

VIII. LICHENS COLLECTED DURING THE SUMMERS OF
1912 AND 1913 IN THE THUNDER BAY DISTRICT,
ONTARIO, CANADA.

BY R. HEBER HOWE, JR.

In December, 1913, Dr. O. E. Jennings, of the Carnegie Museum, Pittsburgh, Pa., forwarded to me a collection of 265 packets of lichens collected by himself and Mr. R. H. Daily in the early part of the summer of 1912; by himself, Mr. R. H. Daily, and Mrs. O. E. Jennings during the remainder of the summer; and by himself and Mrs. Jennings in the summer of 1913. These collections were made in the southern part of the Thunder Bay District of Ontario, a district lying directly to the north of Lake Superior and surrounding Lake Nipigon. The region covered extended about two hundred miles east and west. The collection, though rich in specimens, was not so in species. It adds, however, a species and a variety to our North American lichen flora before unrecorded, and contains two interesting *Cladonias*, which are noted below. The collection also plainly shows the fact that our typical eastern plants extend uninterruptedly at least as far west as Lake Superior. Eastern species, such as *Platysma lacunosum* var. *atlanticum* Tuck., occur with other such typical plants, whereas western species like *Alectoria fremontii* Tuck. (Montana and Wyoming) and *Letharia vulpina* (L.) Ach. (Nebraska, Wisconsin and Minnesota) were not found. In regions lying well to the foothills of the Rockies these latter species are represented and the line that separates the floras lies somewhere between these two points or in the actual valley of the Mississippi river (95th meridian).

A complete set of the specimens is preserved in the herbarium of the Carnegie Museum; duplicates of many are to be found in the author's herbarium, and in the herbarium of the Sullivant Moss Society.

The majority of the crustose species were determined by Dr. H. E. Hasse; the *Stereocaulons* by Dr. L. W. Riddle; the *Cladonias* by Dr. Ludwig Scriba. To these gentlemen most grateful thanks are due.

Order: **GYMNOCARPALES.**

Group: *RADIATÆ.*

Family: *USNEACEÆ.*

1. *Usnea longissima* Ach. Lake Helen, Nipigon.
2. *Usnea barbata* (L.) Web. (= *U. dasypoga* (Ach.) Nyl.). Lake Helen, Nipigon.
3. *Usnea barbata* var. *stricta* (Schaer.) R. H. Howe, Jr. (= *U. dasypoga* var. *plicata* (Hoffm.) Hue.). Little Fluor Island, Edward Island, Fluor Island,—all L. Superior.
4. *Usnea florida* (L.) Web. Jackfish Island, L. Superior.
5. *Usnea florida* f. *hirta* (L.) Michx. Thunder Cape Mt.; Nipigon. Silver Islet; Porphyry Island, L. Superior.
6. *Usnea cavernosa* Tuck. Nipigon: a very curious and interesting specimen with cephalodia resembling alectroid apothecia; Porphyry Island, L. Superior; Silver Islet.
7. *Letharia thamnodes* (Flot.) Hue. Perry Lake, Thunder Cape; Fluor Island, Lake Superior; Current River; Nipigon; Thunder Cape; Porphyry Island, L. Superior.
8. *Ramalina farinacea* (L.) Ach. Porphyry Island, L. Superior; Nipigon. The variety *phalerata* Ach. is represented in part.
9. *Ramalina dilacerata* (Hoffm.) Wain. Porphyry Island, L. Superior; Thunder Cape; Silver Islet.
10. *Alectoria jubata* var. *implexa* (Hoffm.) Fr. Little Fluor Island, Porphyry Island, Silver Islet, and Fluor Island, L. Superior; Heron Bay; Stanley; Current River.
11. *Alectoria chalybeiformis* (L.) S. F. Gray. Porphyry Island, L. Superior.

Group: *STRATOSI-RADIATÆ.*

Family: *CLADONIACEÆ.*

12. *Stereocaulon paschale* (L.) Ach. Heron Bay; Silver Islet; Fluor Island and Porphyry Island, L. Superior; Sleeping Giant Mt., altitude 1,800 ft; Thunder Cape; Alexander Portage, 17 miles north of Nipigon; Nipigon. The variety *conglomeratum* Fr. is represented in part.
13. *Stereocaulon tomentosum* Fr. Silver Islet and Surprise Lake; Thunder Cape.
14. *Stereocaulon coralloides* Fr. Nipigon.

15. *Cladonia rangiferina* (L.) Web. Porphyry Island, L. Superior; Heron Bay; Silver Islet; Nipigon; Port Arthur; Rossport.
16. *Cladonia sylvatica* Hoffm. Porphyry Island, L. Superior; Heron Bay; Silver Islet; Nipigon; Port Arthur; Rossport.
17. *Cladonia alpestris* (L.) Rabenh. Nipigon; Porphyry Island, L. Superior.
18. *Cladonia coccifera* (L.) Willd. Rossport; Little & Big Fluor Islands, L. Superior; Nipigon; Heron Bay. The varieties *stemma* Ach., *phyllocoma* Flk., and *pleurota* Flk. are represented.
19. *Cladonia cristella* Tuck. Jackfish Island, L. Superior; Loon Lake; Rosslyn, 10 miles west of Ft. William; Heron Bay; Maloney Harbor, Magnet Pt.; Nipigon; Rossport; Paps Harbor, Black Bay Peninsula. The varieties *vestita* Tuck. and *ochrocarpia* Tuck. are represented.
20. *Cladonia amaurocræa* (Flk.) Schaer. Nipigon. The varieties *elotea* Ach. and *oxyceras* Ach. are represented.
21. *Cladonia uncialis* (L.) Web. Little and Big Fluor Islands, L. Superior; Nipigon; Rossport.
22. *Cladonia crispata* (Ach.) Flot. Little and Big Fluor Islands, L. Superior; Maloney Harbor; Nipigon. The varieties *subscripta* Wain. and *divulsa* Arn. are represented.
23. *Cladonia squamosa* (Scop.) Hoffm. Maloney Harbor.
24. **Cladonia turgida* (Ehrh.) Hoffm. Nipigon; Heron Bay. Dr. Scriba remarks "a curious specimen near to *C. turgida*, but the podetia which seem to belong to this thallus are neither *turgida* nor *strepsilis*."
25. *Cladonia gracilis* (L.) Willd. Nipigon; Porphyry Island, L. Superior; Maloney Harbor, Magnet Pt.; Heron Bay; Silver Islet, Thunder Cape. The varieties *ochrochlora* Flk. and *hybrida* Flk. are both represented.
26. *Cladonia degenerans* (Flk.) Spreng. Nipigon; Porphyry Island, L. Superior. The material approaches both the forms *euphorea* Wain. and *gracilis* Flk.
27. *Cladonia verticillata* Hoffm. Porphyry Island, L. Superior; Nipigon; Heron Bay; Rosslyn; Maloney Harbor, Magnet Pt.; Rossport.
28. *Cladonia fimbriata* (L.) Fr. Maloney Harbor, Magnet Pt.; Heron Bay; Silver Islet.

29. *Cladonia pyxidata* (L.) Fr. Nipigon; Little Fluor Island and Porphyry Island, L. Superior; Heron Bay; Silver Islet; Rossport; Perry Lake, Thunder Cape. The material represents the varieties *pocillum* (Ach.) Flot., *neglecta* (Flk.) Mass., and *chlorophaea* (Spreng.) Flk.

Group: *STRATOSÆ*.

Family: *PHYSICIACEÆ*.

30. *Physcia stellaris* (L.) Nyl. Silver Islet, Thunder Cape.
 31. *Physcia stellaris* var. *aipolia* Nyl. Heron Bay; Porphyry Island, L. Superior.
 32. *Physcia pulverulenta* var. *leucoleiptes* Tuck. Porphyry Island, L. Superior. A part of the material represents form *turgida* Schaer.
 33. *Physcia obscura* var. *endophoenicea* Harm. Oliver Creek, three miles southeast of Stanley.
 34. *Xanthoria polycarpa* (Ehrh.) Oliv. Mt. McKay, Ft. William; Silver Islet, Thunder Cape; Fluor Island and Porphyry Island, L. Superior.
 35. *Xanthoria lychnea* var. *pygmaea* Fr. Porphyry Island, L. Superior.

Family: *CALOPLACACEÆ*.

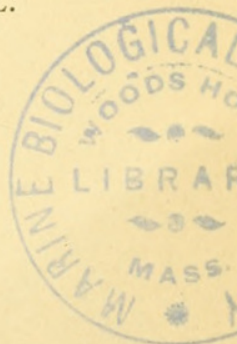
36. *Caloplaca cerina* (Ehrh.) Zahlbr. Silver Islet, Thunder Cape.
 37. *Caloplaca elegans* (Link) Th. Fr. Silver Islet, Thunder Cape; Little Fluor Island, Porphyry Island, and Fluor Island, L. Superior.

Family: *BUELLIACEÆ*.

38. *Buellia parasema* (Ach.) Th. Fr. Rossport; Six-mile Lake and Silver Islet, Thunder Cape; Edwards Island, L. Superior.
 39. *Rhinodina sophodes* var. *lecideoides* (Nyl.) Hasse, *in litt.*, Nipigon. Dr. Hasse writes "I think this variety has not been reported from this country."

Family: *PARMELIACEÆ*.

40. *Nephromopsis ciliaris* (Ach.) Hue. Thunder Cape.
 41. *Platysma juniperina* var. *pinastri* (Ach.) Nyl. Mt. McKay, Ft. William; Silver Islet, Thunder Cape; Porphyry Island, L. Superior; Maloney Harbor, Magnet Pt.; Jackfish Island, L. Superior.



42. *Platysma lacunosum* var. *atlantica* (Tuck.) Howe. Nipigon.
43. *Parmeliopsis aleurites* (Ach.) Nyl. Nipigon.
44. *Parmelia physodes* (L.) Ach. Jackfish Island and Porphyry Island, L. Superior; Mission, Nipigon; Rossport; Thunder Cape Mt.
45. *Parmelia conspersa* (Ehrh.) Nyl. Heron Bay; Rossport; Silver Islet and Sleeping Giant, Thunder Cape; Ft. Williams; Porphyry Island, Little Fluor Island, and Fluor Island, L. Superior. This material represents also the varieties *imbricata* Mass., *stenophylla* Ach., and *isidiata* Mass.
46. *Parmelia olivacea* (L.) Nyl. Six-mile Lake and Silver Islet, Thunder Cape; Edwards Island, L. Superior; Maloney Harbor; Magnet Point. The material also represents the var. *aspidota* Ach. (= *P. exasperata* DeNot.).
47. *Parmelia Borreri* var. *rudecta* Tuck. Porphyry Island, L. Superior.
48. *Parmelia saxatilis* (L.) Ach. Nipigon; Silver Islet and Six-mile Lake, Thunder Cape; Edwards Island and Little Fluor Island, L. Superior. One example represents the form *brunnea* Harm.
49. *Parmelia saxatilis* var. *sulcata* (Tayl.) Nyl. Mt. McKay, Ft. William; Maloney Harbor, Magnet Point; Surprise Lake and Perry Lake, Thunder Cape. One example represents the form *rubescens* Roumeg.

Family: LECANORACEÆ.

50. *Candelariella cerinella* (Flk.) Zahlbr. Little Fluor Island, L. Superior.
51. *Lecanora rubina* (Vill.) Wain. Little Fluor Island, L. Superior.
52. *Lecanora cineria* (L.) Sommf. Porphyry Island and Little Fluor Island, L. Superior.
53. *Lecanora subfusca* (L.) Ach. Silver Islet, Thunder Cape. One example represents var. *distans* Ach., another var. *argentata* Ach.
54. *Lecanora symmicta* Ach. Thunder Cape.

Family: PELTIGERACEÆ.

55. *Peltigera aphthosa* (L.) Hoffm. Nipigon; Heron Bay; Silver Islet, Thunder Cape; Rossport; Porphyry Island, L. Superior.

56. *Peltigera polydactyla* (Neck.) Hoffm. Maloney Harbor, Magnet Point, Nipigon; Rabbit Mt., fifteen miles west of Ft. William; Ft. William. One example suggests *P. pulverulenta* (Tayl.) Nyl., the spores, however, being small.
57. *Peltigera horizontalis* (L.) Hoffm. Tee Bay and Silver Islet, Thunder Cape; Mt. McKay, Ft. William.
58. *Peltigera canina* (L.) Hoffm. Nipigon; Stanley; Porphyry Island, L. Superior; Six-mile Lake and Silver Islet, Thunder Cape.
59. *Peltigera rufescens* (Sm.) Hoffm. Nipigon; Stanley; Mt. McKay, Ft. William; Maloney Harbor, Magnet Point; Silver Islet, Surprise Lake and Sleeping Giant Mountain, Thunder Cape.
60. *Peltigera spuria* (Ach.) DC. Ft. William; Stanley; Rossport; Maloney Harbor, Magnet Point.
61. *Peltigera venosa* (L.) Hoffm. Nipigon.
62. *Nephroma lævigatum* Ach. Nipigon. Represents the variety *parile* Nyl.
63. *Solorina saccata* (L.) Ach. Fluor Island, L. Superior; Rossport; Nipigon.

Family: STICTACEÆ.

64. *Lobaria pulmonaria* (L.) Hoffm. Paps Harbor, Black Bay Peninsula; Nipigon; Loon; Oliver Creek, near Stanley; Porphyry Island, L. Superior. The material represents in part the following forms: *papillaris* Del., *hypomela* Del., *sorediata* Harm.

Family: PANNARIACEÆ.

65. *Pannaria lanuginosa* (Ach.) Krb. Surprise Lake and Silver Islet, Thunder Cape; Current River, Port Arthur; Little Fluor Island, L. Superior; Heron Bay.
66. *Pannaria microphylla* (Sw.) Ach. Porphyry Island, L. Superior.

Family: GYROPHORACEÆ.

67. *Gyrophora vellea* (L.) Ach. Jackfish Island and Little Fluor Island, L. Superior; Heron Bay; Blend River, at head of Thunder Bay; Nipigon; Silver Islet and Surprise Lake, Thunder Cape. With a clear conception of *G. hirsuta* still in doubt, I am referring all this material here.
68. *Gyrophora flocculosa* Borr. & Turn. Fluor Island, L. Superior.
69. *Gyrophora Muhlenbergii* Ach. Little and Big Fluor Islands, L. Superior; Nipigon; Heron Bay; Silver Islet, Thunder Cape.

Family: ACAROSPORACEÆ.

70. *Maronea constans* (Nyl.) Th. Fr. Edwards Island, L. Superior; Thunder Cape.

Family: LECIDEACEÆ.

71. *Rhizocarpon obscuratum* (Ach.) Krb. Porphyry Island, L. Superior. Dr. Hasse writes "species believed to be new to this country."
72. *Rhizocarpon geminatum* (Flot.) Krb. Porphyry Island and Little Fluor Island, L. Superior.
73. *Lecidea parasema* Ach. Porphyry Island, L. Superior. The example represents the variety *achrista* (Sommf.) Hasse, *in litt.*
74. *Lecidea lapicida* (Ach.) Arn. Porphyry Island, L. Superior.

Group: COLLEMÆ.

Family: COLLEMACEÆ.

75. *Collema vespertilio* (Light.) Wain. Rabbit Mt., fifteen miles west of Ft. William.
76. *Leptogium Hildebrandii* (Garov.) Nyl. Tee Bay, Thunder Cave. This plant was determined by Dr. Riddle.

Order: PYRENOCARPALES.

Family: DERMATOCARPONACEÆ.

77. *Dermatocarpon fluviatile* (Weis.) Th. Br. Porphyry Island and Little Fluor Island, L. Superior.
78. *Dermatocarpon miniatum* (L.) Mann. Porphyry Island, L. Superior. The example represents the variety *complicatum* (Sw.) Zahlbr.

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