

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

Paama Island - HC 759, HC 1967, HC 1970, HC 1971, HC 1989, HC 3011.

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:

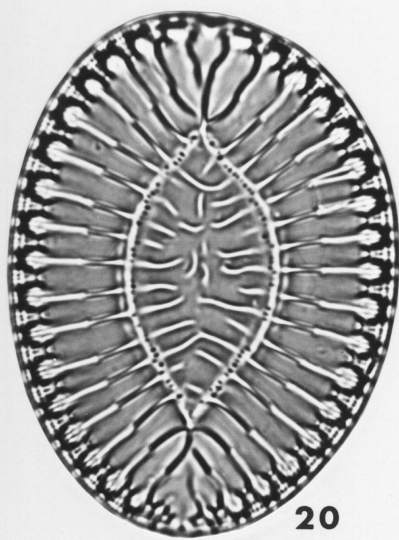
- 20-22 *Surirella fastuosa* (Ehrenberg) Ehrenberg 1843. See Paddock (1985) for variety of forms. The morphological variations are considerable and the view of Paddock (1985) has been followed in combining these examples as *Surirella fastuosa*.
- 23 *Campylodiscus stellatus* Greville 1859. See Greville (1859, pl. 7, fig. 3); also Greville in Williams (1988, p. 22, pl. 27, figs. 5-6).
- 24 *Podosira maxima* (Kützting) 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 pruinus* 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. Partectal 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).

38 *Rhapalodia gibberula* var. *baltica* Otto Müller 1900. See Schmidt's Atlas (1874-1959, pl. 253, figs. 34, 36).

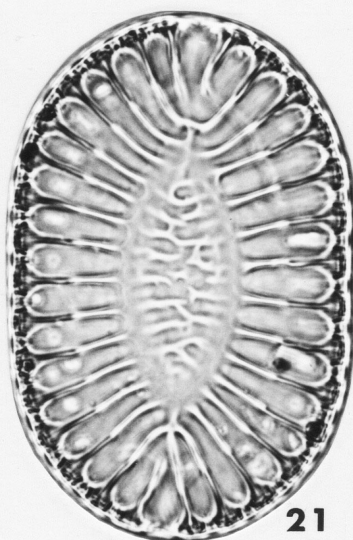
39 *Cocconeis pellucida* Greville 1863. See Schmidt's Atlas (1874-1959, pl. 195, fig. 3).

Magnifications: figs. 23-27: x500; figs. 21-22, 28-30, 38-39: x750; all others: x1000

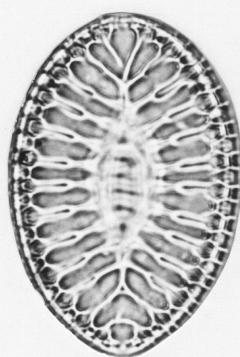
Scale Bar: scale bar is 60 microns for the figures at x500; 40 microns at x750;
30 microns at x1000



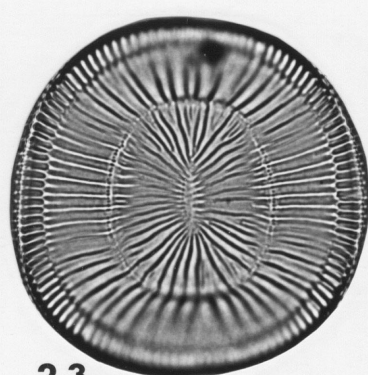
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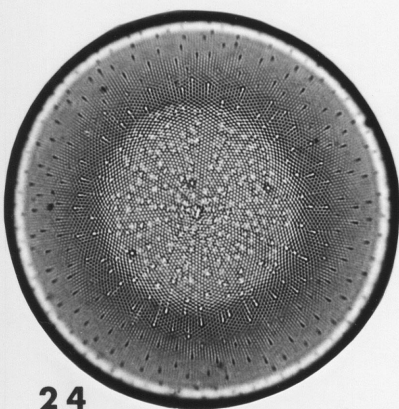
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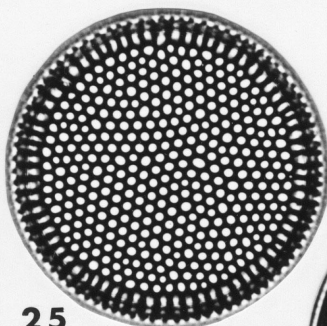
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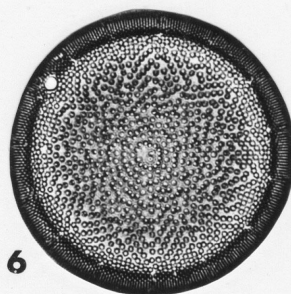
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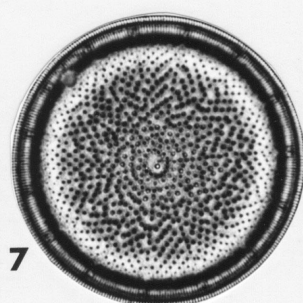
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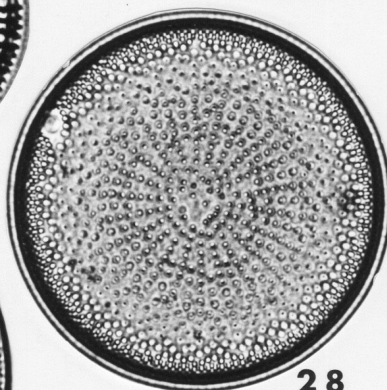
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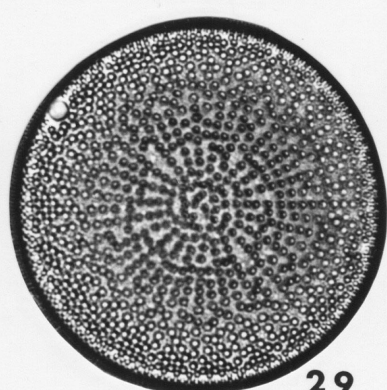
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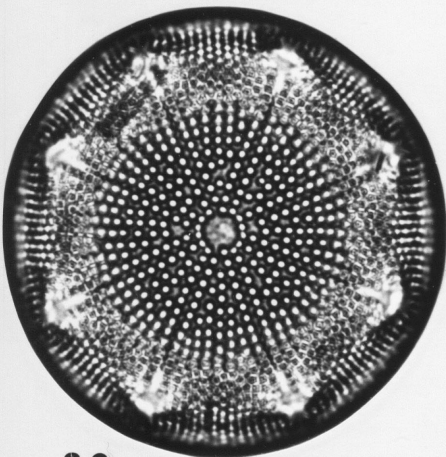
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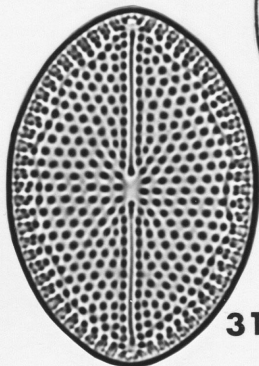
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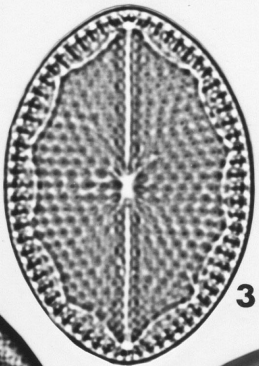
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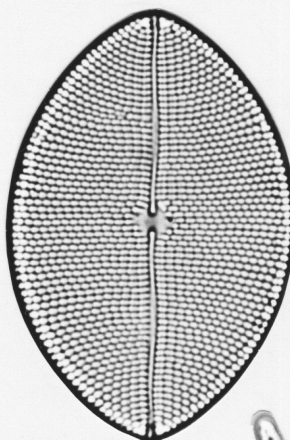
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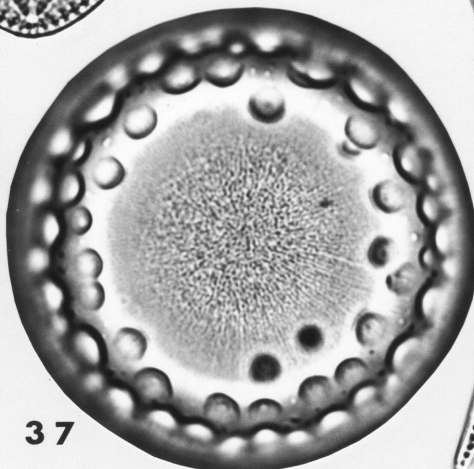
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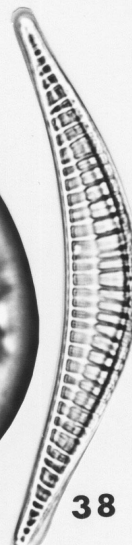
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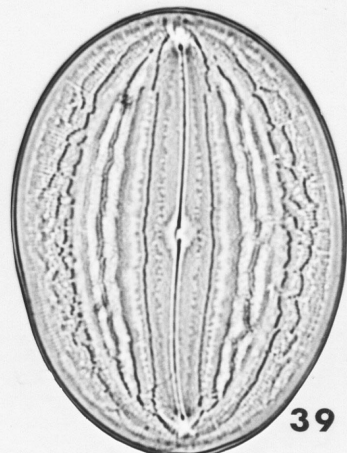
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