

**Explanation
Plates**

Plate 1

(a- ventral view b-side view c-dorsal view)

Fig.

1a-c *Globoconusa daubjergensis* (Brönnimann); Late Danian, Dakhla Formation, northwest Bir Bidni section, sample No. 14, *Parvlarugoglobigerina eugubina-Praemurica uncinata* Zone.

2 *Heterohelix globulosa* (Ehrenberg); Early Maastrichtian, Khoman Formation, northwest Ain Maqfi section, sample No. 24, *Rugoglobigerina hexacamerata* Zone.

3 *Heterohelix navaroensis* Loeblich; Late Maastrichtian, Khoman Formation, northwest Bir Bidni section, sample No. 1, *Contusotruncana contusa* undifferentiated Zone.

4 *Heterohelix striata* (Ehrenberg); Late Maastrichtian, Khoman Formation, Bir Murr section, sample No. 1, *Contusotruncana contusa* undifferentiated Zone.

5 *Planoglobulina carseyae* (Plummer); Late Maastrichtian, Khoman Formation, Bir Murr section, sample No. 2, *Contusotruncana contusa* undifferentiated Zone.

6 *Planoglobulina glabrata* (Cushman); Late Maastrichtian, Khoman Formation, northwest Bir Bidni section, sample No. 13, *Contusotruncana contusa* undifferentiated Zone.

7 *Pseudotextularia elegans* (Rzehak); Late Maastrichtian, Khoman Formation, northwest Bir Bidni section, sample No. 13, *Contusotruncana contusa* undifferentiated Zone.

8 *Racemiguembelina fructicosa* (Egger); Late Maastrichtian, Khoman Formation, Bir Murr section, sample No. 5, *Contusotruncana contusa* undifferentiated Zone.

9a-d *Racemiguembelina powelli* Smith & Pessagno; Late Maastrichtian, Khoman Formation, northwest Bir Bidni section, sample No. 1, *Contusotruncana contusa* undifferentiated Zone.

Cont. Plate 1

(a- ventral view b-side view c-dorsal view)

Fig.

- 10 *Pseudoguembelina excolata* (Cushman); Late Maastrichtian, Khoman Formation, northwest Ain Maqfi section, sample No. 52, *Contusotruncana contusa* undifferentiated Zone.
- 11 *Pseudoguembelina costulata* (Cushman); Late Maastrichtian, Khoman Formation, northwest Ain Maqfi section, sample No. 52, *Contusotruncana contusa* undifferentiated Zone.
- 12a-b *Pseudoguembelina palpebra* (Brönneimnn and Brown, 1953); Late Maastrichtian, Khoman Formation, sample No. 13, northwest Bir Bidni section, *Contusotruncana contusa* undifferentiated Zone.
- 13a-b *Globigerinelloides prairiehillensis* (Passagno, 1967); Late Maastrichtian, Khoman Formation, northwest Bir Bidni section, sample No. 13, *Contusotruncana contusa* undifferentiated Zone.
- 14a-b *Hedbergella holmdelensis* Olsson, 1964, Late Maastrichtian, Khoman Formation, south Qaret Sheikh Abd Alla section section, sample No. 2, *Contusotruncana contusa* undifferentiated Zone.
- 15a- c *Globanomalina compressa* (Plummer, 1926); Late Danian, Dakhla Formation, northwest Bir Bidni section, sample No. 15, *Parvlarugoglobigerina eugubina*- *Praemurica uncinata* Zone.
- 16a-c *Globanomalina pseudomenardii* (Bolli, 1957); Middle Thanetian, Tarawan Formation, northern slope of El Quss Abu Said section, sample No. 3, *Globanomalina pseudomenardii* Zone.

Plate 1

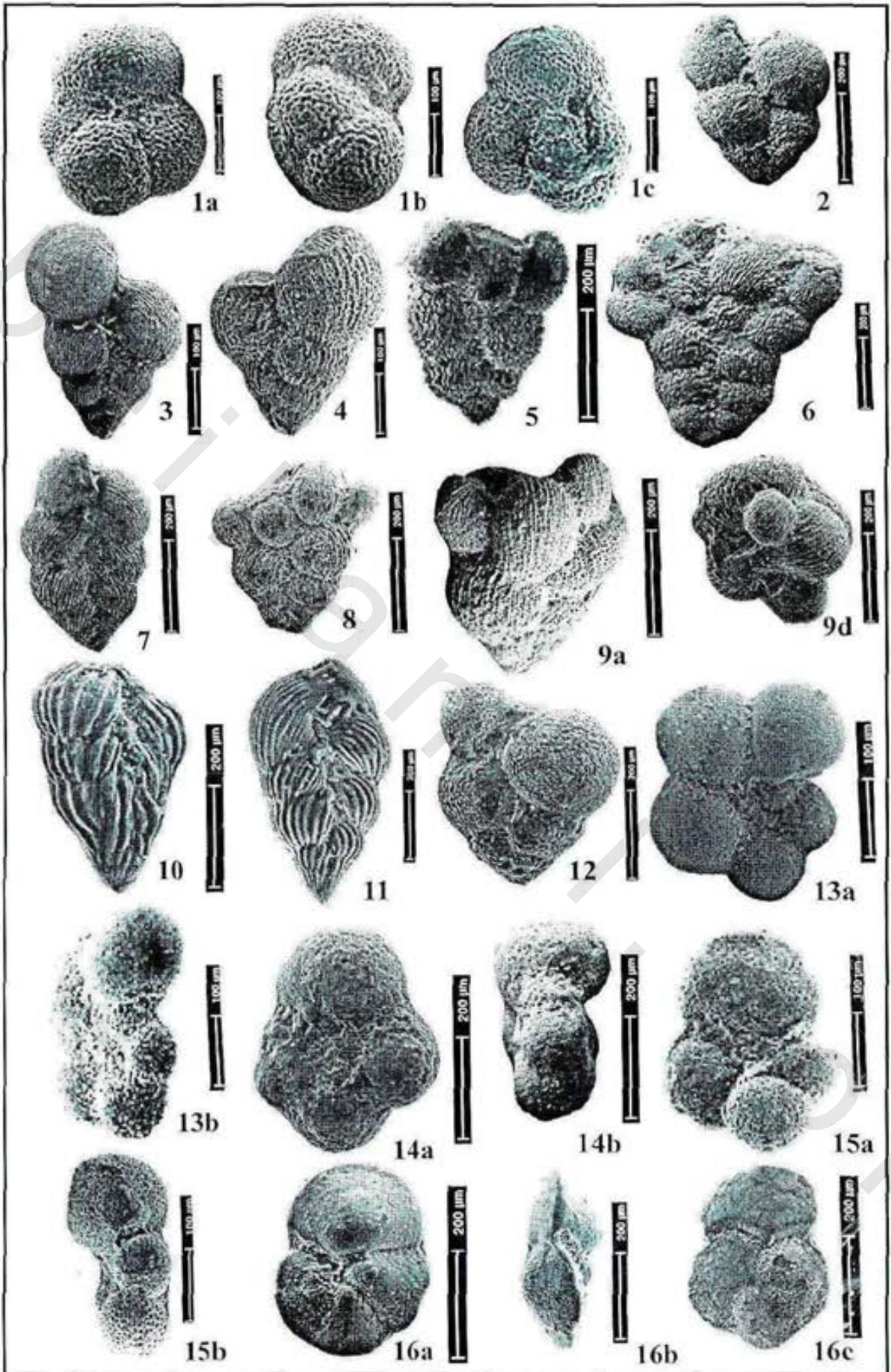


Plate 2

(a- ventral view b-side view c-dorsal view)

- Fig.**
- 1a-b** *Pseudohastigerina micra* (Cole); Middle Ypresian, Ain Dalla Formation, Ain Dalla section, sample 18, *Morozovella aragonensis*/*M. formosa* Zone.
- 2a-b** *Pseudohastigerina wilcoxensis* (Cushman & Ponton); Early Ypresian, Esna Formation, northern slope of El Quss Abu Said section, sample No. 9, *Pseudohastigerina wilcoxensis*/*Morozovella velascoensis* Subzone.
- 3a-b** *Contusotruncana contusa* (Cushman); Late Maastrichtian, Khoman Formation, northwest Bir Bidni section, sample No. 1, *Contusotruncana contusa* undifferentiated Zone.
- 4a- c** *Contusotruncana fornicata* (Plummer); Early Maastrichtian, Khoman Formation, northwest Ain Maqfi section, sample No. 24, *Rugoglobigerina hexacamerata* Zone.
- 5a-c** *Gansserina gansseri* (Bolli, 1951); Late Maastrichtian, Khoman Formation, northwest Bir Bidni section, sample No. 1, *Contusotruncana contusa* undifferentiated Zone.
- 6a-c** *Globotruncana aegyptiaca* Nakkady; Early Maastrichtian, Khoman Formation, northwest Ain Maqfi section, sample No. 24, *Rugoglobigerina hexacamerata* Zone.
- 7a-c** *Globotruncana arca* (Cushman); Early Maastrichtian, , Khoman Formation, northwest Ain Maqfi section section, sample No. 24, *Rugoglobigerina hexacamerata* Zone.
- 8a-b** *Globotruncana bulloides* Vogler; Early Maastrichtian, , Khoman Formation, northwest Ain Maqfi section, sample No. 24, *Globotruncana aegyptiaca* Zone.
- 9a-b** *Globotruncana duwi* (Nakkady); Early Maastrichtian, Khoman Formation, northwest Ain Maqfi section, sample No. 30, *Rugoglobigerina hexacamerata* Zone.
- 10a-b** *Globotruncana rosetta* (Carsey); Late Maastrichtian, Khoman Formation, northwest Bir Bidni section, sample No. 13, *Contusotruncana contusa* undifferentiated Zone.

Plate 2

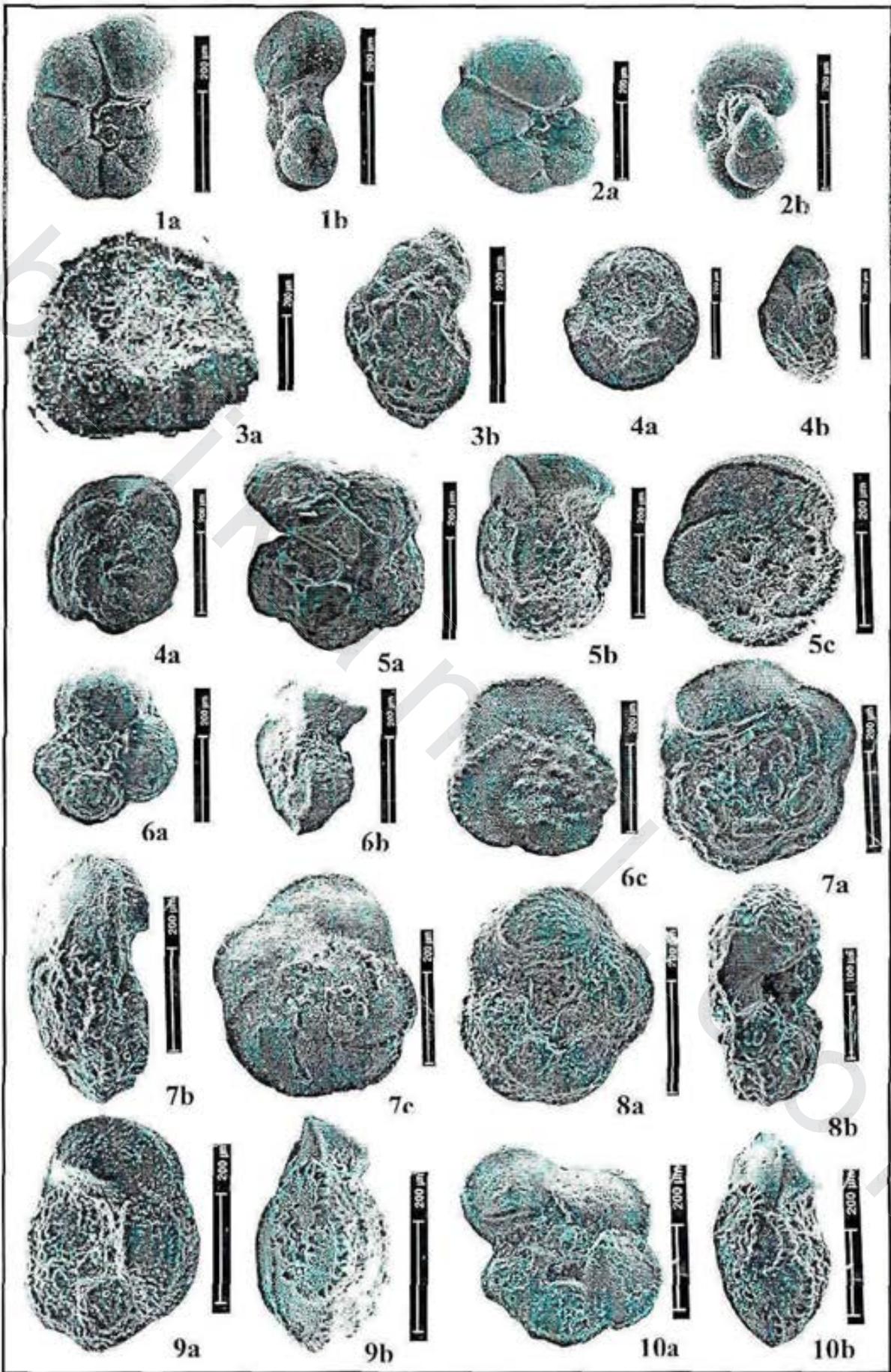


Plate 3

(a- ventral view b-side view c-dorsal view)

- Fig.**
- 1a-b** *Globotruncana orientalis* (El-Naggar); Late Maastrichtian, Khoman Formation, northwest Bir Bidni section, sample No. 1, *Contusotruncana contuse* undifferentiated Zone.
- 2a-b** *Globotruncanita pettersi* (Gandolfi); Early Maastrichtian, Khoman Formation, northwest Ain Maqfi section, sample No. 31, *Gansserina gansseri* Zone.
- 3a-c** *Globotruncanita stuartiformis* (Dalbiez); Early Maastrichtian, Khoman Formation, northwest Ain Maqfi section, sample No. 24, *Rugoglobigerina hexacamerata* Zone.
- 4a-b** *Globotruncanita stuarti* (de Lapparent); Early Maastrichtian, Khoman Formation, northwest Ain Maqfi section, sample No. 24, *Rugoglobigerina hexacamerata* Zone.
- 5a** *Globotruncanella havanensis* (Voorwijk); Late Maastrichtian, Khoman Formation, northwest Bir Bidni section, sample No. 1, *Contusotruncana contuse* undifferentiated Zone.
- 6a** *Globotruncanella petaloidea* (Gandolfi); Late Maastrichtian, Khoman Formation, southeast Qaret Sheikh Abd Alla section, sample No. 3, *Contusotruncana contuse* undifferentiated Zone.
- 7a** *Rugoglobigerina hexacamerata* (Brönnimann); Late Maastrichtian, Khoman Formation, northwest Bir Bidni section, sample No. 1, *Contusotruncana contuse* undifferentiated Zone.
- 8a-b** *Rugoglobigerina macrocephala* (Brönnimann); Late Maastrichtian, Khoman Formation, northwest Bir Bidni section, sample No. 13, *Contusotruncana contuse* undifferentiated Zone.
- 10a-b** *Rugoglobigerina reicheli* Brönnimann; Late Maastrichtian, Khoman Formation, northwest Bir Bidni section, sample No. 13, *Contusotruncana contuse* undifferentiated Zone.
- 11a-b** *Rugoglobigerina scotti* Brönnimann; Late Maastrichtian, Khoman Formation, Shakhs El-Obeiyid section, sample No. 2, *Contusotruncana contuse* undifferentiated Zone.

Plate 3

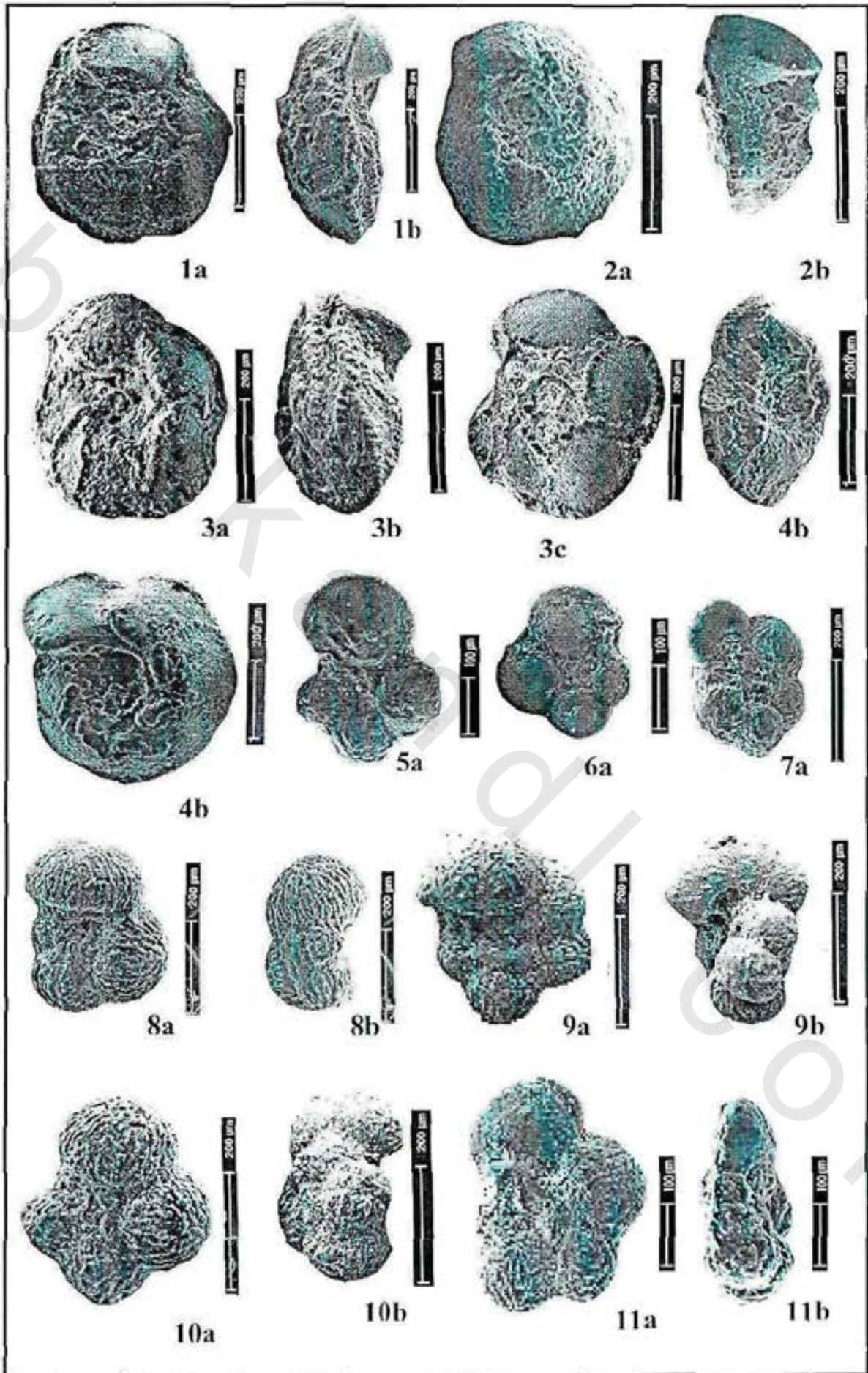


Plate 4

(a- ventral view b-side view c-dorsal view)

Fig.

1a-b *Praemurica inconstans* (Subbotina, 1953); Late Danian, Dakhla Formation, north Ain Maqfi section, sample No. 54, *Parvlarugoglobigerina eugubina*-*Praemurica uncinata* Zone.

2a-b *Praemurica trinidadensis* (Bolli, 1957); Late Danian, Dakhla Formation, Shakhs El Obeiyid section, sample No. 5, *Parvlarugoglobigerina eugubina*-*Praemurica uncinata* Zone.

3a-b *Praemurica uncinata* (Subbotina, 1953); Latest Danian, Dakhla Formation, Ain Maqfi section, sample No. 5, *Parvlarugoglobigerina eugubina*-*Praemurica uncinata* Zone.

4b *Igorina albeari* (Cushman and Bermúdez, 1949); Selandian, Dakhla Formation, northwest Bir Bidni section, sample No. 22, *Morozovella angulata*-*Igorina albeari* Zone.

5, 6a-b *Igorina pusilla* (Bolli, 1957); Selandian, Dakhla Formation, northwest Bir Bidni section, sample No. 22, *Morozovella angulata*-*Igorina albeari* Zone.

7a-b *Acarinina angulosa* (Bolli, 1957); Middle Thanetian, Tarawan Formation, northern El Quss Abu Said section, sample No. 3, *Globanomalina pseudomenardii* Zone.

8a-b *Acarinina mckannai* (White, 1928); Middle Thanetian, Tarawan Formation, northwest Bir Bidni section, sample No. 27, *Globanomalina pseudomenardii* Zone.

9 *Acarinina nitida* (Martin, 1943); Middle Thanetian, Tarawan Formation, northwest Bir Bidni section, sample No. 27, *Globanomalina pseudomenardii* Zone.

10 *Acarinina primitive* (Finlay, 1947); Middle Thanetian, Tarawan Formation, northwest Bir Bidni section, sample No. 27, *Globanomalina pseudomenardii* Zone.

Cont. Plate 4

(a- ventral view b-side view c-dorsal view)

- Fig.**
- 11a** *Acarinina pentacamerata* (Subbotina); Middle Ypresian, Esna Formation, northern slope of El Quss Abu Said section, sample No. 20, *Morozovella aragonensis/M. formosa* Zone.
- 12a-c** *Acarinina sibaiaensis* (El Naggari); Early Ypresian, Esna Formation, northern slope of El Quss Abu Said, sample No. 8, *Acarinina sibaiaensis/Pseudohastigerina wilcoxensis* Subzone.
- 13a-c** *Acarinina strabocella* (Loeblich & Tappan); Early Ypresian, Esna Formation, southern slope of El Quss Abu Said, sample No. 6, *Globanomalina pseudomenardii* Zone.
- 14a-b** *Acarinina soldadoensis* (Brönneimann); Early Ypresian, Esna Formation, southeast Qur Hadida, sample No. 2, *Morozovella subbotinae* Zone.
- 15a-b** *Acarinina wilcoxensis* (Cushman & Ponton); Early Ypresian, Esna Formation, Gabal Sofra section, sample No. 2, *Morozovella subbotinae* Zone.

Plate 4

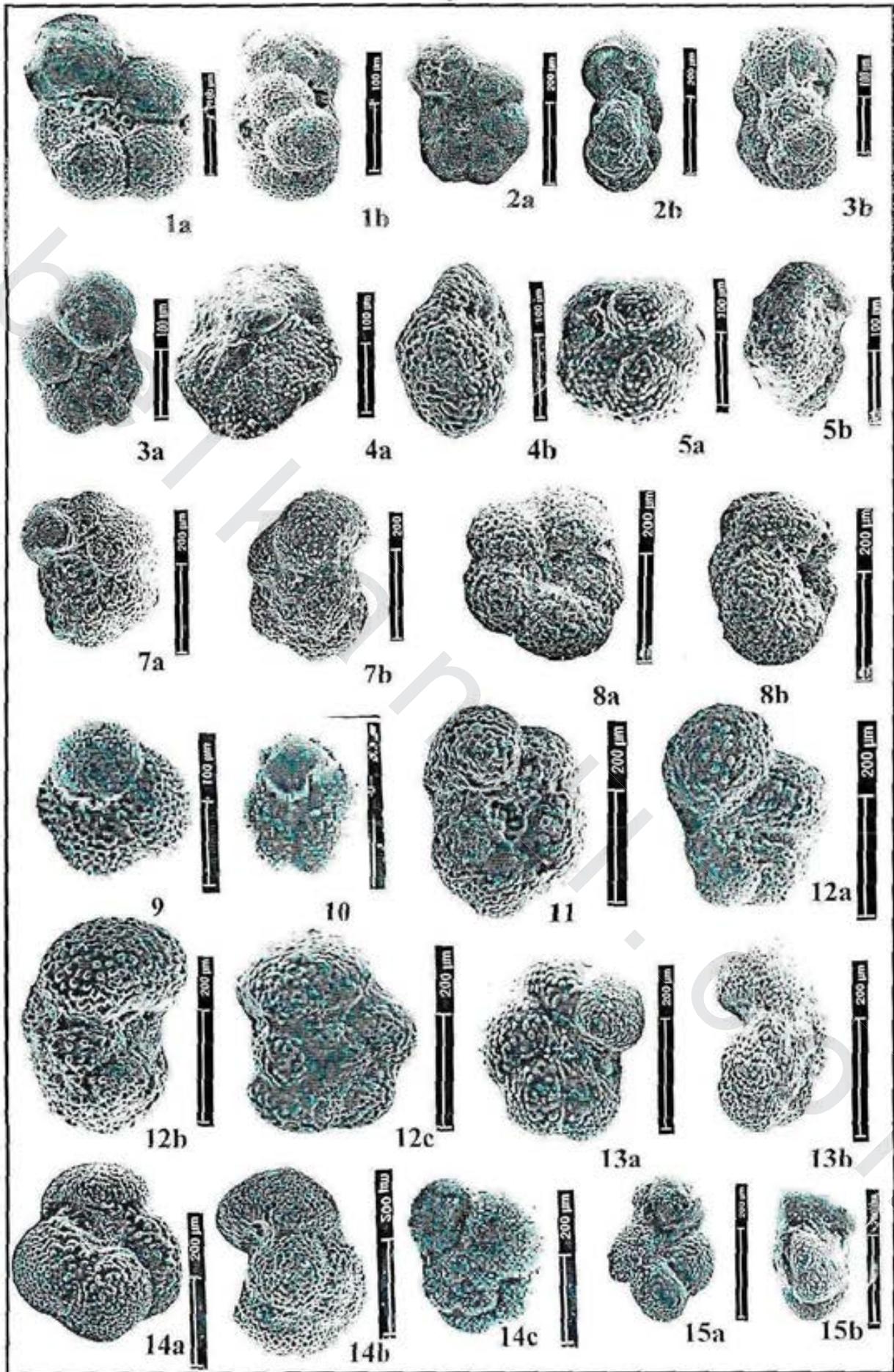


Plate 5

(a- ventral view b-side view c-dorsal view)

- Fig.**
- 1a-c** *Morozovella acuta* (Toulmin); Middle Thanetian, Tarawan Formation, northern slope of El Quss Abu Said section, sample No. 3, *Globanomalina pseudomenardii* Zone.
- 2a-c** *Morozovella aequa* (Cushman and Renz); Middle Thanetian, Tarawan Formation, northern slope of El Quss Abu Said section, sample No. 3, *Globanomalina pseudomenardii* Zone.
- 3a-b** *Morozovella angulata* (White); Earliest Selandian, Dakhla Formation, northwest Bir Bidni section, sample No. 22, *Morozovella angulata*–*Igorina albeari* Zone
- 4a-b** *Morozovella conicotruncata* (Subbotina); Earliest Selandian, Dakhla Formation, northwest Bir Bidni section, sample No. 22, *Morozovella angulata* – *Igorina albeari* Zone
- 5a-b** *Morozovella caucasica* (Glaessner); Middle Ypresian, Esna Formation, Ain Maqfi section, sample No. 17, *Morozovella aragonesis*/*M. formosa* Zone.
- 6a-c** *Morozovella formosa* (Bolli); Middle Ypresian, Esna Formation, Ain Maqfi section, sample No. 17, *Morozovella aragonesis*/*M. formosa* Zone.
- 7a-b** *Morozovella gracilis* (Bolli); Earliest Ypresian, Esna Formation, northern slope of El Quss Abu Said section, sample No. 15, *Pseudohastigerina Wilcoxensis*/*Morozovella velascoensis* Subzone
- 8a-c** *Morozovella lensiformis* (Subbotina); Middle Ypresian, Esna Formation, northern slope of El Quss Abu Said section, sample No. 20, *Morozovella aragonesis*/*M. formosa* Zone.
- 9a-b** *Morozovella marginodentata* (Subbotina); Middle Ypresian, Ain Dalla Formation, northeast Ain Dalla section, sample No. 15, *Morozovella aragonesis*/*M. formosa* Zone.
- 10a-b** *Morozovella occlusa* (Loeblich and Tappan,); Earliest Ypresian, Esna Formation, Gabal Sofra section, sample No. 1, *Pseudohastigerina Wilcoxensis*/*Morozovella velascoensis* Subzone

Plate 5

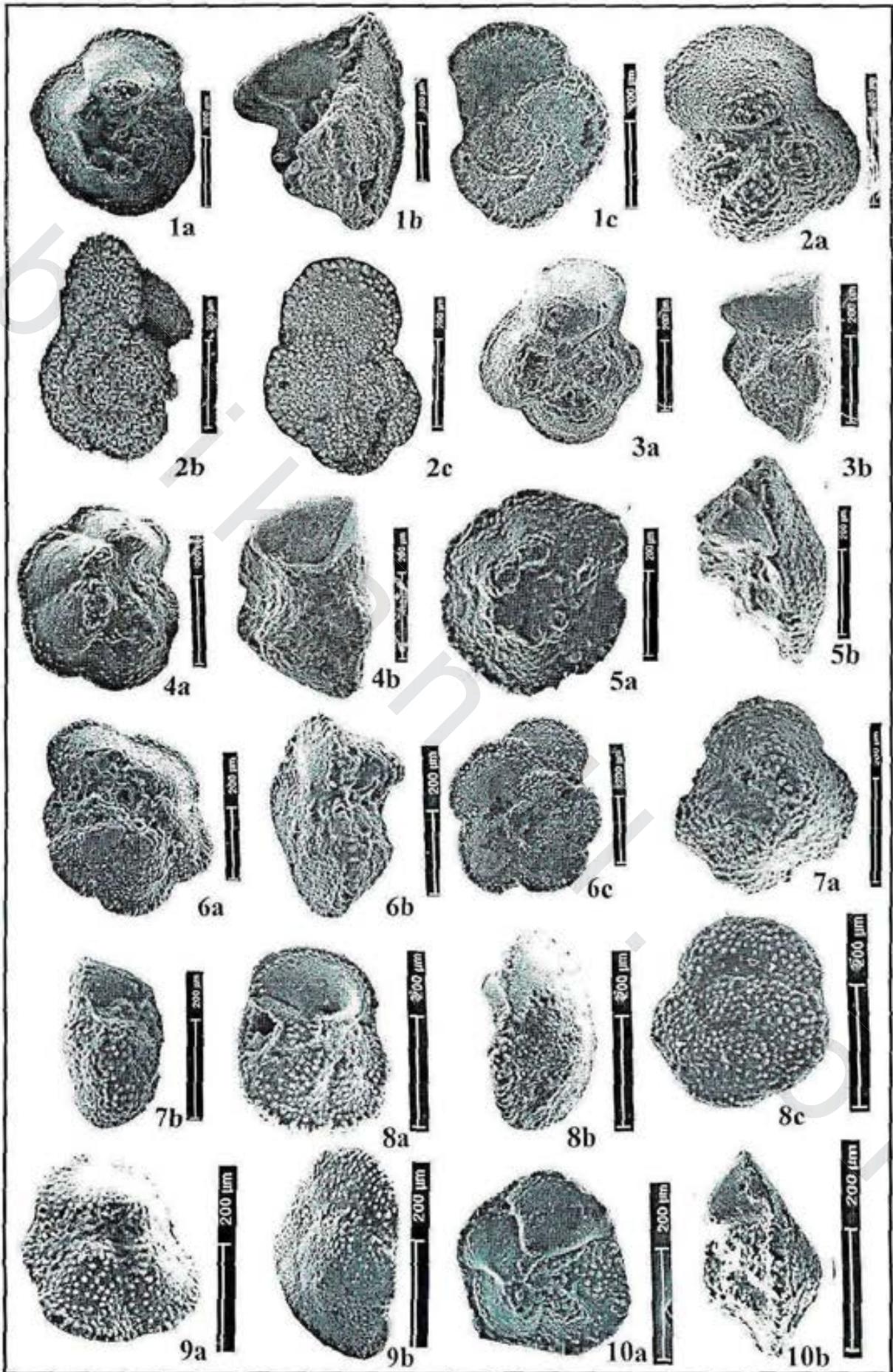


Plate 6

(a- ventral view b-side view c-dorsal view)

Fig.

- 1** *Morozovella parva* (Rey); Middle Selandian, Tarawan Formation, northwest Bir Bidni section, sample No. 20, *Globanomalina pseudomenardii* Zone
- 2a-c** *Morozovella subbotinae* (Morozova); Early Ypresian, Esna Formation, southeast Qur Hadida, sample No. 2, *Morozovella subbotinae* Zone.
- 3a-c** *Morozovella velascoensis* (Cushman); Middle Selandian, Tarawan Formation, northwest Bir Bidni section, sample No. 25, *Globanomalina pseudomenardii* Zone.
- 4a-c** *Parasubbotina pseudobulloides* (Plummer); Latest Danian, Dakhla Formation, Shakhs El-Obeiyid section, sample 5, *Parvlarugoglobigerina eugubina* – *Praemurica uncinata* Zone.
- 5a-c** *Parasubbotina varianta* (Subbotina); Latest Danian, Dakhla Formation, northwest Bir Bidni section, sample 15, *Parvlarugoglobigerina eugubina* – *Praemurica uncinata* Zone.
- 6a-b** *Subbotina inaequispira* (Subbotina); Early Eocene, sample 25, Esna Formation of *Morozovella aragonesis*/*M. formosa* Zone, northern slope of El Quss Abu Said section.
- 7a-c** *Subbotina linaberat* (Finlay); Early Ypresian, Esna Formation, southeast Qur Hadida, sample No. 2, *Morozovella subbotinae* Zone.
- 7a-b** *Subbotina triangularis* (White); Middle Ypresian, Esna Formation, northern slope of El Quss Abu Said section, sample No. 20, *Morozovella aragonesis*/*M. formosa* Zone.
- 8a-b** *Subbotina triloculinoides* (Plummer); Latest Danian, Dakhla Formation, Shakhs El-Obeiyid section, sample 6, *Parvlarugoglobigerina eugubina* – *Praemurica uncinata* Zone.
- 9a-b** *Subbotina velascoensis* (Cushman); Early Ypresian, Esna Formation, southeast Qur Hadida, sample No. 2, *Morozovella subbotinae* Zone.

Plate 6

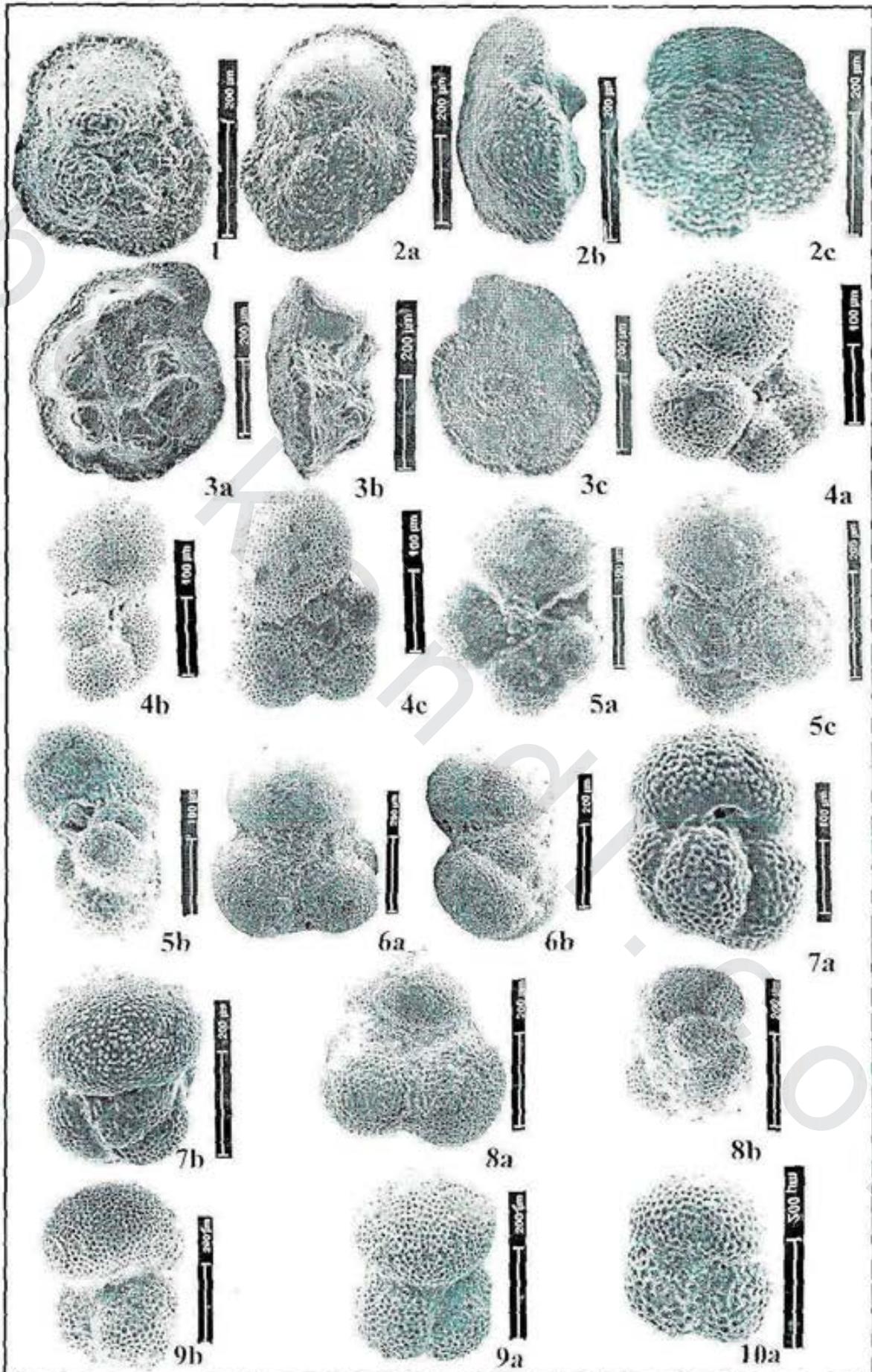


Plate 7

(a- ventral view b-side view c-dorsal view)

Fig.

- 1 *Bathysiphon arenaceus* Cushman; Earliest Ypresian, Esna Formation, Gabal Sofra section, sample No. 1, *Pseudohastigerina Wilcoxensis/Morozovella velascoensis* Subzone
- 2 *Ammodiscus cretaceus* (Reuss); Earliest Ypresian, Esna Formation, Gabal Sofra section, sample No. 1, *Pseudohastigerina Wilcoxensis/Morozovella velascoensis* Subzone
- 3 *Spiroplectamina knebeli* Said & Kenawy; Early Ypresian, Esna Formation, southeast Qur Hadida, sample No. 2, *Morozovella subbotinae* Zone.
- 4-5 *Gaudryina africana* (LeRoy); Middle Ypresian, Esna Formation, Ain Maqfi section, sample No. 17, *Morozovella aragonesis/M. formosa* Zone.
- 6 *Gaudryina rugosa* d'Orbigny; Middle Ypresian, Esna Formation, Ain Maqfi section, sample No. 17, *Morozovella aragonesis/M. formosa* Zone.
- 7 *Gaudryina pyramidata* Cushman; Middle Ypresian, Esna Formation, Ain Maqfi section, sample No. 17, *Morozovella aragonesis/M. formosa* Zone.
- 8 *Tritaxia barakai* Said & Kenawy; Late Maastrichtian, Khoman Formation, northwest Bir Bidni section, sample No. 13. *Contusotruncana contusa* undifferentiated Zone.
- 9a-b *Dorothia bulletta* (Carsey); Earliest Ypresian, Esna Formation, Gabal Sofra section, sample No. 1, *Pseudohastigerina Wilcoxensis/Morozovella velascoensis* Subzone
- 10 *Textularia farafarensis* (Le Roy); Early Ypresian, Esna Formation, southeast Qur Hadida, sample No. 2, *Morozovella subbotinae* Zone.

Cont. Plate 7

- Fig. (a- ventral view b-side view c-dorsal view)
- 11 *Clavulinoides trilaterus* (Cushman); Late Maastrichtian, Khoman Formation, northwest Bir Bidni section, sample No. 13, *Contusotruncana contusa* undifferentiated Zone.
- 12 *Pseudoclavulina maqfiensis* (LeRoy); Maastrichtian, Early Maastrichtian, northwest Ain Maqfi section, *Rugoglobigerina hexacamerata* Zone, sample No. 27
- 13 *Dentalina catenula* Reuss; Earliest Ypresian, Gabal Sofra section, *Morozovella subbotinae* Zone, sample 9
- 14 *Spiroloculina proboscidea* Schwager; Earliest Ypresian, Gabal Sofra section, *Morozovella subbotinae* Zone, sample 9
- 15 *Spiroloculina esnaensis* Le Roy; Earliest Ypresian, Gabal Sofra section, *Morozovella subbotinae* Zone, sample 9
- 16 *Quinqueloculina gussensis* (Schwager); Earliest Ypresian, Gabal Sofra section, *Morozovella subbotinae* Zone, sample 9

Plate 7

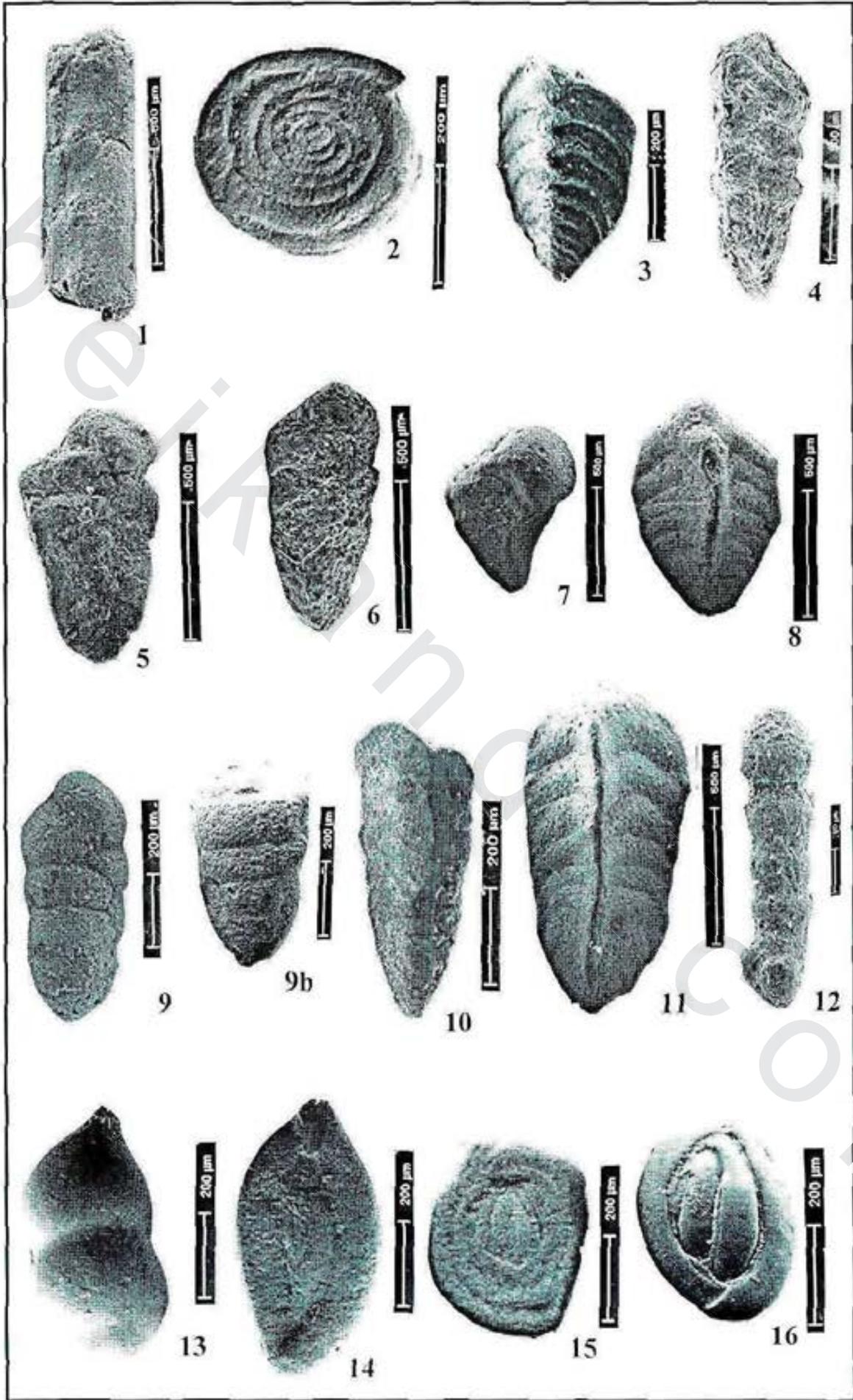


Plate 8

Fig.

(a- ventral view b-side view c-dorsal view)

- 2 *Dentalina gracilis* d'Orbigny; Middle Ypresian, Esna Formation, Ain Maqfi section, sample No. 22, *Morozovella aragonesis*/*M. formosa* Zone.
- 2 *Dentalina granti* (Plummer); Early Maastrichtian, Khoman Formation, northwest Ain Maqfi section, sample No. 24, *Rugoglobigerina hexacamerata* Zone,
- 3 *Pyramidulina semispinosa* LeRoy; Early Maastrichtian, Khoman Formation northwest Ain Maqfi section, sample No. 27, *Rugoglobigerina hexacamerata* Zone.
- 4 *Pyramidulina latejugata* Gumel; Early Ypresian, Esna Formation, Southeast Qur Hadida, sample 2, *Morozovella subbotinae* Zone.
- 5 *Pseudonodosaria manifesta* (Reuss); Earliest Ypresian, Esna Formation Gabal Sofra section, sample No. 2, *Morozovella subbotinae* Zone.
- 6 *Frondicularia wanneri* Nakkady; Earliest Ypresian, Esna Formation Gabal Sofra section, sample 2, , *Morozovella subbotinae* Zone
- 7 *Lenticulina navicula* (d'Orbigny); Middle Ypresian, Esna Formation, Ain Maqfi section, sample No. 24, *Morozovella aragonesis*/*M. formosa* Zone.
- 8-9 *Marginulinopsis tuberculata* (Plummer); Earliest Thanetian, Dakhla Formation, northwest Bir Bidni section, sample 23, *Morozovella angulata* – *Igorina albeari* Zone, ,
- 10 *Saracenaria triangularis* (d'Orbigny); Maastrichtian, Khoman Formation, northwest Bir Bidni section, sample No. 2, *Contusotruncana contuse* Zone.
- 11 *Neoflabellina rugosa* (d'Orbigny); Late Thanetian, Dakhla Formation, Northern slope of El Quss Abu Said section, sample 3, *Globanomalina pseudomenardii* Zone.

Cont. Plate 8

Fig.

(a- ventral view b-side view c-dorsal view)

- 12 *Neoflabellina jarvisi* (Cushman); Maastrichtian, Khoman Formation, northwest Bir Bidni section, sample No. 116, *Contusotruncana contuse* Zone.
- 13 *Marginulina wetherellii* Jones; Earliest Ypresian, southeast Qur Hadid, sample No. 2, *Morozovella subbotinae* Zone.
- 14 *Lagena sulcata* (Walker and Jacob); Maastrichtian, Khoman Formation northwest Bir Bidni section, sample No. 5, *Contusotruncana contuses* Zone.
- 15 *Ramulina aculeate* (d'Orbigny); Earliest Ypresian, Esna Formation Gabal Sofra section, sample No. 1, *Pseudohastigerina Wilcoxensis/Morozovella velascoensis* Subzone.
- 16 *Loxostomoides applinae* (Plummer); Middle Ypresian, Esna Formation, El-Quss Abu Said section, sample No. 5, *Morozovella aragonesis/M. formosa* Zone.
- 17 *Loxostomoides limonense* (Cushman); Middle Ypresian, Esna Formation, Ain Maqfi section, sample No. 24, *Morozovella aragonesis/M. formosa* Zone.
- 18 *Biforina antiqua* Said & Kerdany;); Middle Ypresian, Esna Formation, sample No. 5, El-Quss Abu Said section, *Morozovella aragonesis/M. formosa* Zone.
- 19 *Stilostomella paleocenica* (Cushman & Todd); Middle Ypresian Ain El-Maqfi section, sample 25, *Morozovella aragonesis/M. formosa* Zone.
- 20 *Bolivinoides decoratus* (Jones); Early Maastrichtian, Khoman Formation northwest Ain Maqfi section, sample No. 19, *Rugoglobigerina hexacamerata* Zone.
- 21 *Bolivinoides draco* (Marsson); Late Maastrichtian, Khoman Formation northwest Bir Bidni section, sample No. 3, *Contusotruncana contuse* Zone.

Cont. Plate 8

Fig. (a- ventral view b-side view c-dorsal view)

- 22 ***Sitella cushmani* (Cushman and Hedberg)**; Middle Ypresian, Esna Formation, El-Quss Abu Said section, sample No. 5, *Morozovella aragonesis/M. formosa* Zone.
- 23 ***Bulimina quadrata* Plumme**; Middle Ypresian, Esna Formation, El-Quss Abu Said section, sample No. 5, *Morozovella aragonesis/M. formosa* Zone.
- 24 ***Praebulimina kikapooensis* (Cole)**; Early Ypresian, Esna Formation, Southeast Qur Hadida, sample 2, *Morozovella subbotinae* Zone.
- 25 ***Siphogenerinoides elegante* (Plummer)**; Middle Ypresian, Esna Formation, El-Quss Abu Said section, sample No. 5, *Morozovella aragonesis/M. formosa* Zone.
- 26 ***Bulimina farafraensis* LeRoy**; Middle Ypresian, Esna Formation, El-Quss Abu Said section, sample No. 5, *Morozovella aragonesis/M. formosa* Zone.

Plate 8

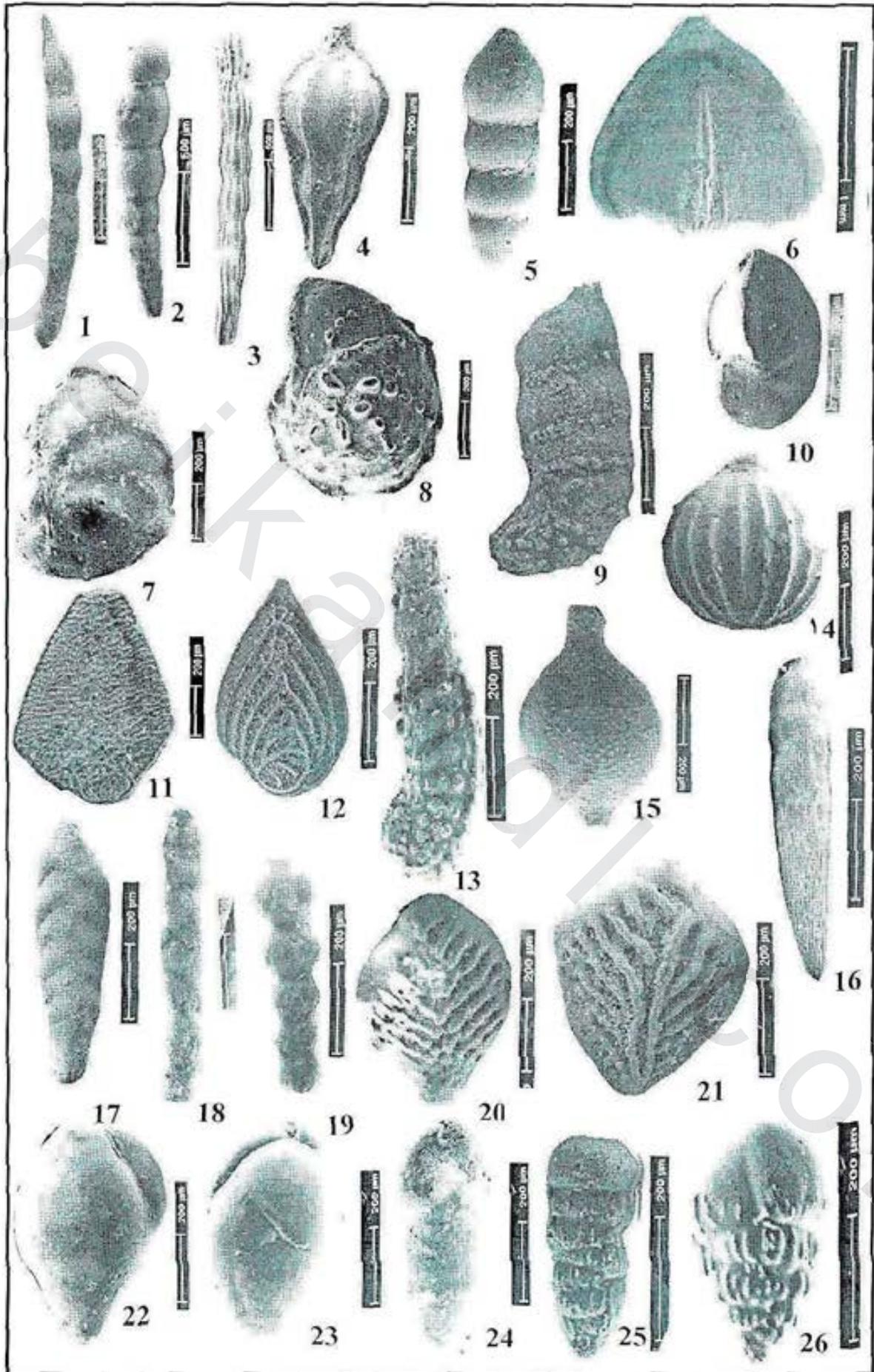


Plate 9

- Fig. (a- ventral view b-side view c-dorsal view)
- 1 *Chilostomella czizeki* Reuss; Early Ypresian, Esna Formation, Ain Dalla section, sample No. 4, *Morozovella subbotinae* Zone.
- 2 *Quadriformina allomorphinoides* (Reuss); Earliest Ypresian, Esna Formation Gabal Sofra section, sample No. 1, *Pseudohastigerina Wilcoxensis/Morozovella velascoensis* Subzone.
- 3a-b *Anomalinoides rubiginosus* (Cushman); Middle Ypresian, Esna Formation, El Quss Abu Said section, sample No. 5, *Morozovella aragonensis/M. formosa* Zone.
- 4 *Anomalinoides sinaensis* Ansary & Emara; Maastrichtian, Khoman Formation, northwest Bir Bidni section, sample No. 10, *Contusotruncana contuse* Zone.
- 5a-b *Eponides lotus* (Schwager); Early Eocene, Esna Shale of *Morozovella subbotinae* Zone, El Quss Abu Said section, sample No. 33.
- 6a-c *Valvalabamina depressa* (Alth); Early Eocene, Esna Shale of *Morozovella subbotinae* Zone, southeast Qur Hadid, sample No. 5.
- 7a-b *Gyroidinoides girardanus* (Reuss); Earliest Ypresian, Esna Formation Gabal Sofra section, sample No. 1, *Pseudohastigerina Wilcoxensis/Morozovella velascoensis* Subzone.
- 8a-b *Angulogavelinella avnimelechi* (Reiss); Earliest Ypresian, Esna Formation Gabal Sofra section, sample No. 1, *Pseudohastigerina Wilcoxensis/Morozovella velascoensis* Subzone.
- 9 *Discocyclina nudimargo* (Schwager); Middle Ypresian, Esna Formation, sample No. 16, Gabal Sofra section, *Morozovella aragonensis/M. formosa* Zone.
- 10 *Nummulites deserti de la Harp*; Middle-Late Ypresian, *Farafra* Limestone of southern El Quss Abu Said section, sample No. 75. X20.

Cont. Plate 9

Fig. (a- ventral view b-side view c-dorsal view)

- 11 ***Alveolina ovulum* Stach;** Middle-Late Ypresian, Maqfi Member of the Esna Formation, northwest Ain Maqfi section, sample No. 76. X40
- 12-13 ***Alveolina pasticillata* Schwager;** Middle-Late Ypresian, early Eocene, Ain Dalla Formation, sample No. X40.
- 14-15 ***Operculina libyca* Schwager;** Middle-Late Ypresian, Esna Formation, Gabal Sofra section. , sample No. 52. X40.

Plate 9

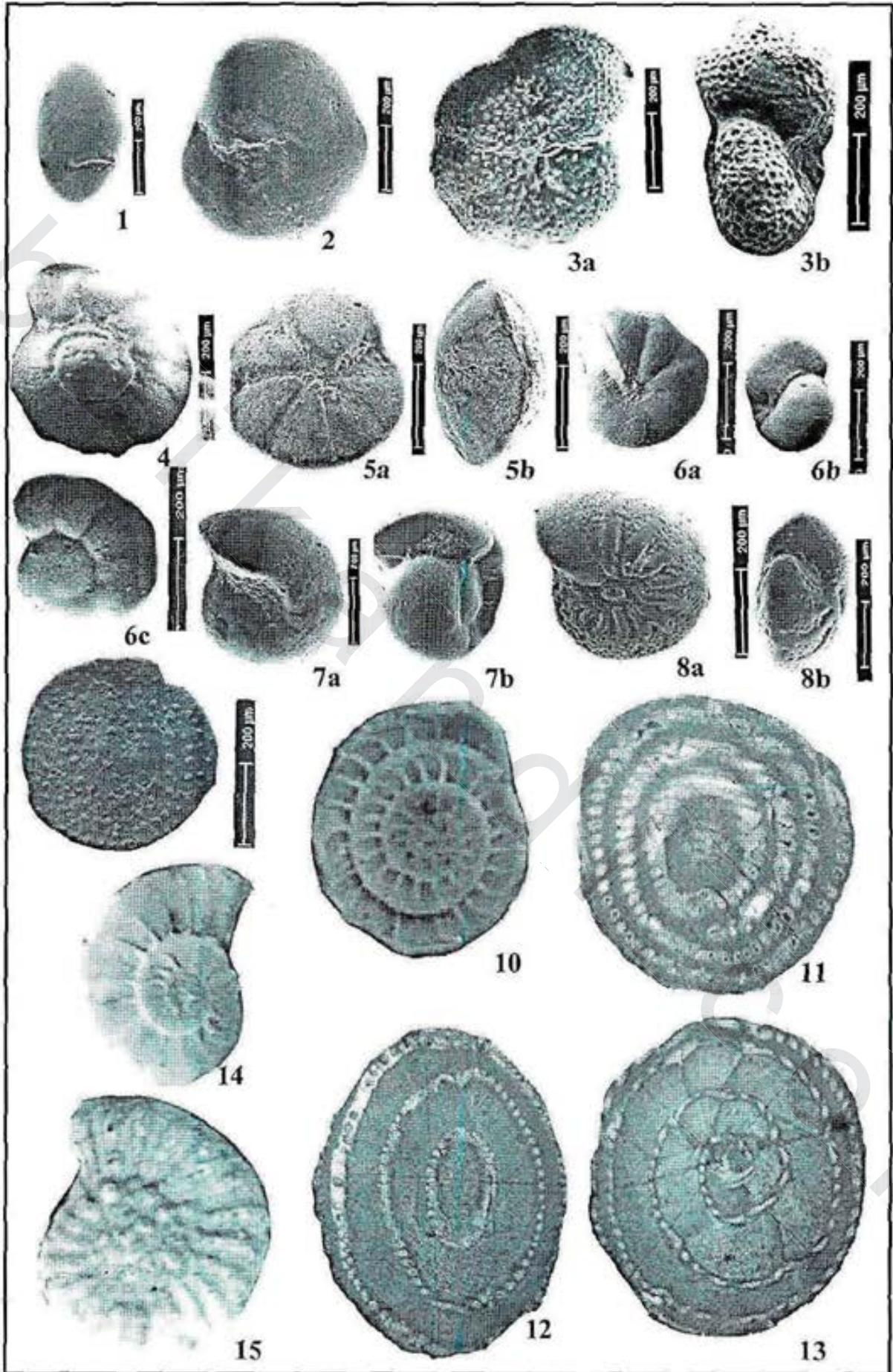


Plate 10

Fig.

- 1 *Nucula (Acila) tremolate-striate* Wanner 1902; 1a lateral view; 1b dorsal view; Early Ypresian, Esna Formation, northern El Quss Abu Said, sample No. 16 (Dwarfed fossils).
- 2-3 *Nuculana (Saceela) leia* (Wanner, 1902); 2a lateral view; 3 dorsal view, Early Ypresian, Esna Formation, southeast Qur Hadida, sample No. 2, (Dwarfed fossils).
- 4a-c *Thyasira cretacea* (Wanner, 1902); 4a dorsal view, 4b anterior view, 4c lateral view, Early Ypresian, Esna Formation, northern El Quss Abu Said, sample No. 16 (Dwarfed fossils).
- 5 *Euphenax zitteli* (Mayer-Eymar, 1891); left view of double valve, Late Ypresian, Esna Formation, northern El Quss Abu Said, sample No. 67.
- 6 *Lyropecten (Aequipecten) mayereymari* (Newton, 1898); lateral view, Late Maastrichtian, Khoman Formation, northwest Ain Maqfi section, sample No. 47.
- 7 *Spondylus aegyptiacus* Newton, 1898; lateral view; Late Ypresian, Esna Formation, northern El Quss Abu Said, sample No. 67.
- 8a-b *Gryphaeostrea eversa* (Melleville, 1843); lateral view; internal view, Late Ypresian, Esna Formation, southern El Quss Abu Said, sample No. 55.
- 9a-b *Pycnodonte aviculina* (Oppenheim, 1903); lateral view; Late Ypresian, Esna Formation, southern El Quss Abu Said, sample No. 56.
- 10a-b,
11 *Pycnodonte (Pycnodonte) vesicularis* (Lamarck, 1806); 10a lateral view; 10b, 11 internal view, Late Campanian, El-Hefhuf Formation, sample no. 12, Wadi Hennis section.
- 12-14 *Ostrea (Ostrea) aviola* Newton, 1898; 13, 14 lateral view; 15 internal view, Late Ypresian, Esna Formation, southern El Quss Abu Said, sample no. 55

Plate 10

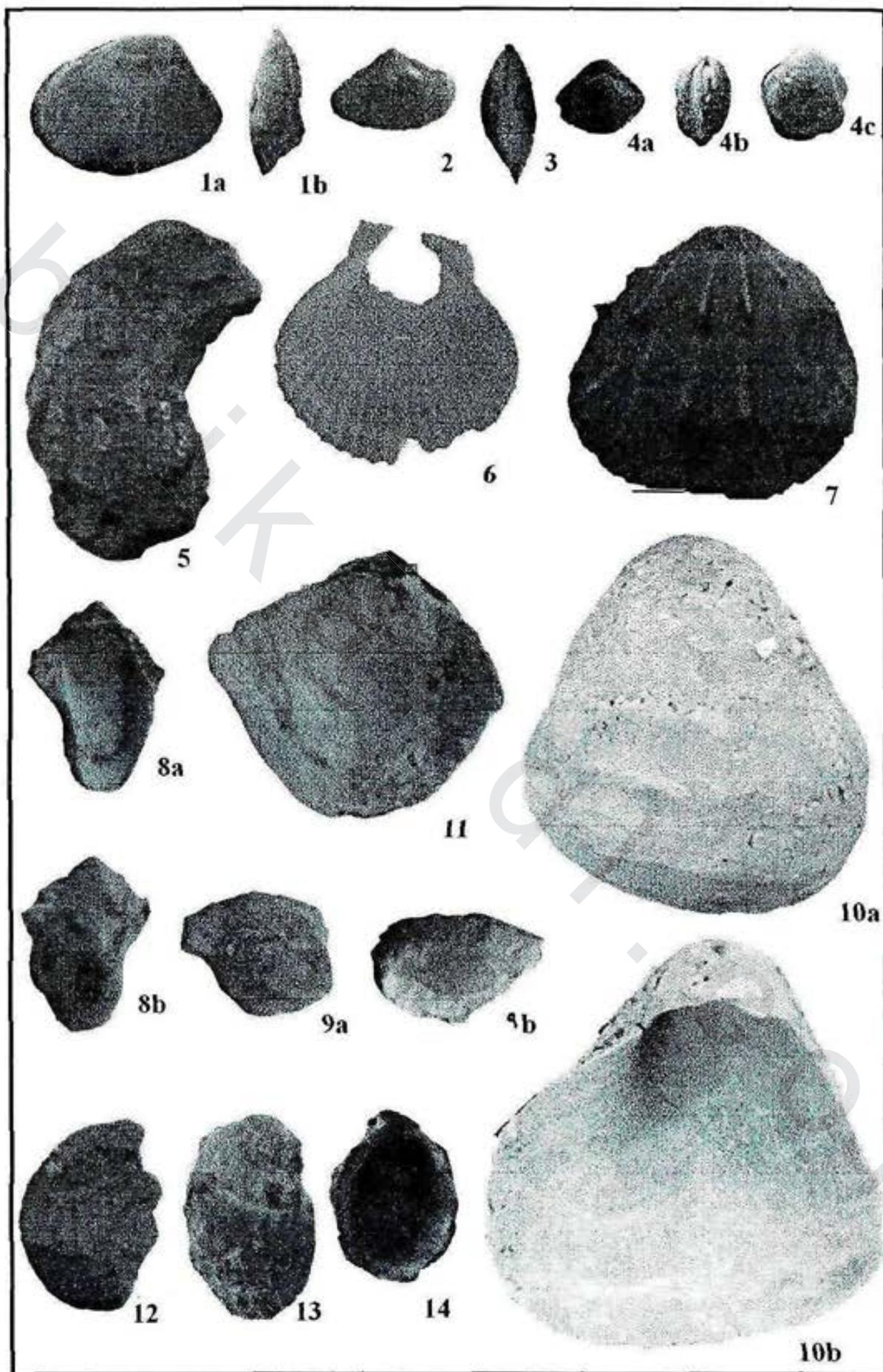


Plate 11

Fig.

- 1 *Ilymatogyra (Afrogyra) Africana* (Lamarck, 1801); 1 lateral view; reworked in Campanian, El-Hefhuf Formation, sample no. 12, Wadi Hennis section.
- 2-3 *Ceratostreon flabellatum* (Goldfuss, 1834); 2 lateral view, 3 internal view, reworked in Campanian, El-Hefhuf Formation, sample no. 12, Wadi Hennis section.
- 4 *Agerostrea ungulata* (Schlotheim, 1869); lateral view, Late Maastrichtian, Khoman Formation, northwest Ain Maqfi section, sample No. 47.
- 5 "*Limea*" *delanouei* Oppenheim, 1902; lateral view, Late Ypresian, Esna Formation, southern El Quss Abu Said, sample No. 56.
- 6a-b *Anodontia thebaica* (Oppenheim, 1903); 6a lateral view, 6b dorsal view, Late Ypresian, Farafra Formation, northwest Ain Maqfi section, sample No101.
- 7 *Pseudomiltha nokbaensis* (Oppenheim, 1903), lateral view; Late Ypresian, Esna Formation, northern El Quss Abu Said, sample No. 67.
- 8 *Glyptoactis (Claibornicardia) aff. Corpulenta* Strougo, 1985, lateral view, Late Ypresian, Esna Formation, southern El Quss Abu Said, sample No. 55.
- 9a-b *Mesalia farafrensis* Oppenheim, 1906; 9a dorsal view, 9b apertural view Late Ypresian, Esna Formation, southern El Quss Abu Said, sample No. 41.
- 10a-b *Rostellaria mokattamensis* Cuvillier, 1935; 9a dorsal view, 9b apertural view Late Ypresian, Esna Formation, southern El Quss Abu Said, sample No. 98.

Cont. Plate 11

Fig.

- 11a-b *Polinices debilis* (Oppenheim, 1906); 5 dorsal view, 6 apertural view, sample no.41 Early Eocene, Esna Formation of southern El-Quss Abu Said.
- 12 *Gisortia gigantean* (Munster 1828); dorsal view, Late Ypresian, Esna Formation, Ain Maqfi section, sample No. 80.
- 13a-b *Palaeostoma zitteli* De Loriol, 1880; 13a aboral, 13b adoral views, Late Ypresian, Esna Formation, southern El Quss Abu Said, sample No. 60.
- 14a-c *Terebratulina gracilis* Schlotheim (1813); 14a pedicle, 14b brachial, 14c lateral views, Late Maastrichtian, Khoman Formation, northwest Ain Maqfi section, sample No. 47.
- 15a-c *Terebratulina libyca* Wanner (1902); 15a brachial, 15b pedicle, 15c lateral views, Early Paleocene, Dakhla Formation, Shakhs El-Obeiyid section, sample No. 3.
- 16a-b *Eutrephoceras desertorum* (Quaas, 1902); 16a side, 16b apertural views, Early Ypresian, Esna Formation, northern El Quss Abu Said section, sample No. 16 (Dwarf fossils).
- 17a-b *Coelosmilia libyca*, Wanner, 1902; Early Ypresian, Esna Formation, Ain Maqfi section, sample No. 70.
- 18 *Brachycyathus daniensis* Wanner, 1902; Late Ypresian, Esna Formation, southern El Quss Abu Said, sample No. 45.
- 19 *Caryosmilia granosa* Wanner (1902); side view, Early Ypresian, Esna Formation, southeast Qur Hadida, sample No. 2. (Dwarf fossils).

Plate 11

