

SURIRELLEAE.

Cymatopleura W. Sm.**Cymatopleura Solea** (Bréb.) W. Sm.

This diatom was not common, being seen only on two occasions. One frustule occurred in the content of a fish stomach, October 4, 1915, and two more from the *Hippuris* swamp at Herschel island, August, 1914.

Surirella Turpin.**Surirella arctissima** A.S.

This species was found only in a mud sample taken from the bottom of the big lake at Bernard harbour, February, 1916.

Surirella fastuosa Ehr.

This is a marine form found at Teller.

Surirella ovalis Bréb.

This species occurred in the lagoon lake at Teller and at Bernard harbour in the big lake, September, 1915, and in a fish stomach taken in October of the same year.

Surirella recedens A.S.

This species, sometimes regarded as a variety of *S. fastuosa*, was found only at Teller.

Surirella regina Janise.

This also was found only at Teller, along with *S. fastuosa* and *S. recedens*. Not common.

CYMBELLEAE.

Amphora Ehr.**Amphora ovalis** Kütz.

This species was fairly abundant in the lagoon lake at Teller. It was exceedingly common at Bernard harbour, appearing in plankton and other collections from the big lake in June, July, August, September and November, 1915, and February, 1916, also at the creek mouth in July, in a fish stomach, October, 1915, and in the brackish pond, August, 1915. It also occurred at Herschel island, August, 1914.

Cymbella Ag.**Cymbella cistula** Hempr.

This species was found only in the lagoon lake at Teller, August, 1913.

Cymbella cuspidata Kütz.

This species, like the last named, was found only in the lake at Teller, July, 1913. Some of the species varied and were approaching the form of *Cymbella heteropleura* (Ehr.) Kütz.

Cymbella gastroides Kütz.

This species was almost as frequent as *Amphora ovalis* Kütz. and was found in the same localities; at Teller, in the lagoon lake and brackish pond, July and August, 1913; Herschel island, August, 1914; the creek mouth and big lake at Bernard harbour, August, 1915, and February, 1916, in both bottom samples and plankton. It was also found in the *Ophrydium* mass, August, 1915.