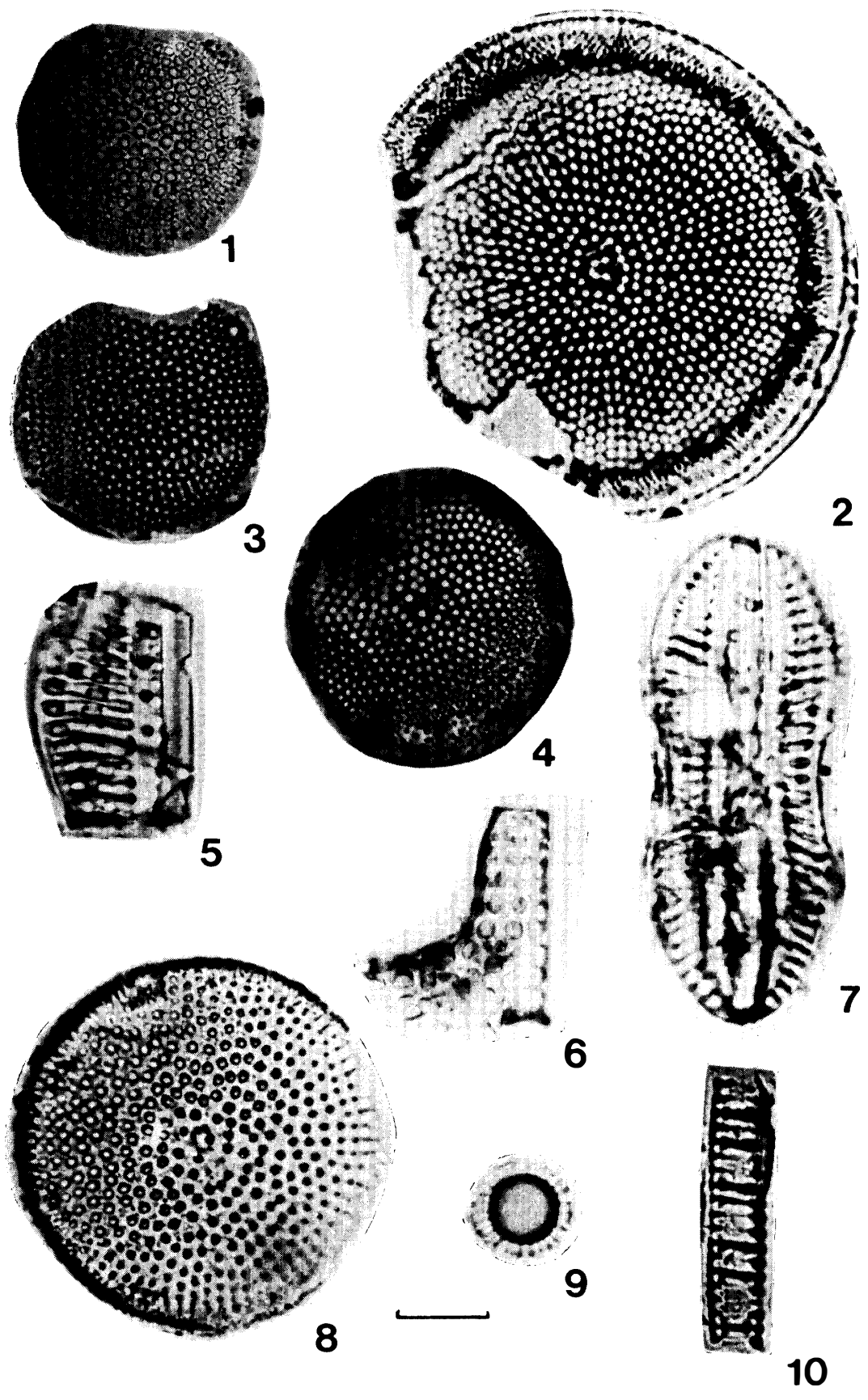


**Plate 1**  
(Scale bar-10  $\mu$ )

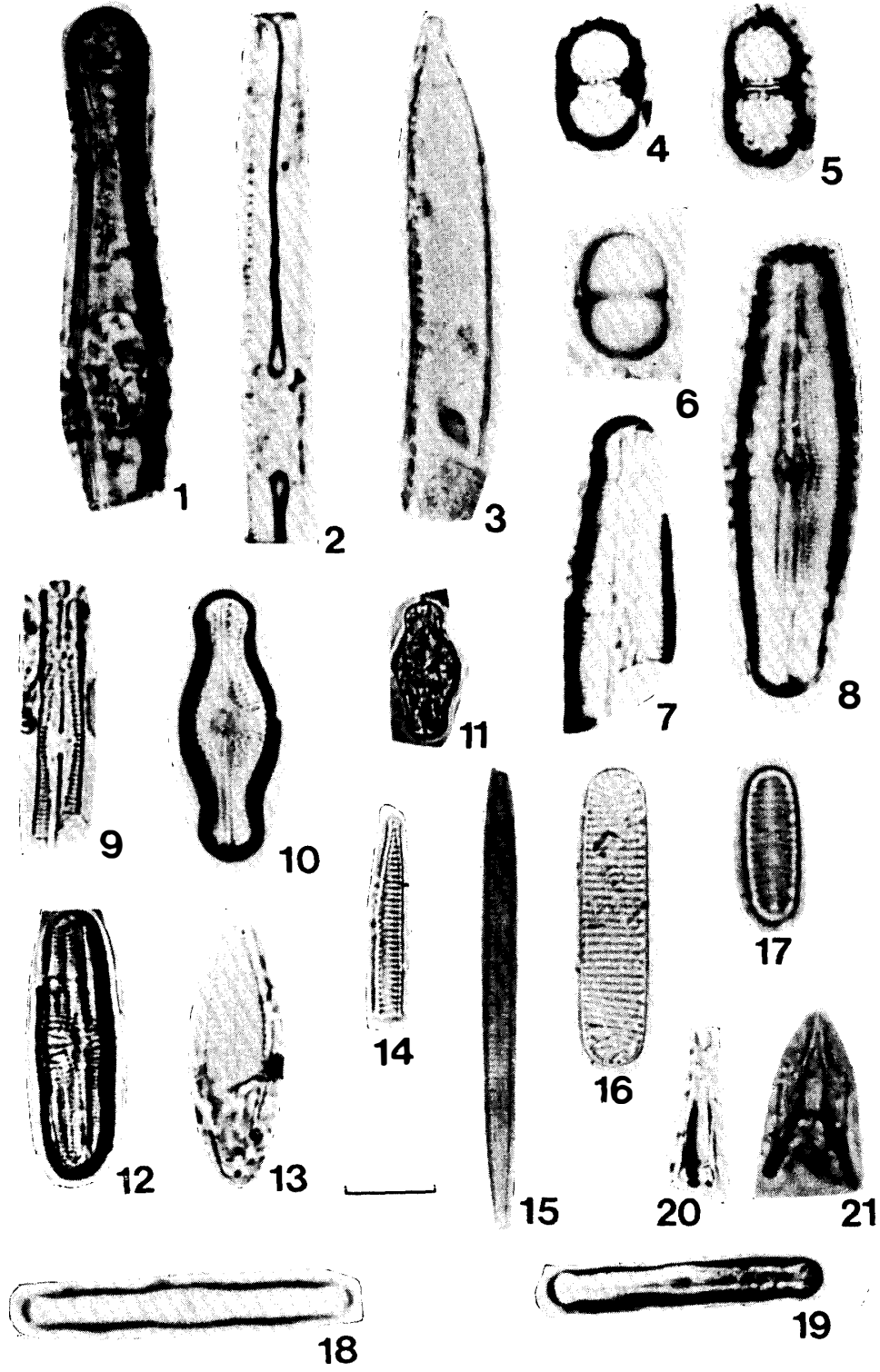
1. *Cestodiscus* sp. ?; DVDP 11, 291.80 m.
2. *Actinocyclus ingens* RATTRAY, var. 'b'; DVDP 11, 291.80 m.
3. *Actinocyclus ingens* RATTRAY, var. 'a'; DVDP 11, 291.80 m.
4. *Actinocyclus* aff. *ingens* RATTRAY; DVDP 11, 291.80 m.
5. *Diploneis crabo* EHRENBERG; DVDP 11, 291.80 m.
6. *Eucampia balaustium* CASTRACANE; DVDP 11, 285.76 m.
7. *Diploneis crabo* EHRENBERG; DVDP 11, 291.80 m.
8. *Coscinodiscus* ? sp.; DVDP 10, 150.18 m.
9. *Cyclotella* sp. 'x' ?; DVDP 10, 150.18 m.
10. *Denticula hustedtii* SIMONSEN and KANAYA; DVDP 11, 291.80 m.



**Plate 2**

(Scale bar=10  $\mu$ )

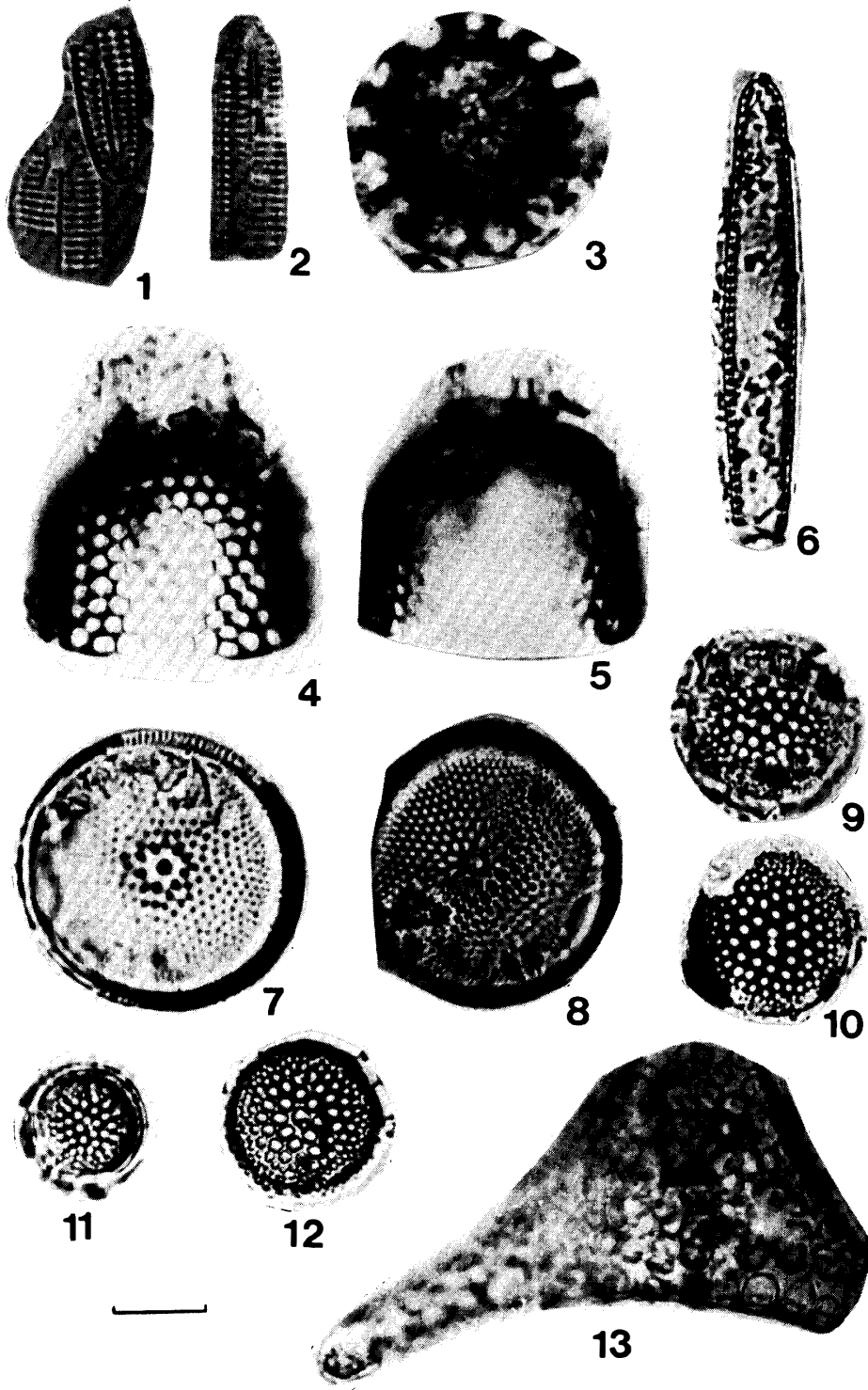
1. *Grammatophora* sp.; DVDP 11, 291.89 m.
2. *Grammatophora* sp.; DVDP 11, 291.80 m.
3. *Hantschia amphioxys* GRUN; DVDP 11, 101.90 m.
4. *Melosira* sp.; DVDP 11, 101.90 m.
5. *Melosira* sp.; DVDP 11, 101.90 m.
6. *Melosira* sp.; DVDP 11, 291.80 m.
7. *Navicula gibbula* CLEVE var. *peraustralis*  
(W. and G. S. WEST) KO-BAYASHI; DVDP 11, 101.90 m.
8. *Navicula gibbula* CLEVE var. *peraustralis*  
(W. and G. S. WEST) KO-BAYASHI; McMurdo Ice Shelf Pool
9. *Navicula murrayi* W. and G. S. WEST; DVDP 11, 101.90 m.
10. *Navicula muticopsis* var. *muticopsis* VAN HEURCK; DVDP 11, 101.90 m.
11. *Navicula muticopsis* var. *muticopsis* f. *evoluta* W. and G. S. WEST; DVDP 11, 17.15 m.
12. *Navicula seminulum* GRUN; DVDP 11, 17.15 m.
13. *Navicula shackletoni* W. and G. S. WEST; DVDP 10, 5.12 m.
14. *Nitzschia antarctica* W. and G. S. WEST; DVDP 11, 90.93 m.
15. *Nitzschia antarctica* W. and G. S. WEST; McMurdo Ice Shelf Pool.
16. *Nitzschia curta* (VAN HUERCK) HASLE; DVDP 10, 152.10 m.
17. *Nitzschia* aff. *cylindrus* (GRUNOW) HASLE; DVDP 10
18. *Pinnularia cymatopleura* W. and G. S. WEST; McMurdo Ice Shelf Pool.
19. *Pinnularia cymatopleura* W. and G. S. WEST;  
Seafloor grab sample at DVDP 15 drill site, 20 km east Marble Point.
20. *Rhizosolenia styloformis* BRIGHTWELL; DVDP 11, 242.00 m.
21. *Rhizosolenia styloformis* BRIGHTWELL; DVDP 11, 240.61 m.



**Plate 3**

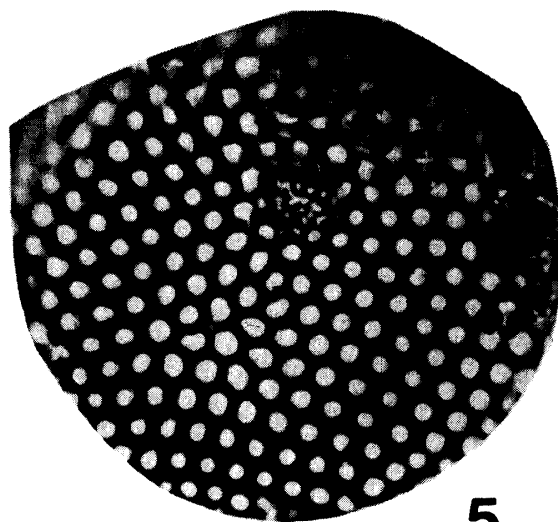
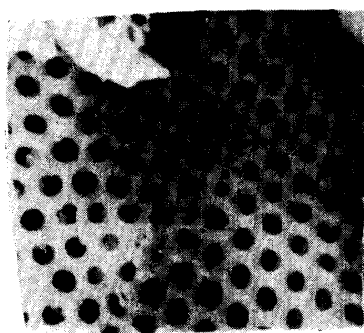
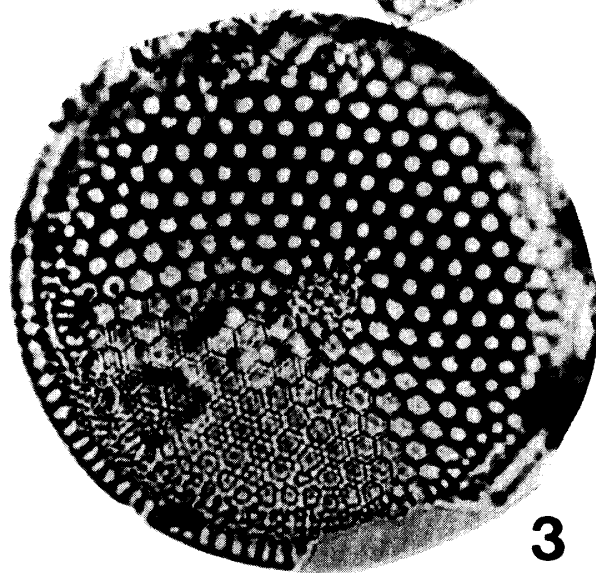
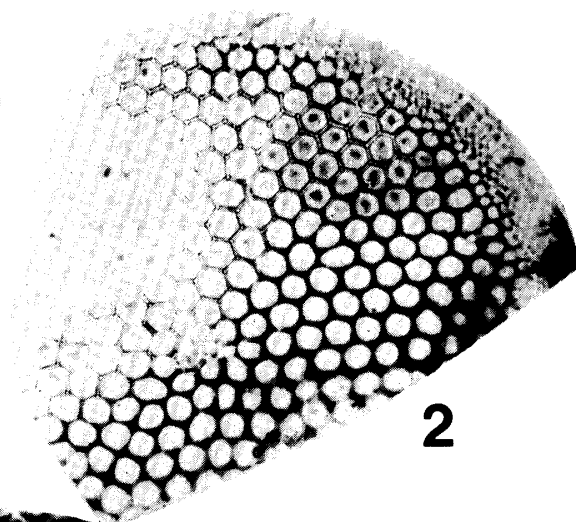
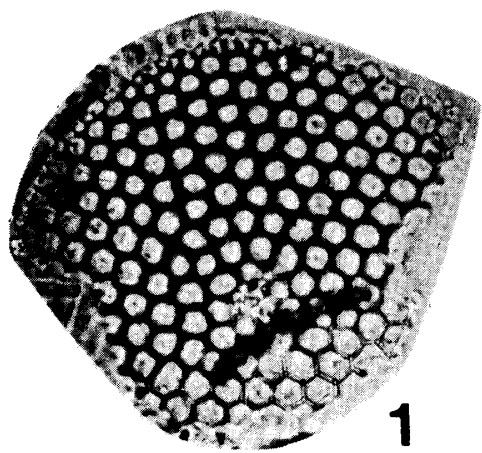
(Scale bar-10  $\mu$ )

1. *Rouxia antarctica* HEIDEN and KOLBE; DVDP 11, 202.00 m.
2. *Rouxia antarctica* HEIDEN and KOLBE; DVDP 11, 204.00 m.
3. *Stephanogonia hanzawae* KANAYA; DVDP 11, 241.77 m.
4. *Stephanopyxis turris* RALFS; DVDP 10, 156.47 m.
5. *Stephanopyxis turris* RALFS; DVDP 10, 156.47 m.
6. *Thalassionema nitzschoides* GRUNOW; DVDP 10, 152.10 m.
7. *Thalassiosira* ? sp.; DVDP 10, 152.10 m.
8. *Thalassiosira* ? sp.; DVDP 10, 152.10 m.
9. *Thalassiosira ostrupi* (OSTENFELD) PROSKINA-LAVRENKO; DVDP 11, 202.00 m.
10. *Thalassiosira ostrupi* (OSTENFELD) PROSKINA-LAVRENKO; DVDP 10, 159.00 m.
11. *Thalassiosira ostrupi* (OSTENFELD) PROSKINA-LAVRENKO; DVDP 10, 183.00 m.
12. *Thalassiosira ostrupi* (OSTENFELD) PROSKINA-LAVRENKO; DVDP 10, 182.61 m.
13. *Trinacria excavata* HEIBERG; DVDP 11, 291.80 m.



**Plate 4**  
(Scale bar—10  $\mu$ )

1. *Thalassiosira torokina* BRADY; DVDP 11, 291.89 m.
2. *Thalassiosira torokina* BRADY; DVDP 11, 291.80 m.
3. *Thalassiosira torokina* BRADY; DVDP 10, 182.61 m.
4. *Thalassiosira torokina* BRADY; DVDP 11, 291.80 m.
5. *Thalassiosira torokina* BRADY; DVDP 11, 291.80 m.

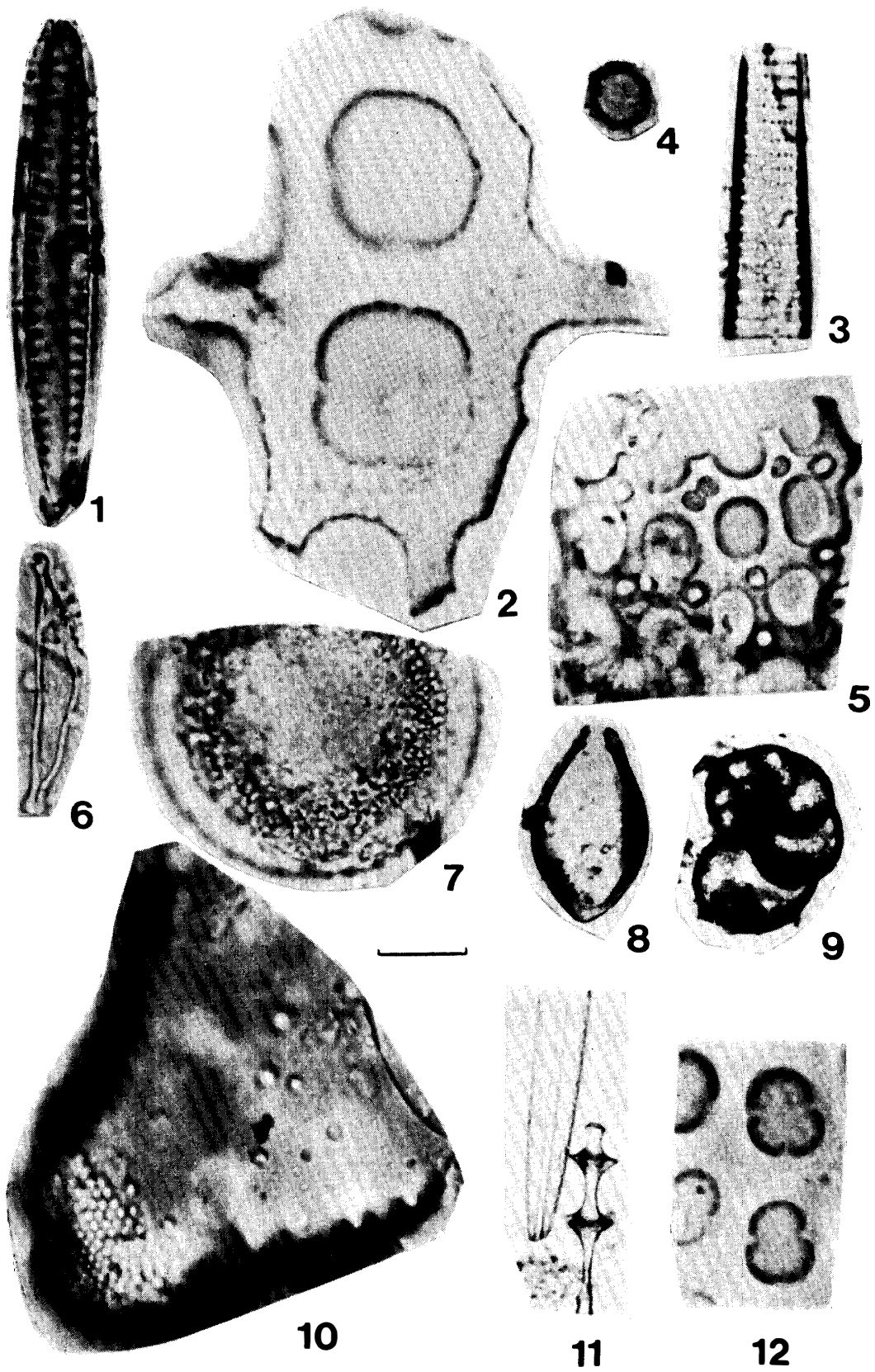




**Plate 5**

(Scale bar–10  $\mu$ )

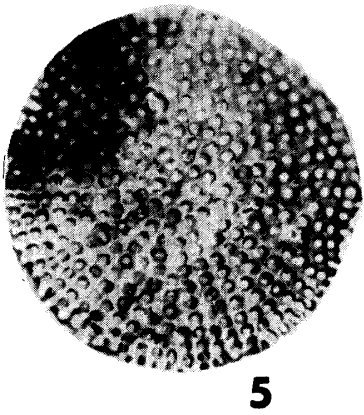
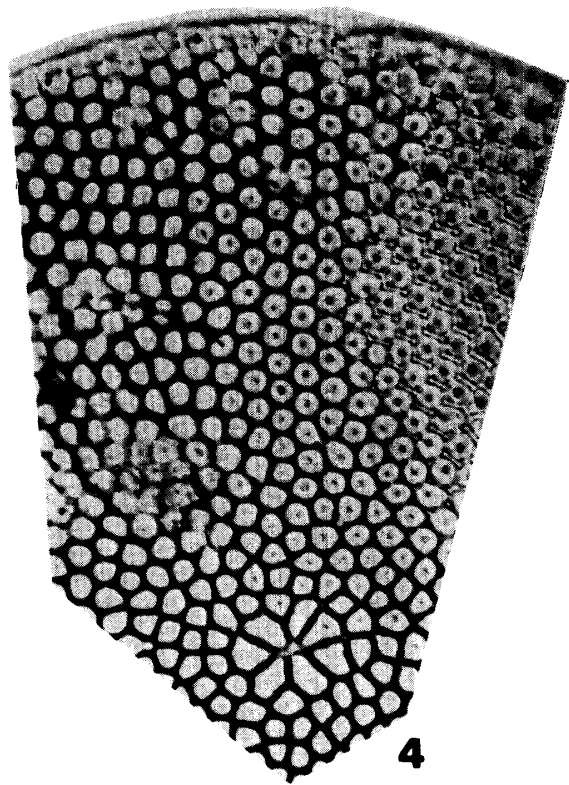
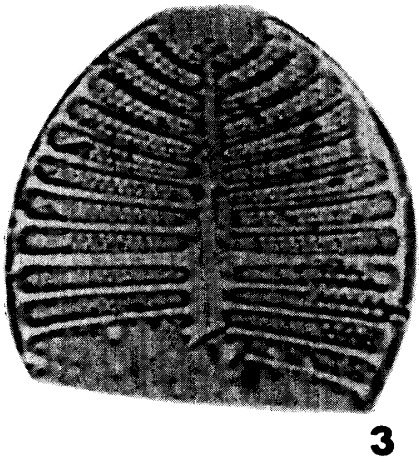
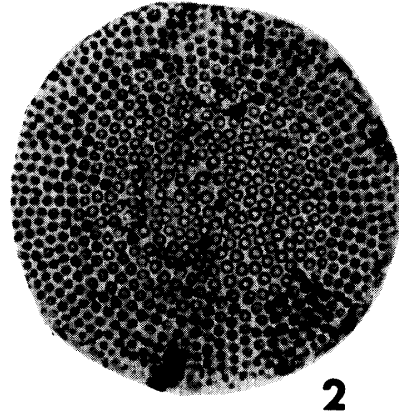
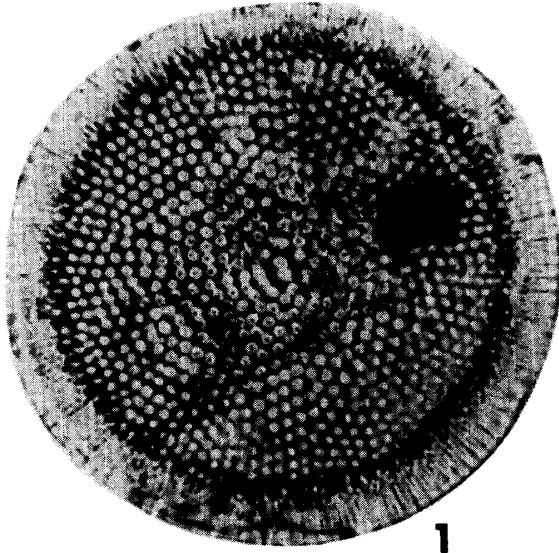
1. Genus and species undetermined; DVDP 10, 149.59 m.
2. Holothurian plate ?; DVDP 10, 137.16 m.
3. Diatom, genus and species undetermined; DVDP 10, 137.76 m.
4. *Melosira* sp. ?; DVDP 11, 204.97 m.
5. Radiolarian ?; fragment; DVDP 10, 137.76 m.
6. *Amphora* sp. ?; DVDP 10, 152.10 m.
7. Genus and species undetermined; DVDP 10, 137.76 m.
8. Microforaminifera; DVDP 11, 249.18 m. (scale bar–100  $\mu$ )
9. Microforaminifera; DVDP 10, 148.90 m (scale bar–100  $\mu$ )
10. Genus and species undetermined; DVDP 10, 137.76 m.
11. Sponge spicules; DVDP 11, 199.30 m.
12. Radiolarian ? fragment; DVDP 10, 137.76 m.



**Plate 6**

(Scale bar-10  $\mu$ )

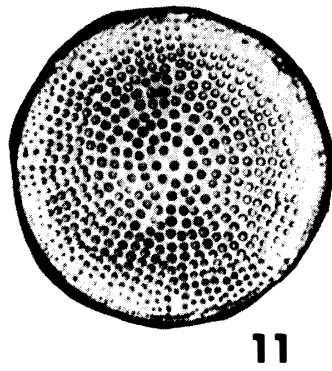
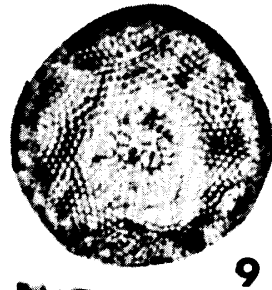
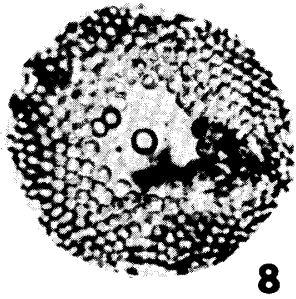
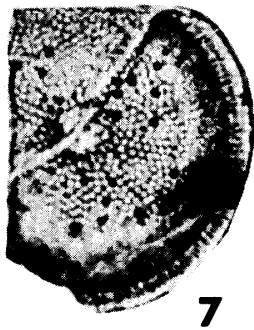
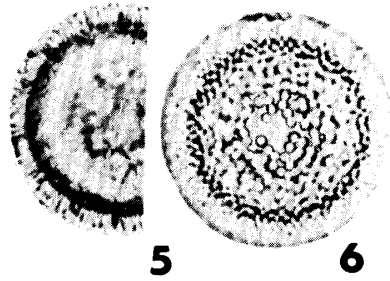
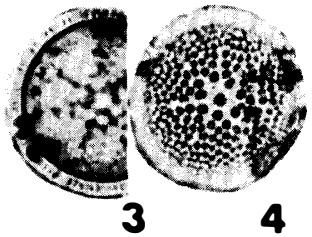
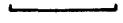
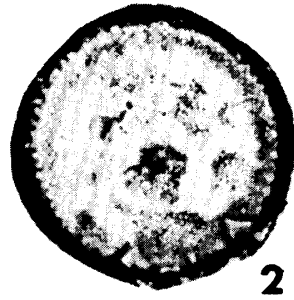
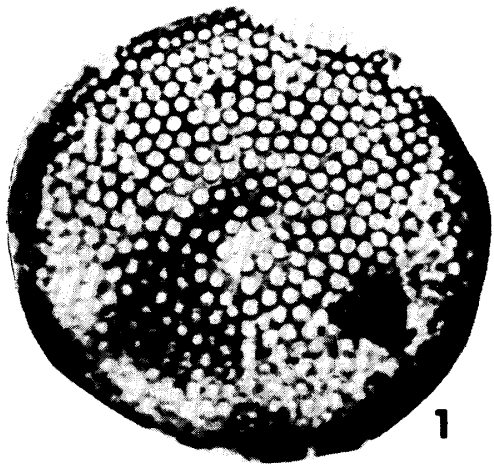
1. *Actinocyclus ingens* RATTRAY; DVDP 11, 291.80 m.
2. *Actinocyclus ingens* RATTRAY (flat form); DVDP 11, 291.80 m.
3. *Cocconeis* sp.; DVDP 10, 183.27 m.
4. *Coscinodiscus asteromphalus* EHRENBERG; DVDP 10, 182.61 m.
5. *Coscinodiscus vulnificus* GOMBOS; DVDP 11, 16.42 m.
6. *Synedra* ? sp.; DVDP 10, 183.37 m.



**Plate 7**

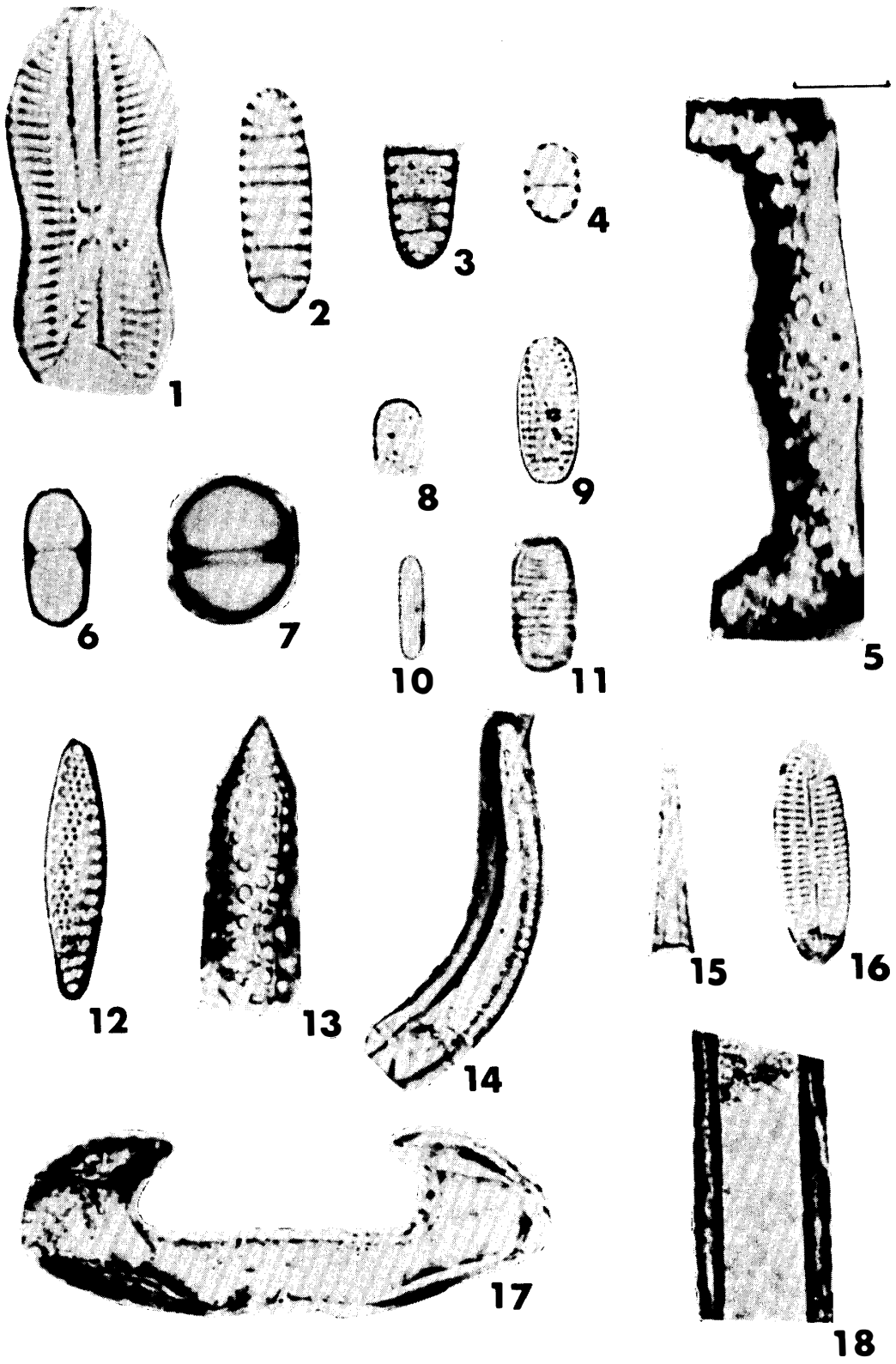
(Scale bar–10  $\mu$ )

1. *Coscinodiscus marginatus* EHRENBERG; DVDP 11, 241.98 m.
2. *Thalassiosira* sp. ?; DVDP 11, 239.74 m.
- 3–4. Genus and species indet; DVDP 11, 204.25 m.
- 5–6. *Thalassiosira gracilis* (KARSTEN) HUSTEDT; PC 0775/2, 2.21 m.
7. *Thalassiosira gracilis* (KARSTEN) HUSTEDT; DVDP 11, 204.25 m.
8. *Cosmiodiscus* ? sp.; P C 0775/2, 3.61 m.
9. *Cosmiodiscus* ? sp.; P C 0775/2, 3.61 m.
10. *Cestodiscus* sp. ?; DVDP 10, 183.27 m.
11. *Cestodiscus* sp. ?; P C 0775/2, 3.61 m.
12. *Cestodiscus* sp. ?; DVDP 10, 183.27 m.



**Plate 8**  
(Scale bar—10  $\mu$ )

1. *Diploneis* aff. *crabo* EHRENBERG
2. *Denticula hustedtii* SIMONSEN and KANAYA; DVDP 10, 183.27 m.
3. *Denticula hustedtii* SIMONSEN and KANAYA; 240.20 m.
4. *Denticula hustedtii* aff. var. *ovata* SCHRADER; DVDP 10, 180.33 m.
5. *Eucampia balaustium* CASTRACANE; DVDP 10, 183.27 m.
6. *Melosira* sp.; DVDP 10, 143.49 m.
7. *Melosira* sp.; DVDP 10, 152.10 m.
8. *Nitzschia* sp.; DVDP 10, 183.27 m.
9. aff. *Nitzschia* sp. No. 14 SCHRADER (1976); DVDP 10, 179.87 m.
10. *Nitzschia* sp.; P C 0775/2, 2.41 m.
11. aff. *Nitzschia* sp. No. 14 SCHRADER (1976); DVDP 10, 149.22 m.
12. *Nitzschia kerguelensis* (O'MEARA) HASLE; DVDP 10, 154.48 m.
13. *Radiolaria* sp. ?; DVDP 11, 16.42 m.
14. *Rhizosolenia barboi* BRUN; DVDP 10, 195.39 m.
15. *Rhizosolenia hebetata* f. *hiemalis* GRUN; DVDP 10, 149.22 m.
16. *Rouxia antarctica* HEIDEN and KOLBE; DVDP 10, 183.27 m.
17. Sponge spicule; DVDP 10, 150.37 m.
18. Sponge spicule; DVDP 10, 150.18 m.



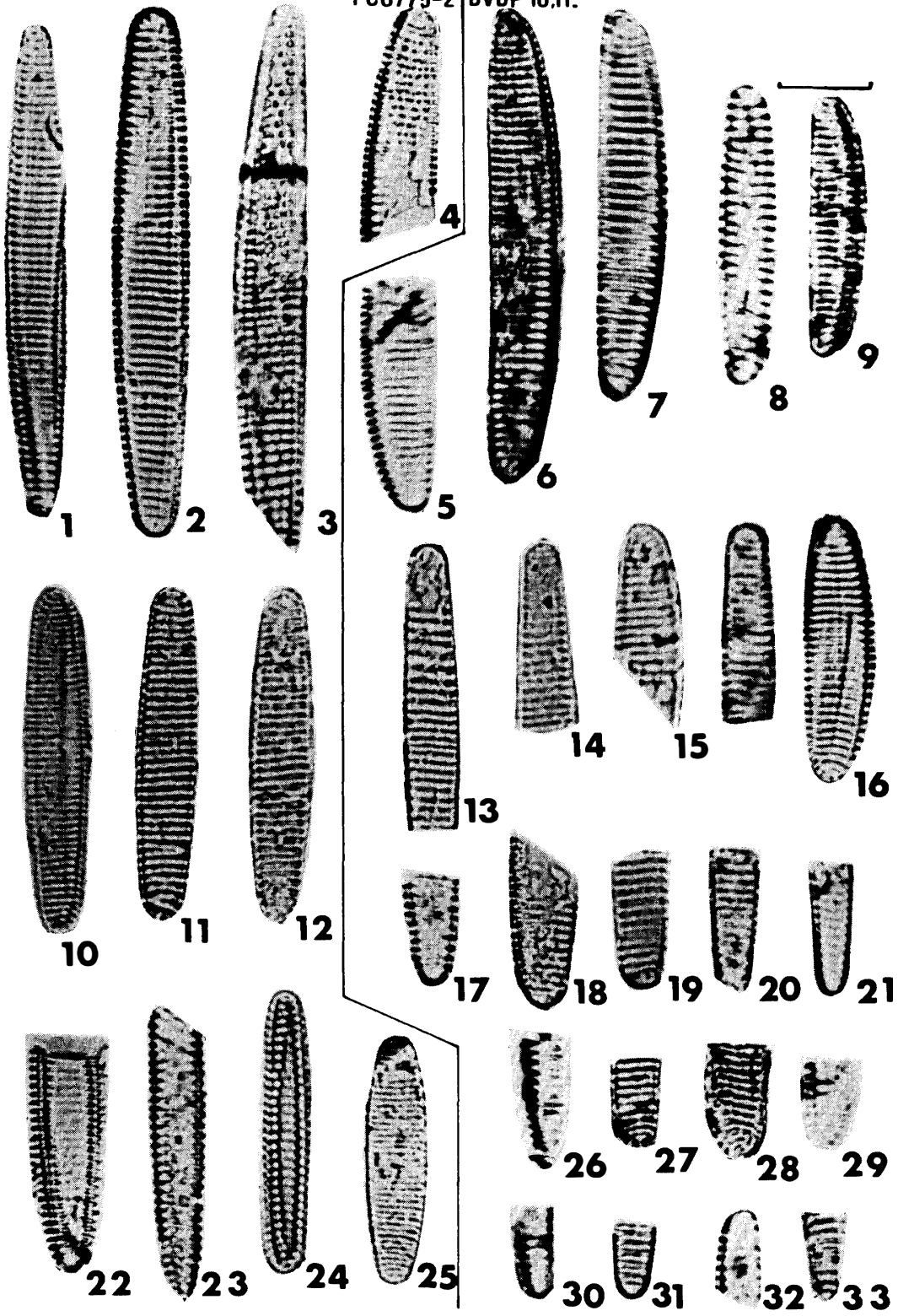


**Plate 9**

(Scale bar=10  $\mu$ )

1. *Nitzschia praeinterfrigidaria* McCOLLUM; P C 0775/2, 3.61 m.
2. *Nitzschia praeinterfrigidaria* McCOLLUM; P C 0775/2, 3.61 m.
3. *Nitzschia praeinterfrigidaria* McCOLLUM; P C 0755/2, 2.61 m.
4. *Nitzschia praeinterfrigidaria* McCOLLUM; P C 0755/2, 2.21 m.
5. *Nitzschia praeinterfrigidaria* McCOLLUM; DVDP 10, 149.22 m.
6. *Nitzschia praeinterfrigidaria* McCOLLUM; DVDP, 10, 150.37 m.
7. *Nitzschia praeinterfrigidaria* McCOLLUM; DVDP, 10, 149.22 m.
8. *Nitzschia interfrigidaria* McCOLLUM; DVDP 10, 154.48 m.
9. *Nitzschia praeinterfrigidaria* McCOLLUM; DVDP 10, 143.49 m.
10. *Nitzschia* sp.; P C 0775/2, 2.41 m.
11. *Nitzschia* sp.; P C 0775/2, 2.21 m.
12. *Nitzschia* sp.; P C 0775/2, 3.61 m.
13. *Nitzschia* sp.; DVDP 10, 183.27 m.
14. *Nitzschia* sp.; DVDP 10, 183.27 m.
15. *Nitzschia praeinterfrigidaria* McCOLLUM; DVDP 10, 149.22 m.
16. *Nitzschia praeinterfrigidaria* McCOLLUM; DVDP 10, 149.22 m.
17. *Nitzschia praeinterfrigidaria* McCOLLUM; DVDP 10, 154.48 m.
18. *Nitzschia praeinterfrigidaria* McCOLLUM; DVDP 11, 204.25 m.
19. *Nitzschia praeinterfrigidaria* McCOLLUM; DVDP 10, 183.27 m.
20. *Nitzschia* sp.; DVDP 150.37 m.
21. *Nitzschia* sp.; DVDP 11, 204.25 m.
22. *Nitzschia interfrigidaria* McCOLLUM; P C 0775/2, 2.21 m.
23. *Nitzschia interfrigidaria* McCOLLUM; P C 0775/2, 2.41 m.
24. *Nitzschia* sp.; P C 0775/2, 2.21 m.
25. *Nitzschia* aff. *pusilla* SCHRADER, P C 0775/2, 3.61 m.
26. *Nitzschia praeinterfrigidaria* McCOLLUM; DVDP 10, 154.48 m.
27. *Nitzschia* sp. (c.f. this plate Fig. 11); DVDP 11, 240.20 m.
28. *Nitzschia praeinterfrigidaria* McCOLLUM; DVDP 11, 204.25 m.
29. *Nitzschia praeinterfrigidaria* McCOLLUM; DVDP 10, 150.37 m.
30. *Nitzschia praeinterfrigidaria* McCOLLUM; DVDP, 11, 195.39 m.
31. *Nitzschia praeinterfrigidaria* McCOLLUM; DVDP 10, 150.37 m.
32. *Nitzschia praeinterfrigidaria* McCOLLUM; DVDP 10, 149.22 m.
33. *Nitzschia praeinterfrigidaria* McCOLLUM; DVDP 11, 195.39 m.

PC0775-2 | DVDP 10.II.



**Plate 10**

(Scale bar—10  $\mu$ )

1. *Thalassiosira oestrupi* (OSTENFELD) PROSHKINA-LAVRENKO; DVDP 10, 150.37 m.
2. *Thalassiosira oestrupi* (OSTENFELD) PROSHKINA-LAVRENKO; DVDP 10, 150.37 m.
3. *Thalassiosira oestrupi* (OSTENFELD) PROSHKINA-LAVRENKO; DVDP 10, 183.27 m.
4. *Thalassiosira oestrupi* (OSTENFELD) PROSHKINA-LAVRENKO; DVDP 10, 162.69 m.
5. *Thalassiosira oestrupi* (OSTENFELD) PROSHKINA-LAVRENKO; DVDP 11, 240.10 m.
6. *Thalassiosira oestrupi* (OSTENFELD) PROSHKINA-LAVRENKO; DVDP 11, 239.74 m.
7. *Thalassiosira oestrupi* (OSTENFELD) PROSHKINA-LAVRENKO; DVDP 11, 204.35 m.
8. *Thalassiosira oestrupi* (OSTENFELD) PROSHKINA-LAVRENKO; DVDP 11, 204.25 m.
9. *Thalassiosira oestrupi*; DVDP 10, 183.27 m.
10. *Nitzschia kerguelensis* (O'MEARA) HASLE; DSDP 266, 1–3, 70–72 cm.
11. *Thalassiosira gracilis* (KARSTEN) HUSTEDT; DVDP 10, 149.22 m.
- 12–13. *Thalassiosira gracilis* (KARSTEN) HUSTEDT; DVDP 10, 149.22 m.

