Plate 38. MARINE DIATOMS FROM THE NEW HEBRIDES

Source of Material

Ambrym Island - HC 1959. Figs. 1-3, 24-25, 36-37
New Hebrides - HC 2018. Figs. 5-6, 13-14, 26-27, 29-30
   Figs. 4, 7-12, 15-23, 28, 31-35, 38-39

These slides are held in the Healey Collection at the National Institute for Water and
Atmospheric Research (NIWA), Greta Point, Wellington, N.Z.

Plate Thirty-eight:

   20-22 Surirella fastuosa (Ehrenberg) Ehrenberg 1843. See Paddock (1985) for variety of
   forms. The morphological variations are considerable and the view of Paddock
   (1985) has been followed in combining these examples as Surirella fastuosa.

   23 Campylodiscus stellatus Greville 1859. See Greville (1859, pl. 7, fig. 3);
   also Greville in Williams (1988, p. 22, pl. 27, figs. 5-6).

   24 Podosira maxima (Kützing) Grunow 1879. See Grunow (1879, pl. 21, fig. 2).

   25 Azpeitia nodulifer (Schmidt) G. Fryxell and P.A. Sims in Fryxell, Sims and
   Watkins (1986). See Fryxell, Sims and Watkins (1986, fig. 30, 4a-b) and
   also Desikachary and Prema (1987, pl. 324, fig. 6).

   26-27 Actinocyclus crassus (W. Smith) Ralfs in Pritchard 1861. See Peragallo and
   Peragallo (1897-1908, pl. 114, fig. 3).

   28-29 Actinocyclus pruinosus Castracane 1886. Represented by selected specimens on
   slides HC 24, HC 1122 and HC 2018 from the New Hebrides. A very doubtful
   species. The only reference appears to be Castracane (1886, p. 144, pl. 4, fig. 2)
   from the Challenger Expedition.

   30 Aulacodiscus orientalis Greville 1864. See Williams (1988, pl. 17, figs. 1-3).

   31-32 Mastogloia fimbriata (Brightwell) Cleve 1895. See Desikachary and Prema (1987,
   pl. 297, fig. 3).

   33 Mastogloia horvathiana Grunow 1860. Paretctal ring absent, but a good match for
   Witkowski, Lange-Bertalot, and Metzeltin (2000, pl. 82, fig. 15).

   34-35 Mastogloia quinquecostata Grunow 1860. See Grunow (1860, pl. 7, fig. 8b);
   also Hendey (1970, pl. 1, fig. 5) and Kemp and Paddock (1990, fig. 20d).

   36-37 Podosira argus Grunow 1878. Fig. 37 shows central area
   details. See Peragallo and Peragallo (1897-1908, pl. 119, fig. 22).

39 *Cocconeis pellucida* Greville 1863. See Schmidt's Atlas (1874-1959, pl. 195, fig. 3).

**Magnifications:** figs. 23-27: x500; figs. 21-22, 28-30, 38-39: x750; all others: x1000  
**Scale Bar:** scale bar is 60 microns for the figures at x500; 40 microns at x750;  
30 microns at x1000