

Plates

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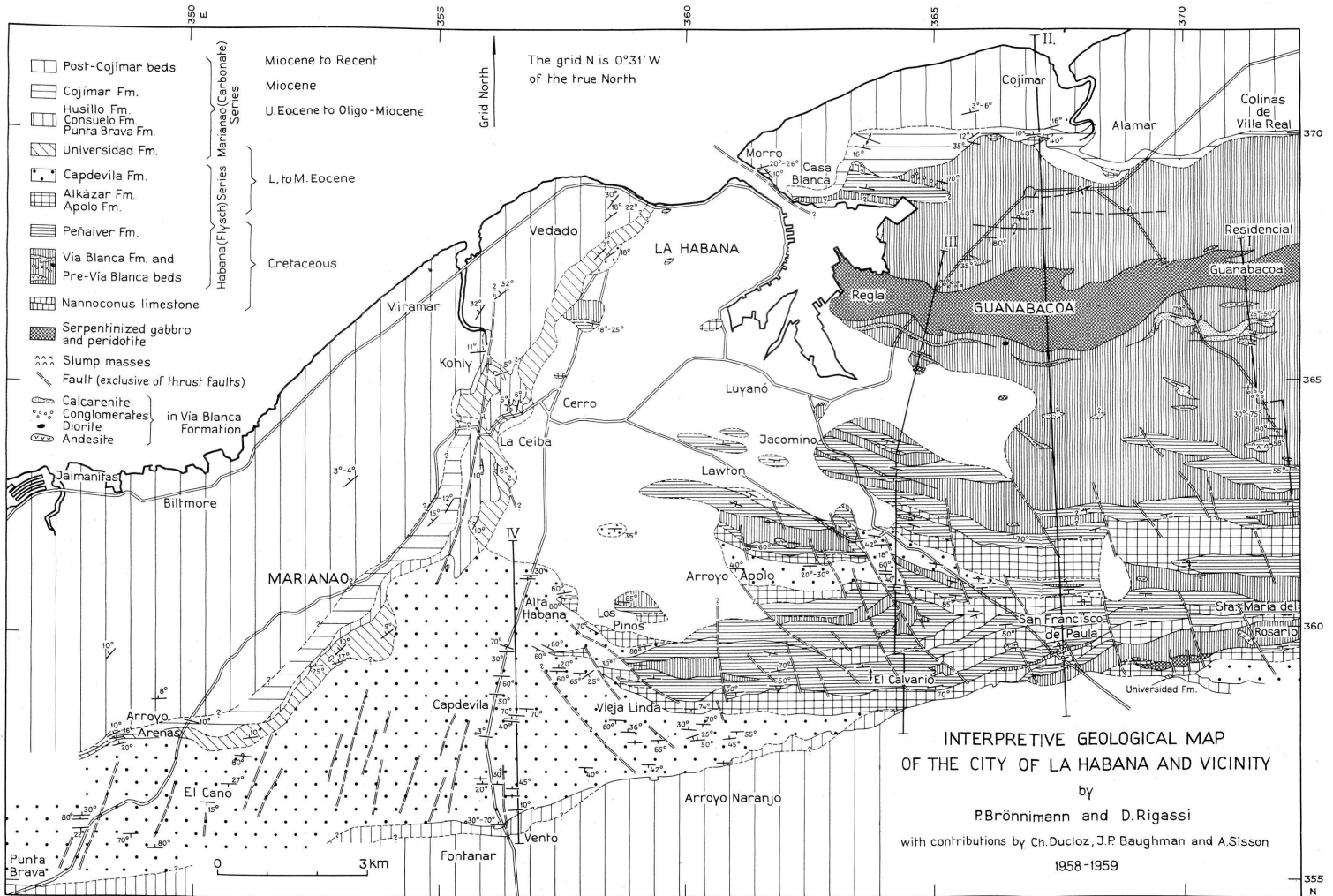
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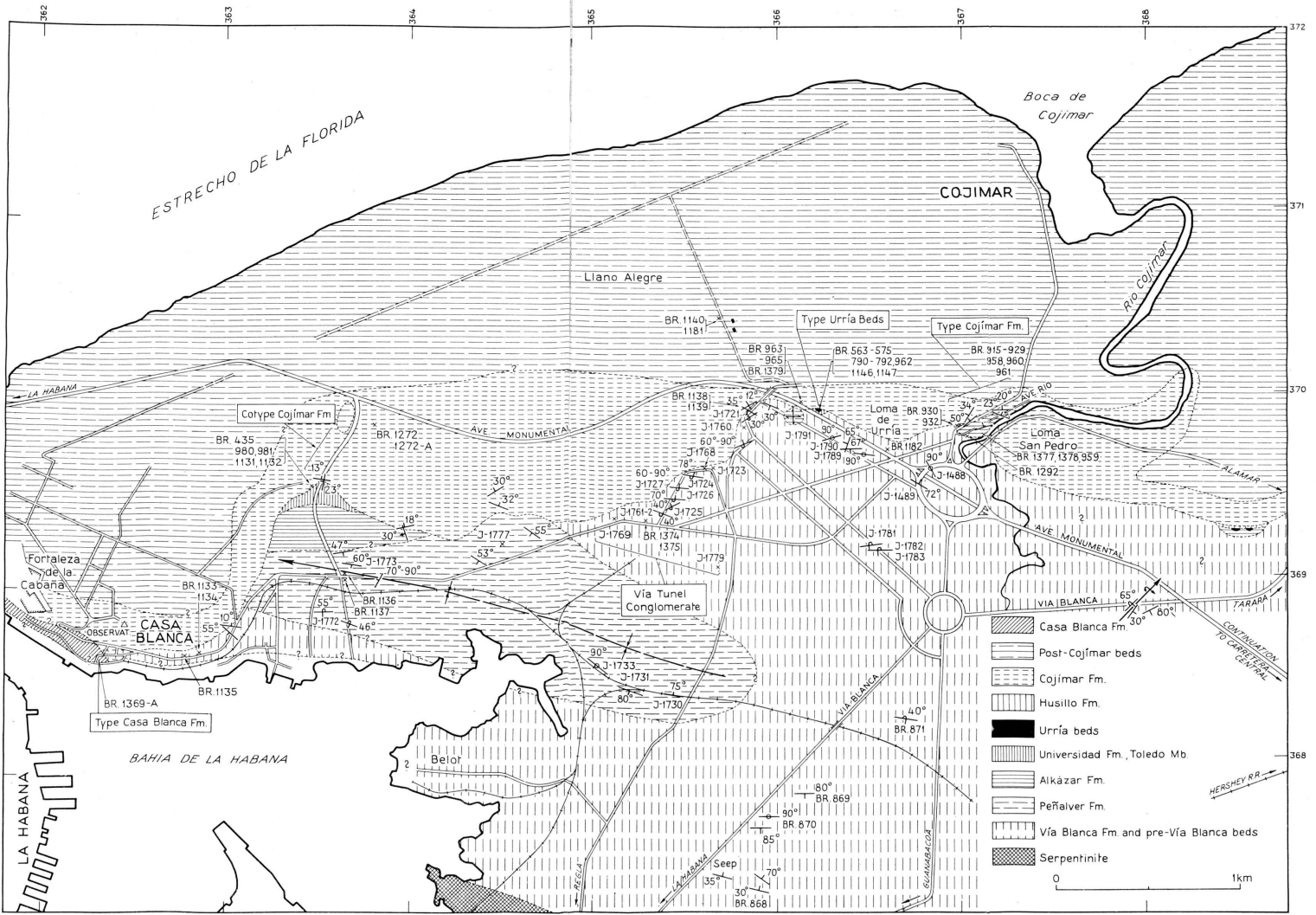
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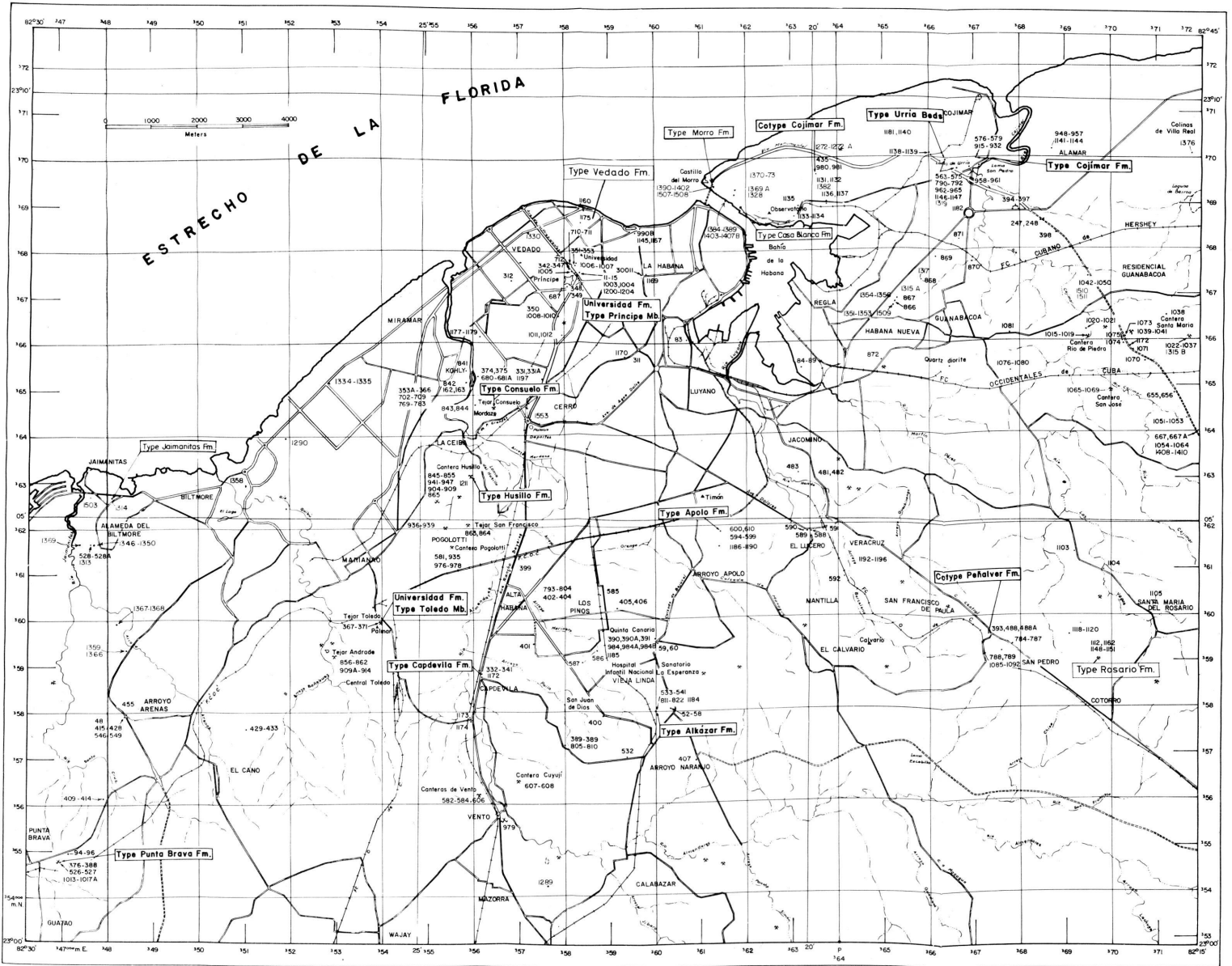
CORRELATION CHART HABANA AREA

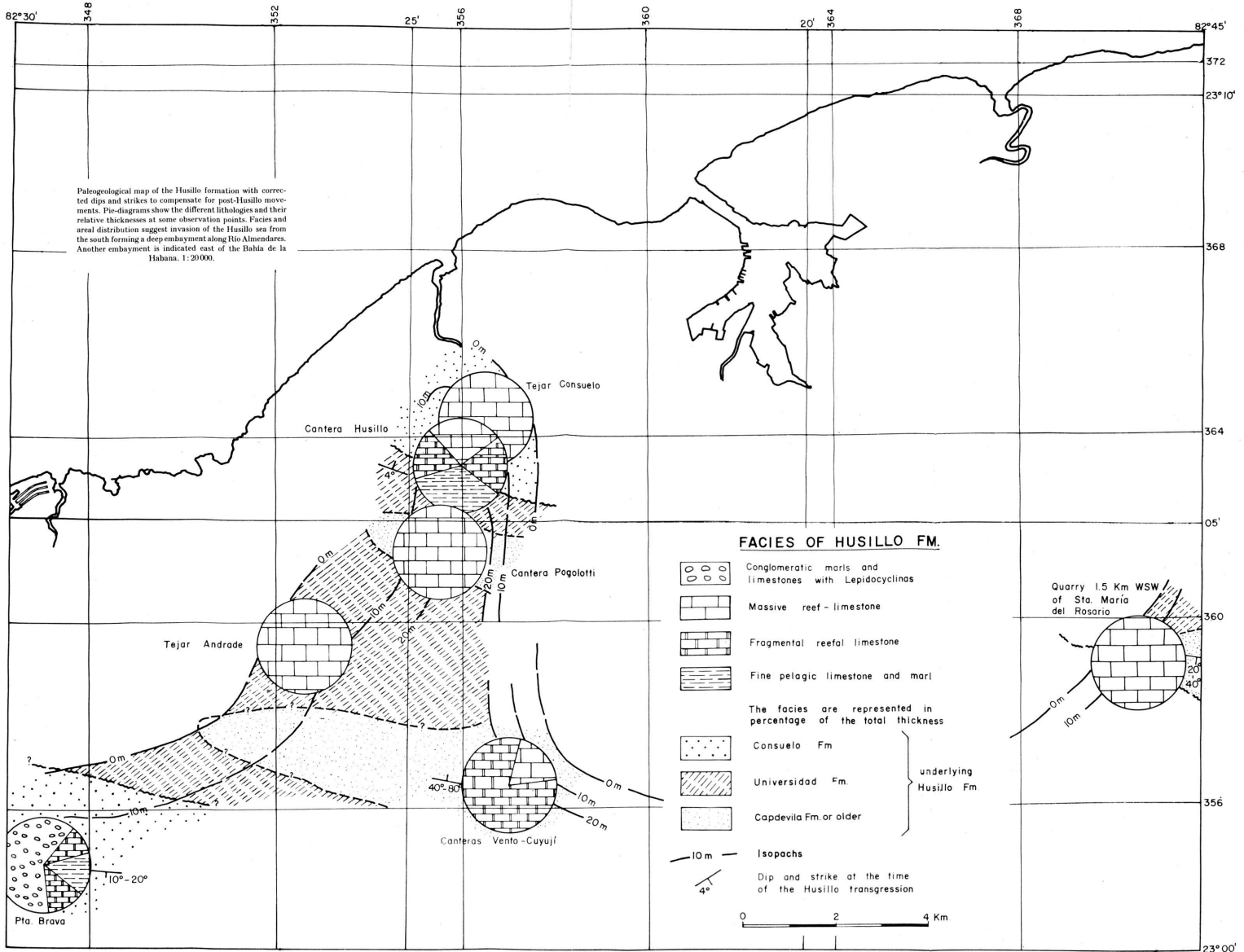
Geological correlation chart for the Habana Area. The chart is organized into columns for different geological units and facies, and rows for geological stages and zones. Key units include Punta Brava, Jaimanitas, Tejar Andraze, Cantera Husillo, Almendares, Capdevila, Arroyo Naranjo, Plaza de la Republica, Casa Blanca, Continuation Via Monumental, San Francisco de Paula, and Santa Maria del Rosario. Geological stages shown include Recent, Pleistocene, Pliocene, Oligocene-Miocene, Eocene, Lower, and Mesozoic and Older. Zones include larger foraminifera, Discoaster, Operculinoides, and others. The chart uses various shading patterns to indicate stratigraphic relationships and correlations between different sites.

* Zonation not definitely established









Paleogeological map of the Husillo formation with corrected dips and strikes to compensate for post-Husillo movements. Pie-digrams show the different lithologies and their relative thicknesses at some observation points. Facies and areal distribution suggest invasion of the Husillo sea from the south forming a deep embayment along Rio Almendares. Another embayment is indicated east of the Bahía de la Habana. 1:20000.

Quarry 1.5 Km WSW of Sta. Maria del Rosario

Pta Brava

Tejar Andrade

Cantera Husillo

Tejar Consuelo

Cantera Pogolotti

Canteras Vento-Cuyuji

0m
10m
20m
40m

10°-20°

40°-80°

23°00'

82°30'

348

352

25'

356

360

20'

364

368

82°45'

23°10'

368

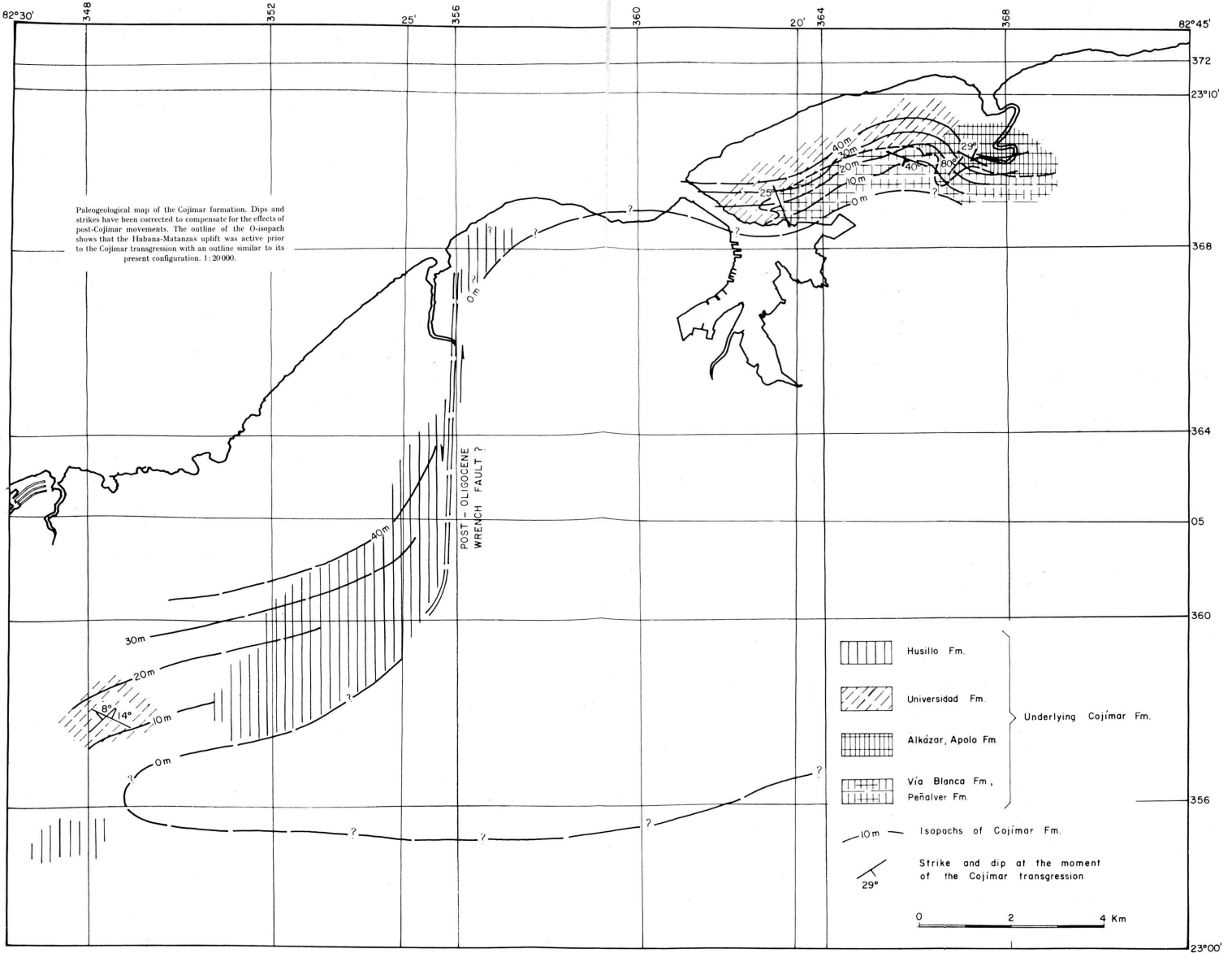
364

05'

360

356

23°00'



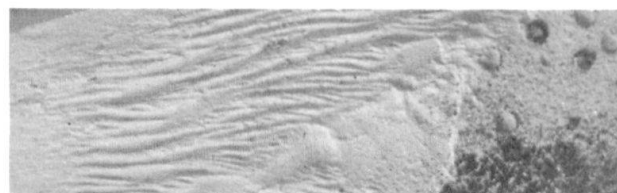


Plate VIII

Figs. 1-3. "Hieroglyphic" markings formed by sandy material filling animal borings on mud surface.

Fig. 1. Baughman station 1743. 2.2 ×.

Figs. 2, 3 Baughman station 1944. 2.2 ×.

SEILACHER (1959, p. 1070, text-fig. 29, Tabelle II) explains the forms illustrated by fig. 1 as "Langgestreckte Gangfüllung mit wenigen geweihartigen Verzweigungen. Ursprünglich mit Tonpillen austapeziert, daher stets scharf von der umgehenden Schichtfläche abgesetzt" (cf. *Granularia* POMEL). Our fig. 3 may be identical with SEILACHER's problematic form illustrated by his text-fig. 35, Tabelle II (*Terebellina* ULRICH).

Fig. 4. Ripple mark on top of sandy bed. Baughman station 2037. 1.5 ×.

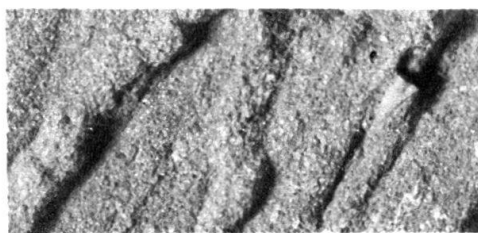


Plate IX

Figs. 1-6. Chondrites of different types from the calcilutite in the upper part of the Vía Blanca formation, continuation of the Avenida Monumental. BR stations 667 and 667 A.

Fig. 1 1.7 ×.

Fig. 2. Detail of surface structure. 2.2 ×.

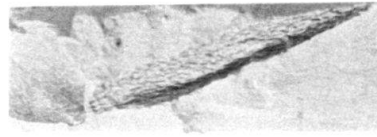
Figs. 3, 4 1.8 ×.

Figs. 5, 6 2.2 ×.

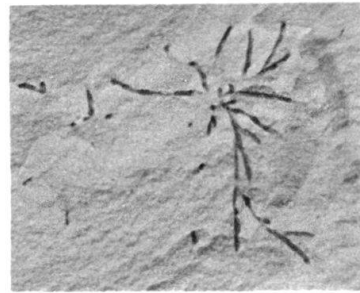
SEILACHER (1959, p. 1072, Tabelle III, text-fig. 50) refers the form illustrated by our fig. 1 to *Chondrites* ("Fressbau"). Figs. 3 and 4 are identical with SEILACHER's fig. 49, Tabelle 3, referred to *Chondrites intricatus* BROGNIART. Figs. 5 and 6 appear to be intermediate forms of *Chondrites* and fig. 2 shows the filling of the "Fressbau" with ellipsoidal coprolites.



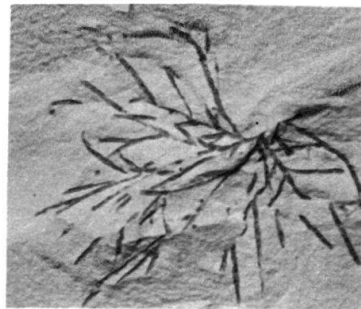
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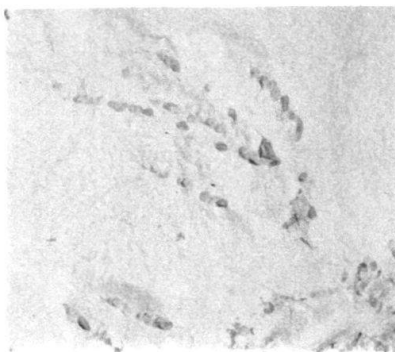
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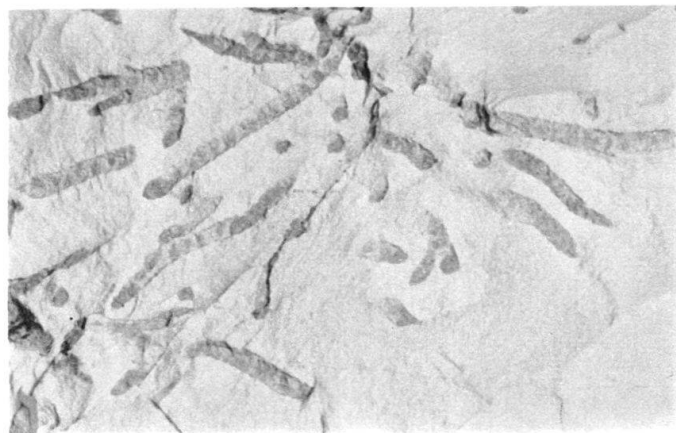
3



4



5



6

Plate X

- Fig. 1. *Discoaster multiradiatus* BRAMLETTE and RIEDEL
a) Facies superior
b) Facies inferior
- Fig. 2. *Discoaster bebalaini* (TAN SIN HOK) nov. comb.
a) Facies superior
b) Facies inferior
- Fig. 3. *Discoaster aecus* BRÖNNIMANN and STRADNER
a) Facies superior
b) Facies inferior
- Fig. 4. *Discoaster geometricus* BRÖNNIMANN and STRADNER
a) Facies superior
b) Facies inferior

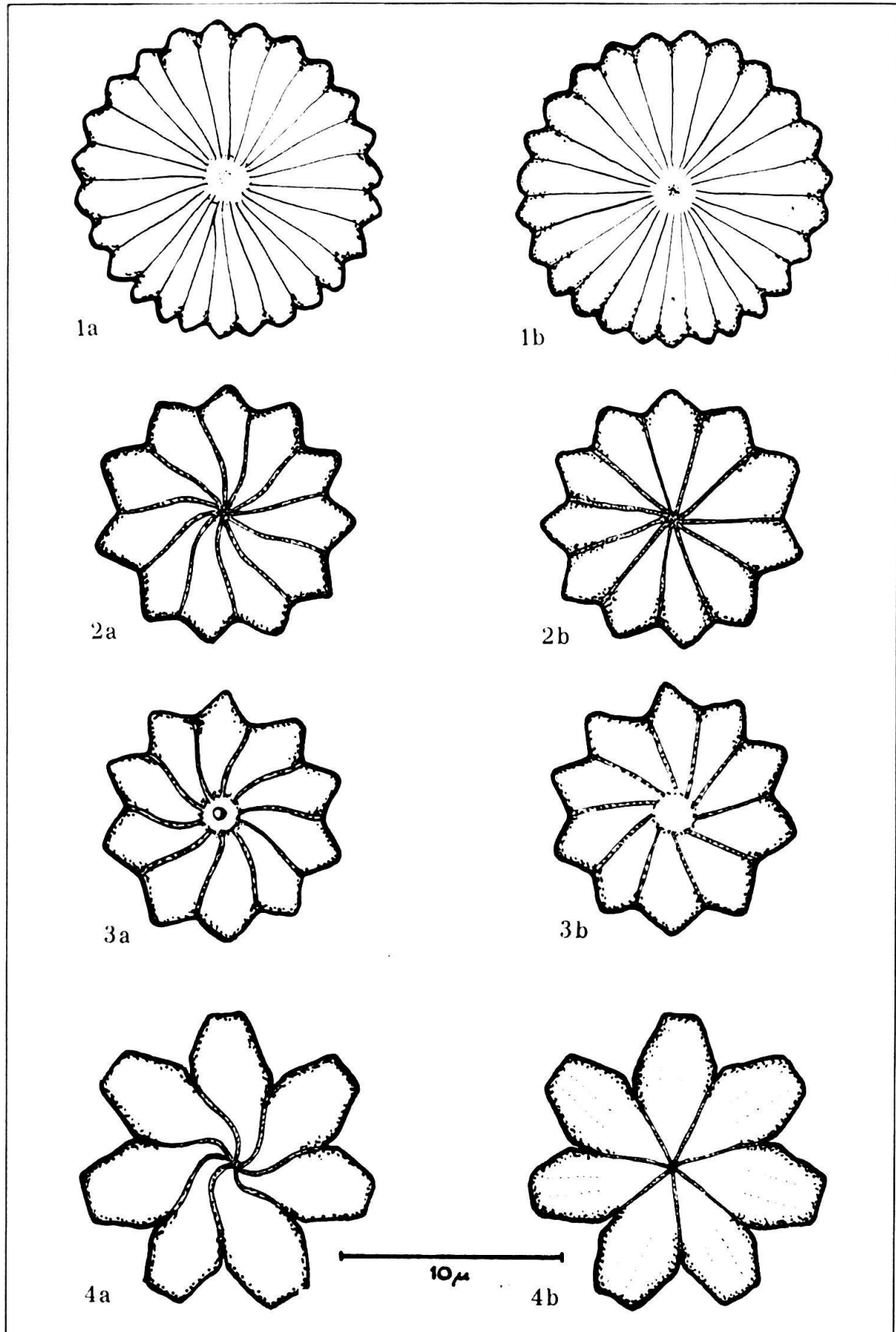


Plate XI

- Fig. 1. *Discoaster uncinatus* BRÖNNIMANN and STRADNER
a) Facies superior
b) Facies inferior
- Fig. 2. *Discoaster lodoensis* BRAMLETTE and RIEDEL
a) Facies superior
b) Facies inferior
- Fig. 3. *Discoaster hilli* TAN SIN HOK
a) Facies superior
b) Facies inferior
- Fig. 4. *Discoaster mirus* DEFLANDRE
a) Facies superior
b) Facies inferior

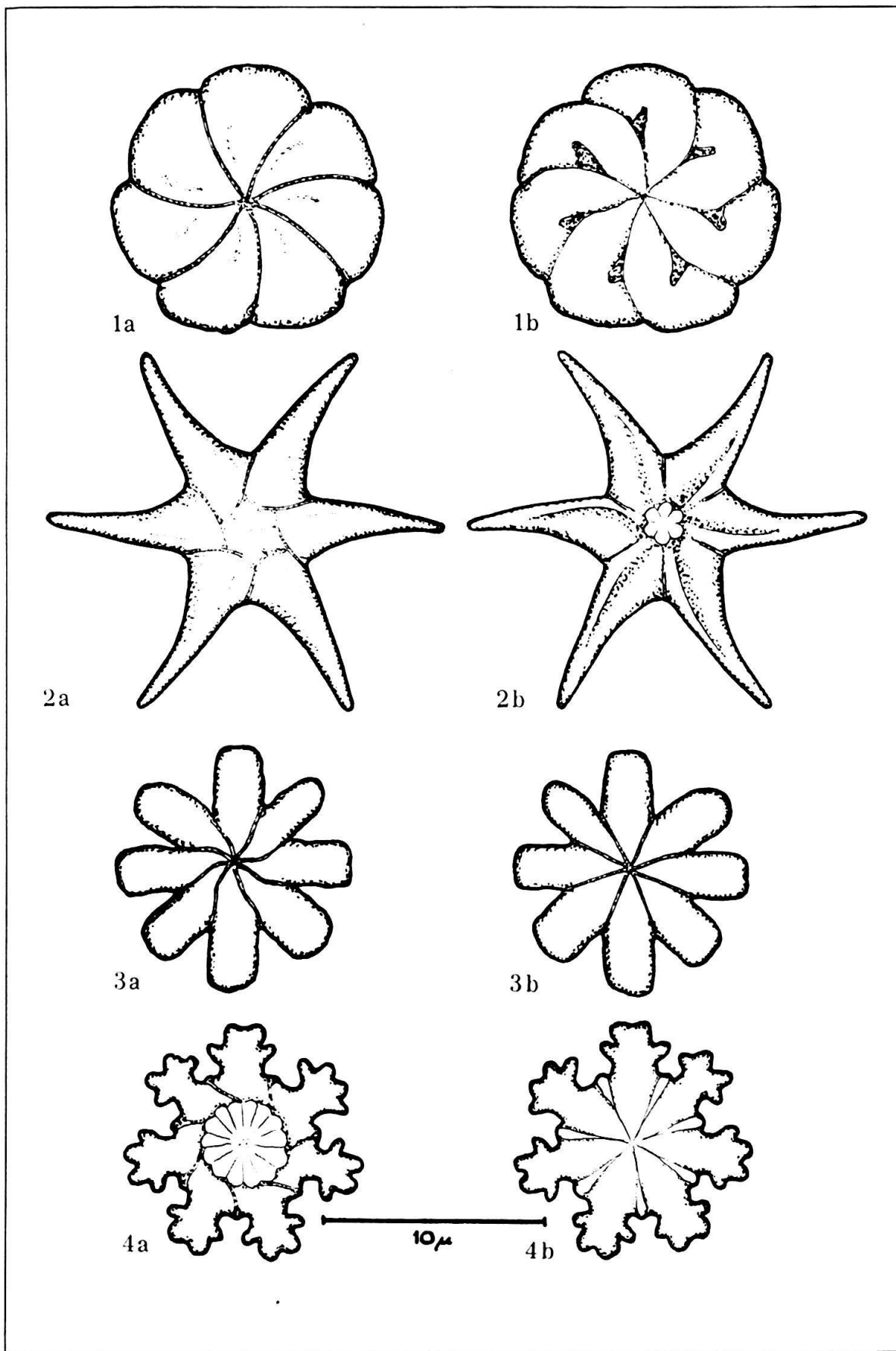


Plate XII

Fig. 1. *Discoaster binodosus* MARTINI

- a) Facies superior
- b) Facies inferior

Fig. 2. *Discoaster corniger* SHAMRAY and LAZAREVA

- a) Facies superior
- b) Facies inferior

Fig. 3. *Discoaster* cf. *molengraaffi* TAN SIN HOK

- a) Facies superior
- b) Facies inferior

Fig. 4. *Discoaster* cf. *woodringi* BRAMLETTE and RIEDEL

- a) Facies superior
- b) Facies inferior

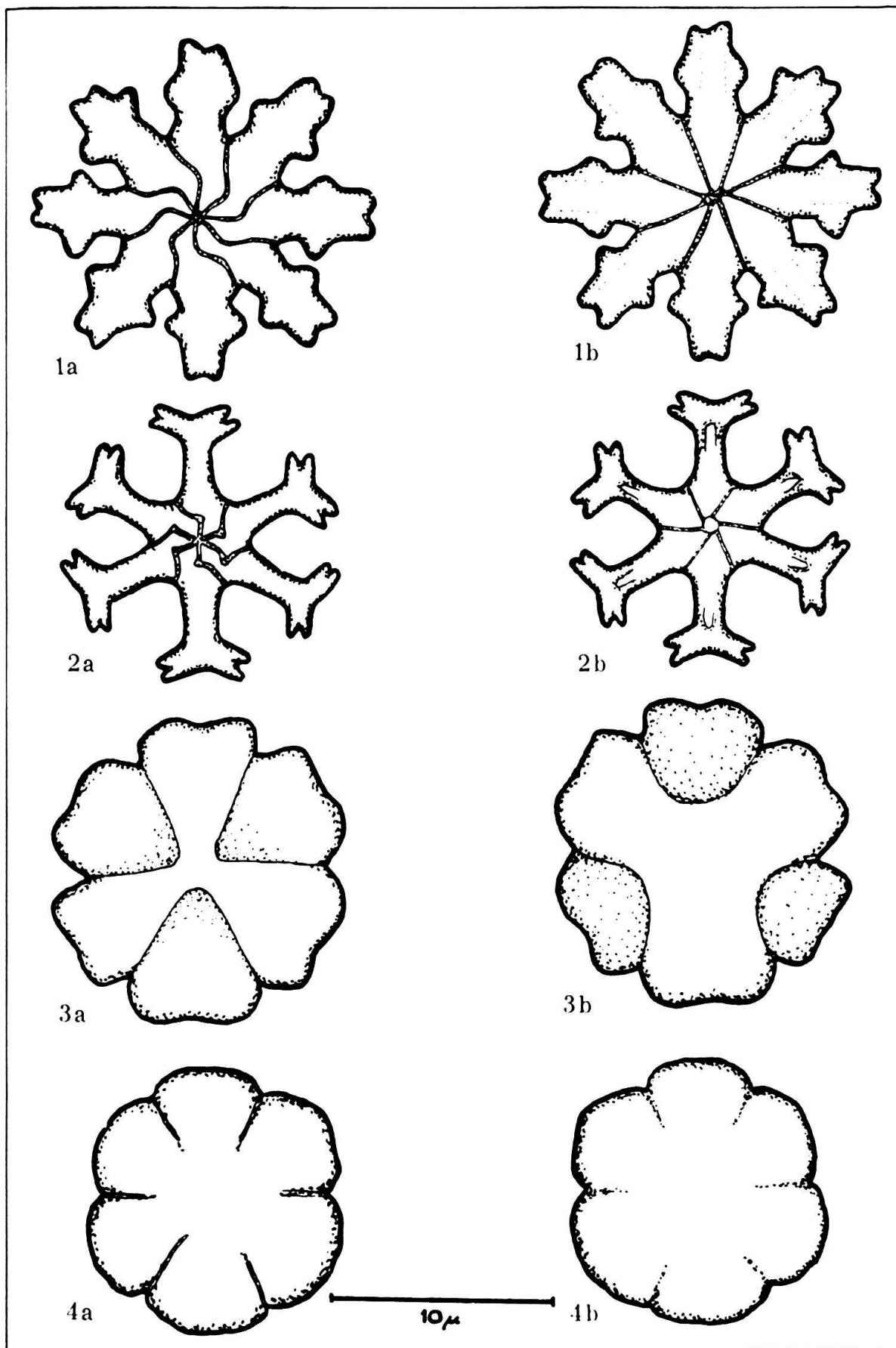


Plate XIII

- Fig. 1. *Marthasterites contortus* (STRADNER) DEFLANDRE
a) Facies superior
b) Facies inferior
- Fig. 2. *Marthasterites bramlettei* BRÖNNIMANN and STRADNER
a) Facies superior
b) Facies inferior
- Fig. 3. *Marthasterites riedeli* BRÖNNIMANN and STRADNER
a) Facies superior
b) Facies inferior
- Fig. 4. *Marthasterites tribrachiatus* (BRAMLETTE and RIEDEL) DEFLANDRE
a) Facies superior
b) Facies inferior

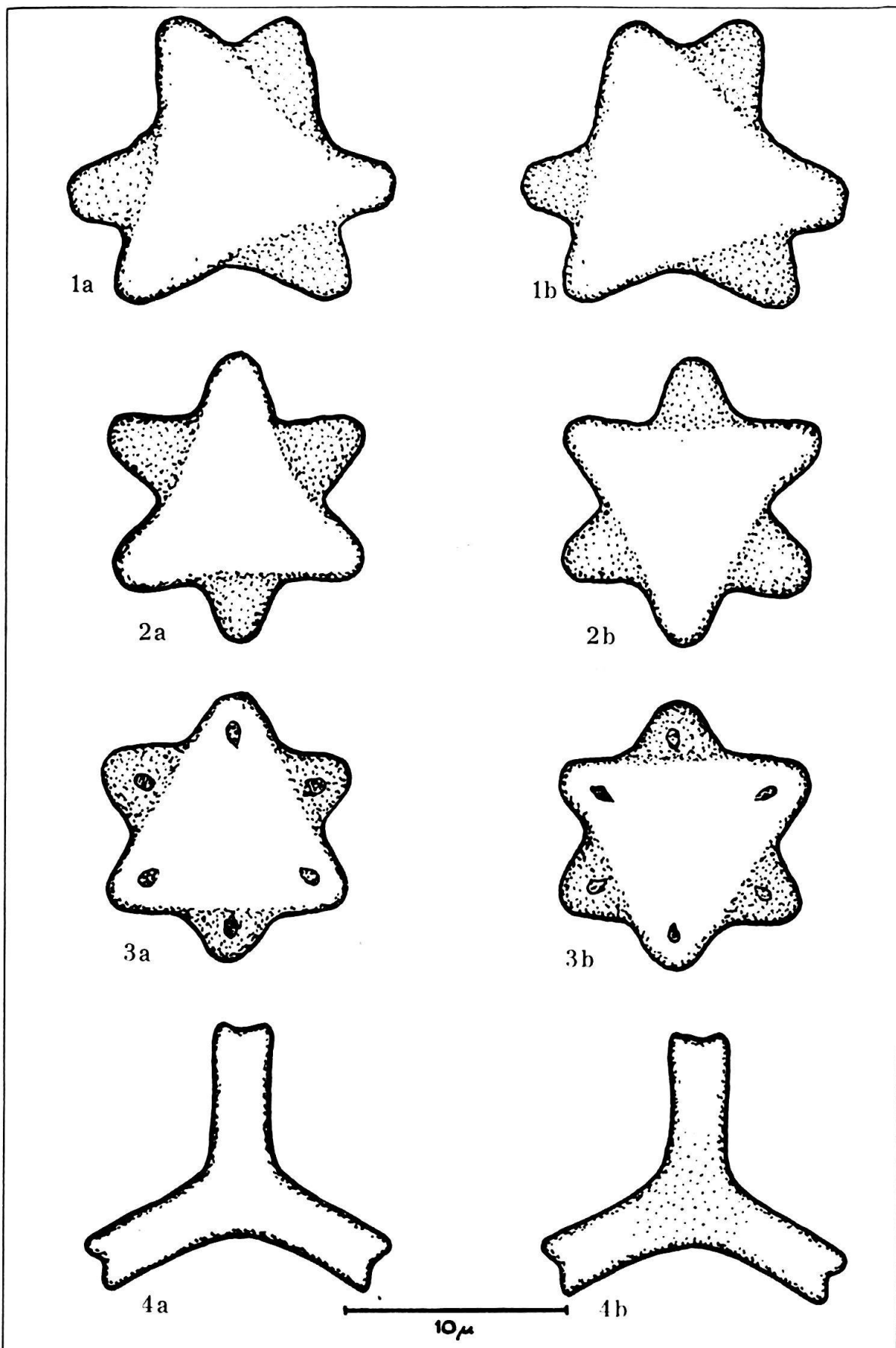


Plate XIV

- Fig. 1. *Nannotetraster swasticoides* (MARTINI) MARTINI and STRADNER
a) Facies superior
b) Facies inferior
- Fig. 2. *Braarudosphaera bigelovi* (GRAN and BRAARUD) DEFLANDRE
a) Facies distalis
b) Facies proximalis
- Fig. 3. *Braarudosphaera discula* BRAMLETTE and RIEDEL
a) Facies distalis
b) Facies proximalis
- Fig. 4. *Braarudosphaera undata* STRADNER
a) Facies distalis
b) Facies proximalis

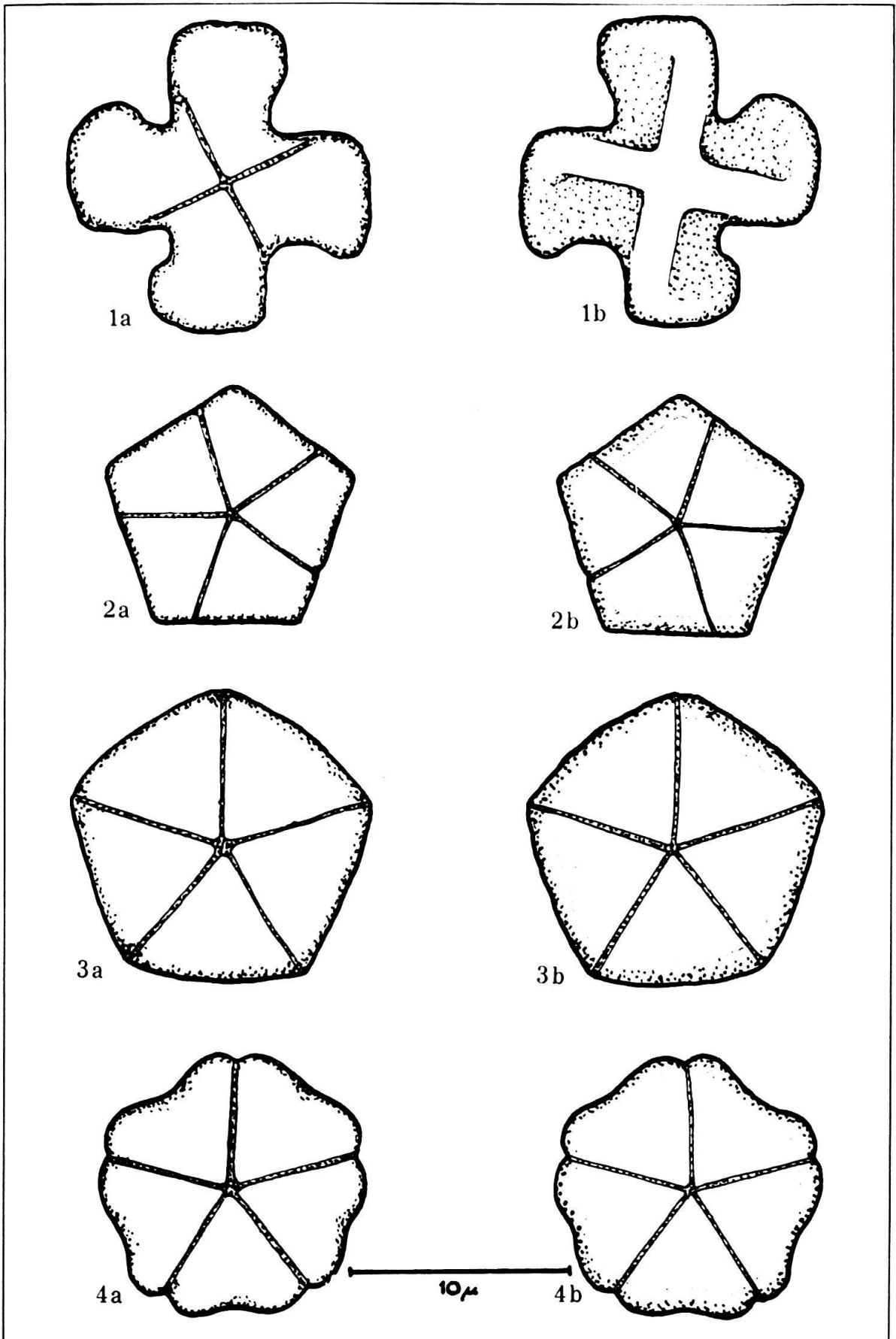


Plate XV

Fig. 1. *Micrantholithus vesper* DEFLANDRE

- a) Facies distalis
- b) Facies proximalis

Fig. 2. *Nannoturbella moriformis* BRÖNNIMANN and STRADNER

- a) Basal view
- b) Side view
- c) In polarized light

Fig. 3. *Heliorthus fallax* BRÖNNIMANN and STRADNER

- a) Facies distalis
- b) Facies proximalis
- c) In polarized light (different scale)
- d) Side view
- e) Facies proximalis of a paratype with more rugged outline
- f) Facies distalis of a paratype with slender cross and rim

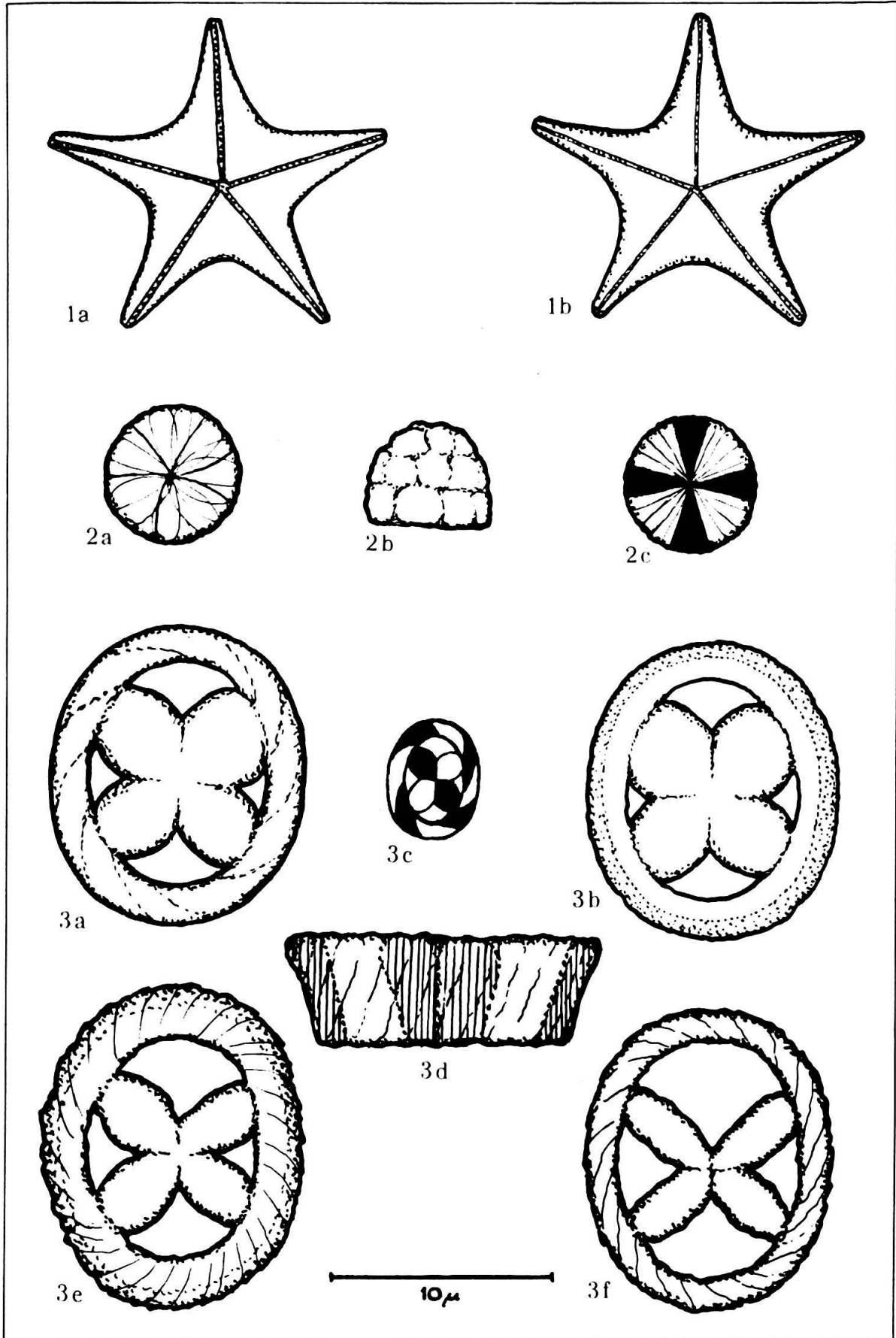


Plate XVI

- Fig. 1. *Rugotruncana gansseri* (BOLLI)
Baughman station 1802, Maastrichtian
95×
- Fig. 2. *Globotruncana contusa* (CUSHMAN)
Baughman station 1805, Maastrichtian
60×
- Fig. 3. *Trinitella scotti* BRÖNNIMANN
Sisson station 156, Maastrichtian
95×

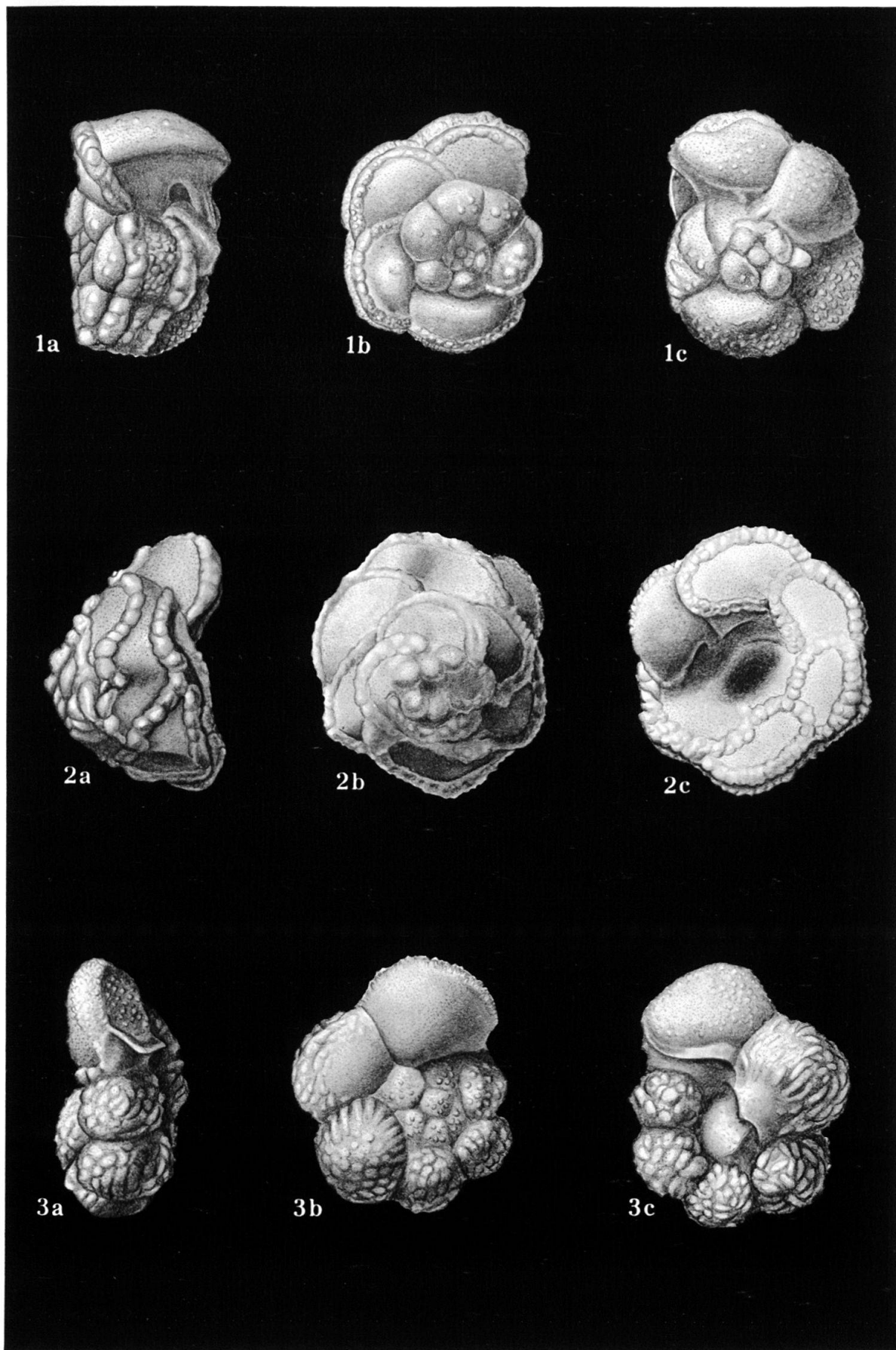


Plate XVII

- Fig. 1. *Rugotruncana calcarata* (CUSHMAN)
Baughman station 1839 B, Campanian
62×
- Fig. 2. *Globotruncanella havanensis* (VOORWIJK)
Baughman station 1839 B, Campanian
62×
- Fig. 3. *Globotruncana fornicata* PLUMMER
Baughman station 1839 B, Campanian
62×
- Fig. 4. *Gublerina ornatissima* (CUSHMAN and CHURCH)
Sisson station 156, Maastrichtian
62×
- Fig. 5. *Globotruncana linneiana* (D'ORBIGNY)
Baughman station 1839 B, Campanian
62×

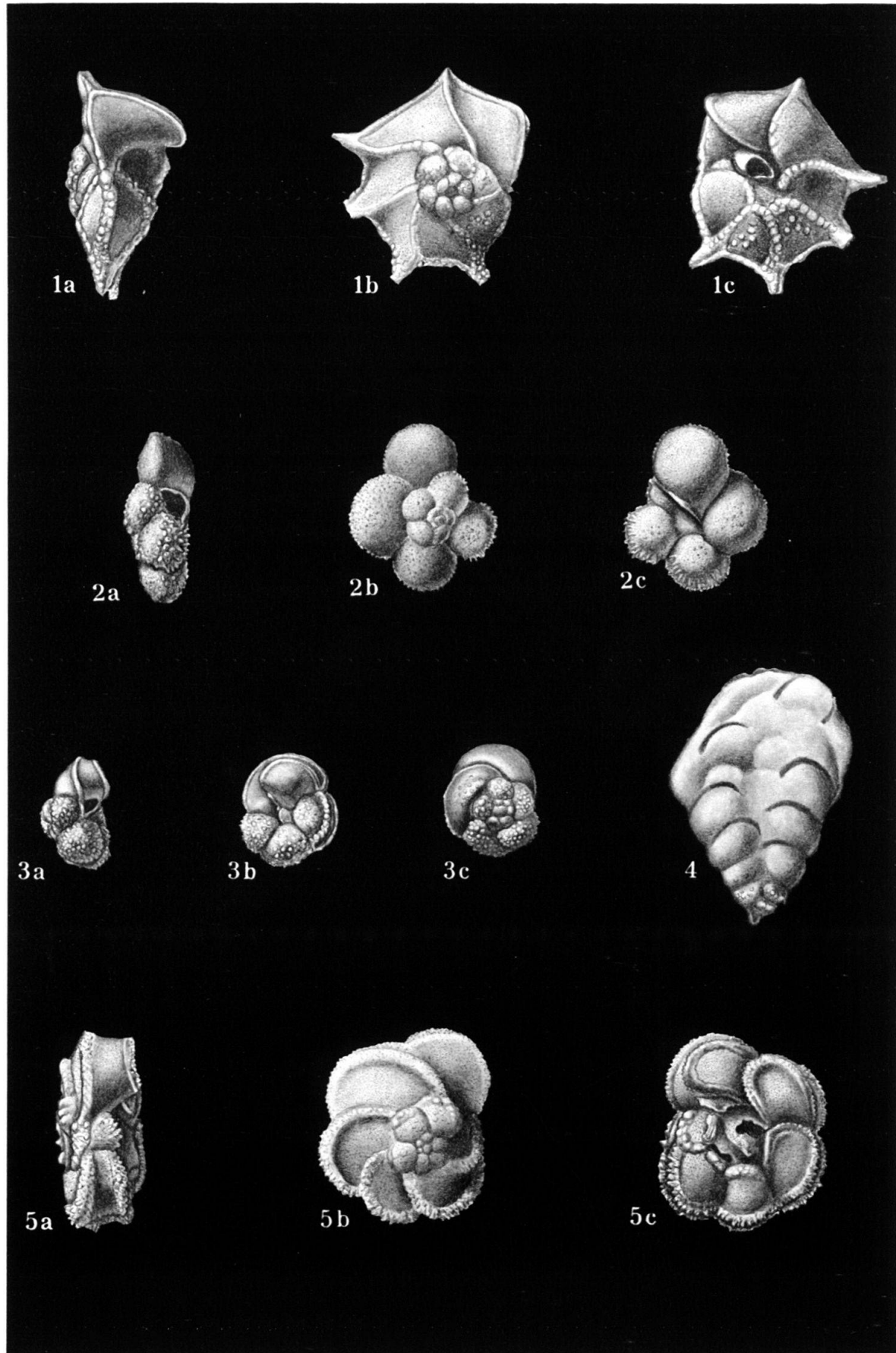


Plate XVIII

- Fig. 1. *Rugoglobigerina rugosa rugosa* (PLUMMER)
Sisson station 156, Maastrichtian
92 ×
- Fig. 2. *Rugoglobigerina macrocephala macrocephala* BRÖNNIMANN
Sisson station 156, Maastrichtian
92 ×
- Fig. 3. *Ticinella roberti* (GANDOLFI)
Sisson station 148, Cenomanian
92 ×

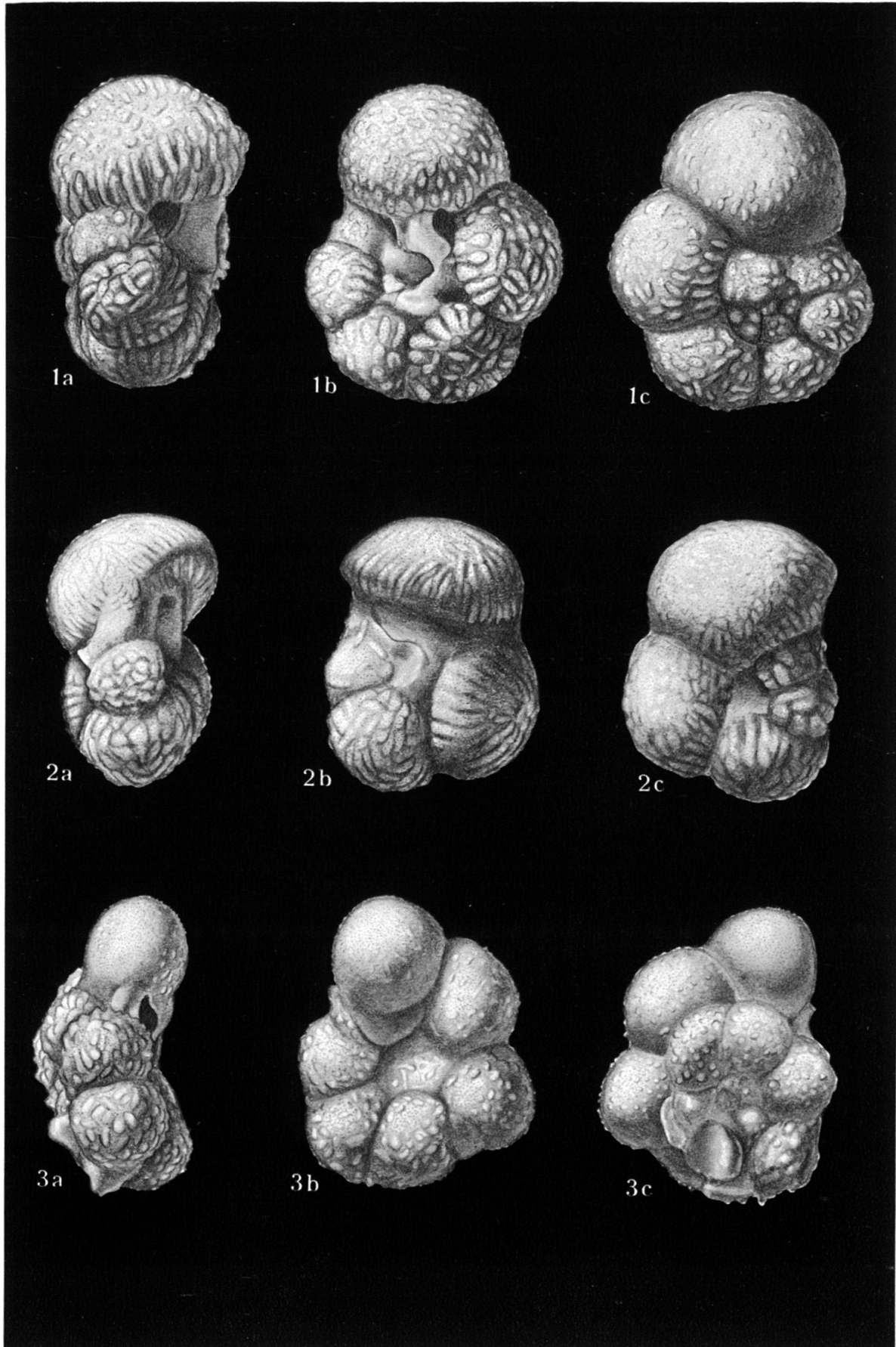


Plate XIX

- Fig. 1. *Hedbergella trocoidea* (GANDOLFI)
Sisson station 148, Cenomanian
96 ×
- Fig. 2. *Planomalina buxtorfi* (GANDOLFI)
Sisson station 148, Cenomanian
60 ×
- Fig. 3. *Globigerina daubjergensis* BRÖNNIMANN
BR station 1221, Danian
96 ×
- Fig. 4. *Globorotalia compressa* PLUMMER
BR station 1221, Danian
96 ×
- Fig. 5. *Globorotalia pseudobulloides* PLUMMER
BR station 1221, Danian
96 ×

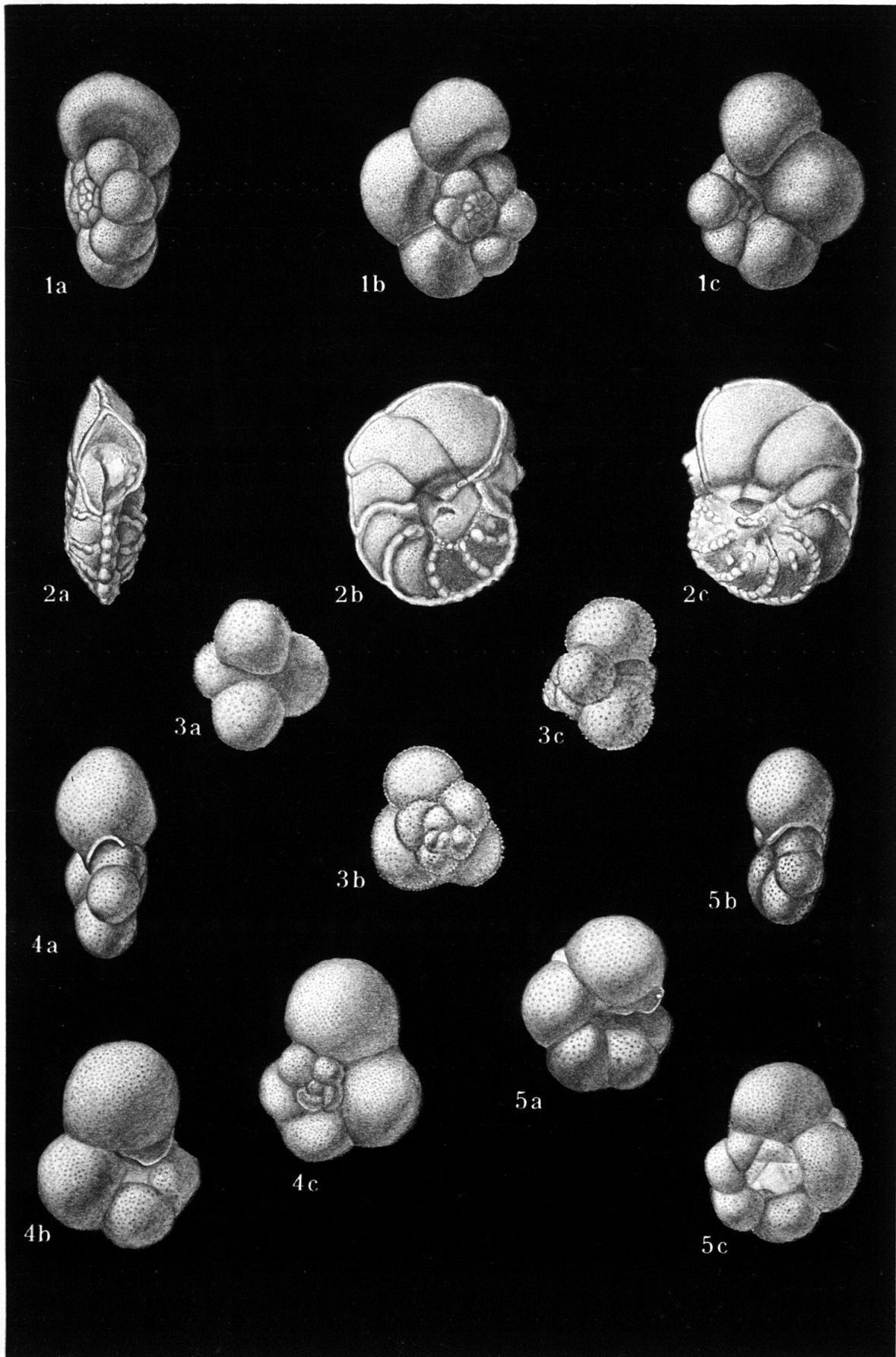


Plate XX

- Fig. 1. *Globigerina ciproensis angustiumblicata* BOLLI
BR station 383, Oligocene
97 ×
- Fig. 2. *Globigerina ciproensis ciproensis* BOLLI
BR station 383, Oligocene
97 ×
- Fig. 3. *Globigerina ciproensis angulisuturalis* BOLLI
BR station 376, Oligocene
97 ×
- Fig. 4. *Globorotalia mayeri* CUSHMAN and ELLISOR
BR station 959, Miocene
97 ×

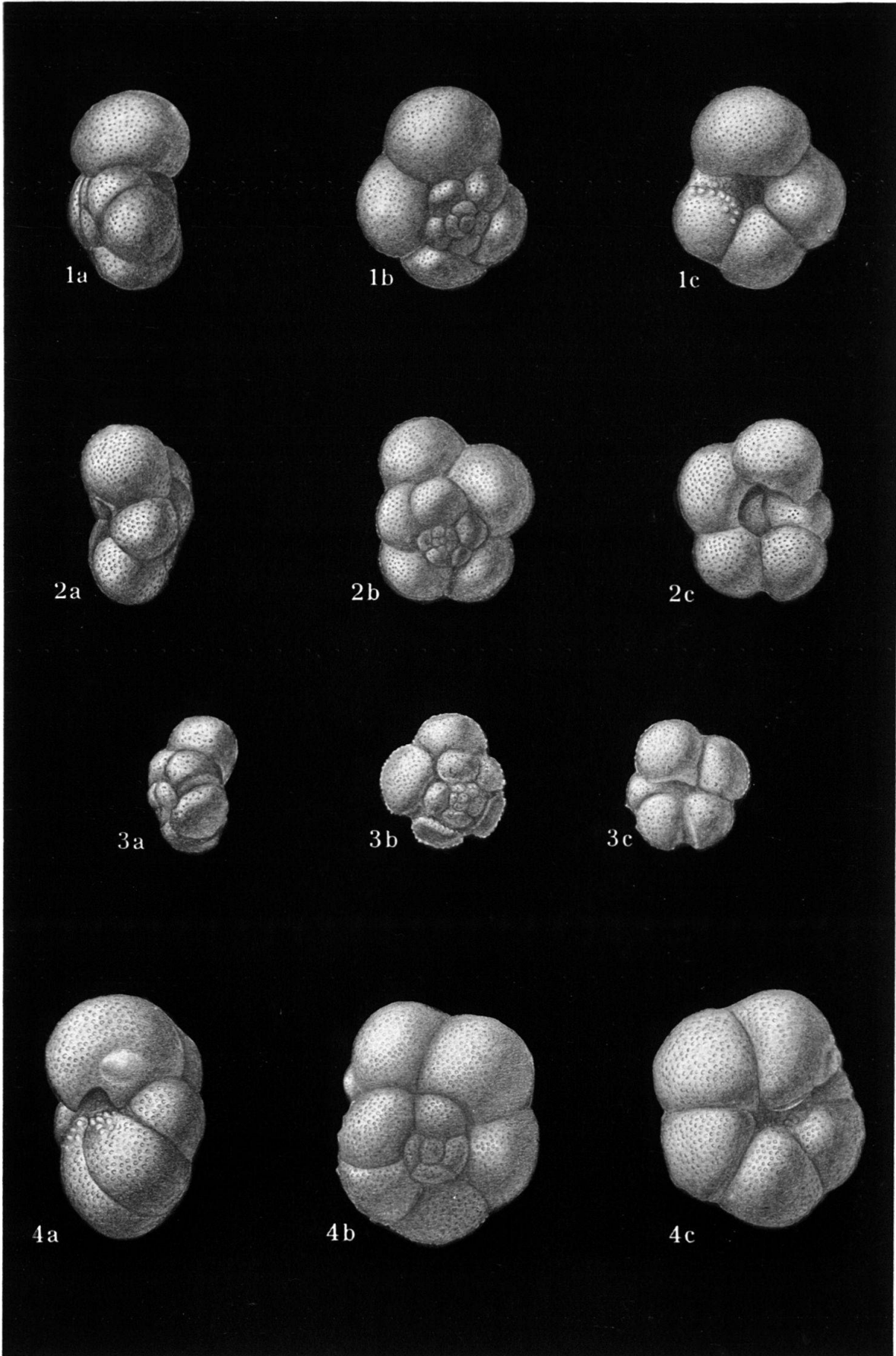


Plate XXI

- Fig. 1. *Globigerina ampliapertura* BOLLI
BR station 366, Oligocene
93 ×
- Fig. 2. *Globigerina euapertura* JENKINS
BR station 383, Oligocene
93 ×
- Fig. 3. *Globorotalia opima nana* BOLLI
BR station 383, Oligocene
93 ×
- Fig. 4. *Globorotalia opima opima* BOLLI
BR station 376, Oligocene
93 ×

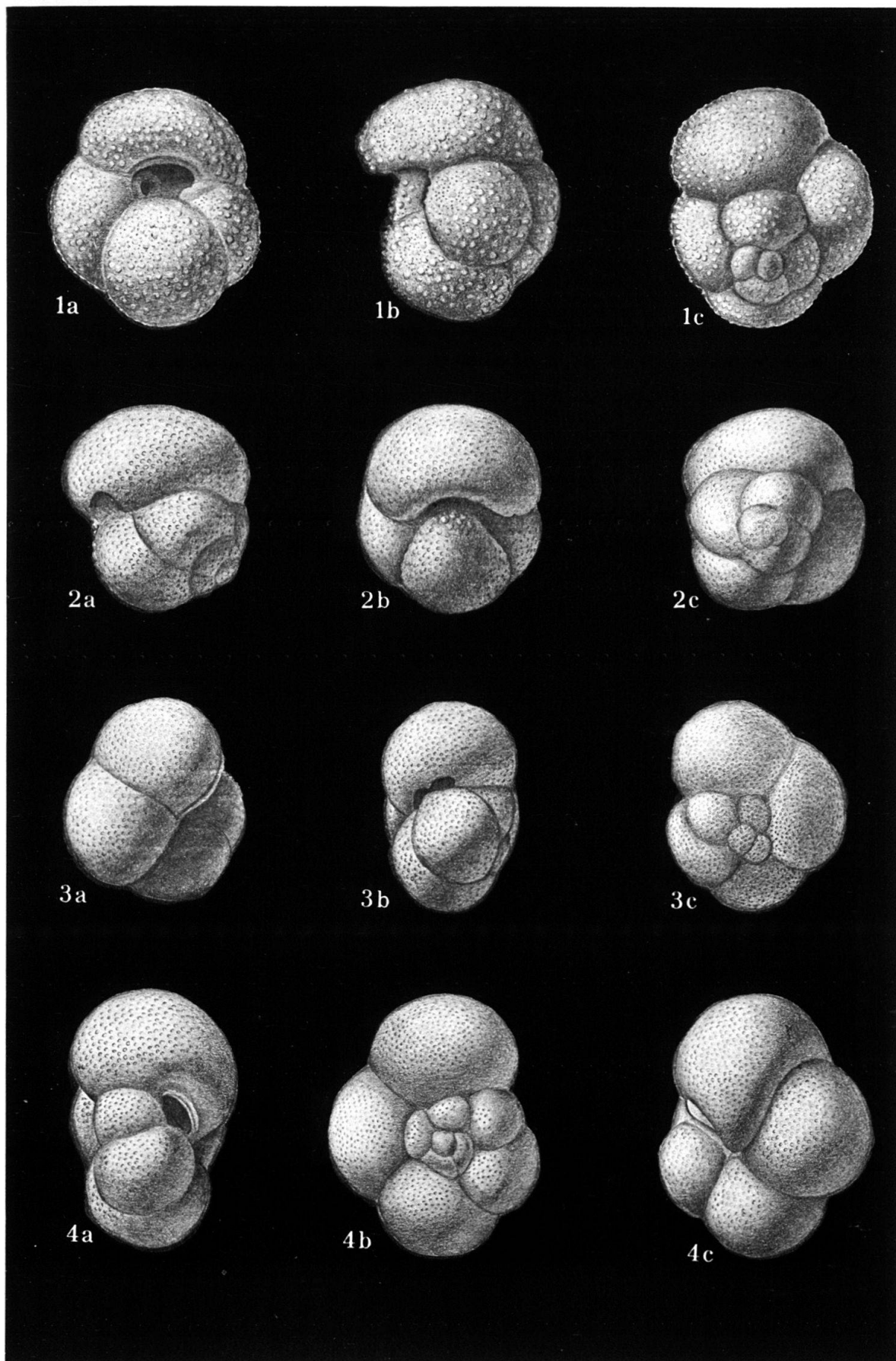


Plate XXII

- Fig. 1. *Globigerina triloculinoides* PLUMMER
BR station 1221, Danian
98 ×
- Fig. 2. *Globigerina cf. triloculinoides* PLUMMER
BR station 1221, Danian
98 ×
- Fig. 3. *Porticulasphaera transitoria* BLOW
BR station 933, Miocene
62 ×
- Fig. 4. *Globigerinoides bisphericus* TODD
BR station 933, Miocene
62 ×
- Fig. 5. *Globigerinoides subquadratus* BRÖNNIMANN
BR station 933, Miocene
62 ×

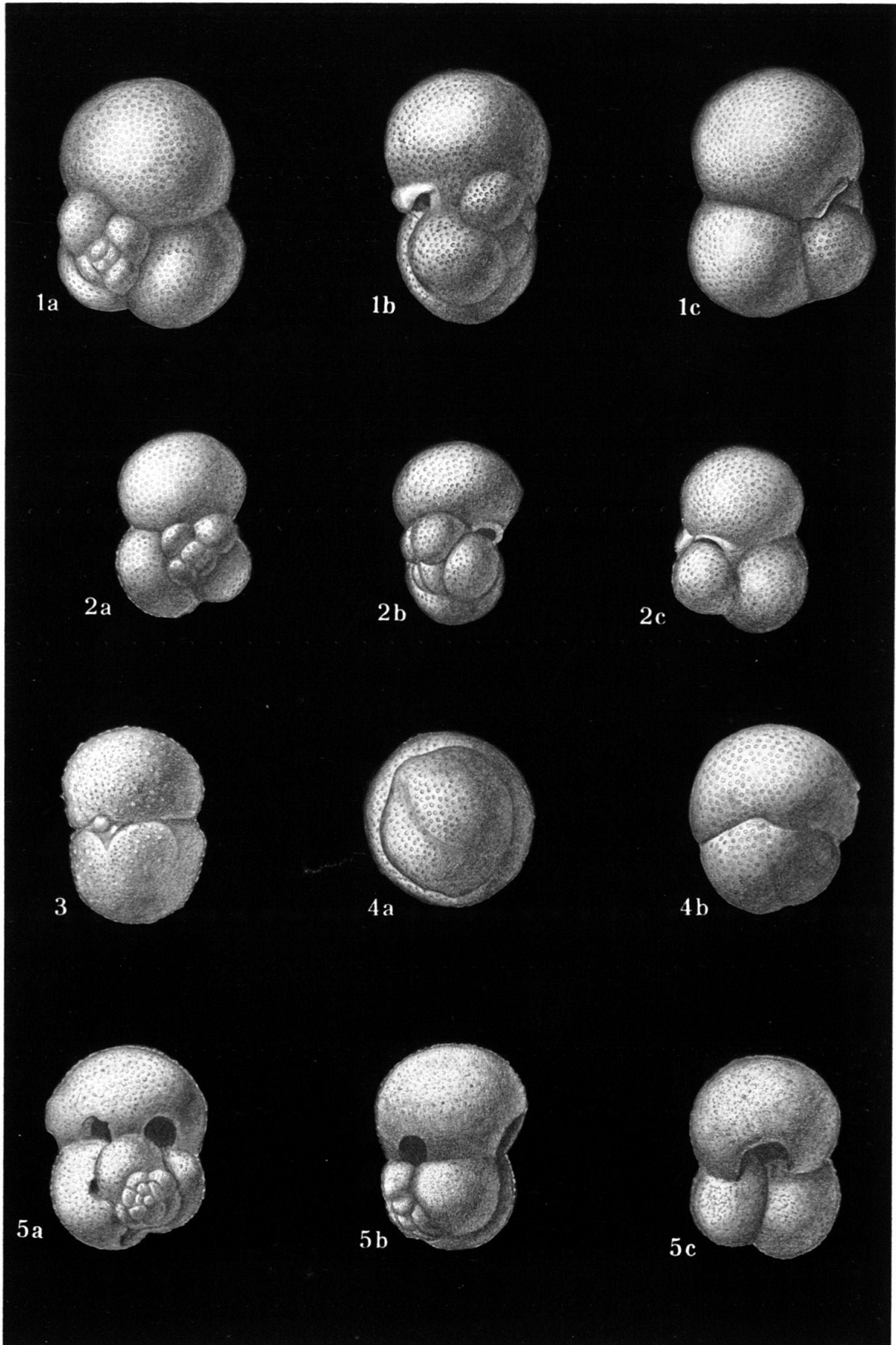


Plate XXIII

- Fig. 1. *Globigerina rohri* BOLLI
Finca Adelina, Oligocene
99×
- Fig. 2. *Globoquadrina altispira globosa* BOLLI
Finca Adelina, Oligocene
43×
- Fig. 3. *Globoquadrina altispira altispira* (CUSHMAN and JARVIS)
Finca Adelina, Oligocene
43×

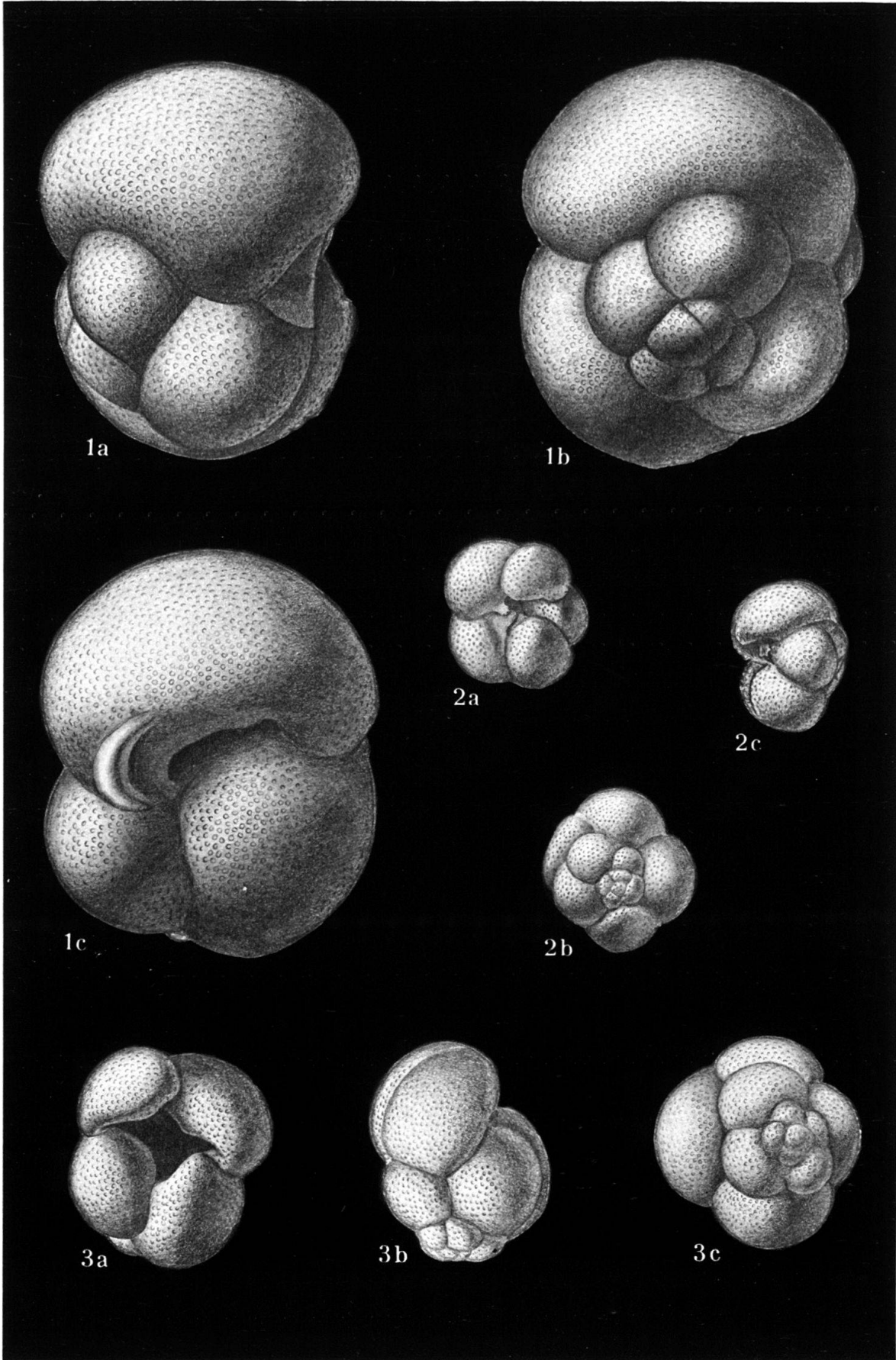


Plate XXIV

Fig. 1. *Globoquadrina venezuelana* (HEDBERG)
Finca Adelina, Oligocene
92 ×

Fig. 2. *Globorotalia praemenardii* CUSHMAN and STAINFORTH
BR station 923, Miocene
92 ×

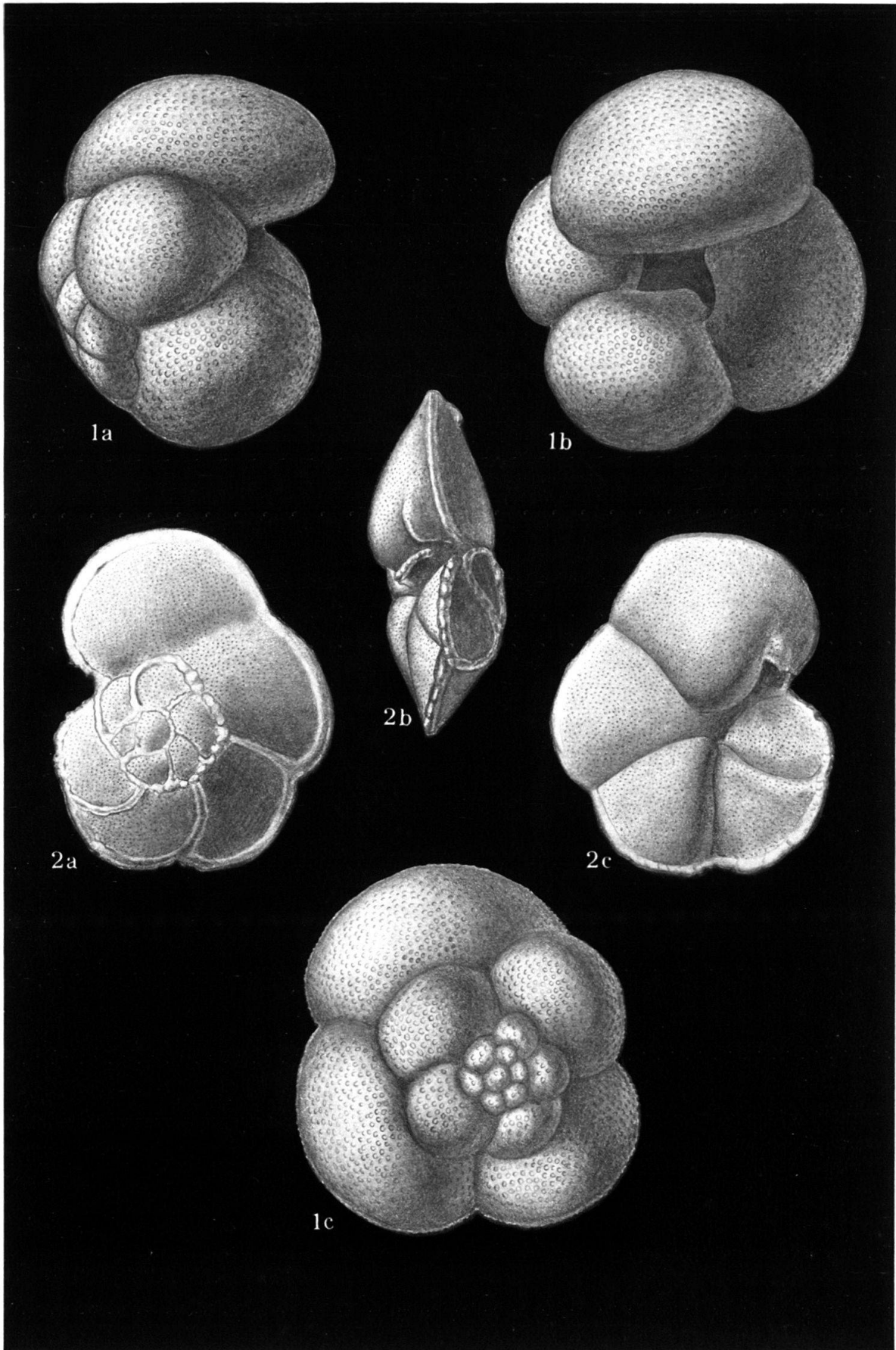


Plate XXV

- Fig. 1.** *Globorotalia fohsi lobata* BERMÚDEZ
BR station 908, Miocene
97×
- Fig. 2.** *Globorotalia fohsi fohsi* CUSHMAN and ELLISOR
BR station 924, Miocene
97×
- Fig. 3.** *Globorotalia fohsi barisanensis* LEROY
BR station 925, Miocene
97×

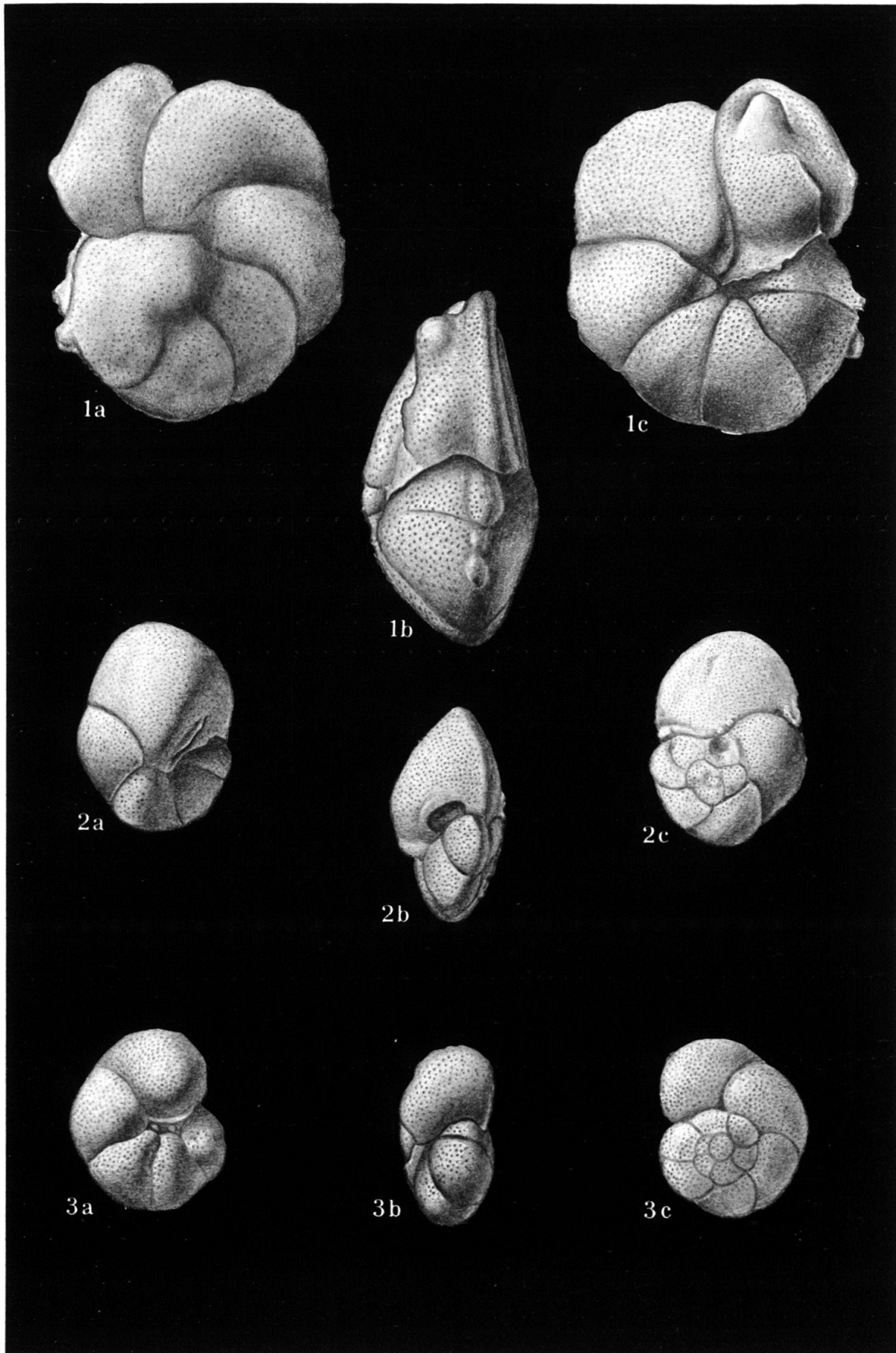


Plate XXVI

- Fig. 1. *Globorotalia obesa* BOLLI
BR station 922, Miocene
97 ×
- Fig. 2. *Globoquadrina altispira altispira* (CUSHMAN and JARVIS)
Finca Adelina, Oligocene
97 ×
- Fig. 3. *Globigerina foliata* BOLLI
BR station 922, Miocene
97 ×

