

Plate 8. 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 Eight:

- 153 *Tabularia gaillonii* (Bory de Saint-Vincent) Ehrenberg 1830. See Peragallo and Peragallo (1897-1908, pl. 80, fig. 7) and Patrick and Reimer (1966, p. 148, pl. 6, fig. 16), as *Synedra gailloni*.
- 154 *Nitzschia macilenta* Gregory in Greville 1859. See Schmidt's Atlas (1974-1959, pl. 352, fig. 1).
- 155 *Alveus marinus* (Grunow) Kaczmarska and Fryxell 1996. See Kaczmarska and Fryxell (1996, fig. 1-19).
- 156 *Synedra fulgens* (Greville) W. Smith 1853. See Hustedt 1932, p.228, fig.717 d
- 157 *Synedra baculus* Gregory 1857. See Gregory (1857, p. 83, pl. 1, fig. 54) and Van Heurck (1880-81, pl. 42, fig. 9).
- 158 *Synedra formosa* Hantzsch in Rabenhorst 1863. See Hustedt (1932, p. 233, fig. 720).
- 159 *Synedra superba* Kützing 1844. See Desikachary (1989, pl. 738, figs. 8, 10) and W. Smith (1853-1856, pl. 12, fig. 102a). Could also be *Synedra gaillonii* (see fig. 153, on this plate). These species may require further evaluation using SEM.
- 160 *Hyalosynedra* (?) sp indet.
- 161 *Caloneis consimilis* (Schmidt) Cleve 1894. See Peragallo and Peragallo (1897-1908, pl. 9, figs. 1-2).
- 162 *Caloneis liber* (W. Smith) Cleve 1894. See Hendey (1964, pl. 29, fig. 2).
- 163 *Caloneis liber* var. *umbilicata* (Grunow in Schmidt et al.) Cleve 1894. See Peragallo and Peragallo (1897-1908, pl. 9, fig. 16).
- 164 *Lyrella* sp indet.
- 165 *Lyrella praetexta* Ehrenberg 1840. See Hustedt (1964, fig. 1488a-b), as *Navicula praexta*.

- 166 *Pleurosigma diverse-striatum* Meister 1935. See Sterrenburg (2002).
P. naviculaceum, a later synonym of *P. inflatum* Shadbolt, has a smaller raphe curvature and its structure is finer.
- 167 *Lyrella hennedyi* (W. Smith) Stickle and Mann in Round, Crawford and Mann 1990. See Henney (1964, pl. 33, fig. 14), as *Navicula hennedyi*.
- 168 *Navicula perplexa* Peragallo and Peragallo 1897. See Peragallo and Peragallo (1897-1908, pl. 23, fig. 13) and Henney (1964, pl. 33, fig. 13).
- 169 *Lyrella sandriana* (Grunow) Mann in Round, Crawford and Mann 1990. See Hustedt (1964, fig. 1481), as *Navicula sandriana*.
- 170 *Navicula (Lyrella) clavata* var. *impressa* Peragallo and Peragallo 1897 (No formal transfer to *Lyrella* can be found for this variety). According to VanLandingham (1968b, p. 2468) this equates to *N. clavata* Gregory (1856, p. 46, pl. 5, fig. 17), but the illustration in Peragallo and Peragallo (1897-1908, pl. 24, figs. 11- 13) looks sufficiently distinct from Gregory's to retain the var. *impressa*, which shows the impression opposite the central area at the inner edge of the striations.

Magnifications: figs. 153, 155: x2000; figs. 154, 156, 158: x750; all others: x1000

Scale Bar: scale bar is 40 microns for the figures shown at x750; 30 microns at x1000; 15 microns at x2000

