

Eunotia diodon Ehr.

This likewise was found only at Teller, and in only one sample from the lagoon lake, July 27, 1913. Rare.

Eunotia monodon Ehr.

This was a little more plentiful than *E. diodon*, being found upon two occasions in July, 1913, in the same lake.

Eunotia triodon Ehr.

This was the most frequent of the genus, being found in samples obtained in July and August, 1913, at Teller, and on June 28, 1916, at Martin point.

Eunotia pectinalis (Kütz.) Rab.

This species was found in a small quantity in a tundra pond at Teller, August, 1913.

Eunotia praerupta Ehr.

The lagoon lake at Teller was again the only locality in which this species was found, July, 1913. It was not uncommon.

Eunotia praerupta Ehr. var. **curta** Grun.

Amongst the specimens of the last mentioned species were a few of this variety.

Epithemia Bréb.**Epithemia Argus** Kütz.

This species occurred in a sample obtained June 17, 1916, in a moss-tundra lake at Chantry island. Only a few frustules were observed.

Epithemia gibba Kütz.

This was a fairly common species and was found in various localities. It occurred in the lagoon lake and brackish pond at Teller, in the river bed, and embedded in the calcareous pebbles taken from the bed of the warm creek in northern Alaska, November, 1913, and from the big lake at the creek mouth at Bernard harbour.

Epithemia Hyndmanii W. Sm.

This diatom was found only in the lime-encrusted pebbles taken from the warm creek near the Sadlerochit river. It was fairly abundant.

Epithemia Sorex Kütz.

This species was not quite so frequent as the last named. It likewise was found in fresh and brackish water at Teller. It also occurred in the plankton from the lake at Bernard harbour and at the creek mouth.

Epithemia turgida (Ehr.) Kütz.

This was the most abundant species of the genus. It occurred in fresh and brackish samples at Teller, in various samples from Bernard harbour, and was the commonest diatom associated with the calcareous pebbles taken from the warm creek in northern Alaska.

Epithemia turgida (Ehr.) Kütz. var. **granulata** Kütz.

Amongst the specimens found in the calcareous pebbles found in the warm creek, northern Alaska, were a large number of valves characteristic of this variety. They were obtained only from these pebbles.