

***Denticula tenuis* Kütz.**

Van Heurek Syn., Pl. 49, figs. 23, 28-30.

Although, like the preceding, this fresh-water species occurs in marine gatherings it probably gets there as detritus washed down from adjacent fresh-water areas. Found also at Station 43f.

Diatoma* (DC.) Heib.**Diatoma tenue* (Ag.) Kütz.**

Van Heurek Syn., Pl. 50, figs. 14, 19.

Found only in plankton haul from Station 24d-f.

Eunotia* Ehr.**Eunotia praerupta* Ehr. var. *laticeps* Grun.**

Cl. and Grun. Aret. Diat., Pl. 7, fig. 123.

The specimens exactly duplicate the above figure. Found in dredging from Station 23.

Fragilaria* Lyngb.**Fragilaria islandica* Grun.**

Grun Nord. Plankt., p. 114, fig. 153; Van Heurek Syn., Pl. 45, fig. 37.

Found in plankton hauls from Stations 12b-c, 18d and 46b; in the first it is very abundant, composing almost the entire plankton.

Glyphodesmis* Grey.**Glyphodesmis interspiralis* Grun. (?)**

Pl. 1, fig. 5. See *Le Diat.*, I, Pl. 24, fig. 10.

By comparing the figure here given with the one in *Le Diatomiste* the almost identical appearance of the two will be seen; but as this species has never before been found except in fossil beds at Carnarvon and Totara, New Zealand, one cannot but question their identity. Of course there are many fossil forms found also in a living state, e.g., *Naricula Schultzei*, but the separation of these two geographically, as well as chronologically, is exceptional. A certain species resemblance exists between this diatom and figures of the so-called "*Homocladia Martiana* Ag.," as in *Prit. Inf.*, Pl. 4, fig. 24, and W. Sm. *Brit. Diat.*, Pl. 55, fig. 347; but that is a *Nitzschia*, a quite delicate diatom, well shown in H. L. Sm. Types, No. 198. Found only in a dredging from Station 43c, a single specimen.

Gomphonema* Ag.**Gomphonema exiguum* Kütz.**

Van Heurek Syn., Pl. 25, figs. 34-39.

Found in plankton hauls from Station 43f.

***Gomphonema groenlandicum* Ostr.**

Sch. Atlas, Pl. 213, fig. 40.

Found in two dredgings, from Stations 23 and 43c.

Goniothecium* Ehr.**Goniothecium Odontella* Ehr.**

Ehr. Mikro., Pl. 18, fig. 94; *Prit. Infus.*, Pl. 6, fig. 27.

Generally fossil; found at Station 27s.