

Aphanothece Näg.**Aphanothece saxicolor** Näg.

Only one small irregular mass of this species was observed, cells 1.5μ wide and $2\frac{1}{2}$ times as long. It was found in the big lake, Bernard harbour, August, 1915. It has not been recorded previously for the arctic regions of America.

Microcystis Kütz.**Microcystis aeruginosa** Kütz. [*Clathrocystis aeruginosa* (Kütz.) Henfy]

This typical plankton alga is common in the United States of America but has not previously been found in arctic regions. It is not uncommon in some Canadian lakes. It was found by the expedition in the plankton of the big lake at Bernard harbour and in the second bay east of Bernard harbour and at Herschel island.

Gomphosphaeria Kütz.**Gomphosphaeria aponina** Kütz.

(Plate IV, fig. 18)

A few pale blue-green colonies of this species were found in the plankton of the big lake at Bernard harbour, July, 1916. It has not been previously recorded from arctic America.

Coelosphaerium Kütz.**Coelosphaerium Kützingianum** Näg.

This species was observed on various occasions in the plankton from Bernard harbour and once in some tundra material from Demarecration point, Alaska. This is also a first record for the American arctic regions.

Merismopedia Meyen.**Merismopedia glauca** (Ehrenb.) Näg.

This was observed in material from the pond near the second bay east of Bernard harbour, June, 1915, and in material from Herschel island, July, 1916.

Merismopedia tenuissima Lemm.

Although this species was never plentiful, it was observed in different plankton collections from the lake at Bernard harbour and at Herschel island. No previous records have been made for the last two species for arctic America.

OSCILLATORIACEAE.**Oscillatoria** Vauch.**Oscillatoria tenuis** Agardh

This species is well known from all arctic regions and occurred at Collinson point, Pihumalerksiak island, and Bernard harbour.

HORMOGONEAE.**NOSTOCACEAE.****Nostoc** Vauch.**Nostoc commune** Vauch.

This was very plentiful at the bottom of tundra ponds and in many other places at Teller. It was also found at Collinson point and at Bernard harbour, as well as in the stomach of a fish taken June 20, 1915, at Bernard harbour.

Nostoc sphaericum Vauch.

This species was not by any means abundant and only occurred in a few samples from Bernard harbour.