

Penium spirostriolatum Barker

(Plate III, fig. 6)

A few individuals of this beautiful desmid occurred in the *Hippuris* swamp at Herschel island. It also has not been previously recorded from arctic America.

Closterium Nitzsch.**Closterium Cornu** Ehrenb.

(Plate IV, fig. 16)

This was a very common species from the tundra pond and the pond between the lake and sea at Teller. It was found also on Pihumalerksiak island (Cockburn point). The majority of specimens were more curved than the type form. Not previously recorded from American arctic regions.

Closterium Dianae Ehrenb.

This little *Closterium* was found with some plankton gatherings, August, 1915, from the big lake at Bernard harbour.

Closterium didymoctocum Corda var. **striatum** nov. var. (Text fig. 2)

Senicellulae membrana atrofulva, striata. striis 13-15 transversis bene distinctis.

Cells large as in type, 9-12 times longer than their diameter. Outer margin slightly curved, inner margin almost straight. Sides gradually attenuated towards the apices which are broad and truncate with rounded, somewhat slightly recurved angles; cell wall reddish brown, definitely striate. 13-15 striae visible across the cell; annular thickening of darker colour at each apex. Length, 340 μ .

It was not common but all individuals seen were the same. It was obtained on Herschel island.

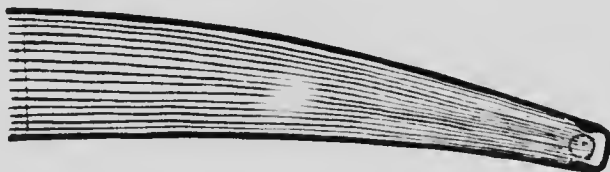


Fig. 2. *Closterium didymoctocum* Corda var. *striatum* nov. var. $\times 475$; semi-cell showing the striated wall and the regular characters of the apex.

Closterium Jenneri Ralfs

The type form was found in the *Hippuris* swamp at Herschel island. A form with apices less curved than type was found in a collection of bottom deposits and plankton from Teller.

Closterium moniliferum (Bory) Ehrenb.

This was only found in the lagoon lake at Teller. It is common in Canada and the United States, but had not been previously recorded from the arctic regions of America.

Closterium parvulum Näg.

This small *Closterium* is common in arctic regions, but only appeared in collections from two localities and was not abundant. It was found with other species of this genus in the lake at Teller, and in a lagoon just west of Martin point.