

Plate 44. MARINE DIATOMS FROM SINGAPORE

Source of Material

From the Morris Watt Collection, Otago Museum, New Zealand

Slide No. 174, catalogue No. 65

Slide No. 194, catalogue No. 80

Slides are labelled as “Muntok, Singapore”, however Muntok (or Mentok) is in Indonesia, therefore the geography of these samples is uncertain.

Plate Forty-four:

- 1 *Actinocyclus subtilis* (Gregory) Ralfs in Pritchard 1861. See Van Heurck (1880-1885, pl. 124, fig. 7).
- 2 *Coscinodiscus radiatus* Ehrenberg 1840. See Hendey (1964, pl. 22, fig. 7).
- 3-4 *Cyclotella baltica* (Grunow) Håkansson 2002. See Håkansson (2002, p. 104, fig. 373). This is one of the few *Cyclotella* species from a marine habitat. *C. baltica* Håkansson stat. nov. (Håkansson 2002), shows valve face fultoportulae in the specimen of fig. 373 and these are clearly seen in the specimen of fig. 4 here.
- 5 *Azpeitia nodulifer* (Schmidt) G. Fryxell and P.A. Sims in Fryxell, Sims and Watkins 1986. See Fryxell, Sims and Watkins (1986, p. 19, pl. 30, fig. 4A). The genus *Azpeitia* has been equated to *Triceratium* (VanLandingham, 1968a, p. 406), but many species originally placed in *Coscinodiscus*, including *C. nodulifer* (Schmidt's Atlas, 1874-1959, pl. 59, figs. 20, 22-23) were transferred to *Azpeitia*.
- 6 *Actinocyclus trilingulatus* (Brightwell) Ralfs in Pritchard 1861.
See Foged (1975, pl. 5, fig. 5) and Desikachary and Prema (1987, pl. 336, fig. 6).
- 7-8 *Stephanopyxis turris* (Greville and Arnott) Ralfs in Pritchard 1861.
See John (1983, pl. 6, figs. 9-11).
- 9 *Azpeitia nodulifer* (Schmidt) Fryxell and Sims in Fryxell, Sims and Watkins 1986.
Refer to fig. 5 on this plate for additional notes.
- 10 *Campylodiscus decorus* de Brébisson 1854. See Grunow (1862, pl. 9, fig. 7).
- 11 *Surirella fastuosa* (Ehrenberg) Ehrenberg 1843. See Paddock (1985) for variety of forms.
- 12 *Diploneis smithii* form (?) (Brébisson in W. Smith) P.T. Cleve 1894. See Foged (1975, pl. 18, fig. 3) and the smaller forms found in Hustedt (1927-1966, fig. 1051).

- 13 *Amphora crassa* sensu Foged 1987. A doubtful identification. This frustule shows the outline of valves presented by Foged (1987, pl. 24, fig. 8) of a specimen from Viti Levu, Fiji. The references to *A. crassa* Gregory in Schoeman, Archibald and Sims (1986) appear to be correct, but do not support the reference of Foged (1975).
- 14 *Azpeitia nodulifer* (Schmidt) G. Fryxell and P.A. Sims in Fryxell, Sims and Watkins 1986. Refer to fig. 5 on this plate for additional notes.
- 15 *Plagiodiscus martensianus* Grunow and Eulenstein in Grunow 1867. See Desikachary (1989, pl. 672, figs. 1-11).
- 16 *Lyrella lyra* (Ehrenberg) Karajeva 1978. See Desikachary (1989, pl. 632, fig. 9) of a specimen from Singapore, referred to as *Navicula lyra*.
- 17 *Lyrella lyroides* (Hendey) Mann in Round, Crawford and Mann 1990. See Hustedt (1927-1966, fig. 1547).

Magnifications: figs. 1-9, 11-17: x750; fig. 10: x375

Scale Bar: scale bar is 40 microns for the figures at x750; 80 microns for fig. 10

