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.

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 gaillonii*.


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 praexta* Ehrenberg 1840. See Hustedt (1964, fig. 1488a-b), as *Navicula praexta*. 
*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 Hendey (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 Hendey (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