

Plates

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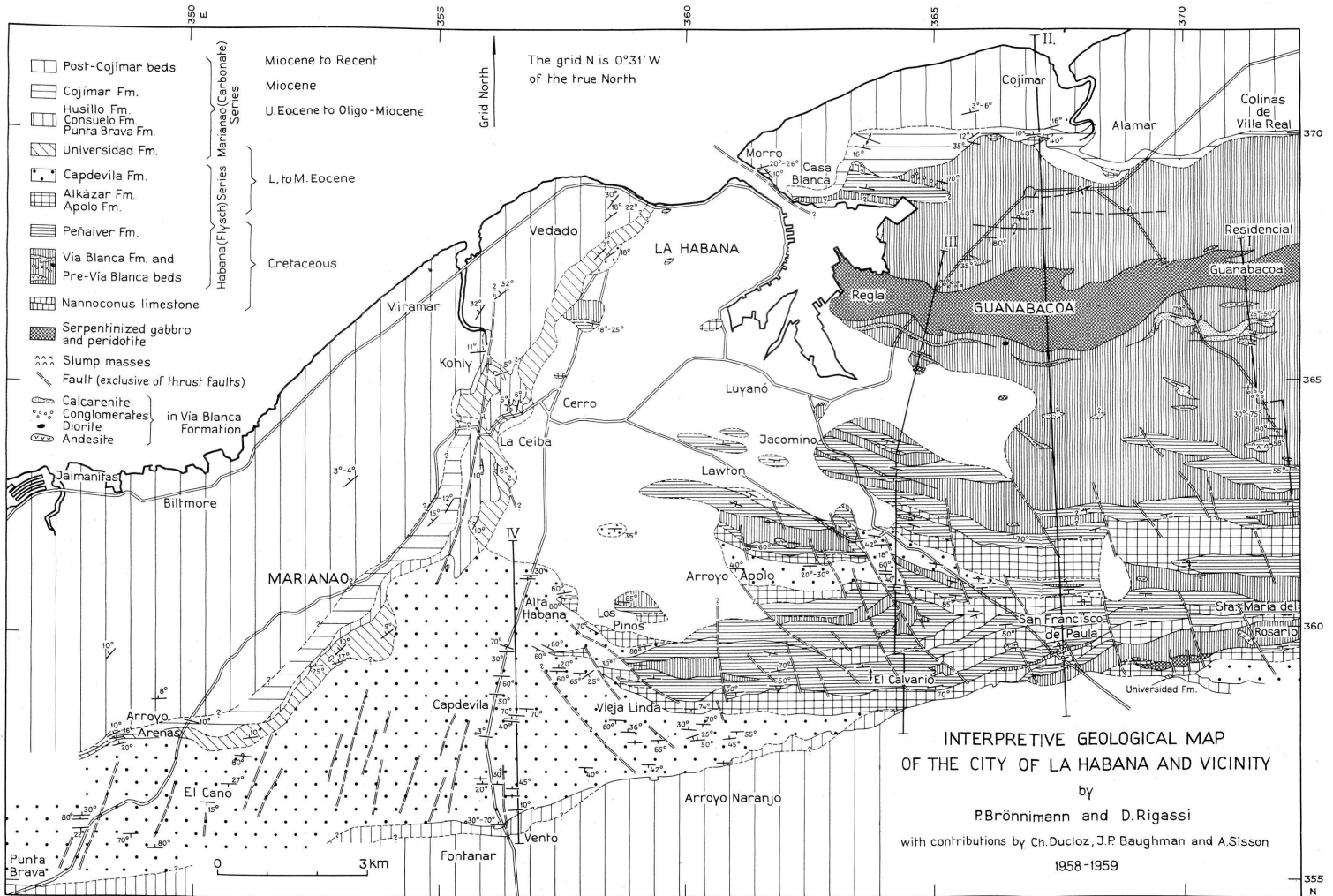
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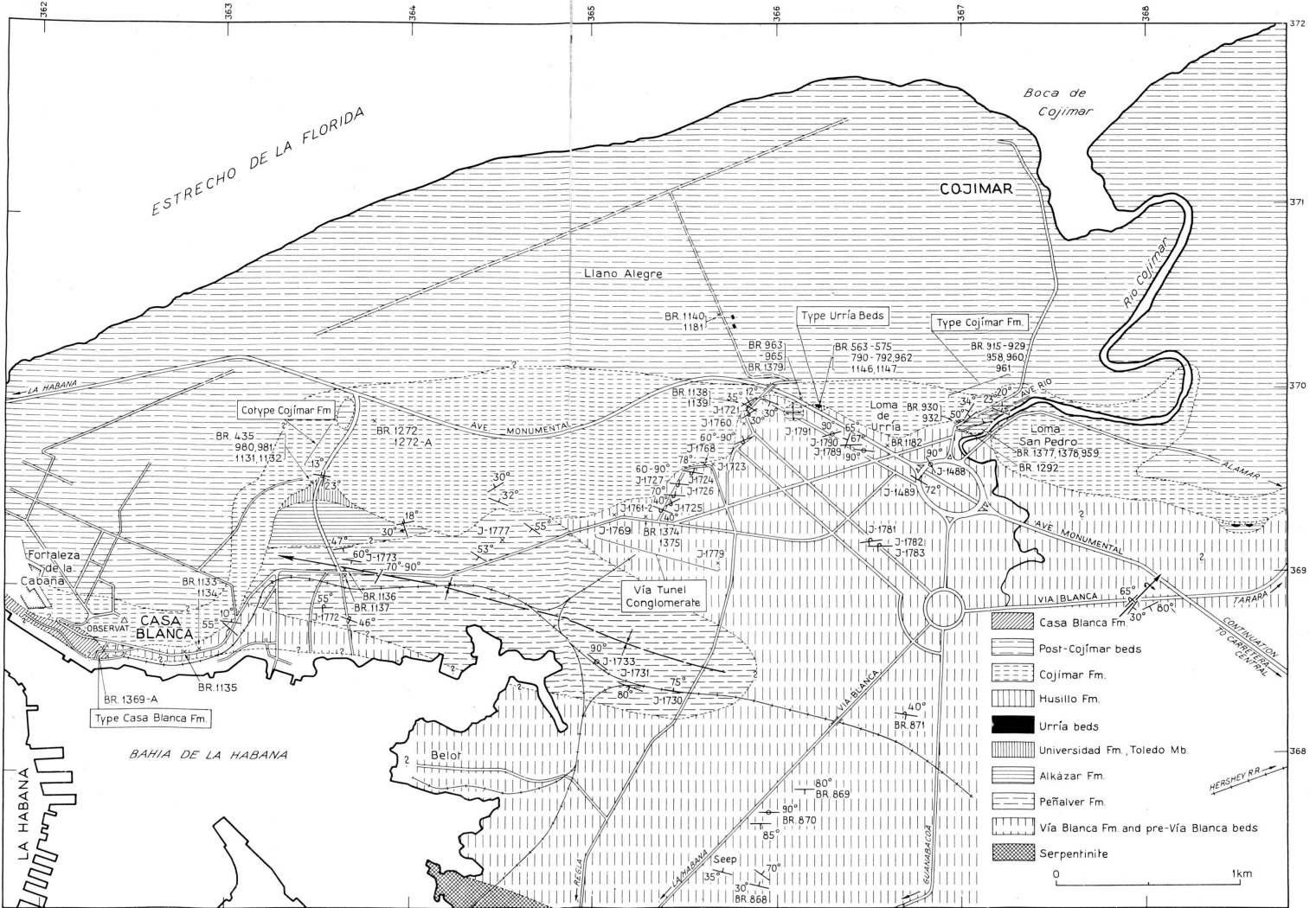
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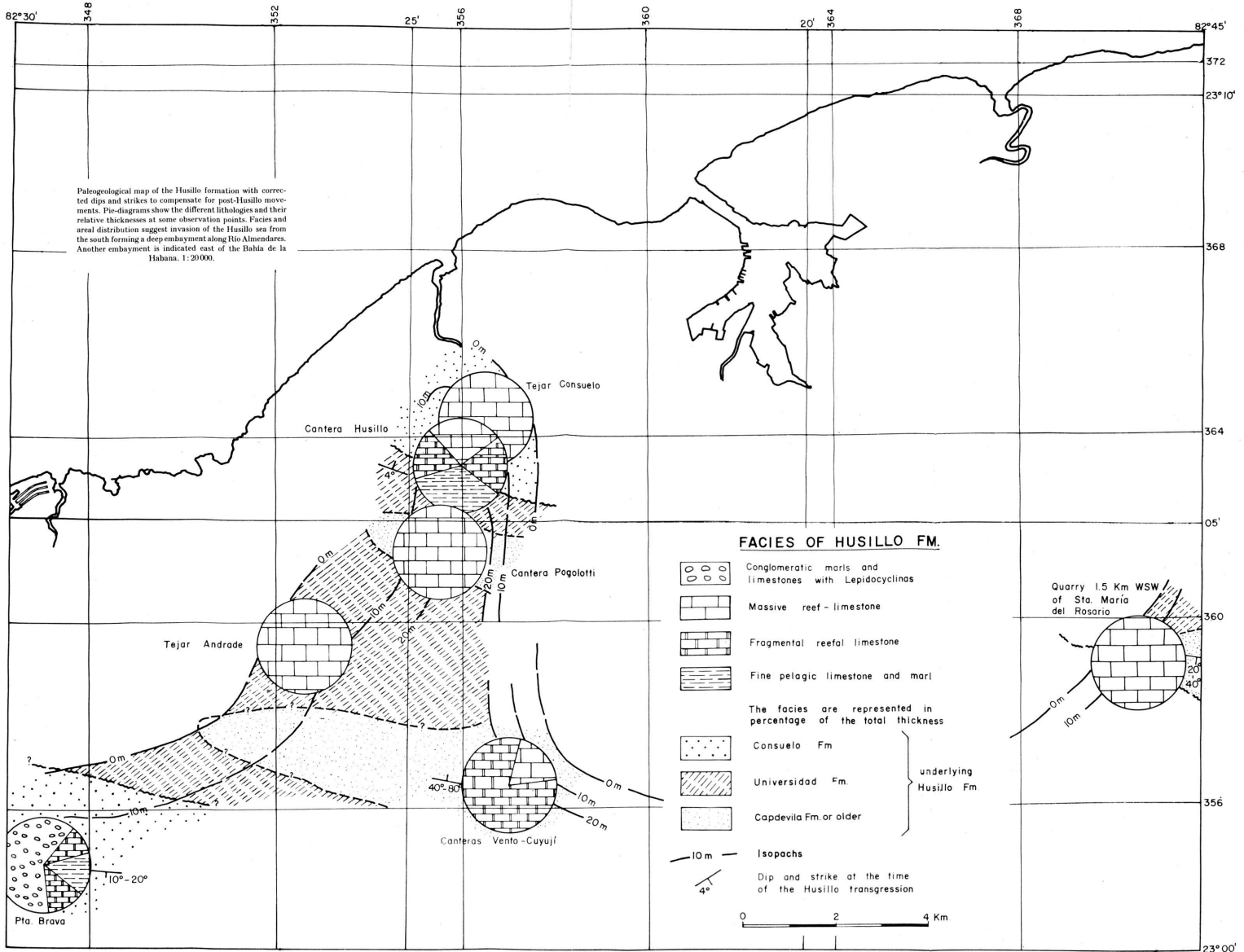
CORRELATION CHART HABANA AREA

EPOCH AND STAGE	BIOSTRATIGRAPHIC ZONES			GROUPS OF FORMATIONS	PUNTA BRAVA	JAMAINITAS AUTOPUESTO DEL MEDICINA CAN.	TEJAR ANDRADE CANTERA POGOLUETTI	CANTERA HUSILLO TEJAR CONSUELO	ALMENDARES YEDADO NUEVO VEDADO	CAPDEVILA VENTO	ALTA HABANA	ARROYO NARANJO ALKAZAR APOLO	PLAZA DE LA REPUBLICA AVE. DE LOS PRESIDENTES HABANA VIEJA	CASA BLANCA COJIMAR ALAMAR	CONTINUACION VIA MONUMENTAL FROM VIA BLANCA TO CARRETERA CENTRAL	SAN FRANCISCO DE PAULA	SANTA MARIA DEL ROSARIO COTORRO	
	Planktonic Foraminifera	Discoasterids	Larger Foraminifera															
RECENT			Archaeos angulatus	MARIANO GROUP CARBONATE FACIES		RECENT DEPOSITS			RECENT DEPOSITS				RECENT DEPOSITS	RECENT DEPOSITS				
PLEISTOCENE	Globorotalia menardii																	
MIOCENE	Globorotalia mayeri		Operculinoides															
	Globorotalia (Gibb.)																	
	Globigerinella insula		Miogyssina															
	Colapsodyx dissimilis	Discoaster deflandrei	Lepidocyclina (Lep.) - Miogyssina															
OLIGOCENE	Globorotalia kugleri		Miogyssina															
	G. cipariensis - G. opima	Discoaster woodringi	Lepidocyclina (Lep.) - Lepidocyclina (Lep.)															
	Globigerina woodringi																	
	Globorotalia cerroazulensis	Discoaster barbadensis	Lepidocyclina s. i.															
	Globigerina seminivolata		Discoacyclina															
	Hank. dumbei - Globigerinella (Gibb.)	Discoaster																
	Hank. mexicanus - G. aragonensis	Discoaster iodoensis																
	Gk. bullbrookii - Gk. aragonensis	Discoaster	Operculinoides wellsii - Operculinoides cubensis															
	Globorotalia palmerae	Marthasterites																
	Gk. rex - Gk. formosa	Iribrachiatulus																
EOCENE	Gk. velascoensis - Gk. pseudoscutula	D. multiradiatus - M. bramlettei - M. contortus	Operculina catenula															
	Gk. angulata																	
	Daman	Gk. dubiurgensis - Gk. compresso																
	Maastrichtian	Rugotruncana mayraensis	Coccoliths Assemblages															
		Rugotruncana gansseri																
	Companion	Globotruncana linnæiana																
	Santonian to Coniacian	Gk. formosa * Gk. concavata Gk. coronata																
	Turonian	Helvetia helvetica Rot. turonica																
	Cenomanian	Rot. appenninica Thalm. multiloculata																
	MESOZOIC AND OLDER	Albion to Aptian	Hedbergella trochoidea	Nannoconus fruitii														
Barrémian to Neocomian			Nannoconus steinmanni															
Upper Jurassic and older																		

* 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.

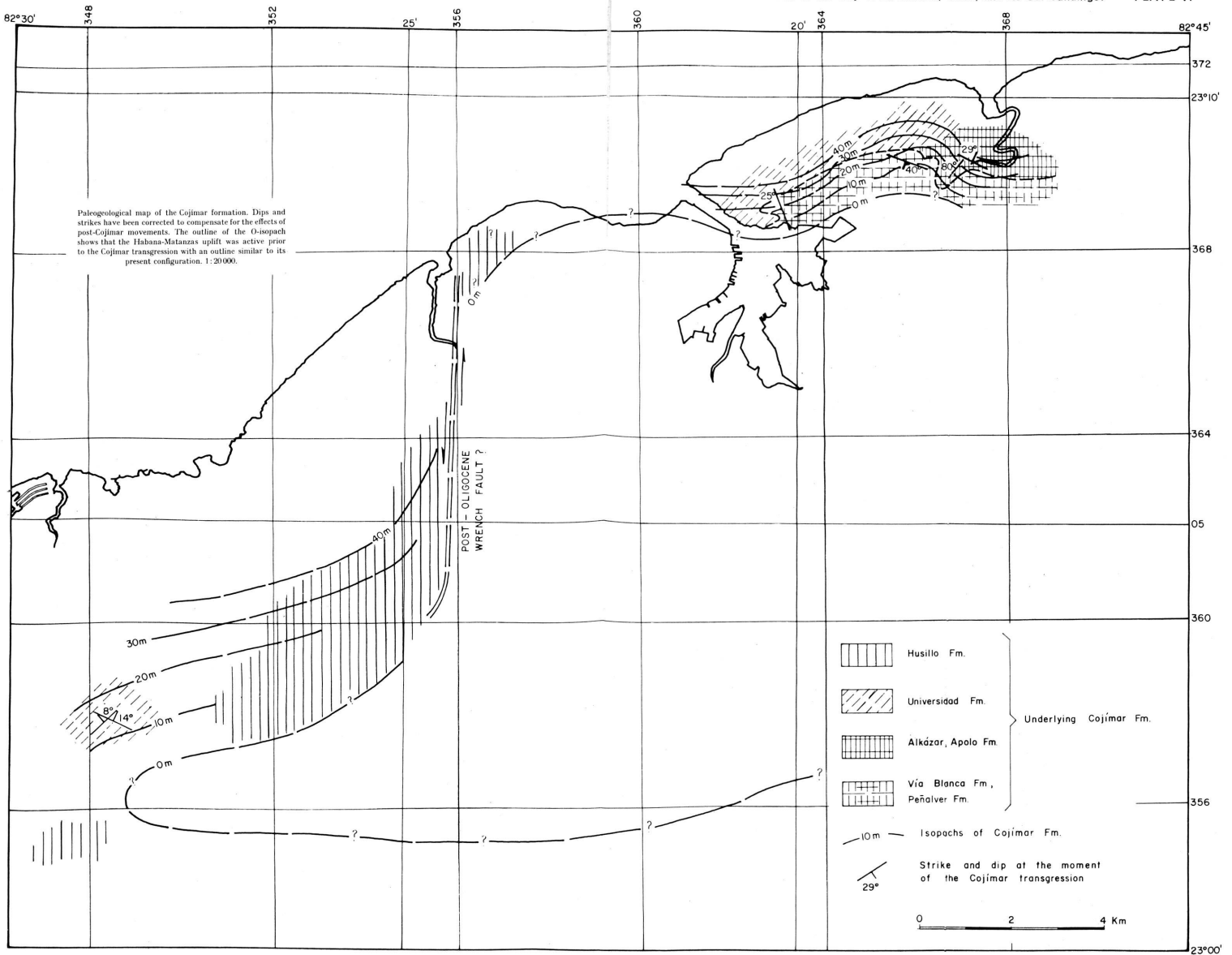
FACIES OF HUSILLO FM.

-  Conglomeratic marls and limestones with *Lepidocyclus*
 -  Massive reef-limestone
 -  Fragmental reefal limestone
 -  Fine pelagic limestone and marl
- The facies are represented in percentage of the total thickness
-  Consuelo Fm.
 -  Universidad Fm.
 -  Capdevila Fm. or older
- } underlying Husillo Fm.

— 10 m — Isopachs

 Dip and strike at the time of the Husillo transgression

0 2 4 Km



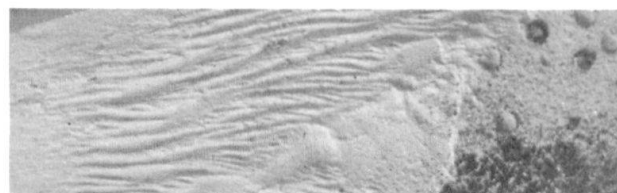


Plate VIII

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 ×.

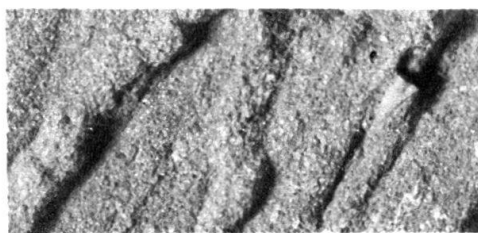


Plate IX

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 ×.

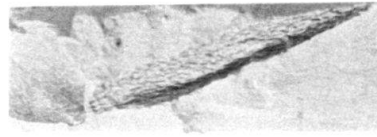
Figs. 3, 4 1.8 ×.

Figs. 5, 6 2.2 ×.

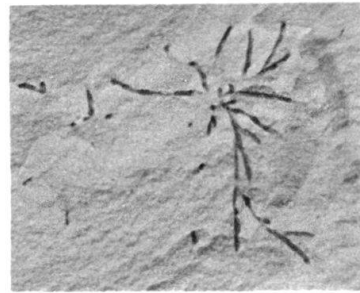
SEILACHER (1959, p. 1072, Tabelle III, text-fig. 50) refers the form illustrated by our fig. 1 to *Chondrites* ("Fressbau"). Figs. 3 and 4 are identical with SEILACHER's fig. 49, Tabelle 3, referred to *Chondrites intricatus* BROGNIART. Figs. 5 and 6 appear to be intermediate forms of *Chondrites* and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



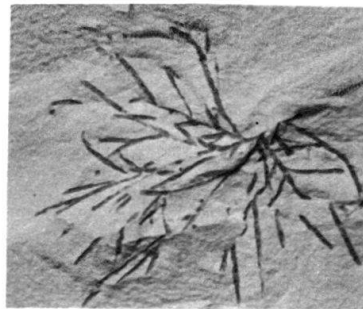
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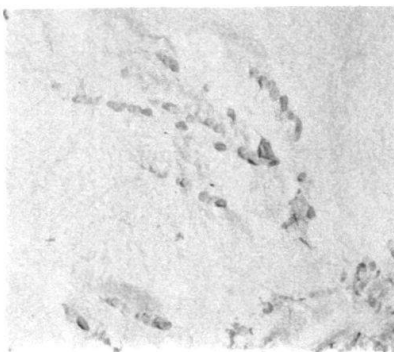
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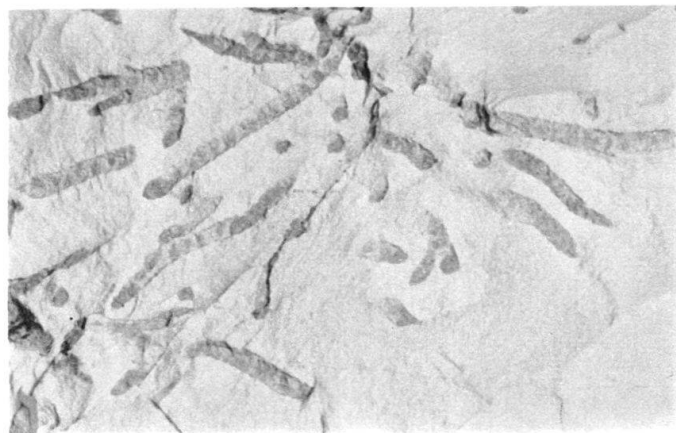
3



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

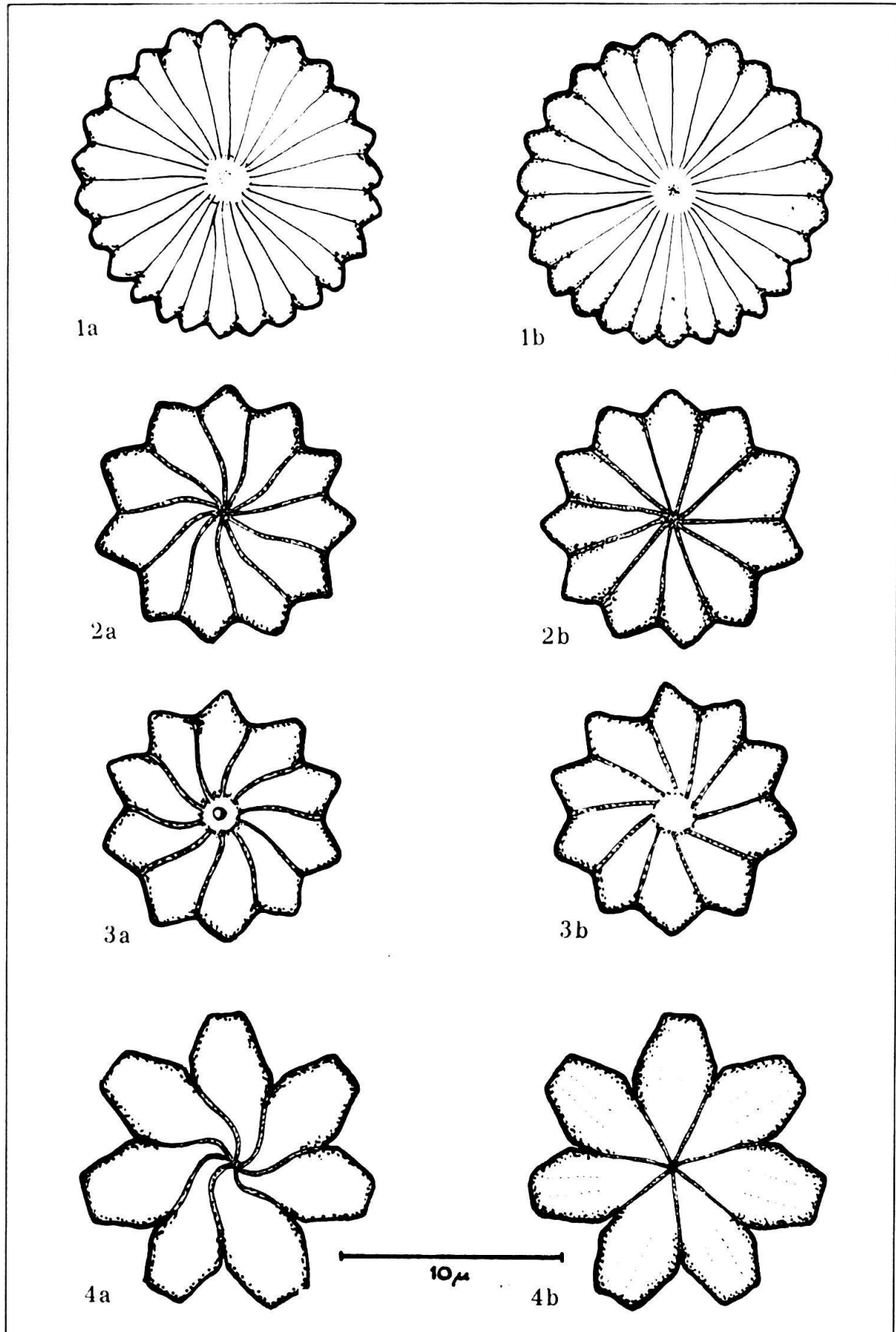


Plate XI

- 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

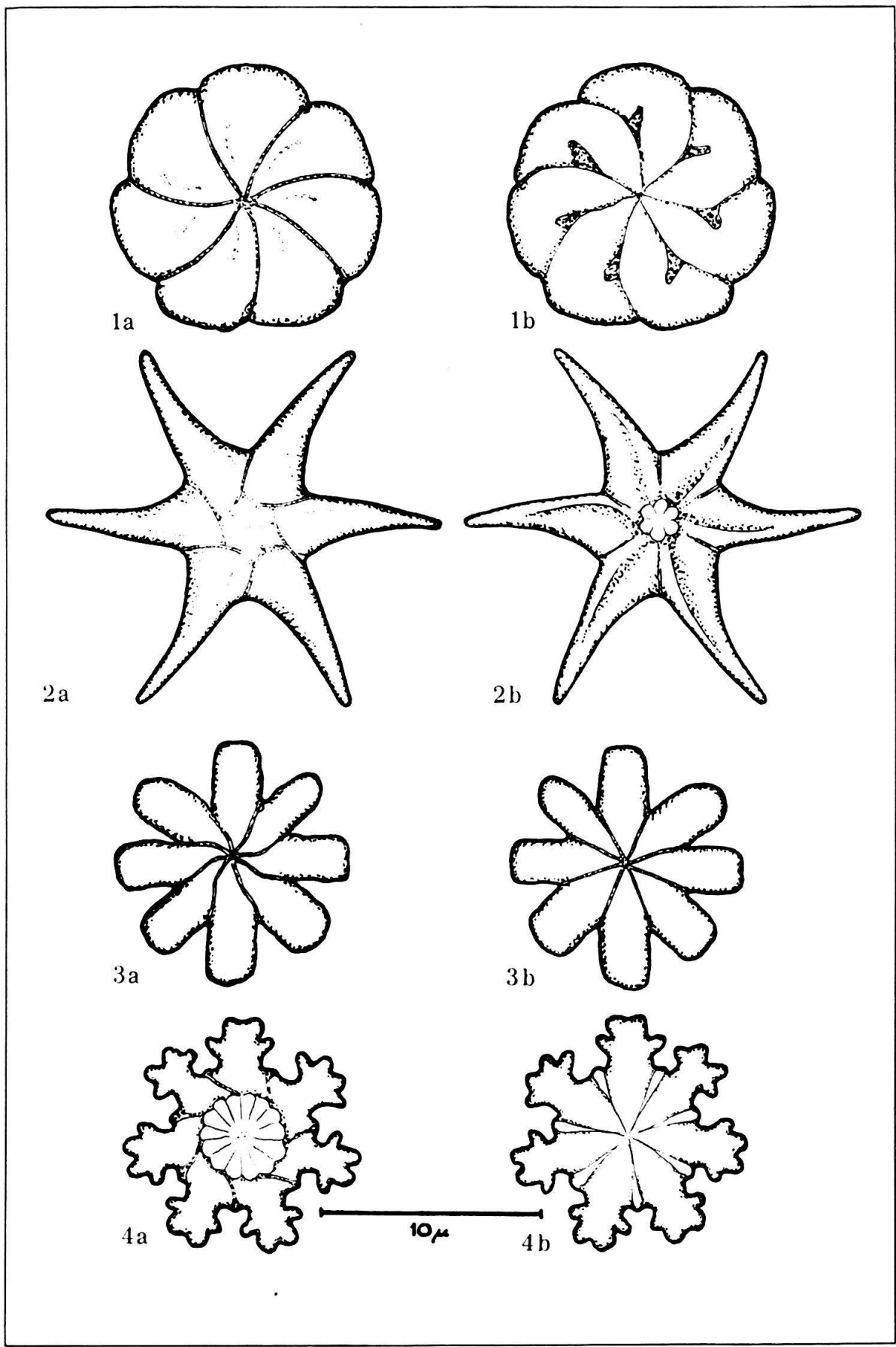


Plate XII

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

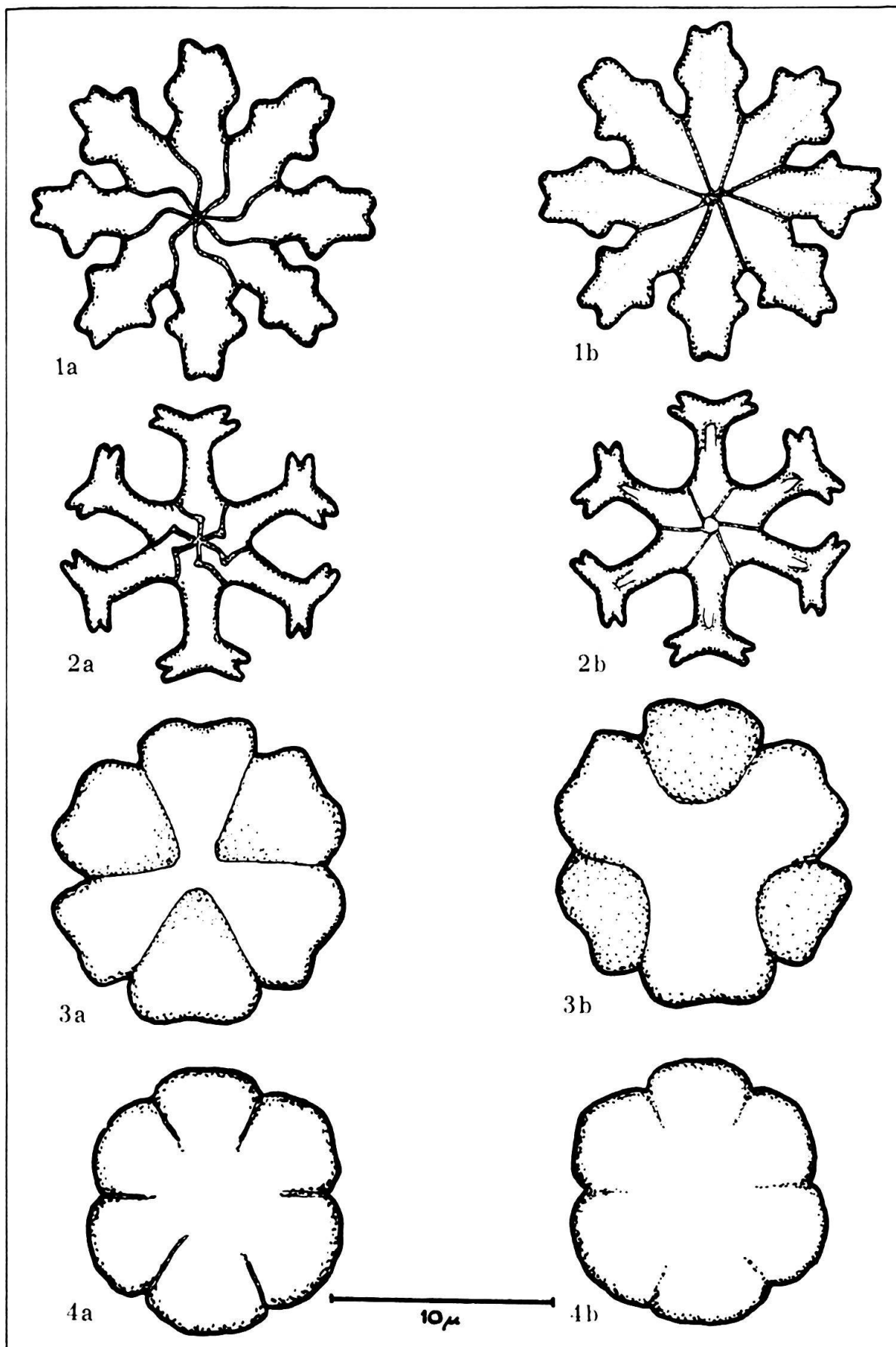


Plate XIII

- 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

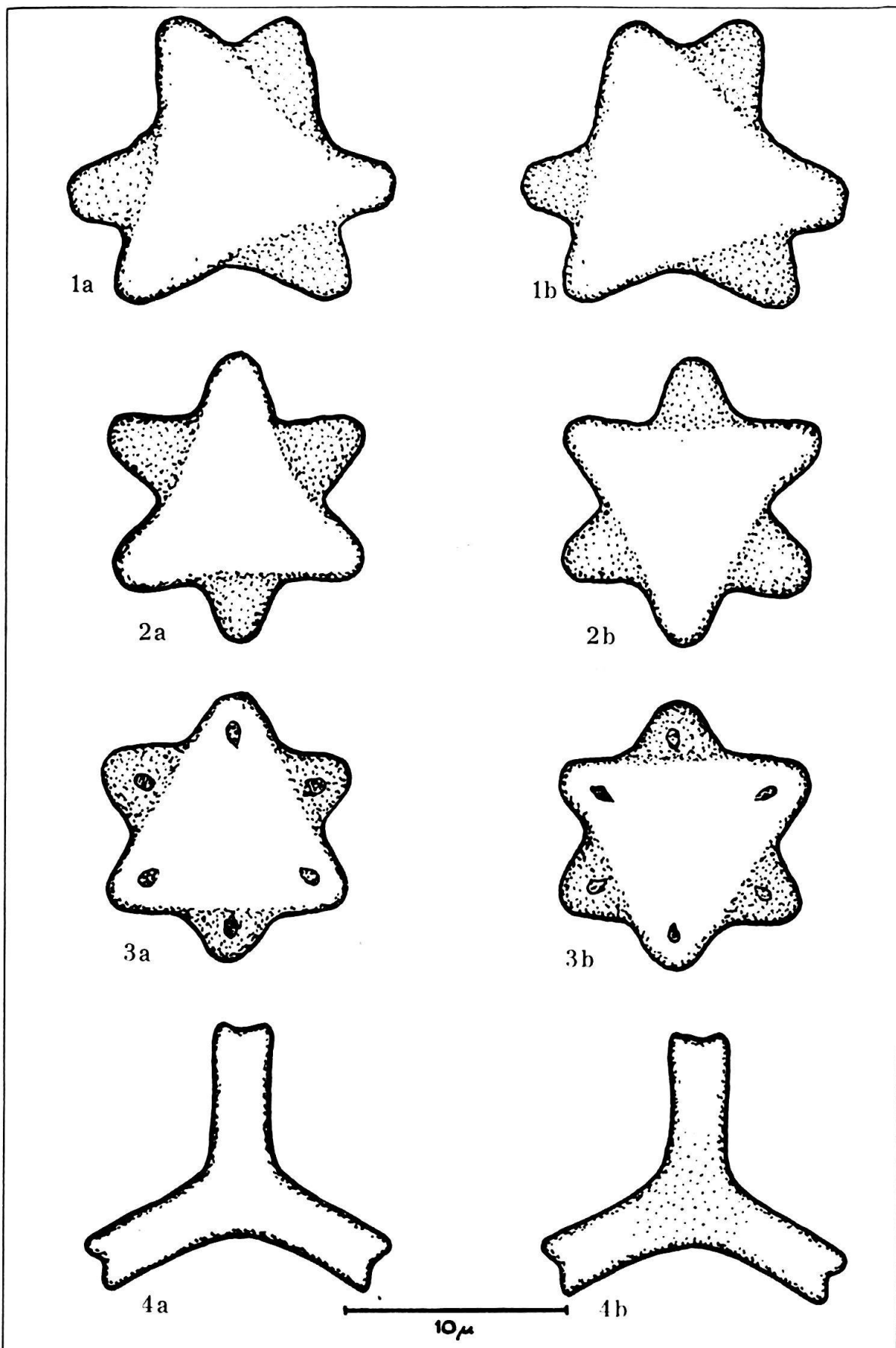


Plate XIV

- Fig. 1. *Nannotraster 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

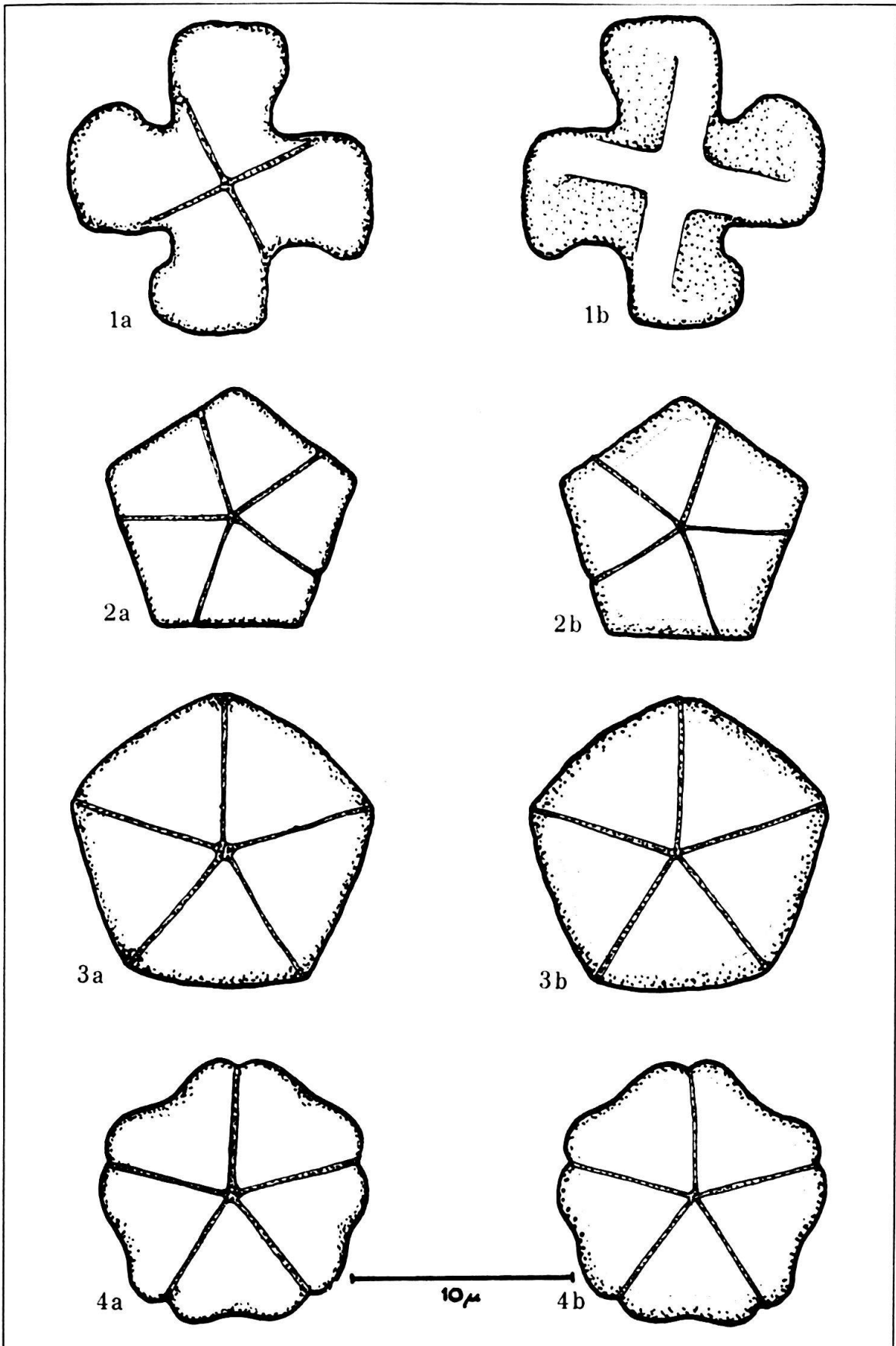


Plate XV

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

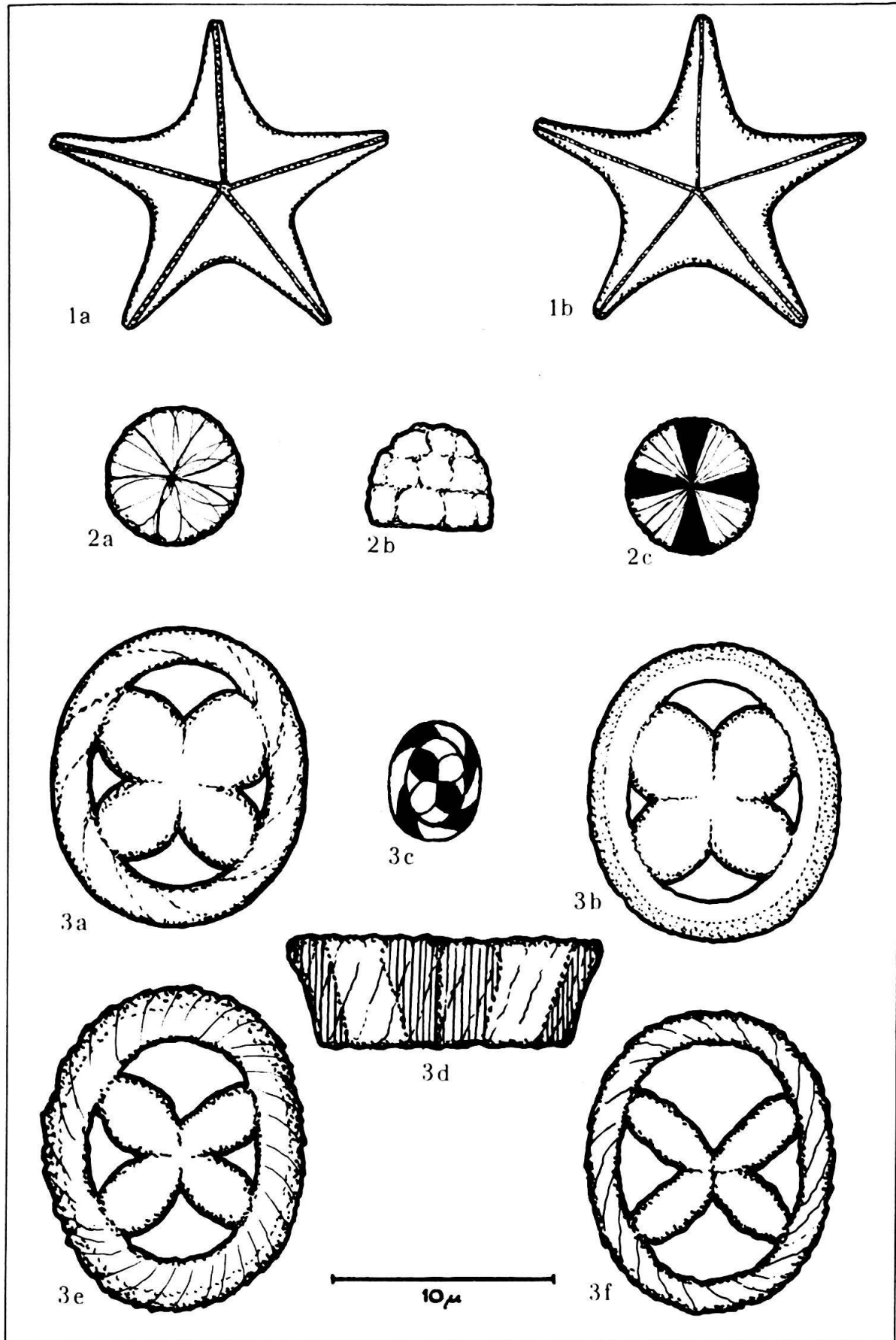


Plate XVI

- 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×

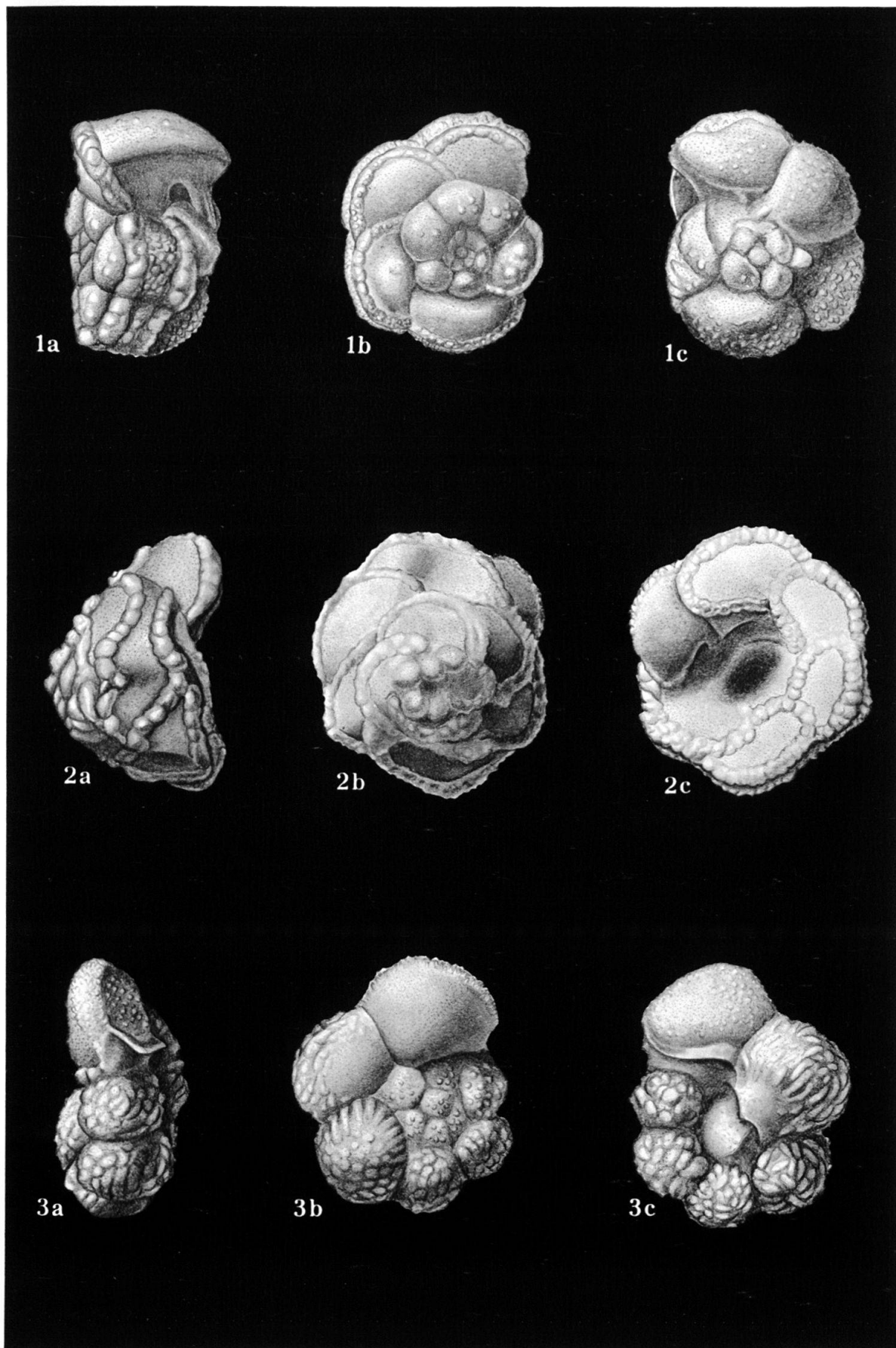


Plate XVII

- 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×

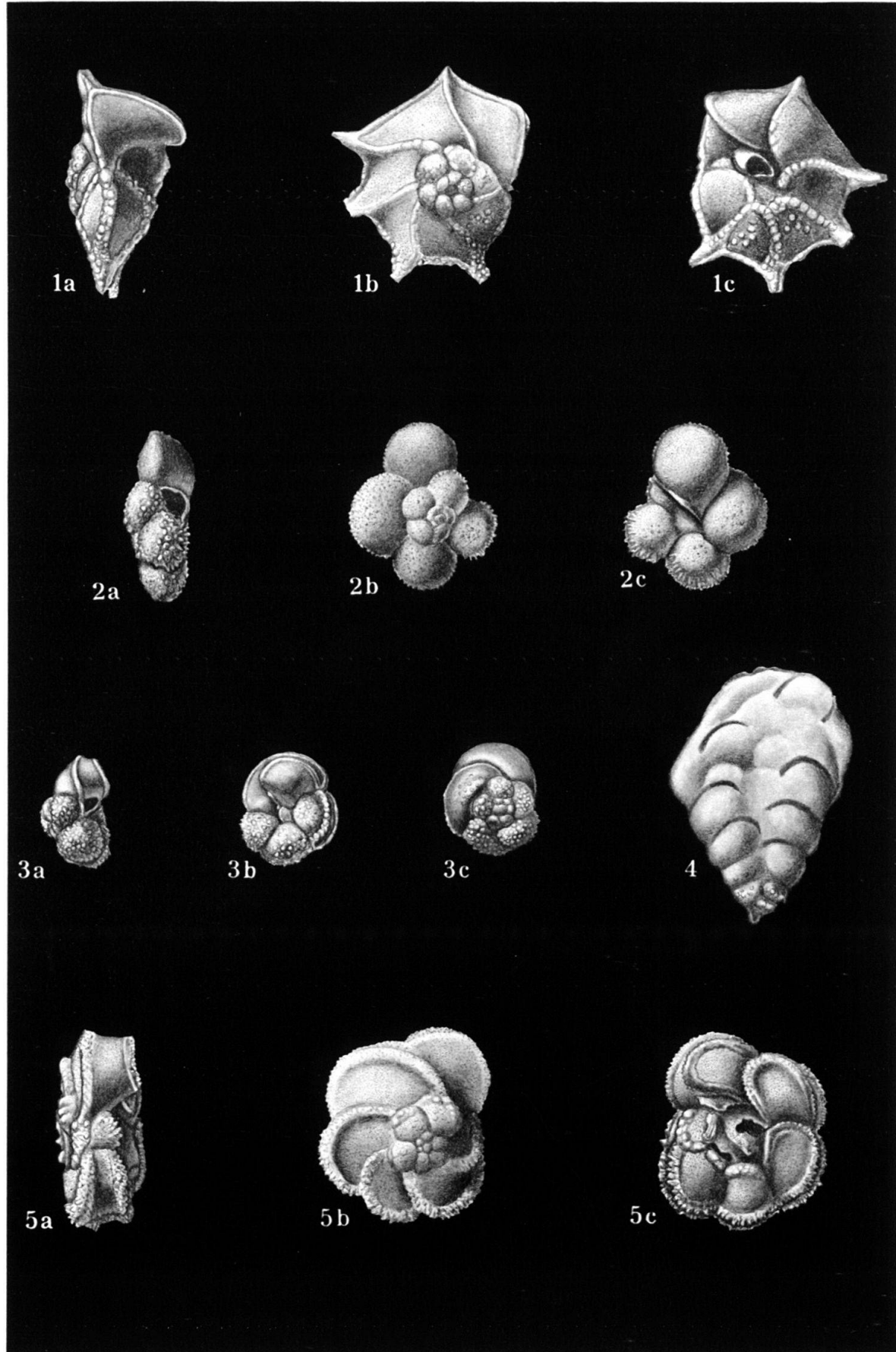


Plate XVIII

- 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 ×

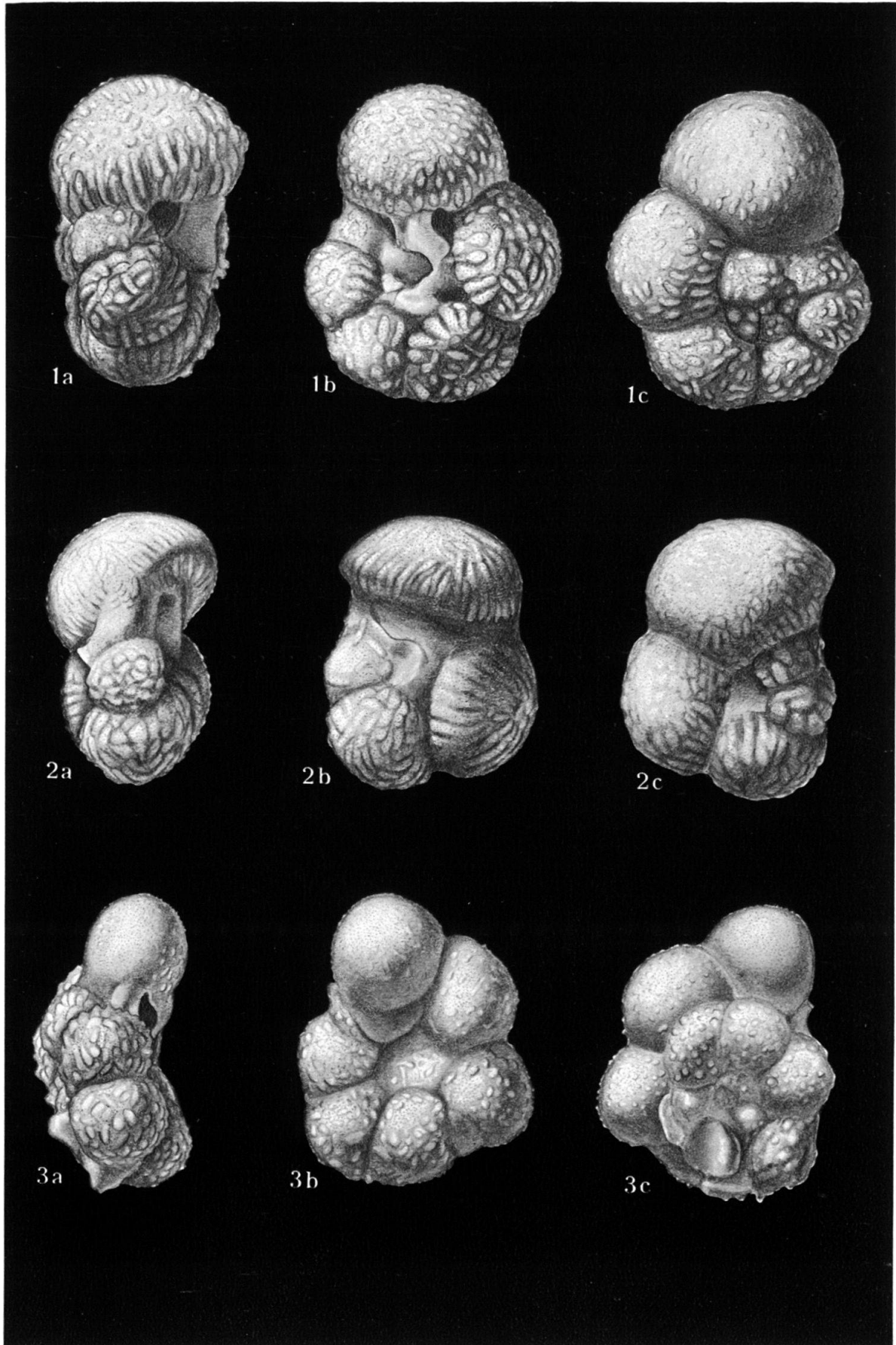


Plate XIX

- 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 ×

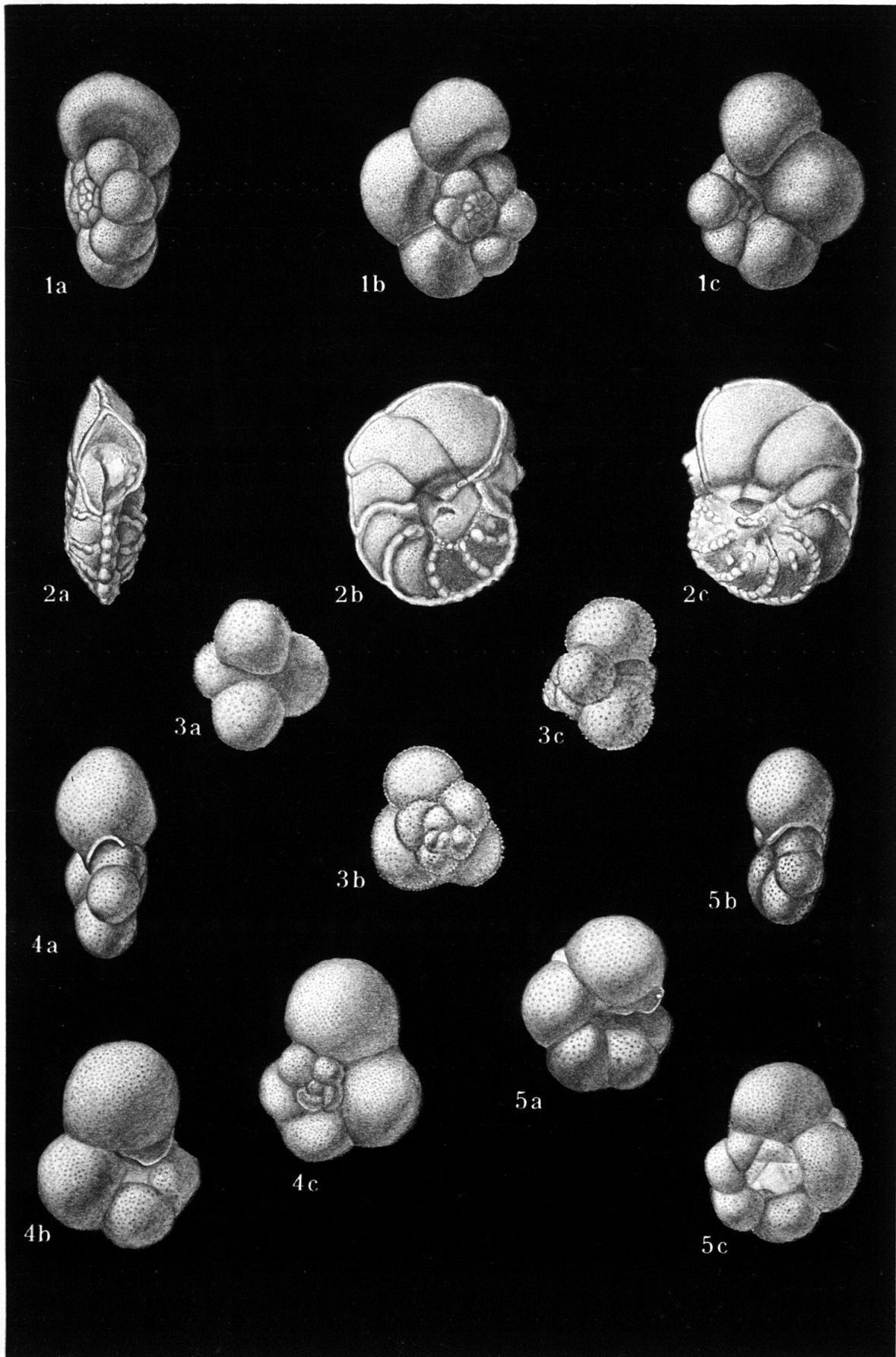


Plate XX

- 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 ×

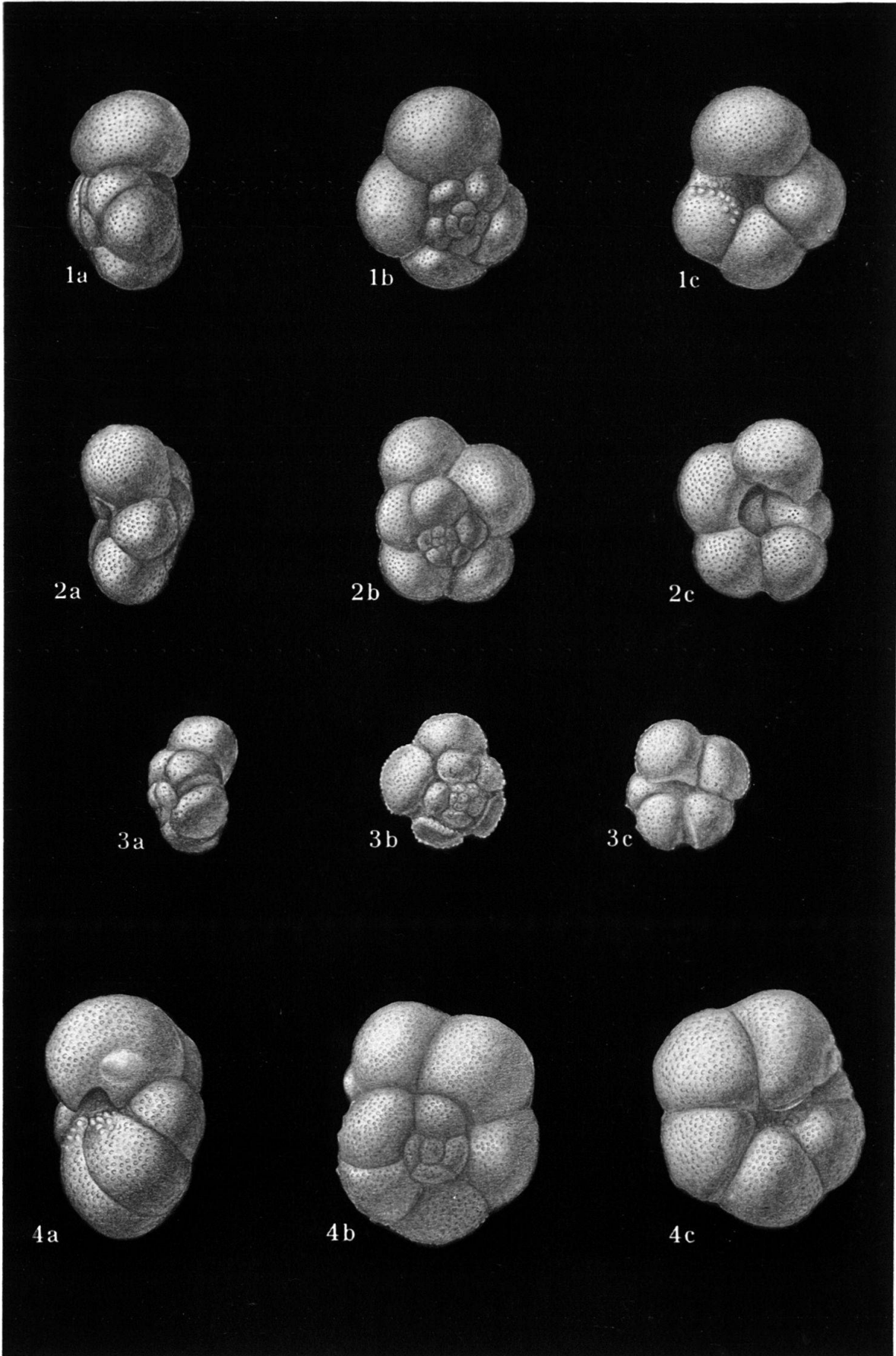


Plate XXI

- 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 ×

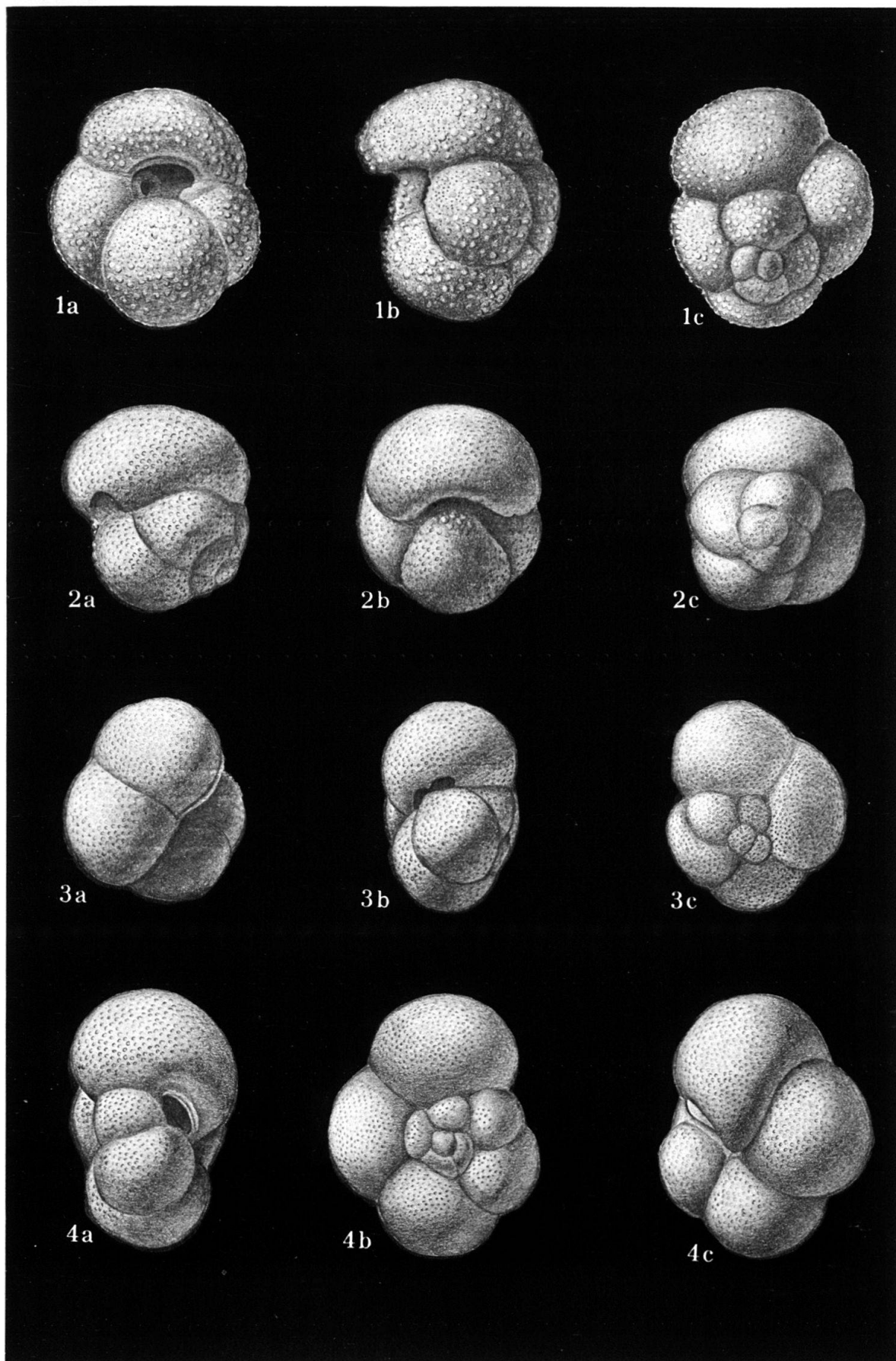


Plate XXII

- 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 ×

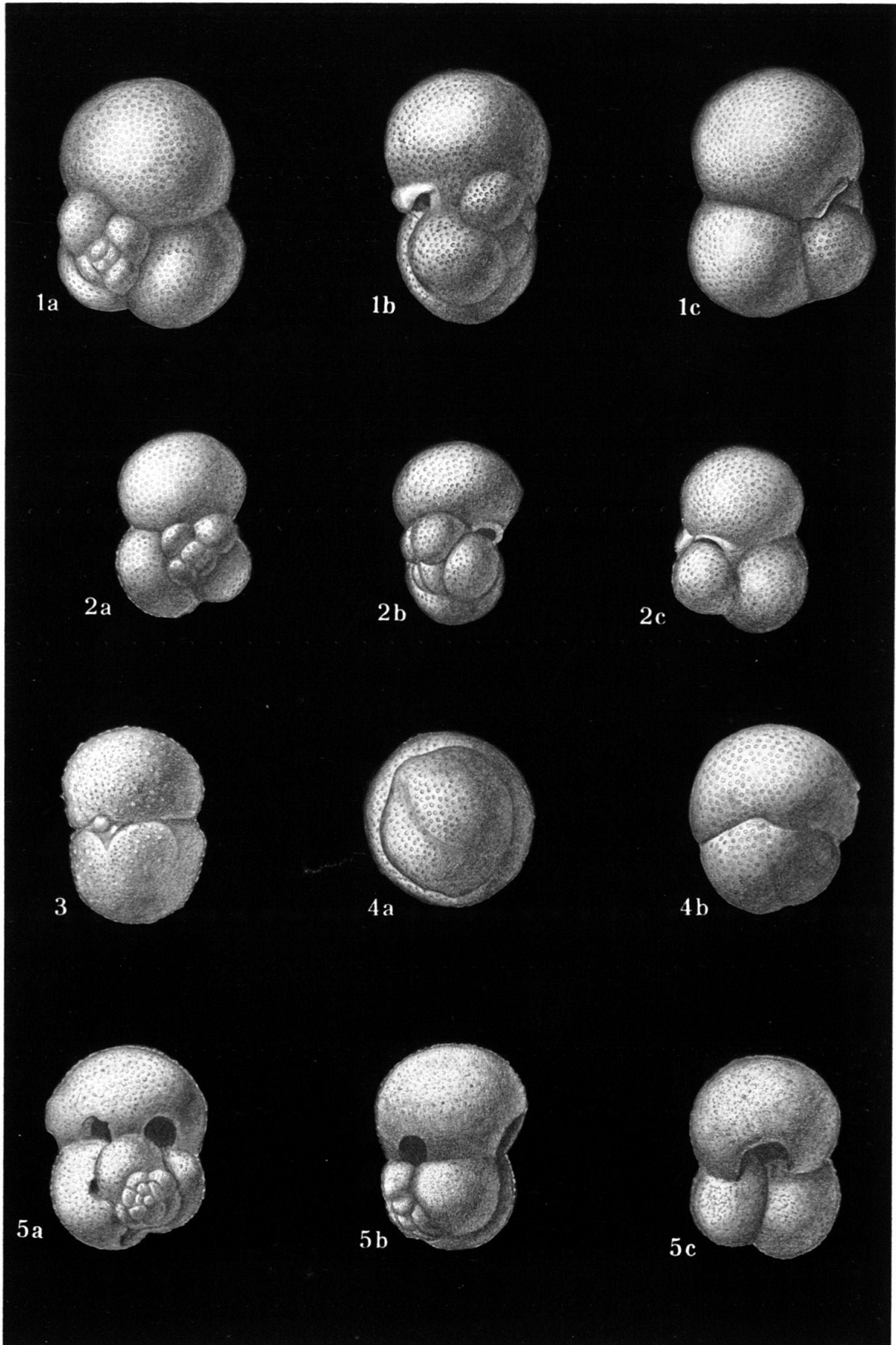


Plate XXIII

- 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×

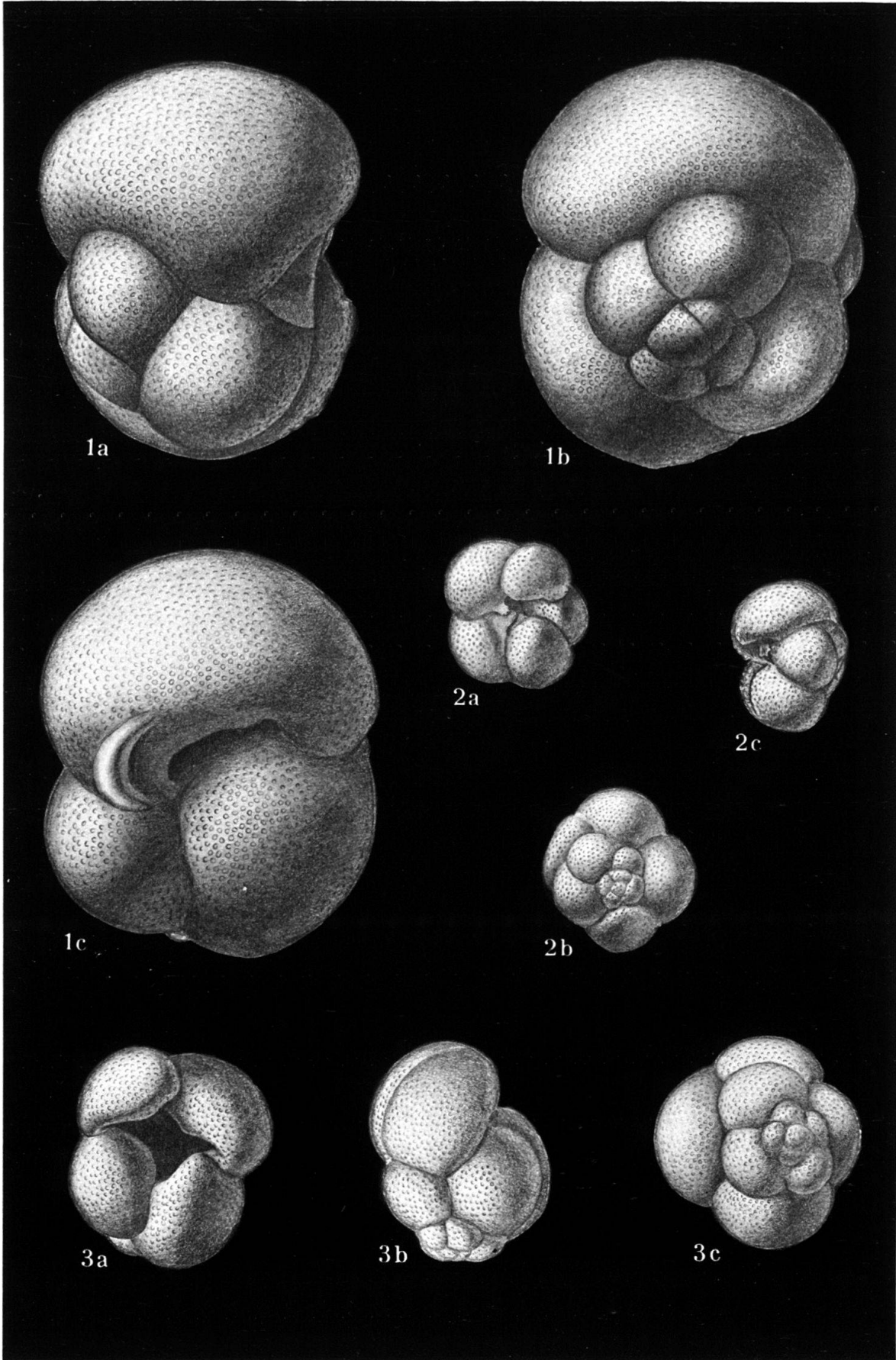


Plate XXIV

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

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

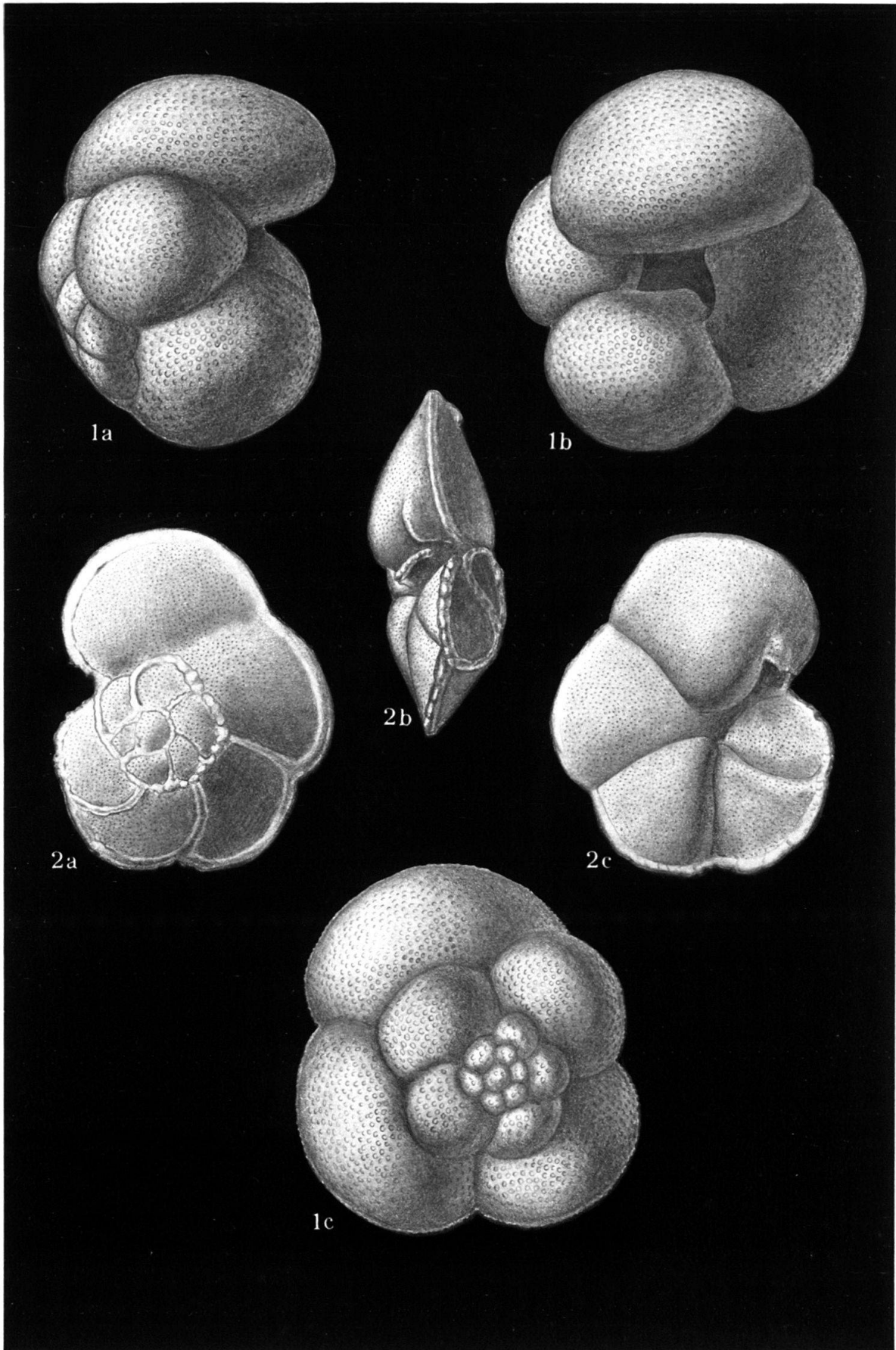


Plate XXV

- 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×

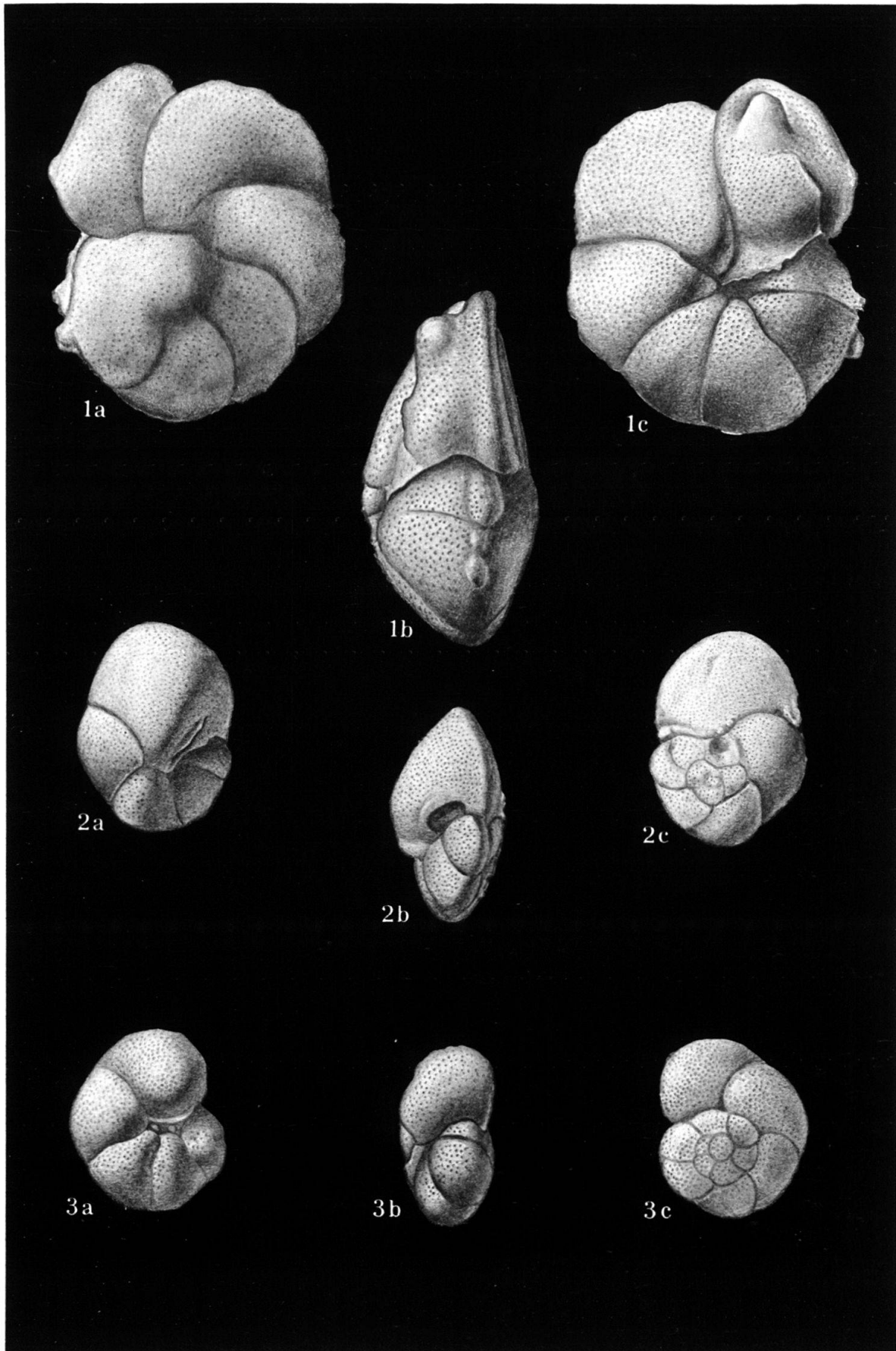


Plate XXVI

- 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 ×

