?) Pteridis* Fr. This species is listed as *Dothidea pteridis* Fr. in SHerb and is represented by two Schweinitz packets that contain material from DS and SS. The Schweinitz packet with the printed DS label is annotated “*Dothidea pteridis* / Suec. Fr. / Kunze

Sax.”; Schweinitz has written “Dothidea Fr.” below the label. An empty Schweinitz packet annotated “Dothidea alnea / Salem” contains the printed Friesian label for SS n. 67 beneath which Schweinitz has written “Dothidea Pteridis”. A Michener mount corresponding to the latter is annotated “Dothidea Pteridis Fr. / in Pteridis / Fries Suecia”.

78. *Sphaeria radula* Pers. As discussed by HN (p. 40), the printed label for SS n. 78 suggests that Fries considered *S. radula* and *S. leiphaemia* to be synonyms. Fries treated the two taxa as different species in SM (2: 392, 399) and Schweinitz also maintained *S. radula* and *S. leiphaemia* as distinct (SF: 201, 202). Specimens listed as *S. radula* in SHerb are contained in a housing packet that bears SF number 1369, but Schweinitz did not note Friesian material for this species either in his annotation or in SF. Specimens under the name *S. leiphaemia* in SHerb bear SF number 1356. A Schweinitz packet with a printed Friesian label for SS n. 78 was not located, but a Michener mount labelled “1356-209 Syn. Fung. / Sphaeria leiphaemia Fr. / Fries Suecia” likely corresponds to this number.

80. *Sphaeria Tiliae* Pers. Schweinitz’s packet is annotated “Sphaeria Tiliae / Suec. Fr. / Sax. Kz. opt.” and contains the printed label from DS Nr. LX.

86. *Sphaeria punctiformis* Pers. See number 58.

87. *Sphaeria geographica* Fr. Fries (SM 2: 502) cited *Sphaeria geographica* Fr. SS n. 87 as a synonym of *Sphaeria macularis*. The housing packet for *Sphaeria macularis* in SHerb lacks a SF number and contains a Michener mount annotated “*Sphaeria macularis* Fr. / Fries Suecia” that likely represents SS n. 87. See number 20.

88. *Lophium excipuliforme* Fr. Listed as *Sphaeria excipuliformis* Fr. in SHerb.

89. *Lophium compressum* Pers. Listed as *Sphaeria compressa* Pers. in SHerb.

91. *Hysterium pulicare*  $\beta$  Kunze. See number 61.

92. *Hysterium pulicare*  $\gamma$  *lenticulare* Fr. The Michener mount is labelled “Hysterium pulicare Pers. /  $\beta$  lenticulare/ in cortices / Fries Suecia”. Material under this name may also be present in a Schweinitz packet labelled “Hysterium pulicare / Suec. Fr.”. See number 61.

93. *Hysterium elatinum* Pers. The printed Friesian label inside the Schweinitz packet is cut badly and reads “93. H. elatinum.”. The Michener mount is labelled “Hysterium elatinum Ach. / ad corticum Abietinum / Fries Suecia” which corresponds precisely to the substrate data provided by Fries for this species (SM 2: 584).

94. *Hysterium elatinum* var. Pers. The housing packet label reads “Hysterium elatine / var. crispum Pers. / ad ramos Abietinos / Fries

Suecia". Both the Michener mount and the Schweinitz packet refer to this species as "Hysterium elatinum  $\beta$  crispum".

95. *Hysterium parallelum* Wahlenb. Listed as *Stictis parallela* Fr. in SHerb.

98. *Phacidium quadratum* Schmidt. Material for this species was found in a housing packet labelled "Phacidium leptideum Fr. / in caul. exsic. vaccin. myrtilli. / Fries Suecia". The Schweinitz packet and Michener mount are also labelled *P. leptideum* Fr., but the former includes the printed Friesian label for SS n. 98. This label is incomplete and reads "98. Phacidium quadratum Sch."; Schweinitz has written "leptideum" beneath "quadratum".

99. *Phacidium (Triblidium) Caliciiforme* Rebert. Listed as *Cenangium caliciiforme* Fr. in SHerb and SF. Above the printed Friesian label Schweinitz has written "Cenangium T. caliciform." and below it he has written "Suecia & Salem".

102. *Sphaeronaema versiforme* A. & S. Listed as *Tympanis frangulae* Fr. in SHerb. Schweinitz has written "Tympanis Rhamni" below the label and crossed out "Rhamni" in favour of "frangulae".

106. *Sphaeronaema conicum* Tode. The Michener mount under this name is labelled "Sphaeria cotoneastri Fr. / Fries Suecia". See HN (p. 41) for a discussion of this material.

108. *Naemospora incarnata* Kunze. Listed as *Cytispora incarnata* Kunze in SHerb.

109. *Bostrychia rubescens* Fr. Listed as *Cytispora rubescens* Fr. in SHerb.

112a. *Sphaeria lata* Pers., in *Pyro malo*. The Michener mount is labelled "Sphaeria lata Pers. /  $\beta$  glebulosa Pers. / Fries Suecia" and the Schweinitz packet contains a printed DS label below which Schweinitz has written "Suecia Fries & Kunze / Sax."

112b. *Sphaeria lata* Pers., in *Acere*. Listed as *Sphaeria lejoplaca* Fr. in SHerb.

124. *Sphaeria hirsuta* Pers. The label inside this packet is incomplete and reads "124. S. hirsuta. Pers. <sup>IT</sup> (qu)".

125. *Sphaeria moriformis* Tode. This species is listed as *S. moriformis* F. 327 in SF but the correct species number in SM is 328.

127. *Sphaeria sanguinea* Auct. The Schweinitz packet is labelled "Sphaeria sanguinea /  $\beta$  media / Suec. Fr. / Bethl." and Schweinitz has written " $\beta$  media etiam Bethl." above the Friesian label.

129. *Hysterium Sorbi* Wahlenb. Listed as *Dothidea pyrenophora* in SHerb. The Schweinitz packet is labelled "Dothidea pyrenophora / (Hyst. Sorbi) / Suec. Fr. Sax. Kz.". Schweinitz has written "Dothidea pyrenophora" above the label inside this packet.

130. *Hysterium quercinum* Pers. Listed as *Cenangium quercinum* Fr. in SHerb and SF. The housing packet bears SF number 2011 and contains a Schweinitz packet annotated “Cenangium quercinum / Suec. Fr. / Sax Kz / Salem & Bethl.”. This packet contains the printed Friesian label for SS n. 131 (*Peziza Ribesia* Pers.) below which Schweinitz has written “Cenangium Ribis”.

131. *Peziza Ribesia* Pers. Obs. Listed as *Cenangium ribis* Fr. in SHerb and SF. The printed Friesian label for this number is located in a Schweinitz packet annotated “Cenangium quercinum”. See number 130.

134. *Rhytisma salicinum* Fr. Fries identified two collections, SS n. 134 and SS n. 208, as *Rhytisma salicinum* (SM 2: 568). The label for the former SS number was not discovered in SHerb and it is unclear if the Michener mount corresponds to n. 134 or to n. 208. See number 208.

136. *Excipula strigosa* Fr. Listed as *Peziza strigosa* Fr. in SHerb and SF.

139. *Sclerotium populneum* Pers. The spelling of the species name on the Schweinitz packet and on the Michener mount is “populinum”, which corresponds to the Fries’ misspelling (SM 2: 262) of the original “populneum”. The Schweinitz packet contains a printed DS label that reads “Nr. CVIII. Sclerotium populneum P.”.

144. *Sphaeria Xylomoides* Fr. Listed as *Dothidea betulina* Fr. in SHerb.

145. *Sphaeria stilbostoma* Fr. There are two Michener mounts bearing the same SF number (1366) in SHerb. The first, labelled “Sphaeria stilbostoma Fr. / Fries Suecia”, corresponds to SS n. 145. The second mount, labelled “Sphaeria stilbostoma Fr. /  $\gamma$  - conferta Fr. / Fries Suecia”, likely represents SS n. 186, for which Fries cited the synonym *Sphaeria platanoides* Pers (SM 2: 404).

148. *Sphaeria stricta* Pers. The housing packet is labelled “Sphaeria stricta Fr. A. & S. / Salem / Suec. Fr. / var obliqua / Suec. Fr. / Syn. # 1614” and it includes a number of separate specimens. A Schweinitz packet containing the printed Friesian label for SS n. 148 is annotated “Sphaeria stricta / Suec. Fr. / Nisky A. & S. / Salem”. Two additional packets bearing the annotation “ $\beta$  obliqua” likely correspond to the variety listed by Fries as *Sphaeria stricta*  $\gamma$  *obliqua* (SM 2: 474) for which he cited SS n. 314. This material is treated under number 314.

152. *Sphaeria impressa* Fr. Listed as *Dothidea impressa* Fr. in SHerb.

158. *Cytispora microsperma* Fr. As *Sphaeria saepinicola* Fr. in SHerb and SF. Schweinitz (SF: 220) listed F. 440 for this species, referring to 440. *Sphaeria saepinicola* (SM 2: 498), a species that Fries suggested

was connected to *Cytispora microsprema* (SM 2: 546). The Michener mount labelled “*Sphaeria saepinicola* Fr. / Fries Suecia” likely represents SS n. 158.

159. *Cytispora lanata* Fr. Listed as *Sphaeria lanata* Fr. in SHerb and SF.

161. *Phacidium* (Tribl.) *seriatum* Fr. As *Cenangium seriatum* Fr. in SHerb. The Schweinitz packet is annotated “*Cenangium* (Triblid.) *seriatum* / Suec. Fr.”. Schweinitz has crossed out the word “*Phacidium*” on the printed Friesian label inside this packet and written “*Cenangium*” beneath it.

162. *Phacidium* (Tr.) *fibrosum* Fr. Listed as *Peziza pinicola* Fr. in SHerb. The housing packet is labelled “*Peziza pinicola* Fr. [type face] / (“*Phacidium fibros.*“) [in ink] / Fr. Suecia [in ink]” in reference to Fries (SM 2: 113). Michener’s label reads “*Peziza pinicola* Fr. / Suecia”.

164. *Phacidium commutatum* Fr. Listed as *Sphaeria mutila* in SHerb and SF.

170. *Hysterium Scirpi* Funk. Listed as *Hysterium scirpinum* Fr. in SHerb.

171. *Cenangium conspersum*  $\gamma$ . Listed as *Tympanis conspersa* Fr. in SHerb and SF. A printed Friesian label is absent but Schweinitz has annotated the inside of this packet “*Tympanis conspersa* / Fries Suecia”.

172. *Excipula pithya* Fr. n. 14. The housing packet containing the Michener mount that probably corresponds to this number (“*Phacidium pithyum* Fr. Elenchus / *Dothidea pythia* Fr. / Fries Suecia”) is labelled “*Dothidea pythia* Fr. / *Phacidium pithium* Fr. Elenchus / Fries Suecia”. See number 14.

178. *Exosporium Tiliae* Lk. Listed as *Vermicularia tiliae* in SHerb and SF.

183. *Sphaeria coccinea* Pers. The Schweinitz packet is annotated “*Sphaeria coccinea* / Suec. Fr. / Salem Bethl. / cum var. *parasitica*”. Schweinitz has written “& var. *parasitica* / Beth. Sal.” below the printed Friesian label.

184. *Sphaeria decolorans* Pers. Listed as *Sphaeria cinnabarina* Fr. in SHerb and SF. The Schweinitz packet is annotated “*Sphaeria cinnabarina* / Fr. / Suec. Fr. / Sax. Kunze / Sal. & Bethl.” and Schweinitz has written “*cinnabarina* Fr. / et ex. Am.” beneath the Friesian label inside this packet.

186. *Sphaeria Platanooides* Pers. See number 145.

191. *Sphaeria rubra* Fr. Listed as *Dothidea rubra* Pers. in SHerb.

192. *Sphaeria Podagrariae* Roth. Listed as *Dothidea podagrariae* Roth. in SHerb. The Schweinitz packet contains a printed Friesian label below which Schweinitz has written “*Dothidea podagrariae*”. The leaf affixed to the Michener mount is missing the exact piece present in the Schweinitz packet.

202. *Sphaeria Dematium* Pers. The Michener mount is labelled “*Vermicularia dematium / in caulibus / Fries Suecia*” but bears no SF number. Schweinitz listed this species under SF number 1837 (SF: 228). Fries (SM 2: 505) applied the basionym of this name to SS n. 202 and referred SS n. 53 to *Sphaeria dematium* Pers. b. *minor*.

205. *Sphaeria pustula* Pers. Listed as *Phoma pustula* Fr. in SHerb and SF. The spelling of the name of this species on the printed Friesian label is “*pustulla*”. GZ (p. 88) reported this spelling on a hand-written label for second edition material at RO.

206. *Sphaeria speirea* Fr. Listed as *Perisporium speireum* Fr. in SHerb and SF. The Schweinitz label reads “*Perisporium / Sclerotium / speireum / Suec. Fr. in Europa / Beth. in fol. [text indecipherable]*”. Schweinitz has written “*clerotium*” behind the “S.” of the printed Friesian label.

208. *Rhytisma salicinum*. The Schweinitz packet is annotated “*Rhytisma salicinum / Kunze Sax. / Fries Suec. / Herrnh.*” and contains a printed Friesian label that reads “208. Rh. Salicinum. Xyl. Pers.”. See number 134.

213. *Coryneum pulvinatum*  $\beta$ . The single Michener mount under this name is labelled “*Coryneum pulvinatum / Saxony*”. Two other Michener mounts with names listed by Fries (SM 3: 474) are also present in SHerb: 1) “3086 1 Syn. Fung. / *Coryneum depressum / Sax. Dresd.*”, which may correspond to \* *C. depressum*., and 2) “*Coryneum umbonatum* Nees / “*Kunze Saxony*”, which probably corresponds to \* *C. umbonatum*.

214. *Stilbospora pyriformis* Hoffm. Listed as *Melanconium pyriforme* in SHerb. The Schweinitz packet is annotated “*Melanconium pyriforme / (Stilbost.) / Suec. Fries / an*”. The printed Friesian label inside this packet is incomplete and reads “*lbospora pyriformis. Hoffm.*”. Schweinitz has written “*Melanconium pyriforme / Fries*” beneath it.

215. *Stilbospora juglandis*. Listed as *Melanconium juglandis* in SHerb.

216. *Hymenella Ebuli* Fr. Listed as *Hymenella vulgaris* Fr. in SHerb and SF. The Schweinitz packet is annotated “*Hymenella vulgare [sic] / Suec. Fr. & Kze.*” and Schweinitz has written “*vulgaris in Myc.*” below the printed Friesian label.

217. *Tremella Urticae* Willd. Listed as *Dacrymyces urticae* Fr. in SHerb.

220. *Psilonia rosea* Fr. Listed as *Fusisporium roseum* Lk. in SHerb.

262. *Sphaeria faginea* Pers. Listed as *Sphaeria turgida* Fr. in SHerb.

264. *Sphaeria sanguinea* Bolt. A Michener mount labelled “*Sphaeria sanguinea* Sibth. / Fries Suecia” probably corresponds to this number.

267. *Sphaeria seriata* Pers. Although there is no indication that the specimen found in the Schweinitz packet is Friesian, the packet has been manufactured from a greenish coloured sheet of paper representing the index for Decade XXXI of Fascicle 9. The text on the inside of this packet reads:

“Scleromyceti Sueciae”

“EXSICCATI”

“Dec. XXXI”

“301. *Sphaeria ophioglossoides*. Ehrh.”

“302. *S. carpophila*. Pers.”

“303. *S. rufa*. P.”

“304. *S. gelatina*. Tod.”

“305. *S. ferruginea*. Pers.”

“308. *S. favacea*. Fries.”

“307. *S. spiculosa*. Pers.”

“308. *S. Dothidea*. Fr. (Doth. Fraxini. Moug. in litt.) <sup>IT</sup> In Rosa canina. <sup>IT</sup>”

“309. *S. scabra*.  $\beta$ . *Podoides*. Fries.”

“310. *S. Racodium*. P.”

The names of species for SS n. 303, SS n. 304, SS n. 305, SS n. 306, SS n. 309, and SS n. 310 have been underlined in pencil, and “XII/+” has been scribbled in pencil on the left side of the page next to SS n. 308.

268. *Sphaeria operculata* Fr. The Michener mount is labelled “*Sphaeria operculata* A. S. / Fries A. S.) / Suecia Nieskey”.

278. *Stictis atrovirens* Fr. Listed as *Stictis atrocyanea* Fr. in SHerb. This is consistent with the commentary for SS n. 278 provided by HN (p. 46)

281. *Sphaeria latitans* Fr. Listed as *Dothidea latitans* Fr. in SHerb.

283. *Sphaeria saligna*. Listed as *Phoma saligna* Fr. in SHerb. Schweinitz has written “*Phoma saligna*” below the printed Friesian label.

288. *Xyloma alneum* Pers. Listed as *Dothidea alnea* Fr. in SHerb.

290. *Cytispora Vaccinii* Fr. Listed as *Sphaeria cytispora* [sic] Fr. in SHerb.

292a. *Peziza fusca*. This Michener mount is labelled “860-117 Syn. Fung. / *Peziza fusca* Fr. / Salem – Beth.” and is unusual in that it bears two specimens. The first specimen is glued to a white backing. The second is affixed to a blue backing below which Michener has written “Suecia”.

292b. *Cenangium ferruginosum* Fr. The Schweinitz packet is annotated “*Cenangium* (*CliTHRIS*) / *ferruginosum* / *Pez. abietis* / *Suec. Fr. Kze. Sax.* / [text indecipherable] ipsi”.

293. *Cenangium acerinum* Fr. The Schweinitz packet is labelled “*Cenangium acerinum* / *Suec. Fr.*” and contains a printed DS label that reads “Nr. LXIII. *Hysterium quercinum. P.*”. Schweinitz has written “*Cenangium*” above this label.

297. *Arthrinium caricinum* Kunze. Listed as *Arthrinium caricicola* in SHerb. One of the housing packets in attributes this species to Link, the second to Kunze.

298. *Melanconium discolor* Kunze. Listed as *Melanconium bicolor* in SHerb. The Schweinitz packet is annotated “*Melanconium bicolor* / (*discolor* Kze.) / *Sax. Kunze*” and contains the printed label for DS Nr. CLVII.

299. *Melanconium betulinum* Kunze. Listed as *Didymosporium elevatum* Lk. in SHerb and SF.

301. *Sphaeria ophioglossoides* Ehrh. The Schweinitz packet is annotated “*Sphaeria ophioglossoid.* / *D. Kunze* / *L & S an* [text indecipherable] / *Suec. Fr.*” and contains the printed label for DS Nr. XXVI.

308. *Sphaeria Dothidea* Fr. The Michener mount is labelled “*Sphaeria Dothidea* *Moug. / Fries Suecia*”.

314. *Sphaeria stricta*  $\gamma$  *obliqua* Fr. The Michener mount is labelled “*Sphaeria stricta* *Pers. /  $\beta$  obliqua / Fries Suecia*” and the Schweinitz packet is annotated “*Sphaeria stricta /  $\beta$  obliqua / Suec. Fr.*”. Both specimens were found with material corresponding to SS n. 148 in a housing packet labelled “*Sphaeria stricta* *Fr. A. & S. / Salem / Suec. Fr. / var. obliqua / Syn.# 1614*”. See number 148.

317. *Sphaeria pupula*  $\beta$  *philadelphia* Fr. The Michener mount, which is labelled “*Sphaeria pupula* *Fr. /  $\beta$ . Philadelphia / Fries Suecia*”, bears two specimens and the same SF number (1643 – 498) as SS n. 16 *Sphaeria pupula* Fr. Schweinitz cited F. 401 for *S. pupula* (SF: 217) which corresponds to 401. *Sphaeria pupula* (SM 2: 484).

328. *Dothidea Asteroma* Fr. Schweinitz cited F. 36 for this species in (SF: 232) but the correct species number is F. 37 (SM 2: 560). The

Michener mount is labelled “Dothidea asteroma Fr. / in foliis / Fries Suecia”.

331. *Peziza chrysocoma* Bull. Two specimens are affixed to this Michener mount. The first is glued to a blue piece of paper on which Michener has written the word “Suecia”. The second specimen is glued to a small piece of white paper and the mount is annotated “923–180 Syn. Fung. / *Peziza chrysocoma* Bull / Salem Beth.”.

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