

Cosmarium Botrytis Menegh.

This is probably the most generally distributed species of this genus and was the commonest desmid in the collection. It was usually a little below average size, although there were a few as large as any I have found in other parts of Canada or Great Britain. It occurred in collections from Teller, Demarcation point, Collinson point, and from Bernard harbour, Herschel island, and Cape Bathurst.

Cosmarium conspersum Ralfs

This species was also fairly plentiful wherever found. It occurred at Teller and Demarcation point, and at Bernard harbour and Herschel island.

Cosmarium contractum Kirchn. var. **ellipsoideum** (Elf.) W. and G. S. West
(Plate III, fig. 17)

The type form of this species has been recorded from the United States. It is more tropical than northern. The variety recorded here from Herschel island has not previously been recorded from the North American continent, but it is more northern than the type and has been found in arctic regions outside America.

Cosmarium costatum Nordst.

This is a rare and typically arctic and alpine desmid. It was found in the plankton collection of July 3, 1916, from the big lake at Bernard harbour.

Cosmarium crenatum Ralfs

This also is a desmid common in arctic and alpine collections. It was fairly common in the lagoon lake at Teller, but was found in no other locality.

Cosmarium Cucumis (Corda) Ralfs
(Plate IV, fig. 1)

This species is world-wide in its distribution, although not recorded from North America. It has been found in Greenland. It was found by the expedition in the lake at Teller. Rare.

Cosmarium Cucurbita Bréb. var. **attenuatum** G. S. West (Plate III, fig. 8)

This variety has a very limited distribution. The type form is fairly universal, but this variety has only been recorded from England, Germany, and the West Indies. It was found in the plankton of the big lake at Bernard harbour, where it was very abundant. All specimens were small and about same size, length 26μ , breadth 15μ .

Cosmarium cyclicum Lind. var. **Nordstedtianum** (Reinsch) W. and G. S. West
(Plate III, fig. 18)

This is another variety with a very limited distribution, being recorded previously only from England, Ireland, Austria and North Russia. The type form is fairly common in the north and has been found in Greenland, Spitzbergen, and the United States of America. A few individuals of the variety were found in the *Hippuris* swamp at Herschel island.

Cosmarium globosum P. B. (Plate IV, fig. 7)

This rather small occurred in the lagoon lake at Teller, where it was fairly plentiful. Most specimens were a little below average size.