

Plate 50. MARINE DIATOMS FROM SAMOA

Sources of Materials

The sources of the diatom plate figures are slides from the Healey collection held at the National Institute of Water and Atmospheric Research (NIWA), Greta Point, Wellington, New Zealand, as follow:

- HC 1178 Apia, Samoa
- HC 1589 a selected group of 50 forms, recent marine, Samoa
- HC 1649 - HC 1650, Apia, Samoa, recent marine
- HC 1701 strew, recent marine, Samoa
- HC 2964 from algae, Samoa. Thum slide No.2519
- HC 3227 *Navicula lyra*, strew, recent marine, Apia, Samoa, Möller
- HC 3228 Recent marine strew, Apia, Samoa, Möller
- HC 3229 *Aulacodiscus recedens*, strew, recent marine, Samoa, Möller
- HC 3230 Recent marine strew, Samoa, Möller

Plate Fifty:

- 45 *Actinocyclus pruinus* Castracane 1886 . A specimen from slide HC 1650, which is similar to specimens on slides HC 24, HC 1122 and HC 2018. A very doubtful species. The only reference, Castracane (1886, p. 144, pl. 4, fig. 2) from the Challenger Expedition, was not available for the study.
- 46 *Trigonium arcticum* var. *sexangulatum* (Boyer) Desikachary and Prema 1987. See Desikachary and Prema (1987, pl. 327, fig. 8).
- 47 *Podocystis spathulata* (Shadbolt) Van Heurck 1896. See Hendey (1964, pl. 27, fig. 3).
- 48 *Trachyneis aspera* (Ehrenberg) Cleve 1894. See Desikachary (1989, pl. 762, fig. 1).
- 49 *Plagiodiscus martensianus* Grunow and Eulenstein in Grunow 1867. See Foged (1975, pl. 30, fig. 1) of a specimen from Tanzania.
- 50 *Achnanthes longipes* Agardh 1824. See Desikachary and Prema (1987, pl. 254, fig. 15).
- 51 *Triceratium balearicum* fo. *biquadrata* (Janisch in Schmidt et al.) Hustedt 1930. See Schmidt's Atlas (1874-1959, pl. 98, fig. 4-5), given as *T. biquadratum*. See also Hustedt (1930, pl. 815, fig. 477).
- 52 *Podosira ambigua* Grunow 1879. See Grunow (1879, pl. 21, figs. 4a-c).
- 53 *Triceratium weissei* Pantocsek 1889. See Schmidt's Atlas (1874-1959, pl. 79, fig. 2)

given as *T. formosum* of a specimen from Samoa. See also Desikachary and Prema (1987, pl. 396, figs. 3-4).

54 *Diploneis notabilis* (Greville) Cleve 1894. See Hustedt (1937, figs. 1074b-c) and Williams (1988, pl. 46, fig. 4).

55 *Grammatophora maxima* Grunow 1862. See Grunow (1862, pl. 5, fig. 5).

56-57 *Podosira* (*Pseudopodosira*?) *argus* Grunow 1878. See Grunow (1879, pl. 21, figs. 6a-c) and Desikachary (1989, pl. 685, figs. 1-7). This species might belong to the genus *Pseudopodosira*, but no record of the transfer can be found.

58 *Surirella eximia* Greville 1857. See Schmidt's Atlas (1874-1959, pl. 365, fig. 7) and Williams (1988, p. 48, pl. 56, fig. 8).

Magnifications: fig. 46: x500; figs. 48, 51, 56-57: x750; all others: x1000

Scale Bar: scale bar is 60 microns for fig. 46; 40 microns for all figures at x750; 30 microns at x1000

