

Grammatophora Ehr.**Grammatophora arctica Cl.**

Van Heurck Syn., Pl. 53 bis., fig. 3.

This is the same as *G. antarctica* Perag. in Antaret. Exp. France, Pl. 1, fig. 12. Found at Stations 20b-c and 23.

Grammatophora arcuata Ehr.

Perag. Antaret. Exp. France, Pl. 3, fig. 25; Ehr. Mikro., Pl. 33A, sec. 23, fig. 11.

More or less plentiful in many of the dredgings, especially in those from Stations 43a and 43g.

Grammatophora islandica Ehr.

Van Heurck Syn., Pl. 53, fig. 7.

Probably a variety of *G. angulosa* Ehr. Found at Stations 43a and 43b.

Grammatophora marina Kütz.

Van Heurck Syn., Pl. 53, figs. 9-13.

Found in the dredging at Station 20g and the plankton haul at Station 12d.

Grammatophora oceanica Ehr. var. macilenta W. Sm.

Perag. Diat. France, Pl. 87, fig. 16.

The markings on this species are exceptionally fine. Found only in the dredging from Station 27s.

Grammatophora subundulata Grun.

Van Heurck Syn., Pl. 53 bis., fig. 10.

Placed by some authors as a variety of *G. marina*. Found only in the dredging from Station 43b.

Hantzschia Grun.**Hantzschia amphioxys (Ehr.) Grun.**

Van Heurck Syn., Pl. 56, figs. 1-6.

The grounds for separating this from the genus *Nitzschia*, namely its having the heavy carinal markings on the same side instead of on opposite sides of the two valves of the individual diatom, is insufficient, but it makes for easier identification and may therefore be accepted. The present species is generally fresh-water but seems to thrive in marine localities. Found only at Station 41.

Hyalodiscus Ehr.**Hyalodiscus hormoides (Mont.) Petit.**

Van Heurck Syn., Pl. 81, figs. 3-4; Grun. Diat. F. Jos. Land, Pl. 5, fig. 32.

Grunow without apparent justification names his figure var. *glacialis*; this Grun turns into *Lauderia glacialis* (Grun Nord. Plankt., p. 23, fig. 23), and Jorgensen (Jorg. Protist Plankt., Pl. 6, fig. 7) calls it *Podosira glacialis*. Without seeing Grun's specimens one cannot find a good excuse for making this a *Lauderia*. De Toni (Syl. Alg., p. 1361) says it is what is named *Hyalodiscus maximus* var. *arctica* in Cl. and Grun. Types No. 1. Found rather abundantly at Stations 20b-c, 23, 43b and 43c; also what may be a small variety corresponding to the figure in Sch. Diat. Nordsee, Pl. 3, fig. 40, there confused with "*Podosira hormoides* W. Sm." which is *H. scoticus* (Kütz.) Grun. Compare with Van Heurck Syn., Pl. 84, figs. 7-8; this small variety occurring at Stations 41 and 43a.

Hyalodiscus laevis Ehr.

Ehr. Mikro., Pl. 33, sec. 15, fig. 17.

Typical specimens were found at Station 43c.