

***Amphora ocellata* Douk.**

Micro. Journ., 1861, Pl. 1, fig. 11.

Very scarce in only one dredging, Station 20b-c.

***Amphora ovalis* Kütz.**

Sch. Atlas, Pl. 26, figs. 106-111.

Common in several dredgings, Stations 20b-c, 23 and 41.

***Amphora Proteus* Greg.**

Greg. Diat. Clyde, Pl. 13, fig. 81; Sch. Atlas, Pl. 27, figs. 2-3, 5, 6.

Unusually large specimens of the type form were found in dredgings made at Stations 20b-c, 27s, 43a, 43b, 43c, 43g; and the variety *Kariana* Grun. at Stations 41 and 43b.

Biddulphia* Gray**Biddulphia aurita* Breb.**

Sch. Atlas, Pl. 122, figs. 1-8.

This cosmopolitan species occurs in most of the dredgings and is quite abundant in those from Stations 20b-c, 20g, 23 and 41.

***Biddulphia Edwardsii* Feb.**

Van Heurck Syn., Pl. 100, figs. 9-10.

All the specimens were varieties of the true type and showed a tendency to merge into the next species. Found in dredgings from Stations 20g, 23 and 43b, and a plankton haul from Station 18d.

***Biddulphia obtusa* (Kütz.) Ralfs.**

Van Heurck Syn., Pl. 100, figs. 11-14.

Small specimens and as a rule having the form shown in fig. 13 above. Found at Stations 20b-c and 20g, very abundant in the latter.

***Biddulphia polymorpha* (Kütz.) Mann.**

Van Heurck Syn., Pl. 104, figs. 3-4.

Much confusion exists about the form of this diatom because several authors have united it with *B. laevis* without distinguishing between *B. laevis* Ehr. and *B. laevis* W. Sm., it being the same as the latter but clearly different from the former. As the old genus *Ceratanlus* cannot be kept distinct from *Biddulphia* this species is here reclassified. Found in dredging from Station 41.

***Biddulphia Roperiana* Grev.**

Van Heurck Syn., Pl. 99, figs. 4-6; Sch. Atlas, Pl. 120, figs. 20-24, especially last.

Found in dredgings from Stations 20g, 23, 43a and 43g, and a spiny variety at Station 20b-c.

Campylodiscus* Ehr.**Campylodiscus angularis* Greg.**

Greg. Diat. Clyde, Pl. 11, fig. 53; Deby Camp., Pl. 3, fig. 22.

Found sparingly in dredgings from Stations 27s, 41, 43a, and 43c.

***Campylodiscus striolatus* Grun.**

Sch. Atlas, Pl. 53, figs. 1-2.

Deby, in general a good authority on this genus, gives a figure of this species but calls it *C. Kutzingii* Bail., see his Rev. Camp., Pl. 1, fig. 10. De Toni in Syl. Alg., p. 610, quotes this without indorsement. If the foregoing figures are compared with Bailey's form figured in Wilkes Exp., Pl. 9, fig. 20, and the description read on p. 178, it will be clear the two cannot be united. Found in dredgings from Stations 20b-c, 23, and 43g, not abundant.