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PART III

THE EXPLORATION OF SOUTHAMPTON ISLAND

PART III, BOTANY

ART. I. ALGÆ AND FUNGI OF SOUTHAMPTON ISLAND.

By O. E. JENNINGS.

ALGÆ.

Family NOSTOCACEÆ.

1. *Nostoc muscorum* C. A. Agardh.

Nostoc muscorum C. A. Agardh, Dispositio algarum Sveciæ, p. 44 (1812).

Minute colonies of this species were found in the axils of the leaves of the moss, *Drepanocladus fluitans*. It has been reported from numerous stations throughout the temperate and Arctic regions of North America.

2. *Nostoc commune* Vaucher.

Nostoc commune Vaucher, Hist. d. Conferves d'eau douce, p. 222 (1803).

This collection consists of small, spherical, gelatinous colonies found among tufts of mosses. It is a common species ranging from the West Indies, Mexico, and Hawaii to various localities in arctic North America.

FUNGI.

Family AGARICACEÆ.

1. *Russula emetica* (Schaeffer) Persoon.

Agaricus emeticus Schaeffer, Fungi Bavar. 4:9 (1774).

Russula emetica Persoon, Obs. Mycol. 1:100 (1796).

This red-capped *Russula* occurs commonly throughout temperate Europe and North America and has been reported from as far north as Greenland.

Collected July 27, 1930.

2. *Russula* sp.

This specimen is not capable of specific determination. It apparently represents some pale-pink-capped species, and may, possibly, be a pale form of *Russula emetica*.

Collected July 27, 1930.

3. *Lactarius* sp.

There is insufficient data with this specimen to permit identification.

4. *Tubaria furfuracea* (Persoon) Smith.

Agaricus furfuraceus Persoon, Synop. Fungi, p. 454 (1801).

Tubaria furfuracea Smith, Seemann's Journ. 8:219 (1870).

Pileus light brown, becoming dark umber when dry, curved downwards at the margin. Stem cartilaginous, fistulose, paler than the cap, and tending towards light yellow above. Gills sinuate or arcuate-decurrent. Spores rusty brown, elliptical, smooth, about 5 x 8-9 μ .

Collected July 27, 1930.

5. *Cortinarius* sp.

Insufficient data for specific determination.

Collected on Seal Point, autumn of 1929.

6. *Psathyrella disseminata* (Persoon) Fries.

Agaricus disseminatus Persoon, Synop. Fung., p. 403 (1801).

Psathyrella disseminata Fries, Systema Mycol., p. 305 (1821).

This is a common and widely distributed species ranging from Tasmania and South Africa to Siberia and northern North America.

Collected July 27, 1930.

7. *Hygrophorus hudsonianus* Jennings, sp. nov.

General color, a dull corn yellow. Pileus 0.5-3.0 cm. broad, plane, or centrally and marginally depressed, glabrous but not shining, fading to a pale yellow when dry, viscid and rubbery-cartilaginous when moist. Gills sub-arcuate, strongly decurrent, distant, intervenose, wide, thick, waxy, when dry not fading so much as does the pileus. Stem about 1-2.5 cm. long, 1.5-2 mm. thick, straight or curving upwards, cartilaginous, hollow, when dry pale yellow to almost white, dull, minutely powdery puberulent, slightly enlarged and matted with white cobwebby mycelium at the base. Spores elliptical, 4-5 by 5-8 μ , smooth, hyaline, rather thin-walled.

Collected by Dr. George M. Sutton, Southampton Island, 1930.

TYPE in the Carnegie Museum Herbarium.

Fungus flavus. Pileus planus vel centro depressus, 0.5-3.0 cm. latus, glaber, humectato viscidulus cartilagineusque, sicco albolutescens. Lamellæ distantes, grossa, crassæ, decurrentes. Stipes circa 1-2.5 cm. x 1.5-2.0 mm., cartilagineus, fistulosus, pulveraceo-puberulus. Sporidia elliptica, 4-5 x 5-8 μ , glabra, hyalina.

When moistened the fungus quickly revives and becomes cartilaginous and viscid, soon taking on a dark umber color which is retained when the fungus is again dried. The plants arise from the brown peaty portions of tufts of the moss *Dicranum fuscescens*. The

species seems nearest to *Hygrophorus nitidus* Berkeley & Curtis (*Hydrocybe nitida* Murrill), but it differs from the latter species in having a plane or depressed pileus and a puberulent stem.

Family LYCOPERDACEÆ.

8. *Calvatia cretacea* (Berkeley) Lloyd.

Lycoperdon cretaceum Berkeley, Journ. Linn. Soc., 17:15 (1878).

Calvatia borealis Th. Fries, Zur Kennt. Gasteromyc. Fl. Forne Lappm., p. 238 (1914).

Calvatia cretacea Lloyd, Myc. Notes No. 46, p. 650 (1917).

This is the arctic species of puff-ball reported from Lapland; and, in arctic America, from Bellot Island, Herschel Island, Bernard Harbor, Kay Point, and the Mackenzie River delta. Dr. Sutton's specimens from Southampton Island are from the most southerly station yet reported for the species.

EXPLANATION OF PLATE XXIX.

Mushrooms of Southampton Island from water-color sketches made by Dr. George Miksch Sutton during August, 1930.

- FIG. 1. Undetermined. Sketched at Coral Inlet, Southampton Island, Aug. 14, 1930.
- FIG. 2. Undetermined. Sketched at Coral Inlet, Southampton Island, Aug. 14, 1930.
- FIG. 3. *Russula* sp. Perhaps a faded *Russula emetica*. Sketched Aug. 21, 1930.
- FIG. 4. *Russula* sp. Sketched at Coral Inlet, Southampton Island, Aug. 14, 1930.
- FIG. 5. *Russula* sp. Sketched Aug. 21, 1930.
- FIG. 6. *Hygrophorus* sp.? Sketched at Coral Inlet, Southampton Island, Aug. 14, 1930.
- FIG. 7. *Lactarius* sp.? Sketched at Coral Inlet, Southampton Island, Aug. 14, 1930.
- FIG. 8. Undetermined. Sketched at Coral Inlet, Southampton Island, Aug. 14, 1930.
- FIG. 9. *Naucoria semiorbicularis* (Bull) Fr.? Sketched Aug. 21, 1930.
- FIG. 10. *Russula emetica* (Schaeffer) Persoon. Sketched at Coral Inlet, Southampton Island, Aug. 14, 1930.
- FIG. 11. *Amanitopsis* sp. "Underside almost pure white"—Sutton. Sketched Aug. 20, 1930.
- FIG. 12. Undetermined. Sketched at Coral Inlet, Southampton Island, Aug. 14, 1930.
- FIG. 13. *Cortinarius* sp.? Sketched at Coral Inlet, Southampton Island, Aug. 14, 1930.
- FIG. 14. *Hygrophorus* sp.? Sketched Aug. 21, 1930.
- FIG. 15. *Cantharellus* sp. Sketched Aug. 21, 1930.
- FIG. 16. *Entoloma* sp.? Sketched at Coral Inlet, Southampton Island, Aug. 14, 1930.
- FIG. 17. Undetermined. Sketched at Coral Inlet, Southampton Island, Aug. 14, 1930.
- FIG. 18. *Naucoria* sp.? "Underside greenish-olive"—Sutton. Sketched Aug. 20, 1930.
- FIG. 19. Undetermined. Sketched at Coral Inlet, Southampton Island, Aug. 14, 1930.
- FIG. 20. Undetermined. Sketched Aug. 20, 1930.

Jennings, Otto E. 1936. "Algae and fungi of Southampton Island." *Memoirs of the Carnegie Museum* 12(3), 1-4. <https://doi.org/10.5962/p.234858>.

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