

Plate 3: MARINE DIATOMS FROM THE AZORES

Source of Material

South East coast of Faial, Caldeira Inferno. 38° 31' N; 28° 38' W.

An open crater of small volcano, shallow and sandy. Gathered from *Pinna* (molluscs) and stones. Date: June 1st, 1981.

Sample received from Hans van den Heuvel, Leiden on March 17th, 1988.

NOTE:

Material also deposited in Rijksherbarium Leiden, the Netherlands. Aliquot sample and slide also in collection Sterrenburg, Nr. 249

Plate Three:

- 65 *Diploneis bombus* Cleve-Euler in Backman and Cleve-Euler Backman 1922.
See Hendey (1964, pl. 32, fig. 2).
- 66-67 *Diploneis crabro* (Ehrenberg) Ehrenberg 1854. See Desikachary and Prema (1987, pl. 286, figs. 7, 9).
- 68-69 *Diploneis bombus* Cleve-Euler in Backman and Cleve-Euler Backman 1922.
See Schmidt's Atlas (1874-1959, pl. 69, figs 28-29) and Hustedt (1937, fig. 1086a-c).
- 70 *Diploneis fusca* (Gregory) Cleve 1894. For range of valve shapes, see Schmidt's Atlas (1874-1959, pl. 7, figs. 1-4) and Hendey (1964, pl. 32, fig. 4).
- 71 *Diploneis graeffii* (Grunow in Schmidt et al.) Cleve 1894. See Schmidt's Atlas (1874-1959, pl. 7, fig. 6) and Hustedt (1937, fig. 1078).
- 72 *Diploneis vacillans* var. *renitens* (Schmidt in Schmidt et al.) Cleve 1894. See Hendey 1970, pl. 5, fig. 47).
- 73-74 *Diploneis chersonensis* (Grunow) Cleve 1894. See Schmidt's Atlas (1874-1959, pl. 174, fig. 16) and Foged (1987, pl. 15, figs. 6-7)
- 75 *Diploneis bombus* Cleve-Euler in Backman and Cleve-Euler Backman 1922.
See Hustedt (1937, fig. 1086c).
- 76 *Diploneis exemta* (Schmidt in Schmidt et al.) Cleve 1894. See Schmidt's Atlas (1874-1959, pl. 69, fig.13).
- 77 *Achnanthes citronella* (A. Mann) Hustedt in Schmidt et al. 1937. See Foged (1975, pl. 9, fig. 13).
- 78 *Diploneis coffaeiformis* (Schmidt) Cleve 1894. See Hustedt (1937, fig. 1025).
- 79 *Achnanthes marginalis* Hendey 1958 (upper valve).
See Hendey (1958, pl. 1, fig. 3).

- 80 *Achnanthes brevipes* Agardh 1824. See Witkowski, Lange-Bertalot, and Metzeltin (2000, pl. 45, fig. 5-6).
- 81 *Diploneis vetula* (Schmidt in Schmidt et al.) Cleve 1894. See Hustedt (1937, fig. 1070) and Hendey (1964, pl. 32, fig. 6).
- 82 *Diploneis nitescens* (Gregory) Cleve 1894. See Gregory (1857, pl. 9, fig. 16) also Hustedt (1937, fig. 1047). Note double areolar rows near margin.
- 83 *Diploneis gemmata* (Greville) Cleve 1894. See Hustedt (1937, fig. 1050a) and Williams (1988, pl. 45, figs. 2-3).
- 84 *Diploneis graeffi* (Grunow in Schmidt et al.) Cleve 1894. See Hustedt (1937, fig. 1078).
- 85 *Navicula superimposita* Schmidt 1874. Appears to be a fair match to Peragallo and Peragallo (1897-1908, pl. XIII, fig. 23) and Schmidt's Atlas (1874-1959, pl. 46, fig. 61), but generic assignment is not clear.
- 86-87 *Navicula longa* (Gregory) Ralfs in Pritchard 1861. See Schmidt's Atlas (1874-1959, pl. 47, fig. 6), Van Heurck (1880-1885, pl. 25, fig. 716) and Hendey (1970, pl. 5, fig. 51).

Magnification: all figures: x1000

Scale Bar: scale bar is 30 microns at x1000

