

## Plate 24. MARINE DIATOMS FROM THE GALAPAGOS ISLANDS

### Source of Material

Galapagos Islands, Santa Cruz. A very sparse sample collected by J.A. Broadhead August 16<sup>th</sup>, 1986.

Galapagos Islands, Santa Cruz. Sample 1, from Academy Bay (Puerto Ayora), south coast of Santa Cruz; skimming of thin surface film resulting from rising tide. Collected by Tui de Roy August 9<sup>th</sup>, 1991.

Galapagos Islands, Santa Cruz. Sample 2, from Academy Bay (Puerto Ayora), south coast of Santa Cruz; from thick silty mud covered in greenish algal slime on flat rock ledges at low tide. Collected by Tui de Roy August 9<sup>th</sup>, 1991.

Galapagos Islands, Santa Cruz. Sample 3, from Academy Bay (Puerto Ayora), south coast of Santa Cruz; from greenish-brown slime on mooring rope. Collected by Tui de Roy August 9<sup>th</sup>, 1991.

Sample #1 one bottle - very sparse.

Sample #2 four bottles - one unbleached (HCL rinsed); one heavy fraction; one sieved under 38 $\mu$ m and one sieved over 38 $\mu$ m.

Sample #3 four bottles - same sequence as for sample #2.

These samples are kept in the private collection of Stuart R. Stidolph and will eventually be deposited in the collections of NIWA, Wellington, New Zealand.

### Plate Twenty-four:

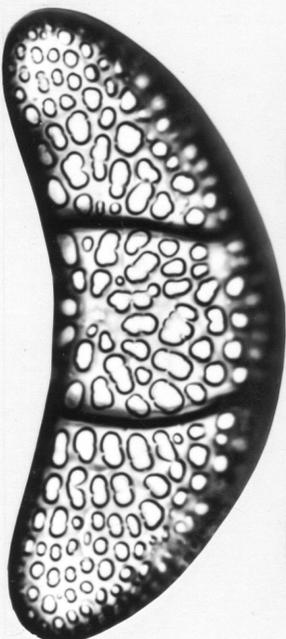
- 58 *Eunotogramma frauenfeldii* (Grunow) Grunow in Van Heurck 1883. See Grunow in Van Heurck (1880-1885, pl. 126, fig. 14) and also Hendey (1971, p. 385, figs. 16-18).
- 59 *Entomoneis centrospinosa* Osada and Kobayasi 1990. See Osada and Kobayasi (1990, p. 388, figs. 1-3). Although no spines could be detected on the specimen shown at x900 it is otherwise identical to the type.
- 60 *Frustulia asymmetrica* (A. Cleve) Hustedt 1954. See Hustedt (1954, p. 269, pl. 6, fig. 1) as a comb.nov. (Cleve) Hustedt.
- 61 *Frustulia interposita* (Lewis) De Toni 1891. See Hendey (1958, p. 59, pl. 6, fig. 3).
- 62 *Licmophora ehrenbergii* var. (?). The specimen depicted appears to be similar to

*L. ehrenbergii*, but the striae are strongly tilted in relation to the midline. This appears to be exceptional in the genus, where the striae are perpendicular to the midline and might warrant a separate specific status.

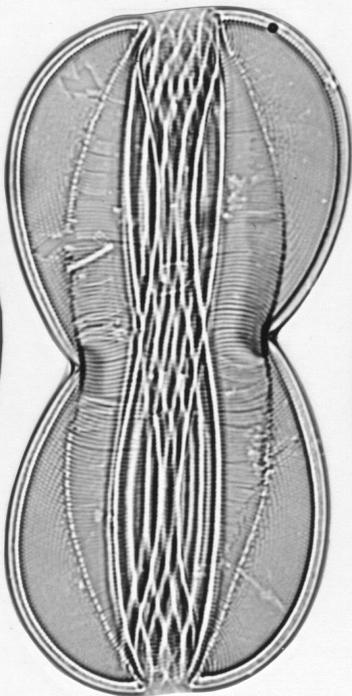
- 63 *Licmophora ehrenbergii* (Kützing) Grunow 1867. See Hustedt (1931, fig. 593b) and Honeywill (1998, p. 231, figs. 3b-c). Many separated valvocopulae with septa were seen in the material studied here and agree with fig. 3c of Honeywill.
- 64 *Grammatophora hamulifera* Kützing 1844. Agrees exactly with Hustedt (1931, fig. 566) although given by Henedy (1971, p. 389) as *G. angulosa* Ehr. See also Foged (1975, pl. 7, fig. 4).
- 65 *Grammatophora oceanica* Ehrenberg 1840. See Peragallo and Peragallo (1897-1908, pl. 87, fig. 14). See also Henedy (1951, p. 38, pl. 12, fig. 10); John (1983, pl. 18, fig. 4) and Foged (1987, pl. 5, fig. 11).
- 66-67 *Navicula nicobarica* Grunow 1863. See Grunow (1863, pl. 14, fig. 8), also Hustedt (1964, fig. 1457) and Foged (1975, pl. 20, fig. 6).
- 68 *Navicula pseudocomoides* Henedy 1964. See Henedy (1964, p. 192, pl. 30, fig. 2) given as nom. nov. See also Houpt (1987, p. 48, figs. 1-2).
- 69 *Amphora decussata* Grunow 1867. See Peragallo and Peragallo (1897-1908, pl. 49, fig. 24). See also Henedy (1964, p. 266, pl. 37, fig. 9) and Foged (1975, pl. 25, fig. 9).
- 70 *Amphora rhombica* var. *intermedia* Cleve 1895. See Meister (1935, pl. 6, fig. 51) also Ricard (1977, pl. 6, fig. 18) and Foged (1987, pl. 24, fig. 5).
- 71 *Amphora* sp. indet. Fig. 71a is in upper focus and fig. 71b is same specimen in lower focus.
- 72 *Amphora obtusa* Gregory 1857. See Schoeman and Archibald (1987, figs. 1-12).
- 73 *Amphora angusta* var. *ventricosa* (Gregory) Cleve 1895. See Peragallo and Peragallo (1897-1908, pl. 50, fig. 39). The identification given here is a good match for the figure in Peragallo and Peragallo (1897-1908), which lacks detail, however an exact match is presented in Witkowski, Lange-Bertalot and Metzeltin (2000, pl. 164, figs. 21-25) where it is ranked as “Seminavis spec. 164/5”.

Magnifications: figs. 58-59, 61-63, 65, 71: x1000; figs. 69-70, 72: x1500;  
figs 60, 64, 66-68, 73: x2000

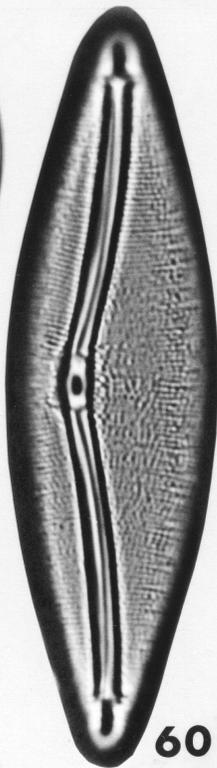
Scale Bar: scale bar is 30 microns for the figures shown at x1000; 20 microns at x1500;  
15 microns at x2000



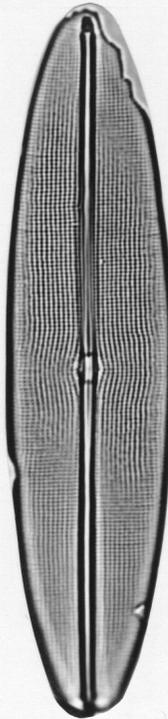
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59



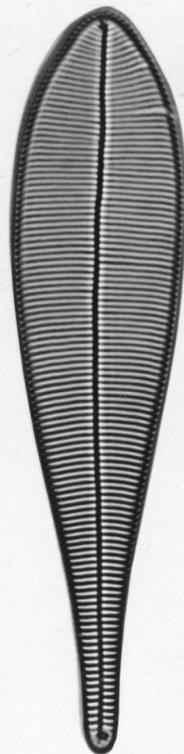
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61



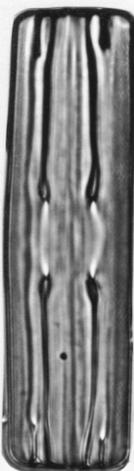
62



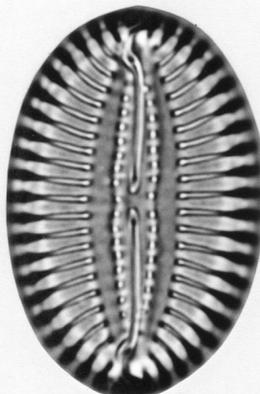
63



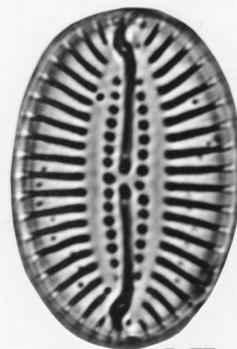
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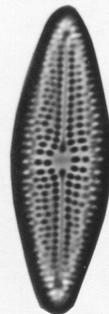
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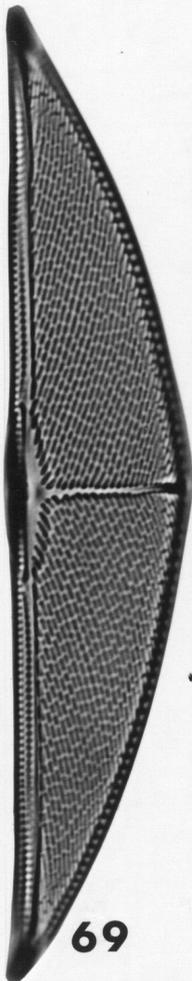
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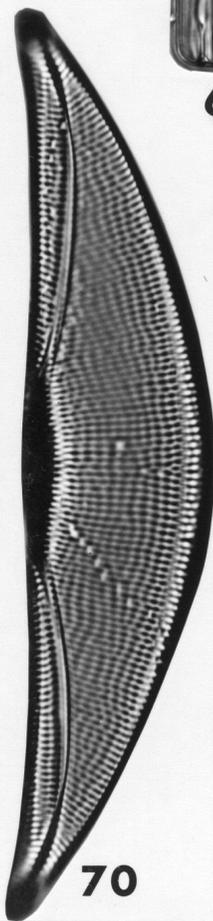
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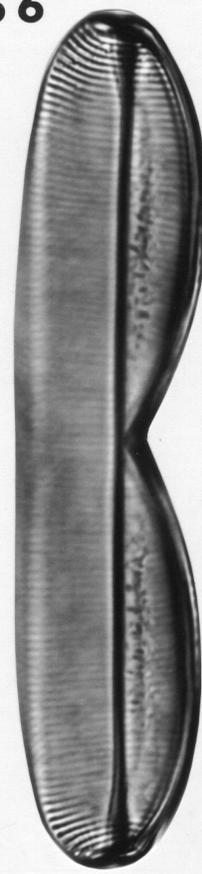


70



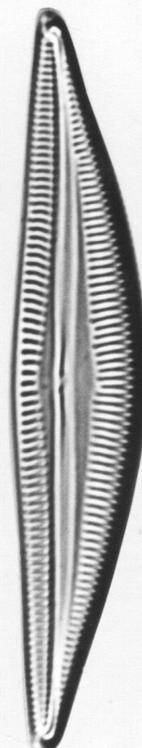
A

71



B

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