

Initial Rept. Deep Sea Drill. Proj., v. 42, n. 1, U.S. Govern. Print., pp. 709–718, 8 pl., Washington.

Wright R. (1978) - Neogene paleobathymetry of the mediterranean based on benthic Foraminifera from DSDP Leg 42 A. *Initial Rept. Deep Sea Drill. Proj.*, v. 42, n. 1, pp. 837–846, Washington.

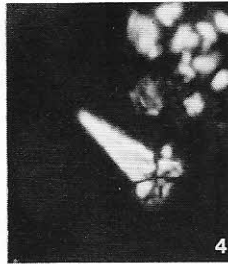
PLATE 34

Nannoplankton from Case Cocuzza and Costa dell'Angelo sections.

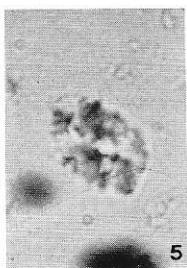
- Fig. 1,2 — *Helicosphaera ampliaperta* Bramlette & Wilcoxon. Sample CA25.
- Fig. 3,4 — *Sphenolithus heteromorphus* Deflandre. Sample CA25. 3) Long axis at 0° to crossed nicols; 4) long axis at 45° to crossed nicols.
- Fig. 5,6 — *Helicosphaera carteri* (Wallich) Kamptner. Sample CC26.
- Fig. 7,8 — *Discoaster* sp. cf. *druggii* Bramlette & Wilcoxon. Sample CC25.
- Fig. 9,10 — *Helicosphaera recta* (Haq) Martini. Sample CC4.
- Fig. 11 — *Cyclicargolithus abisectus* (Mueller) Bukry. Sample CA13.
- Fig. 12 — *Dictyococcites bisecta* (Hay, Moher & Wade) Bukry & Percival. Sample CA3.
- Fig. 13,14 — *Zygrhablithus bijugatus* Deflandre. 13) From Costa dell'Angelo section, sample CA13; 14) from Case Cocuzza section, sample CC4.
- Fig. 15-17 — *Sphenolithus ciperoensis* Bramlette & Wilcoxon. 15) and 16) from Costa dell'Angelo section, sample CA3: 15) long axis at 0° to crossed nicols; 16) long axis at 45° to crossed nicols; 17) from Case Cocuzza section, sample CC4: long axis at 45° to crossed nicols.



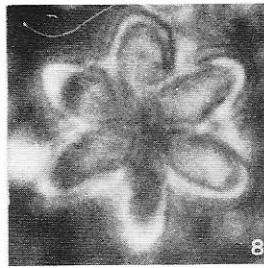
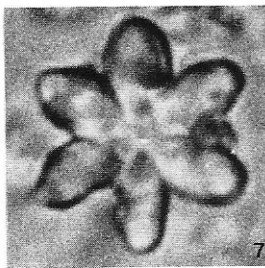
H. ampliaperta



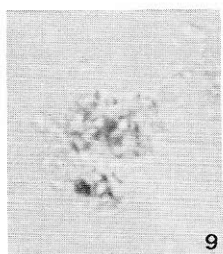
S. heteromorphus



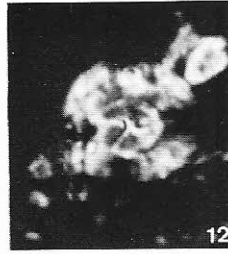
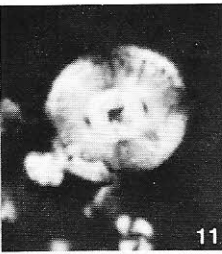
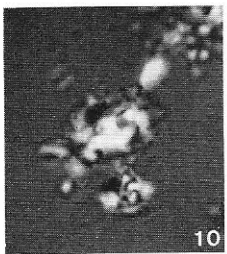
H. carteri



D. sp. cf. druggii



H. recta

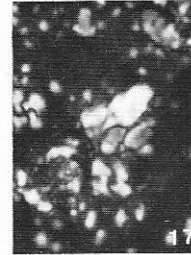


C. abisectus

D. bisecta



Z. bijugatus



S. ciproensis

PLATE 35

Planktonic foraminifera from Case Cocuzza section.

- Fig. 1 — *Globigerina woodi woodi* Jenkins. Sample CC26; x 125.
- Fig. 2 — *Globigerinoides quadrilobatus triloba* (Reuss). Sample CC27; x 125.
- Fig. 3 — *Globoquadrina dehiscens* (Chapman, Parr & Collins). Sample CC27; x 125.
- Fig. 4 — *Globigerina angulisuturalis* Bolli. Sample CC23; x 125.
- Fig. 5 — *Catapsydrax stainforthi* Bolli, Loeblich & Tappan. Sample CC26; x 125.
- Fig. 6 — *Globigerinita glutinata* (Egger). Sample CC26; x 125.
- Fig. 7,8 — *Globigerinoides altiapertura* Bolli. Sample CC26; x 125.
- Fig. 9,10 — *Globigerinoides quadrilobatus primordius* Blow & Banner. Sample CC12; x 75.
- Fig. 11-13 — *Globorotalia kugleri* Bolli. Sample CC25; x 125.
- Fig. 14 — *Neogloboquadrina acrostoma* (Wezel). Sample CC27; x 125.

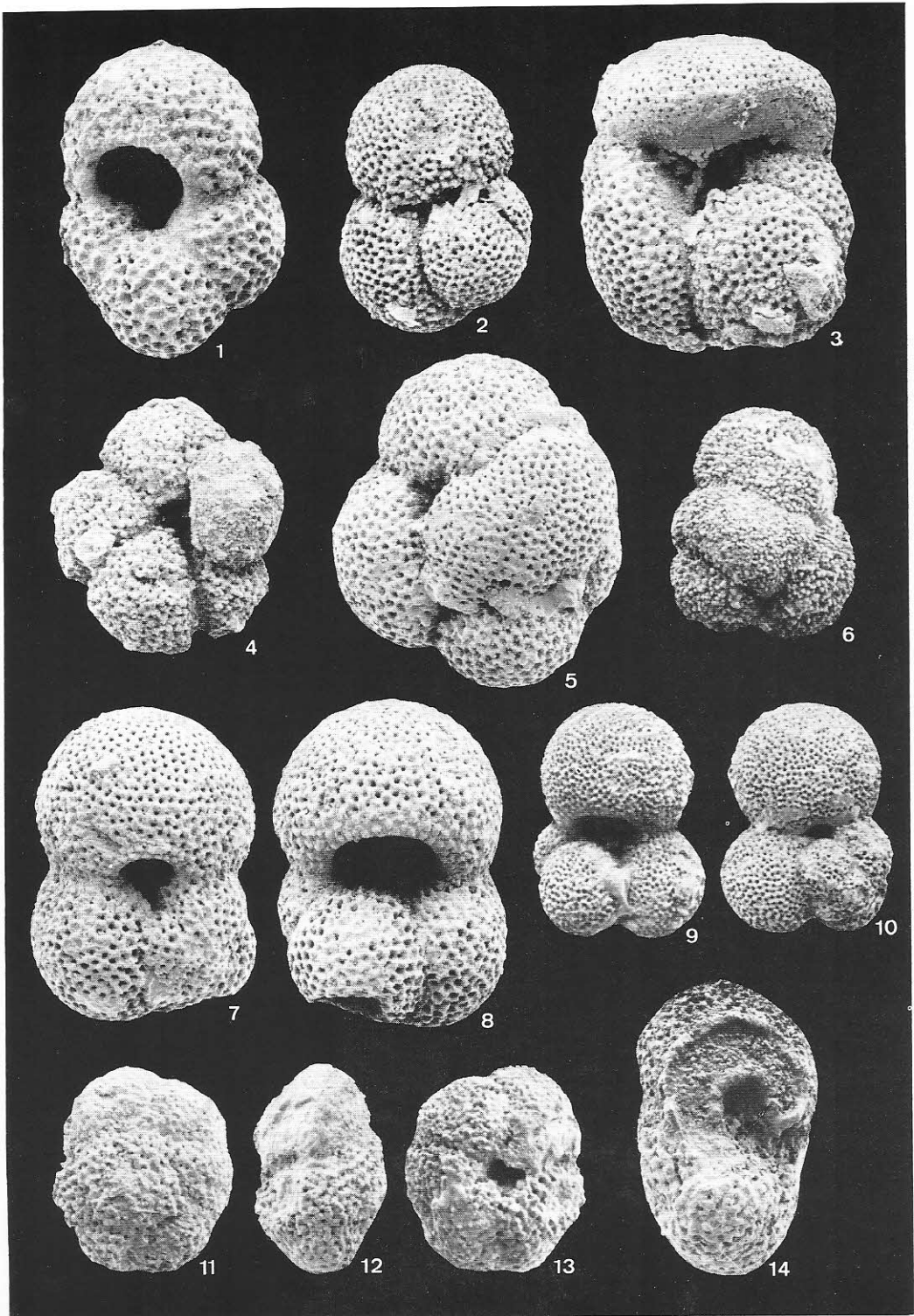


PLATE 36

Planktonic foraminifera from Costa dell'Angelo section.

- Fig. 1,4 — *Globigerina angulisuturalis* Bolli. Sample CA9; x 125.
- Fig. 2 — *Cassigerinella chipolensis* (Cushman & Ponton). Sample CA15; x 250.
- Fig. 3 — *Globoquadrina dehiscens* (Chapman, Parr & Collins). Sample CA25; x 125.
- Fig. 5 — *Globigerinoides quadrilobatus triloba* (Reuss). Sample CA27; x 125.
- Fig. 6 — *Globigerina woodi woodi* Jenkins. Sample CA27; x 125.
- Fig. 7,8 — *Globorotalia praescitula* Blow. Sample CA25; x 125.
- Fig. 9,10 — *Globigerinoides quadrilobatus primordius* Blow & Banner. Sample CA16;
x 75.
- Fig. 11-13 — *Neogloboquadrina acrostoma* (Wezel). Sample CA25; x 125.
- Fig. 14 — *Globigerinoides sicanus* De Stefani. Sample CA27; x 125.

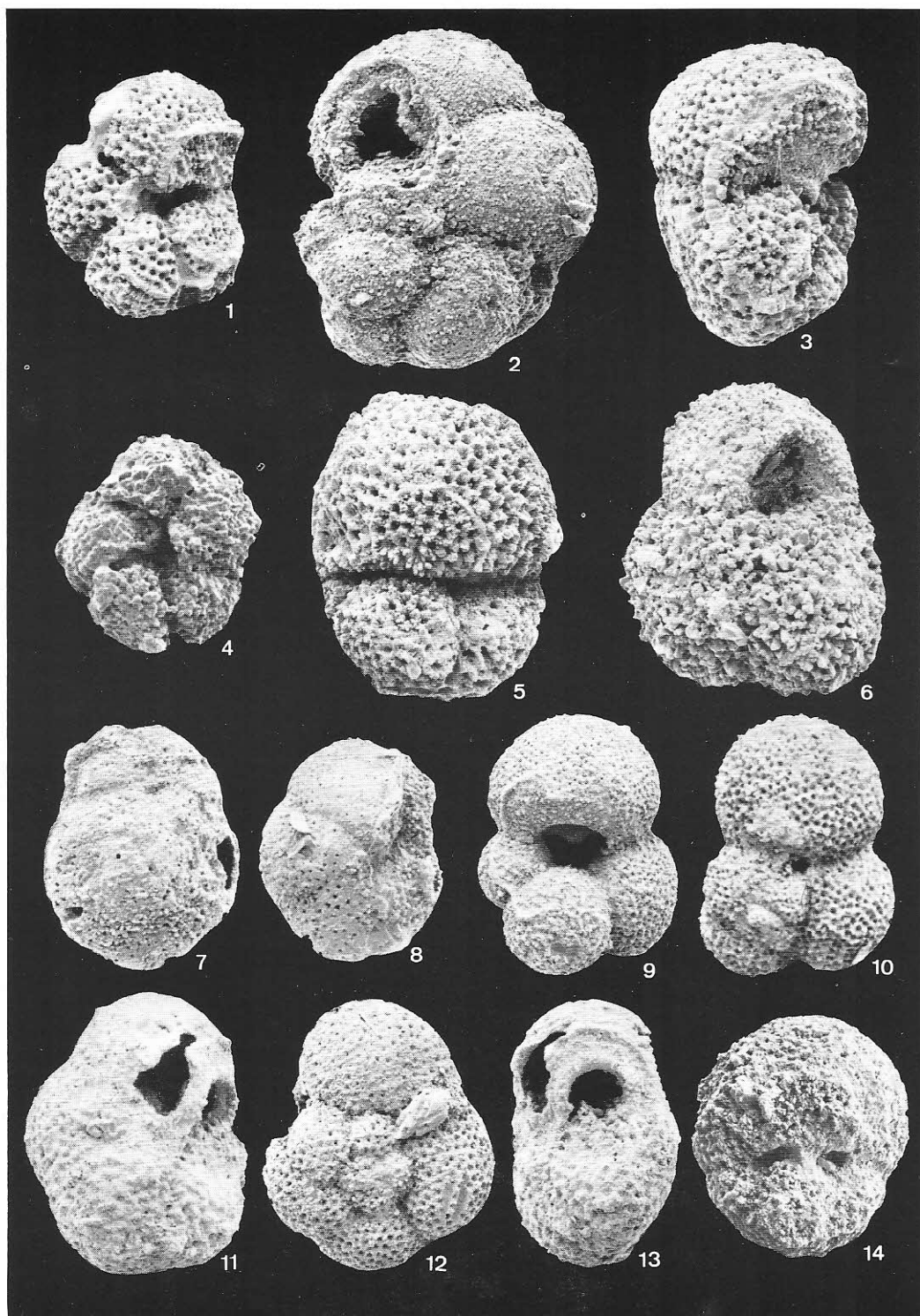


PLATE 37

Benthonic foraminifera from Case Cocuzza and Costa dell'Angelo sections.

- Fig. 1 — *Marginulinopsis fragaria* (Guembel). Sample CC15; x 50.
- Fig. 2 — *Vaginulina* cf. *aculeata* (Cushman & Gray). Sample CC15; x 50.
- Fig. 3 — *Bolivina reticulata* Hantken. CA21; x 110.
- Fig. 4 — *Bolivina hebes* Macfadyen. Sample CC25; x 150.
- Fig. 5,8 — *Bolivina koessenensis* Lindenberg. Sample CC15; 5) x 100; 8) enlargement of the younger part x 300.
- Fig. 6 — *Bolivina budensis* (Hantken). Sample CA19; x 150.
- Fig. 7 — *Bolivina miocenica* (Gianotti). Sample CA27; x 160.
- Fig. 9 — *Rectobolivina costifera* (Cushman). Sample CA13; x 95.
- Fig. 10 — *Virgulopsis pupoides* (Nyiro). Sample CA14; x 210.
- Fig. 11 — *Bulimina alsatica* Cushman & Parker. Sample CA13; x 160.
- Fig. 12 — *Uvigerina bealli* Cushman & Bermudez. Sample CC27; x 65.

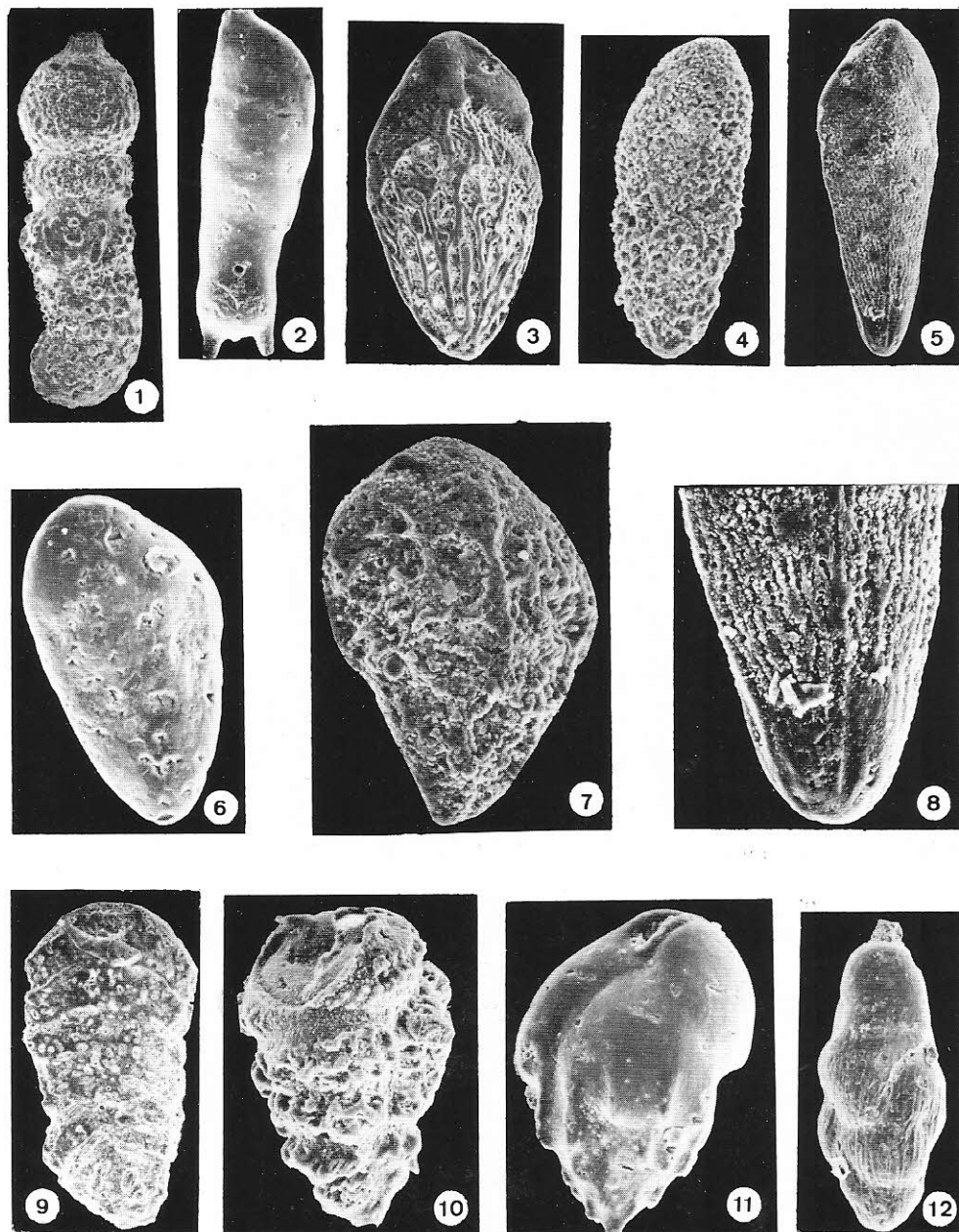


PLATE 38

Benthonic foraminifera from Case Cocuzza and Costa dell'Angelo sections.

- Fig. 1 — *Uvigerina eocaena* Guembel *mexicana* Nuttal group. Sample CC15; x 125.
- Fig. 2 — *Uvigerina gallowayi* Cushman group. Sample CC16; x 120.
- Fig. 3 — *Uvigerina* cf. *longistriata* Perconig. Sample CA16; x 110.
- Fig. 4 — *Rectuvigerina* cf. *elegans* (Hantken). Sample CC21; x 100.
- Fig. 5 — *Uvigerina hantkeni* Cushman & Edwards *nutalli* Cushman & Edwards group. Sample CC15; x 100.
- Fig. 6 — *Uvigerina flinti* Cushman. Sample CC27; x 110.
- Fig. 7 — *Trifarina angulosa* (Williamson). Sample CC15; x 175.
- Fig. 8 — *Siphouvigerina multicostata* (Bergquist). Sample CA13; x 130.
- Fig. 9 — *Trifarina tubulifera* (Kaasschieter). Sample CA13; x 115.
- Fig. 10 — *Hopkinsina gracilis* (Reuss). Sample CC22; x 100.
- Fig. 11 — *Planulina costata* (Hantken). Sample CC15; x 95.
- Fig. 12 — *Victoriella aquitanica* Debourle & Delmas. Sample CC23; x 30.

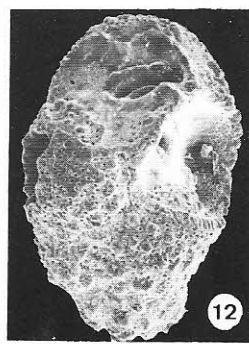
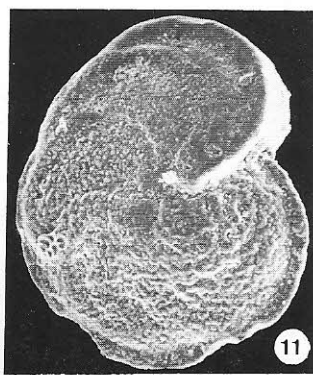
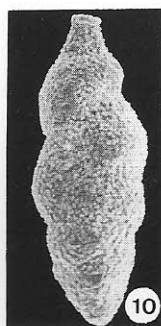
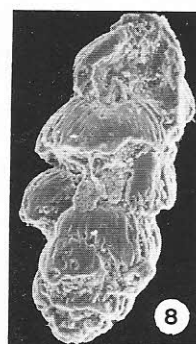
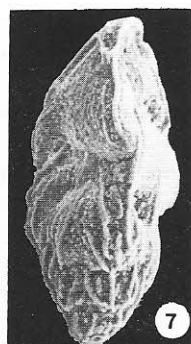
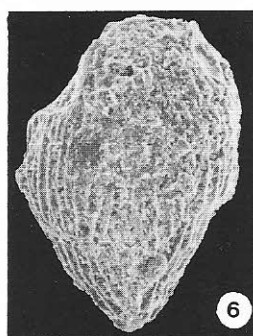
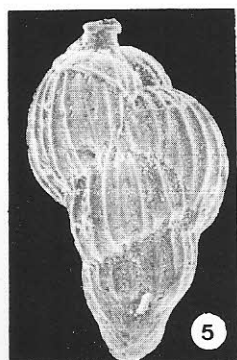
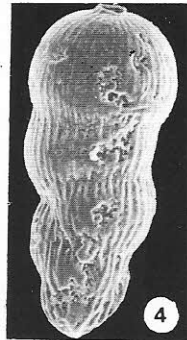
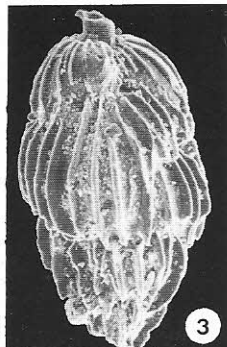
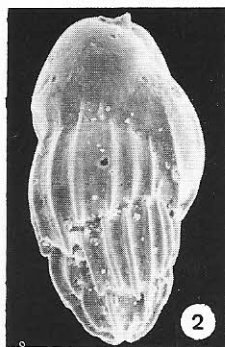
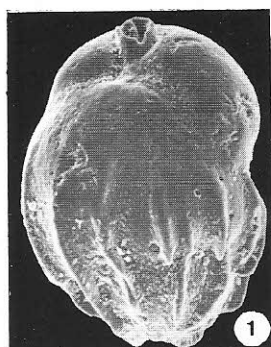


PLATE 39

Benthonic foraminifera from Case Cocuzza and Costa dell'Angelo sections.

- Fig. 1 — *Elphidium crispum* (Linné). Sample CC27; x 65.
- Fig. 2 — *Elphidium fichtelianum praeforme* Papp. Sample CA25; x 125.
- Fig. 3 — *Elphidium ortenburgense* (Egger). Sample CA16; x 150.
- Fig. 4 — *Anomalina granosa* (Hantken). Sample CC15; x 50.
- Fig. 5,6 — *Heterolepa costata* Franzén. Sample CC15; x 65.
- Fig. 7 — *Osangularia pteromphalia* (Guembel). Sample CC15; x 100.
- Fig. 8,9 — *Almaena* sp. Both sides. Sample CC15; x 120.

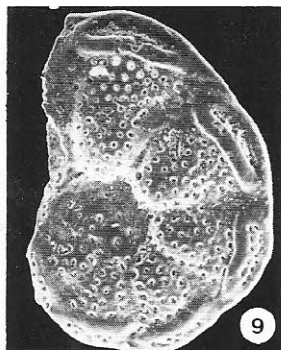
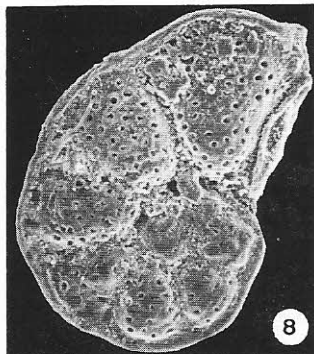
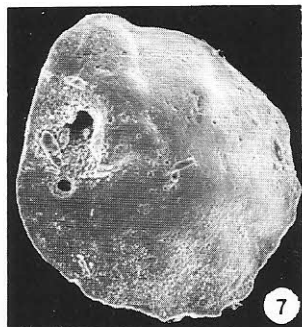
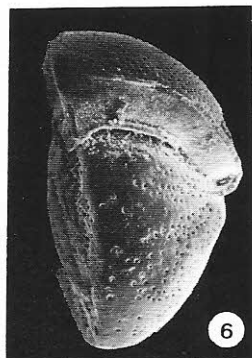
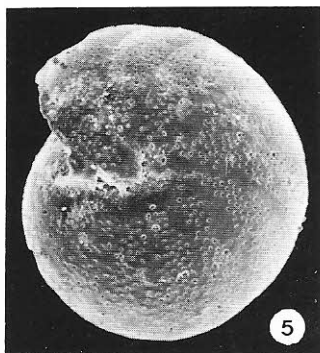
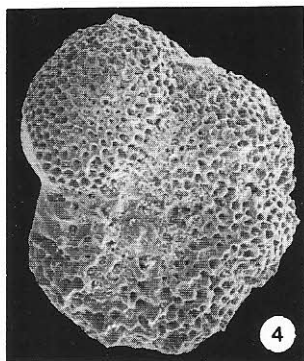
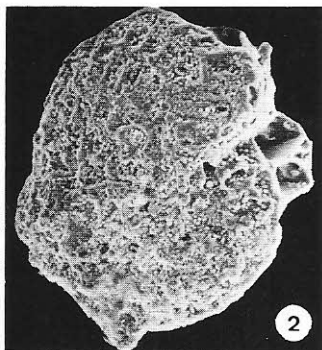
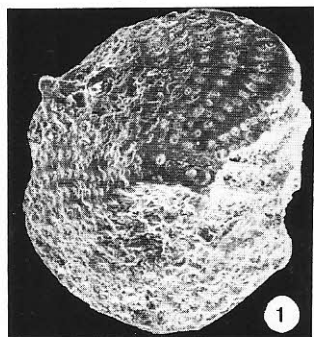


PLATE 40

Planktonic foraminifera from Navazuelo section.

- Fig. 1 — *Globigerinoides primordius* Blow & Banner. Sample NA7; x 60.
- Fig. 2 — *Globoquadrina venezuelana* (Hedberg). Sample NA13; x 60.
- Fig. 3,4 — *Globigerina angulisuturalis* Bolli. Sample NA10; x 120.
- Fig. 5-7 — Specimens close or identical to *Globoquadrina dehiscens* (Chapman, Parr & Collins). Sample NA5; x 120.
- Fig. 8 — Specimens close or identical to *Globoquadrina dehiscens* (Chapman, Parr & Collins). Sample NA2; x 120.
- Fig. 9 — *Globoquadrina globularis* Bermudez close to *Gq. altispira globosa* Bolli. Sample NA2; x 60.
- Fig. 10 — *Globoquadrina tripartita* (Koch). Sample NA2; x 60.
- Fig. 11 — *Neogloboquadrina opima opima* (Bolli). Sample NA13; x 60.
- Fig. 12 — *Globorotalia kugleri* Bolli (1). Sample NA2; x 120.
- Fig. 13-17 — *Globorotalia kugleri* Bolli (2). Sample NA5; x 120.
- Fig. 18,19 — *Globorotalia kugleri* Bolli (2). Sample NA2; x 120.
- Fig. 20 — *Globigerinita glutinata* (Egger). Sample NA7; x 120.

(1) Selection and determination by Molina.

(2) Selection and determination by Zachariasse.

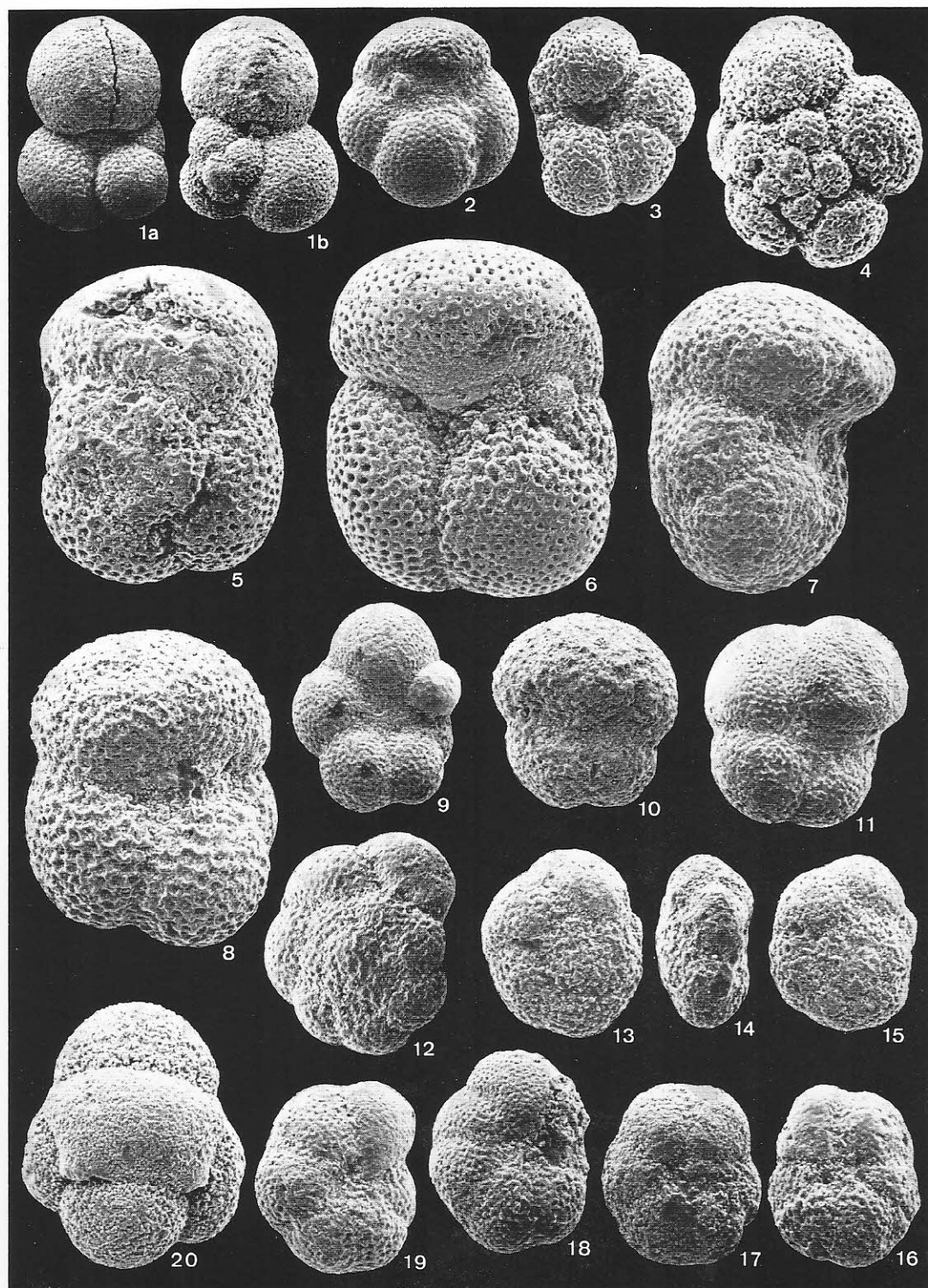


PLATE 41

Planktonic foraminifera from Barranco Blanco section.
All specimens x 120.

- Fig. 1 – *Globigerinoides primordius* Blow & Banner. Sample BB19.
- Fig. 2 – *Neogloboquadrina acrostoma* (Wezel). Sample BB23.
- Fig. 3 – *Globoquadrina dehiscens* (Chapman, Parr & Collins). Sample BB19.
- Fig. 4 – *Globigerina woodi woodi* Jenkins. Sample BB19.
- Fig. 5 – *Globigerinoides altiapertura* Bolli. Sample BB25.
- Fig. 6 – *Globigerinoides trilobus trilobus* (Reuss). Sample BB25.
- Fig. 7 – *Globoquadrina globularis* Bermudez close to *Gq. altispira globosa* Bolli. Sample BB19.
- Fig. 8 – *Globigerina angulisuturalis* Bolli. Sample BB5.
- Fig. 9 – *Globigerina angulisuturalis* Bolli. Sample BB1.
- Fig. 10 – *Globigerina angulisuturalis* Bolli. Sample BB8.
- Fig. 11 – *Globorotalia kugleri* Bolli (1). Sample BB16.
- Fig. 12 – *Globorotalia kugleri* Bolli (1). Sample BB16.
- Fig. 13 – *Globorotalia kugleri* Bolli group. Sample BB8.
- Fig. 14 – *Globorotalia kugleri* Bolli group. Sample BB8.
- Fig. 15 – *Globorotalia kugleri* Bolli (2). Sample BB19.
- Fig. 16 – *Globorotalia kugleri* Bolli (2). Sample BB19.
- Fig. 17 – *Globorotalia kugleri* Bolli (2). Sample BB19.
- Fig. 18 – *Globorotalia kugleri* Bolli (2). Sample BB19.

(1) Selection and determination by Molina.

(2) Selection and determination by Zachariasse.

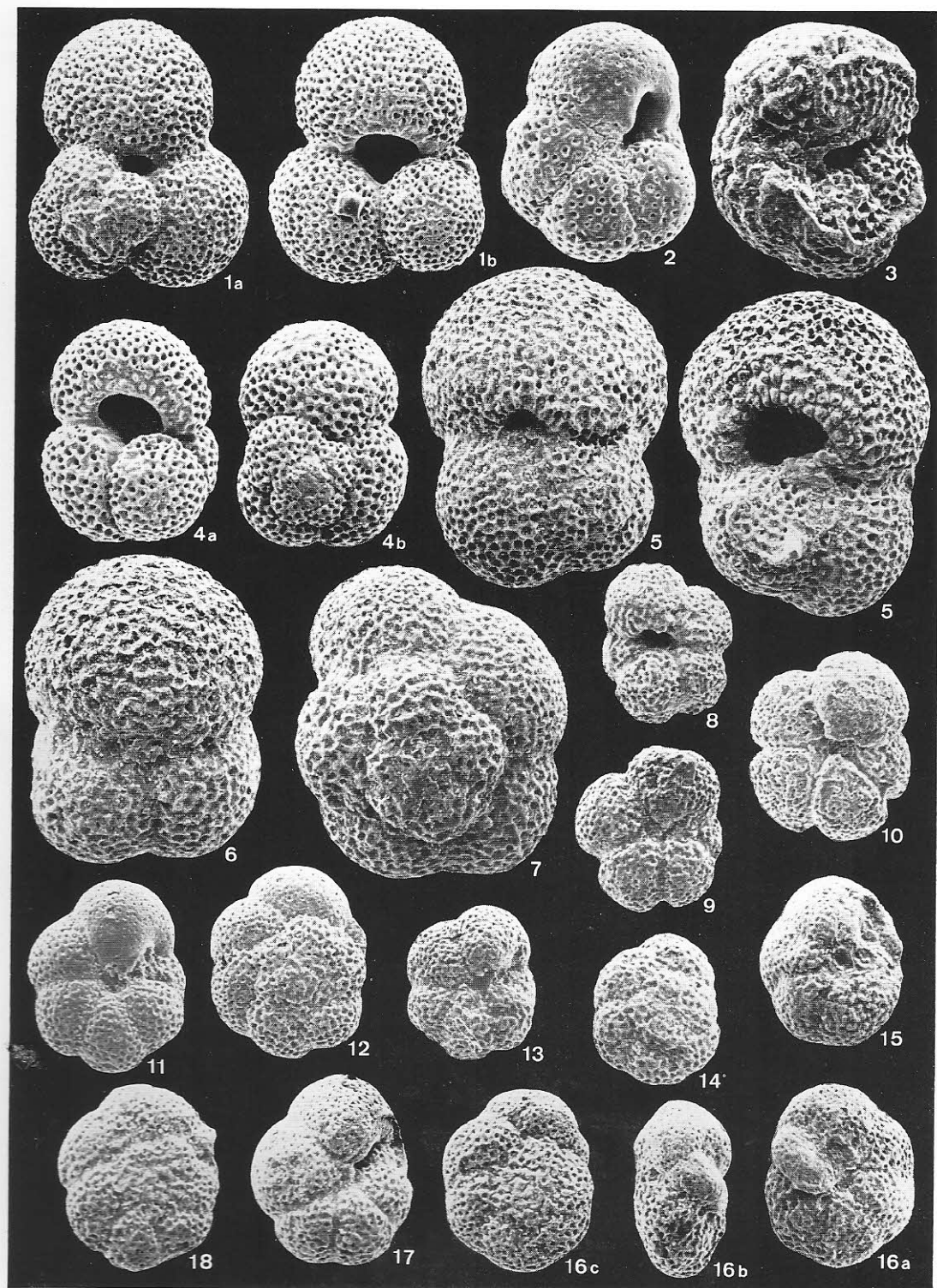


PLATE 42

Benthonic foraminifera from Navazuelo and Barranco Blanco sections.

- Fig. 1,2 — *Planctostoma ? oligocaena* Sztrakos. Sample BB11; x 130.
- Fig. 3 — *Verneuilina triquetra* (Muenster). Sample NA3; x 60.
- Fig. 4 — *Tritaxia cubensis* (Cushman & Bermudez). Sample NA7; x 20.
- Fig. 5 — *Marginulinopsis pseudodecorata* (Hagn). Sample BB1; x 65.
- Fig. 6 — *Marginulinopsis asperuliformis* (Nuttall). Sample BB5; x 70.
- Fig. 7 — *Textularia lanceolata* (Karrer). Sample BB8; x 50.
- Fig. 8 — *Hopkinsina gracilis* (Reuss). Sample BB7; x 110.
- Fig. 9 — *Ammobaculites humboldti* (Reuss). Sample NA7; x 28.
- Fig. 10 — *Guadryina irregularis* Hantken. Sample BB13; x 55.
- Fig. 11 — *Tritaxia szaboi* (Hantken). Sample BB16; x 17.

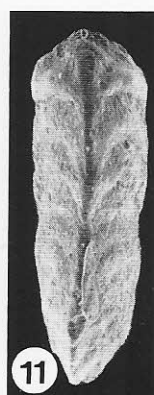
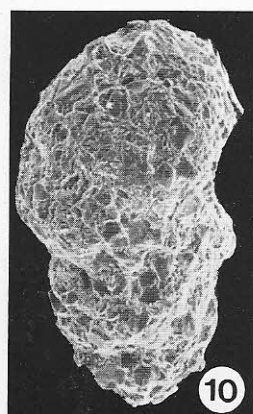
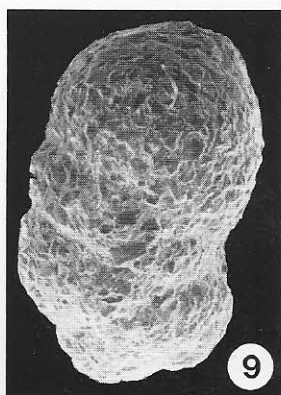
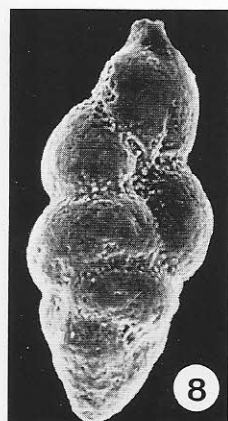
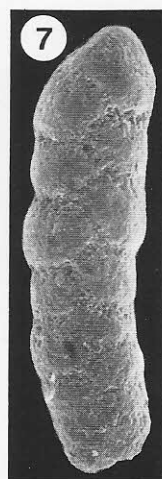
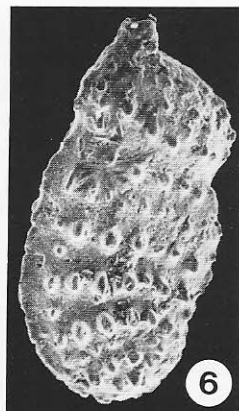
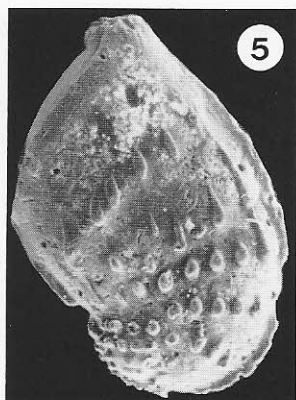
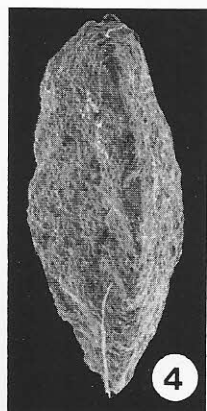
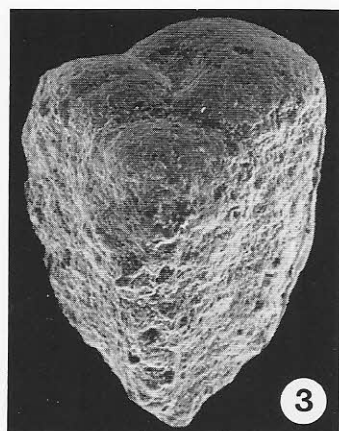
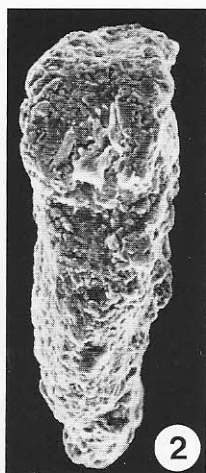
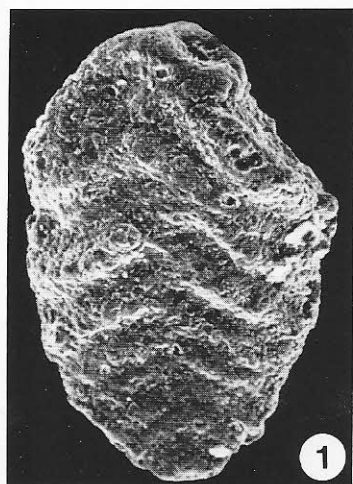


PLATE 43

Benthonic foraminifera from Barranco Blanco section.

- Fig. 1 — *Uvigerina schwageri* Brady. Sample BB7; x 70.
Fig. 2 — *Trifarina budensis* (Hantken). Sample BB1; x 190.
Fig. 3 — *Globocassidulina inexculta* Franzénau. Sample BB13; x 135.
Fig. 4,6,7 — *Cibicidoides* cf. *sulzensis* (Hermann). Sample BB13; x 105.
Fig. 5 — *Cassidulina margareta* Karrer. Sample BB1; x 275.
Fig. 8 — *Allomorphina macrostoma* Karrer. Sample BB1; x 180.

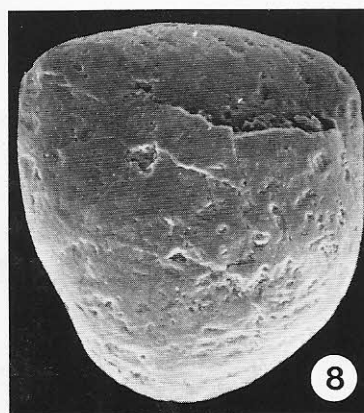
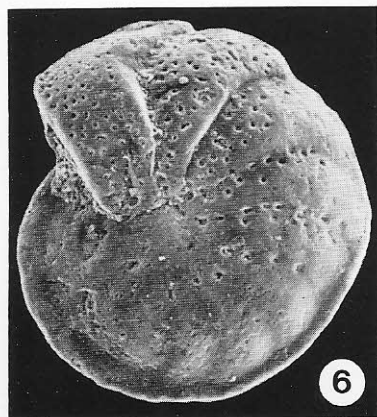
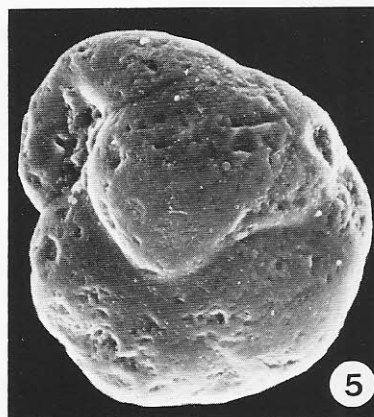
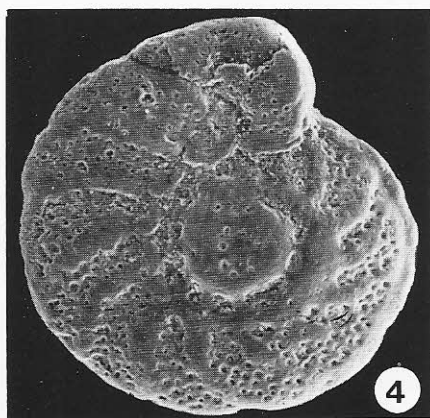
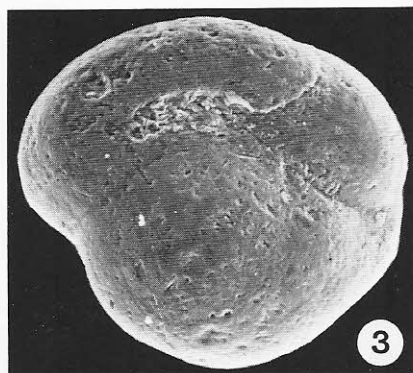
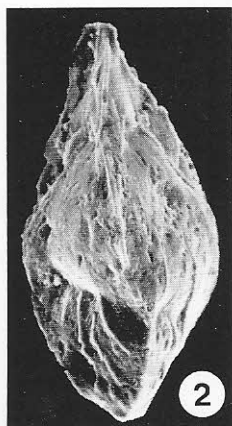
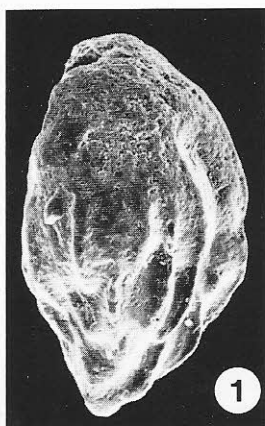


PLATE 44

Benthonic foraminifera from Navazuelo and Barranco Blanco sections.

Fig. 1 — *Pararotalia pinarensis* (Cushman & Bermudez). Sample BB11; x 50.

Fig. 2 — *Almaena hieroglyphica* (Sigal). Sample BB6; x 100.

Fig. 3 — *Hopkinsina tenuistriata* (Reuss). Sample BB23; x 140.

Fig. 4 — *Bolivina hebes* Macfadyen. Sample BB23; x 175.

Fig. 5 — *Pararotalia viennoti* (Greig). Sample NA7; x 25.

Fig. 6 — *Almaena delmasi* Rey. Sample BB1; x 90.

Fig. 7 — *Victoriella aquitanica* Debourle & Delmas. Sample BB8; x 30.

Fig. 8 — *Bolivina tectiformis* Cushman. Sample BB25; x 175.

Fig. 9 — *Cassidulinoides mekranense* Haque. Sample BB25; x 175.

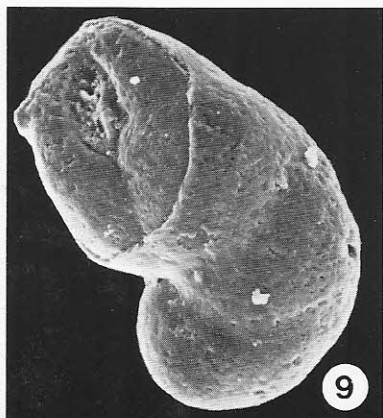
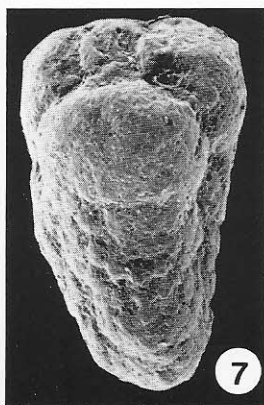
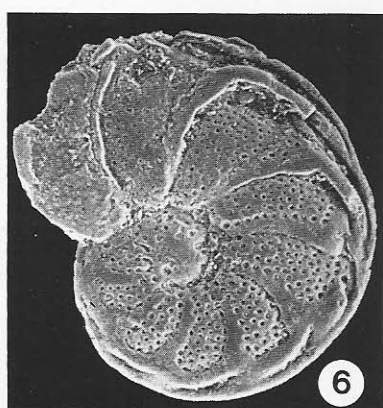
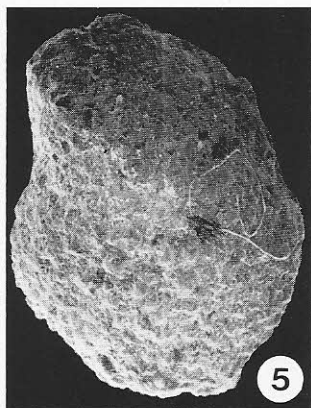
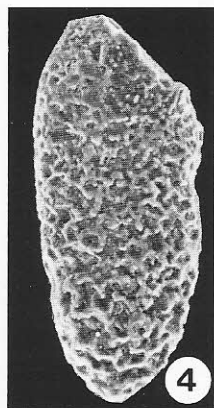
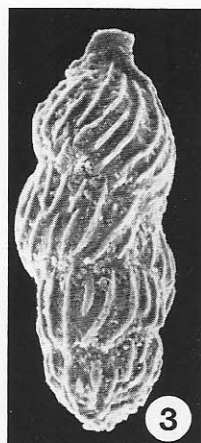
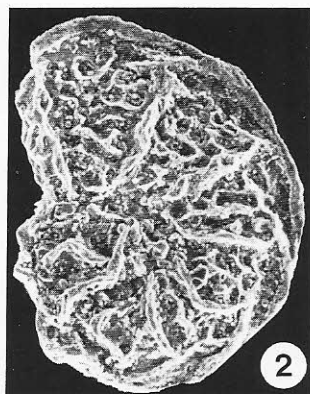
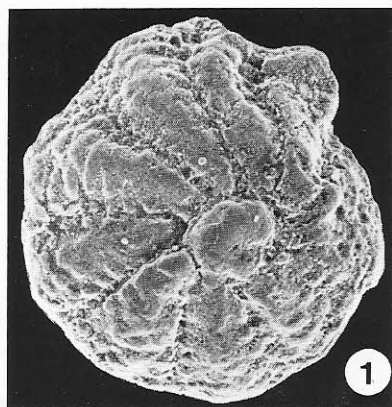


PLATE 45

Benthonic foraminifera from Navazuelo and Barranco Blanco sections.

- Fig. 1 — *Bolivinella rugosa* Howe. Sample NA8; x 175.
- Fig. 2 — *Uvigerina mantaensis* Cushman & Edwards. Sample NA4; x 90.
- Fig. 3,6 — *Nonion elongatum* (d'Orbigny). Sample NA8; x 120.
- Fig. 4,5 — *Nonion grateloupi* (d'Orbigny). Sample NA4; x 150.
- Fig. 7 — *Bulimina palmerae* Parker & Bermudez. Sample BB16; x 130.
- Fig. 8 — *Reussella oligocaenica* Cushman & Todd. Sample NA3; x 115.

