

- 23 **Eucampia zoodiacus** Ehrenberg. 1839

Loc. 408

- 24 **Melosira granulata** (Ehrenberg) Ralfs. 1861
ex Pritchard Infus., p. 920

1935 Frenguelli, Mar Chiquita, p. 123

1938 " , San Blás, p. 225

1941 " , Río de la Plata, p. 327

During the winter on the uruguayan coast (Müller Melchers) Brackish water remnant of the Río de la Plata plankton, may live in higher salinity during some time (MM).

Loc. 408

- 25 **Pleurosigma affine** Grunow. 1880

Loc. 338, 408, 412

- 26 **Pleurosigma elongatum** W. Smith. 1852
Ann. Mag. Nat. Hist., Vol. IX, p. 6

Loc. 338

- 27 **Raphoneis amphicerus** Ehrenberg. 1844

Ber. Berl. Akad., p. 87

1938 Frenguelli, San Blás, pl. V, fig. 5

The specimens found in 338 were exactly like this figure (Frenguelli). The smaller specimens formed chains stuck to a bit of mica. This species is often found in plankton (even if not regarded as a planktonic species).

Loc. 338

- 28 **Rhizosolenia Bergonii** H. Péracallo. 1892

Le Diatomiste, Vol. I, p. 110, pl. XV, f. 5

1937 Hendey, S. Seas, p. 312 (Warm water species. Tropical and sub tropical).

Loc. 338, Coast of Atlántida, Uruguay. (Müller Melchers).

- 29 **Rhizosolenia calcar avis** M. Schultze. 1858

Loc. 408, 412. Warm water species, oceanic.

- 30 **Rhizosolenia imbricata** Cleve

var. **Shrubsolei** Schröder. 1906

Loc. 408

- 31 **Stephanopyxis turris** (Greville and Arnott) Ralfs. 1857
Loc. 338
- 32 **Thalassionema nitzschioides** Grunow. 1888
Loc. 408
- 33 **Thalassiothrix Frauenfeldii** Grunow. 1880
Loc. 408. Oceanic temperate species.
- 34 **Thalassiothrix mediterraneum** Pavillard. 1916
Diat. Pélag. du Golfe de Lion, p. 39
Loc. 408. Temperate to subtropical species, known during the summer on the coast at Atlántida, Uruguay (Müller Melchers).
- 35 **Triceratium patagonicum** A. Schmidt. 1885
A. Schmidt Atlas. Plate 82, f. 8
Loc. 338
- 36 **Triceratium reticulum** Ehrenberg. 1854
Ber. Berl. Akad., p. 88
Loc. 338, 408

LITERATURE CITED

- BALECH E.
1949 Estudio crítico de las corrientes marinas Physis.
- BUEN - F. de
1953 Oceanografía frente a las costas uruguayas. Anales Museo Historia Natural, Montevideo, Vol. VI N° 1.
- FERRANDO H. J.
1957 Hipótesis sobre productividad en el área biooceanográfica correspondiente a los litorales marítimos de Argentina, Uruguay y Sur de Brasil. UNESCO, Montevideo.

algs. 1857

6

known during the
guay (Müller Mel-

ysis.

Anales Museo Histo-

oceanográfica corre-
tina, Uruguay y Sur**FRENGUELLI J.**

- 1928 Diatomeas del Océano Atlántico, Anales Museo, Hist. Nat. XXXIV.
 1930 Diatomeas Marinas de la Costa Atlántica idem XXXVI.
 1938 Diatomeas de la Bahía de San Blas Universidad La Plata
 1939 Diatomeas Rada Tilly idem
 1939 Diatomeas Golfo San Matias idem
 1941 Diatomeas del Río de la Plata idem
 1943 Diatomeas de las Orcadas del Sur idem

GAARDER K. R.

- 1951 Bacillariophyceae. Mich. Saars N. Atlant. Exped. 1910

HENDEY N. L.

- 1937 The Plankton Diatoms of Southern Seas Disc. Rep. XVI

HUSTEDT F.

- 1927-38 Die Kieselalgen

KARSTEN G.

- 1905 Deut. Tiefsee Exped. "Valdivia" Antarktische Meere
 1906 idem Atlantischer Ocean

MANGIN L.

- 1915 Phytoplankton Antaretique "Pourquois Pas."

MANGIN E.

- 1954 Diatomées mar. prov. de Heard Island.

MARQUES DA CUNHA E OLIVEIRA DA FONSECA.

- 1917 Microplankton do Atlantico de Mar del Plata. Osw. Cruz Tomo LX.

MULLER MELCHERS F. C.

- 1949 Chaetoceros de Atlántida. Lilloa XIX. Tucumán.
 1951 Actinoptychus Frenguelli Physis XX. 58. B. Aires.
 1952 Biddulphia chinensis Com. Botan. Museo H. Nat. Montevideo II. 26.
 1953. Sobre algunas diatomeas plankt. de Atlántida Physis XX. 59. B. A.
 1953 New and little known Diatoms S. Atlant. Ocean C. Bot. III. 30.
 1955 Diatomeas como indicadores de corrientes. Symposium UNESCO
 Sao Paulo. Nov. 1955.
 1955 Diatomeas del Plankton Marino. Costas del Brasil Bol. Inst. Oceanográfico Sao Paulo. Tom. VI.

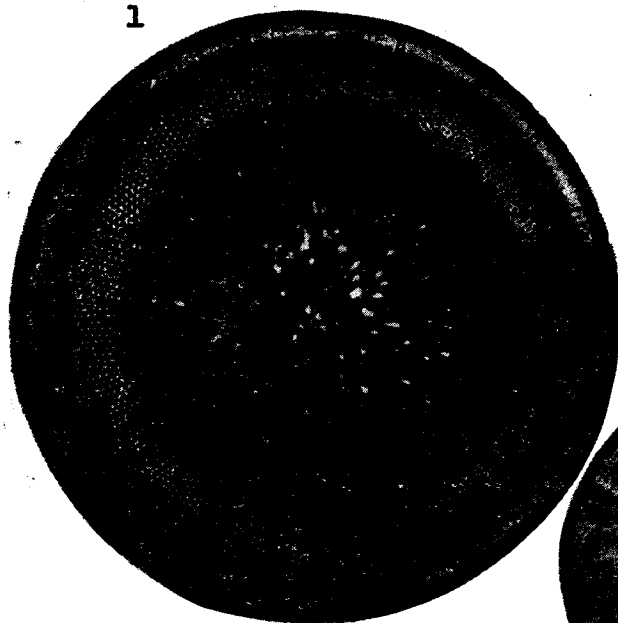
RATTRAY J.

- 1890 Revision of the genus Coscinodiscus.

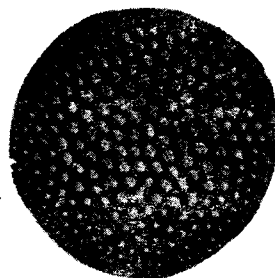
PLATE I

- 1 *Actinocyclus atlanticus* n. sp.
- 2 *Coscinodiscus perforatus* Ehrenberg.
- 3 *Coscinodiscus asteromphalus* var. *pabellanica* Grunom.
- 4 *Coscinodiscus devius* A. Schmidt.
- 5 *Actinoptychus splendens* (Shadb.) Ralfs.
- 6 *Actinoptychus Frenguelli* Müller Melchers.

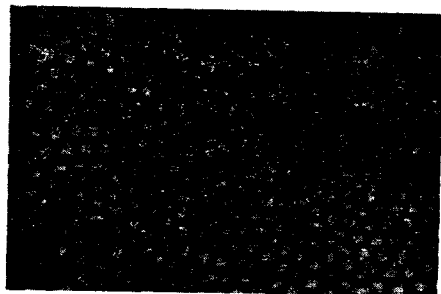
1



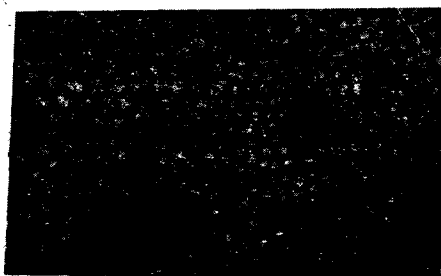
4



2



3



5



6



PLATE II

- 7 *Biddulphia chinensis* Greville
- 8 *Stephanopyxis Palmeriana* (Grev.) Grunow.
- 9 *Rhabdonema arcuatum* (Lyngb. ? Ag.) Kützing in valve view.
- 10 in girdle view.
- 11 *Climacosphenia moniligera* Ehrenberg.

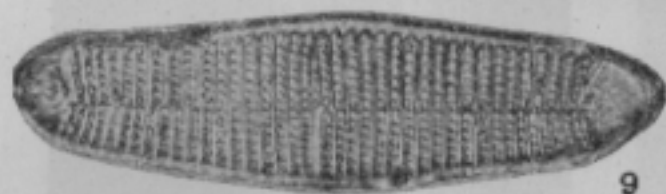
7



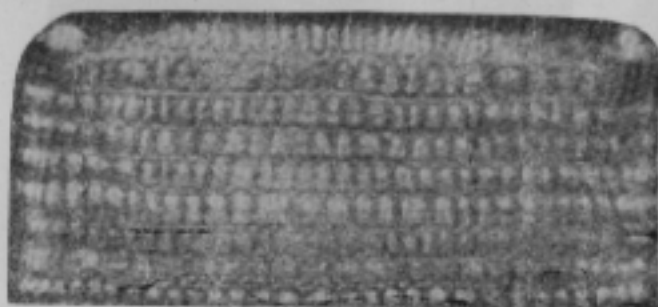
8



11



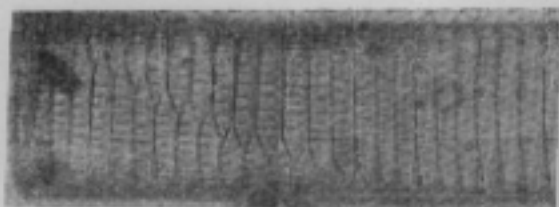
9



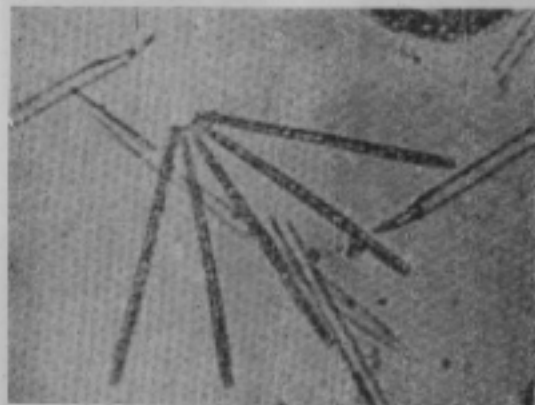
10

PLATE III

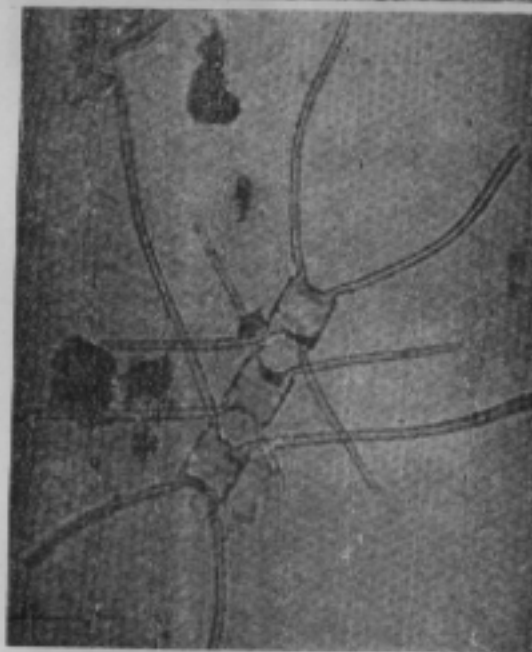
- 12 *Dactyliosolen antarctica* Castracane.
- 13 *Thalassiothrix Frauenfeldii* Grunow.
Rhizosolenia alata var. *gracillima* (Cleve) Grunow
- 14 *Chaetoceros atlanticus* Cleve.
- 15 *Chaetoceros criophilus* Castracane.
- 16 *Chaetoceros peruvianus* Brightwell.



12



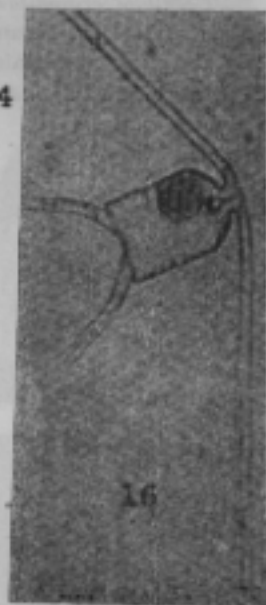
13



14



15



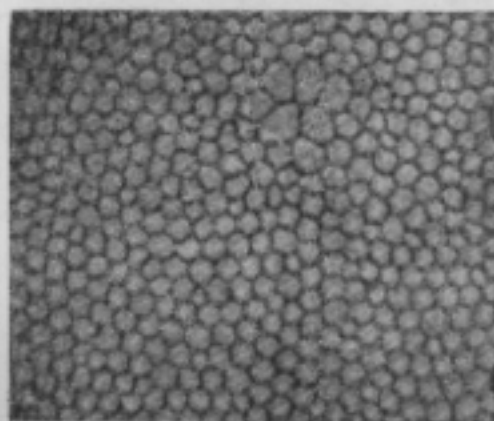
16

PLATE IV

- 17 *Rhizolenia curvata* Zacharias.
- 18 *Rhizolenia styliformis* Brightwell.
- 19 *Coscinodiscus oculus iridis* Ehrenberg
- 20 *Corethron criophilum* Castracane, resting spore.
- 21 *Fragilariopsis antarctica* (Castr.) Hustedt.
- 22 *Triceratium reticulum* Ehrenberg.
- 23 *Pleurosigma affine* Grunow.



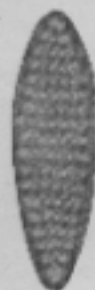
17



20

19

21



22



18

23

