

Fig. 183. *Crucicostulifera areolata*. **A-C.** LM, cleaned valves. **C-F.** SEM. **C.** Detail of external terminal raphe ending, note X-shaped areolae. **D.** Detail of external central raphe endings. **E.** Detail of internal central raphe endings. **F.** Detail of internal terminal raphe ending
Scale bars = 10 μm (A-B), 5 μm (C-F).

***Campylodiscus* Ehrenberg ex Kützing 1844**

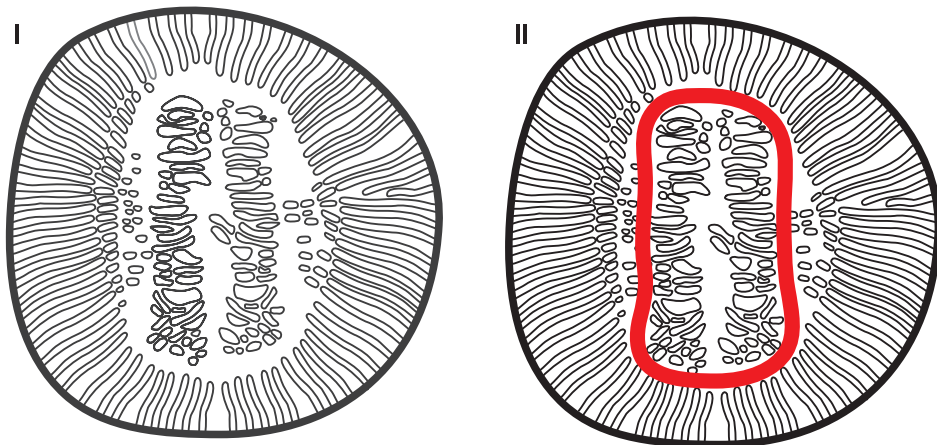
Type species: *Campylodiscus clypeus* (Ehrenberg) Ehrenberg ex Kützing

Characteristics – Cells **isopolar**, **biraphid**, saddle-shaped and very large. Concentric transapical valve undulations run parallel to the valve outline enclosing a (semi)circular area. Striae interrupted by a hyaline area (II). Raphe in a canal, raised on a keel above the valve (Fig. 184 F). This keel may be significantly higher than the valve face forming a wing. Open fenestrae sometimes present on the wing and in line with the depressions of the transapical valve undulations.

Plastid structure – Cells with one large lobed plastid.

Identification of species – Species can be identified by cell size, structure and density of the striae, and structure of the central region.

Ecology – Cells solitary, benthic, re-suspended in the plankton. Found in waters with moderate to high conductivity.



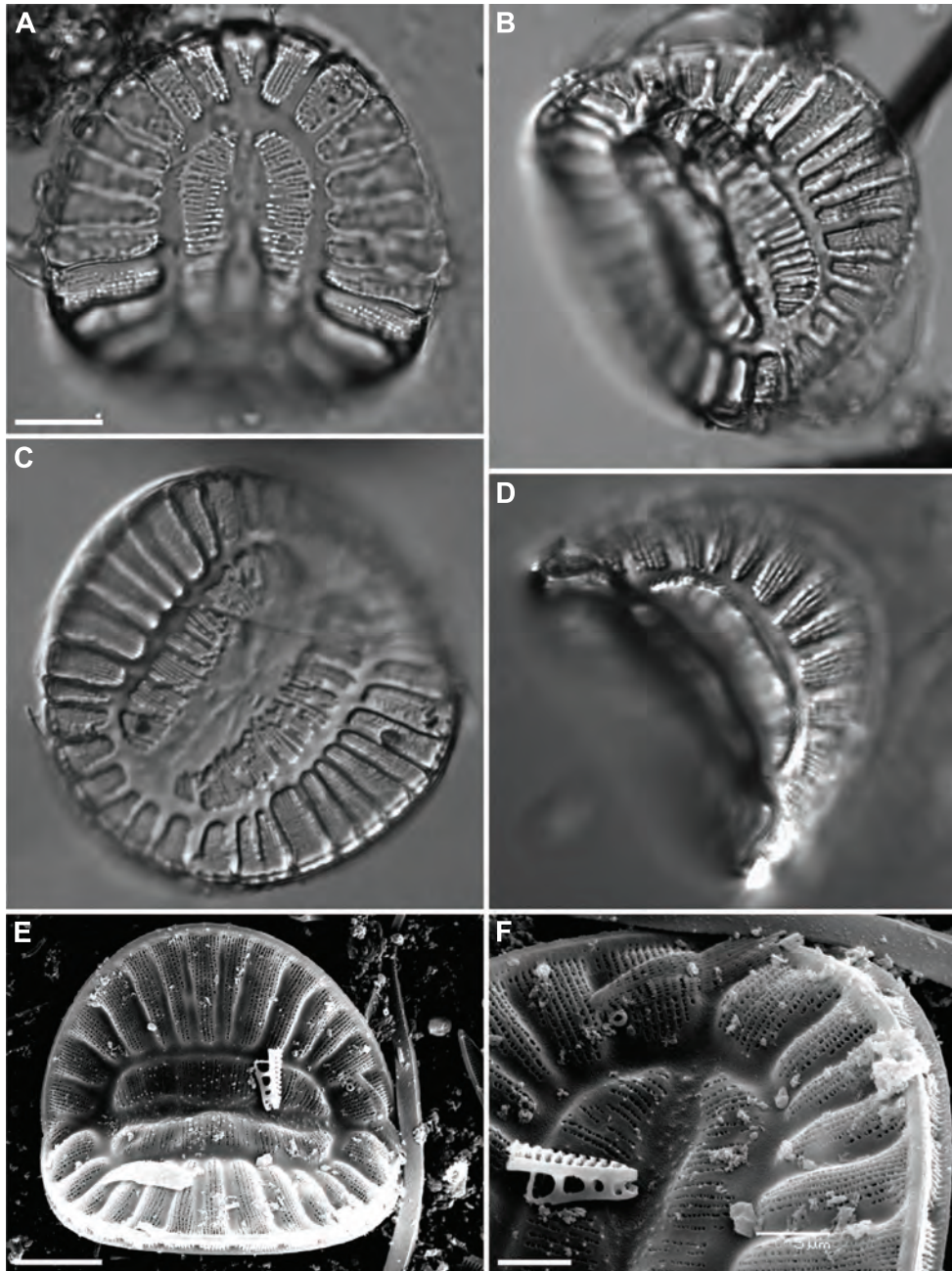


Fig. 184. *Campylodiscus clypeus*. **A-D.** LM. Cells at various angles and foci. **E-F.** SEM, external view of valve, note elevated keel bearing the raphe slit (arrow - F).

Scale bars = 10 μ m (A-F).

Cymatopleura W. Smith 1851

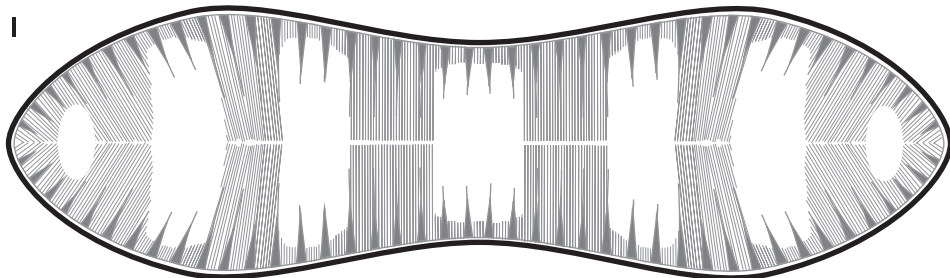
Type species: *Cymatopleura solea* (Brébisson) W. Smith

Characteristics – Cells **isopolar**, **biraphid**, large, elliptical, panduriform or linear with valve margins straight or constricted mid-valve. **Raphe** in a shallow **keel** on the entire circumference of the valve face supported by robust **fibulae** (Fig. 185: B-D; Fig. 186: D). Striae radiate, very fine, composed of small areolae which cannot be resolved using LM. Valve undulates in the transapical plane (Fig. 185: C, D).

Plastid structure – Cells with one large many lobed plastid (Fig. 185: A).

Identification of species – Cell shape, shape of the apices and size, number and position of the transapical valve undulations, structure and density of the fibulae.

Ecology – Cells benthic or planktonic, motile. Found in alkaline waters of low to moderate conductivity.



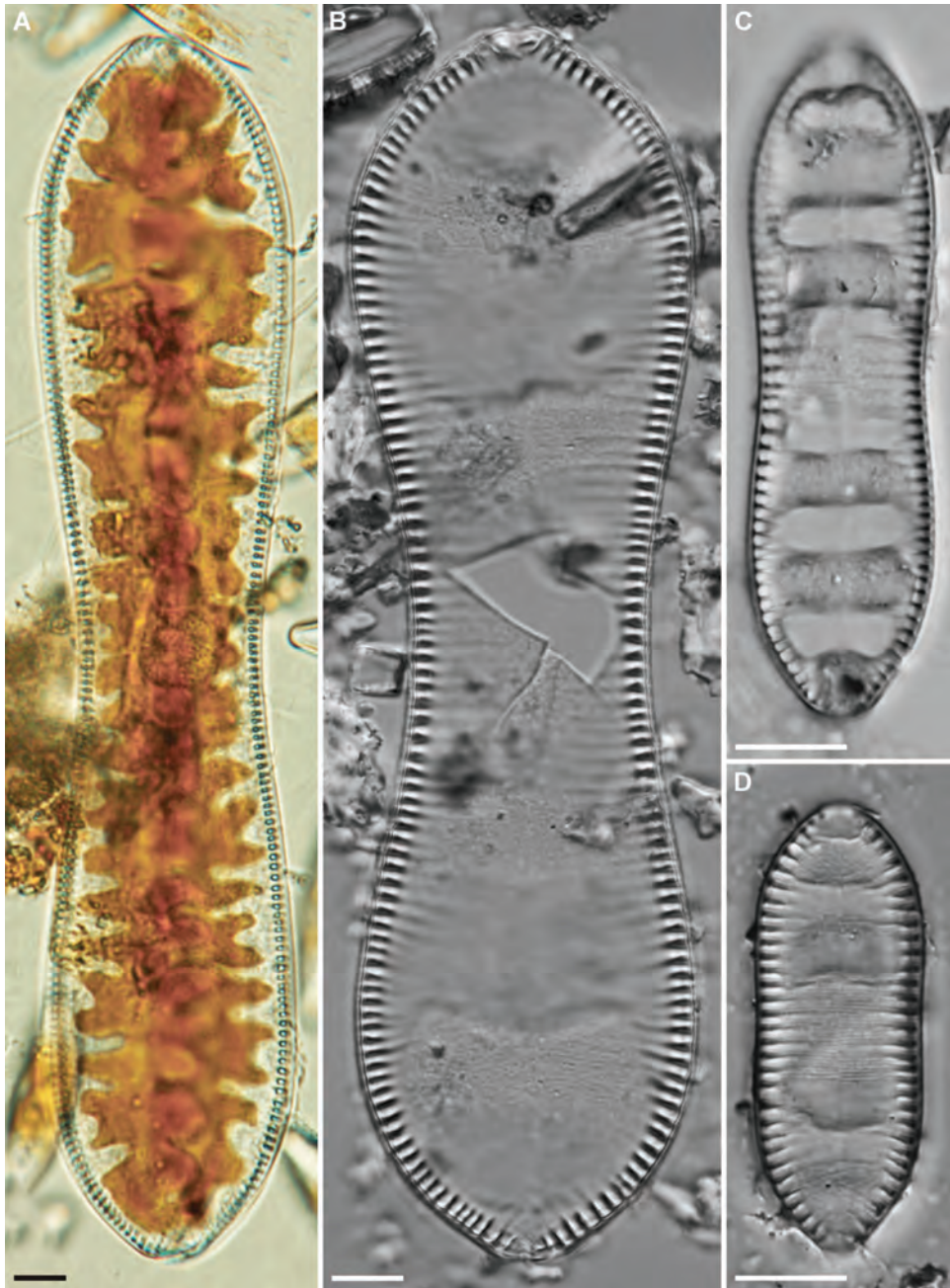


Fig. 185. *Cymatopleura* spp. **A-D.** LM. **A.** Living cell of *Cymatopleura clavata* (O. Müller) Cocquyt & R. Jahn, valve view, note highly lobed plastid. **B-D.** Cleaned material, valve view. **C-D.** *C. comperei* Cocquyt & R. Jahn, note undulations on valve face. Scale bars = 10 μm (A-D).

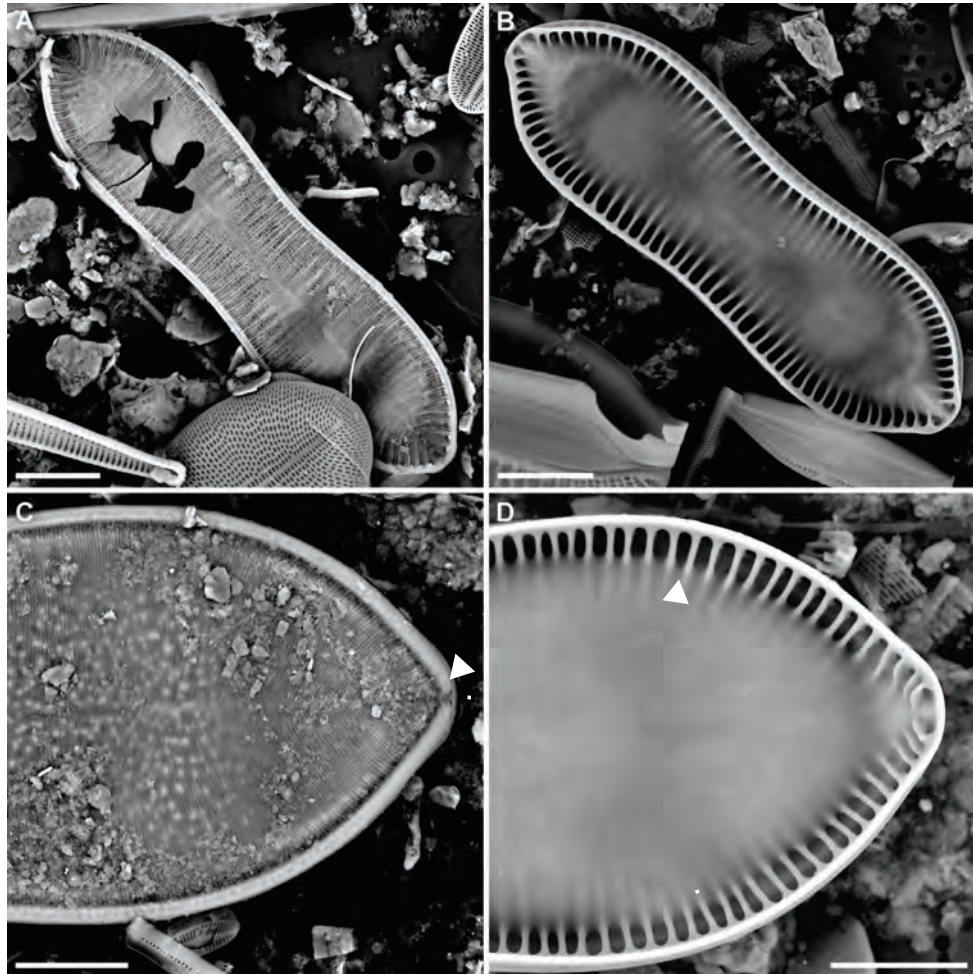


Fig. 186. *Cymatopleura* spp. **A-D.** SEM. **A-B.** *C. comperei*. **A.** View of valve exterior. **B.** View of valve interior. **C.** Valve exterior showing cell apex and raphe endings (arrow). **D.** Valve interior showing fibulae (arrow).
Scale bars = 10 μm (A-D).

Stenopterobia (Brébisson) Van Heurck 1896Type species: *Stenopterobia sigmatella* (W. Gregory) R. Ross

SYNONYM:

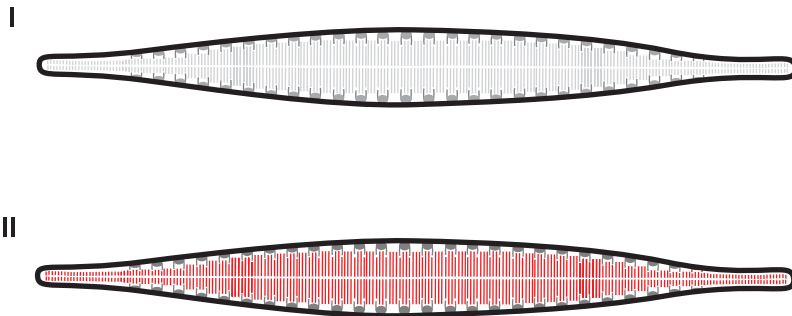
Surirella Turpin 1828 pro parte

Characteristics – Cells **isopolar**, **biraphid**, valves narrow lanceolate or sigmoid. Striae fine, parallel composed of 2-3 rows of areolae which are not discernable under LM. **Costae** (Fig. 188: A-D; Fig. 189: A) cross the raphe and interrupted by a narrow axial area (Fig. 189: A-B). Raphe runs the length of the valve on both margins in a canal on a keel raised above the valve (Fig. 189: A-D).

Plastid structure – Cells with one plastid divided into 2 plates (Fig. 187: C, F), one against each valve connected by a narrow isthmus near one pole.

Identification of species – Species can be identified by cell size, cell shape (lanceolate or sigmoid), shape of the apices, structure and density of the costae, density of the striae as well as structure and width of the axial area.

Ecology – Cells solitary, free living and motile. Found in the benthos of acidic, oligotrophic waters in low conductivities.



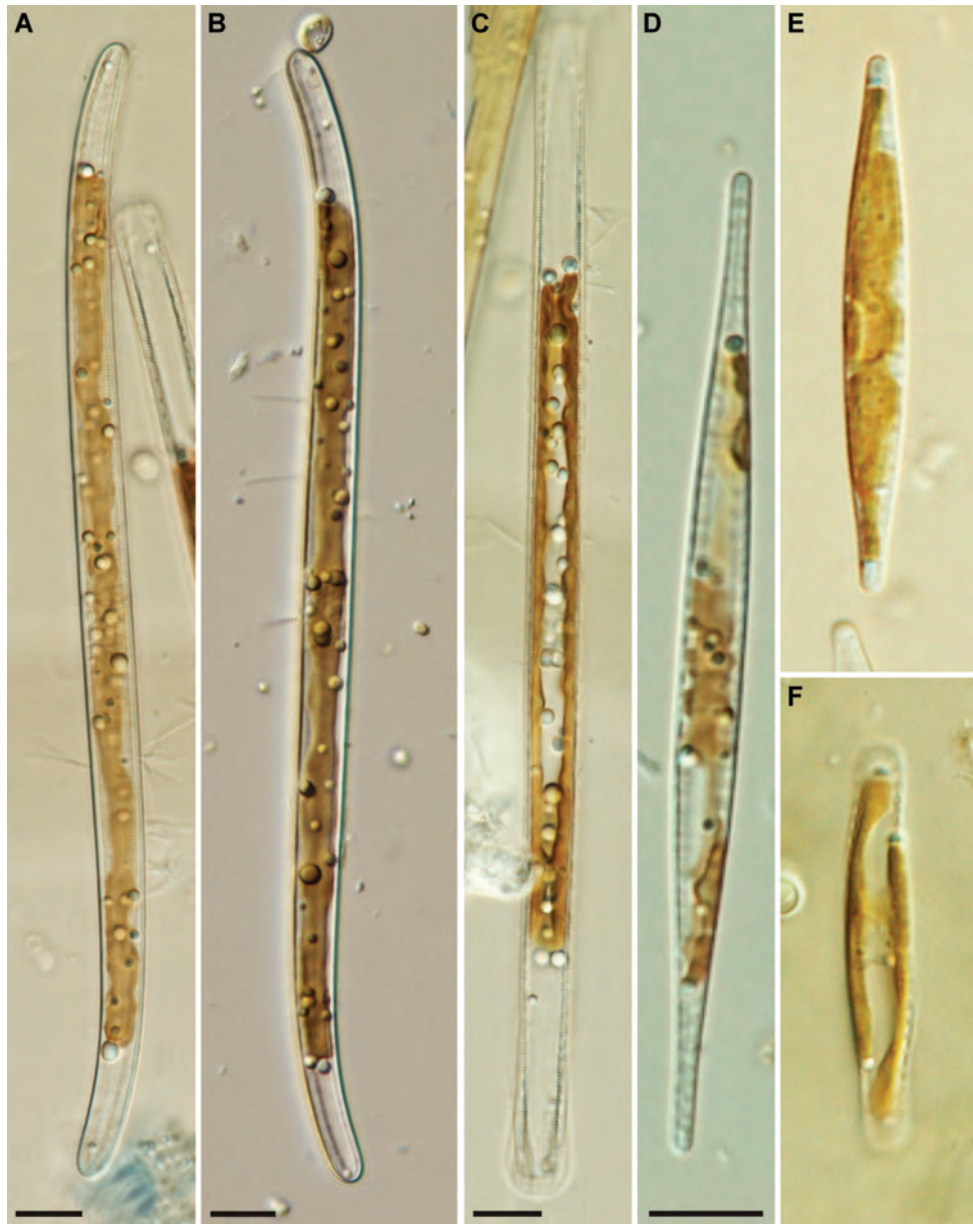


Fig. 187. *Stenopterobia* spp. **A-F.** LM, living cells. **A-B.** *Stenopterobia* sp. valve views. **C.** *Stenopterobia* sp. girdle view. **D-E.** *S. delicatissima* (F.W. Lewis) Brébisson ex Van Heurck, valve views. **F.** *S. delicatissima*, girdle view. Scale bars = 10 μ m (A-F).



Fig. 188. *Stenopterobia* spp. **A-G.** LM, cleaned valves. **A-C.** *Stenopterobia* spp., valve views. **D.** *S. delicatissima*, valve view. **E-F.** *Stenopterobia* spp., valve views. **G.** *Stenopterobia* sp., girdle view. Scale bars = 10 μm (A-G).

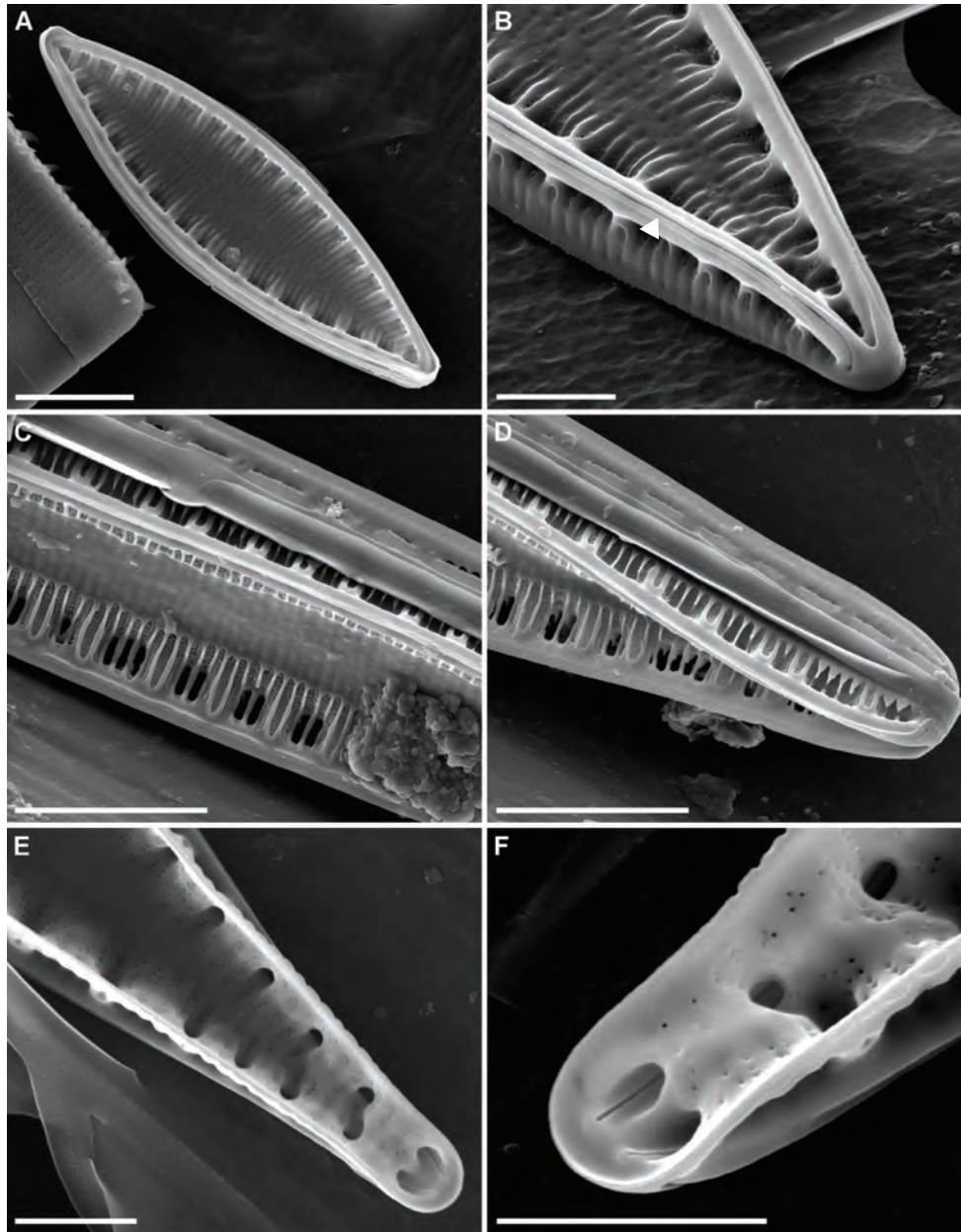


Fig. 189. *Stenopterobia* spp. **A-F.** SEM. **A-B.** *S. delicatissima*, external view of valves, note the raphe keel (arrow - **B**). **C-D.** *Stenopterobia* sp., detail of valve mantle and girdle bands. **E-F.** *S. delicatissima*, internal view of valves, detail of apices and terminal raphe endings..
Scale bars = 5 μ m (A, C-D) 2 μ m (B, E-F).

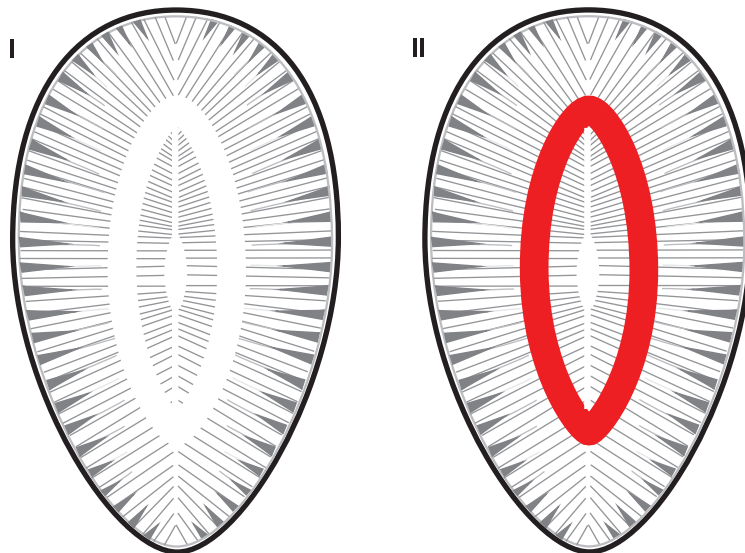
Surirella Turpin 1828Type species: *Surirella striatula* Turpin

Characteristics – Cells **isopolar** or **heteropolar**, **biraphid**, sometimes constricted mid-valve. Striae fine, parallel to radiate composed of one or several rows of small round areolae which are not discernable under LM (Fig. 191). **Transapical valve undulations** (Fig. 191) cross the valve face, interrupted by the axial area which is variable in width (Fig. 191). Raphe runs around the whole circumference of the valve face, interrupted at the foot pole (Fig. 192: D). Raphe in a canal on both margins which may be raised on a keel above the valve face (Fig. 192: A-B, E-F) forming a wing, **fenestrae** may be present. Valve face may have small scattered spines (Fig. 191: B), granules (Fig. 192: E) or other siliceous structures. Some species have one to several large spines in the axial area (Fig. 192: A).

Plastid structure – Cells with one large lobed plastid divided into 2 plates, one against each valve connected by a very narrow isthmus near one pole (Fig. 190).

Identification of species – Species can be identified by cell size, cell shape, shape of the apices, structure and density of the costae, presence and structure of spines, structure of the axial area, as well as structure of the wings.

Ecology – Cells solitary, free living and highly motile. Found in the benthos and plankton of oligotrophic to eutrophic waters in low to high conductivities.



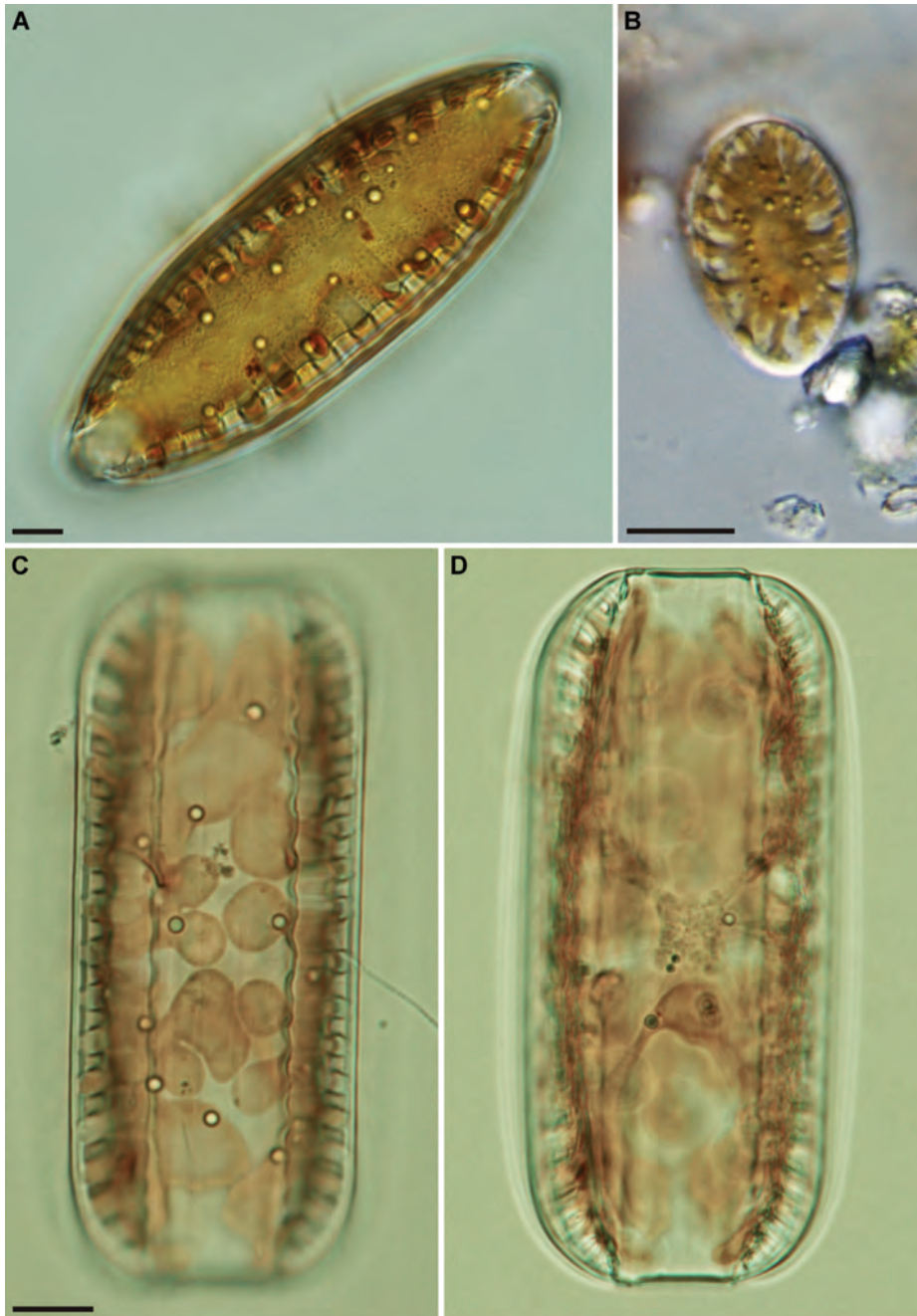


Fig. 190. *Surirella* spp. **A-F.** LM, living cells. **A.** *Surirella* sp., valve view. **B.** *S. brebissonii* Krammer & Lange-Bertalot, valve view. **C-D.** *Surirella* sp., girdle view of the same cell taken at different foci.
Scale bars = 10 μ m (A-F).

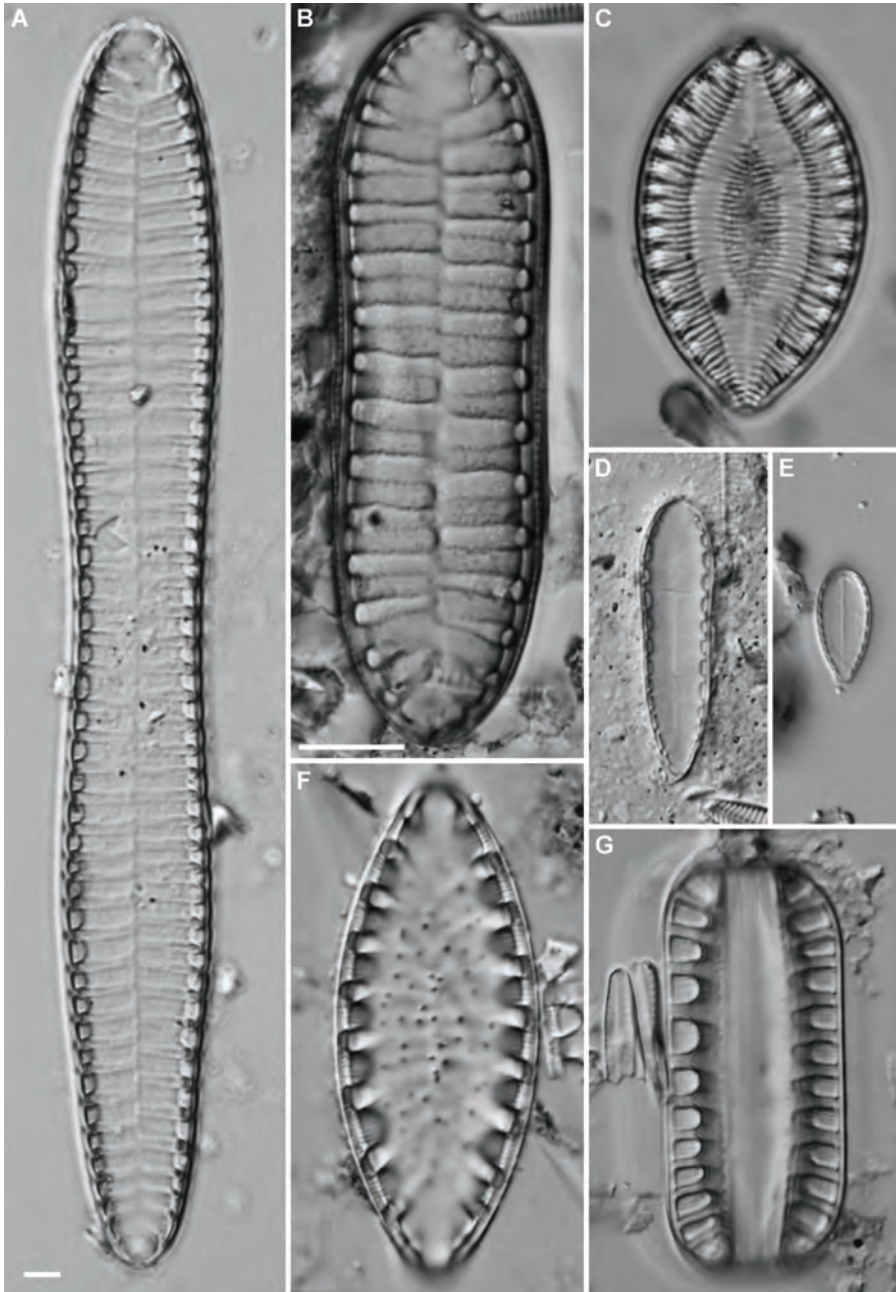


Fig. 191. *Surirella* spp. **A-G.** LM, cleaned valves. **A-F.** Valve views. **B.** *S. ebalensis* Cocquyt & J.C. Taylor. **C.** *S. brebissonii*. **D.** *S. congolensis* Cocquyt & J.C. Taylor. **E.** *S. ostentata* Cholnoky. **F.** *S. bifrons* (Ehrenberg) Ehrenberg. **G.** *Surirella* sp., girdle view.
Scale bars = 10 μ m (A-G).

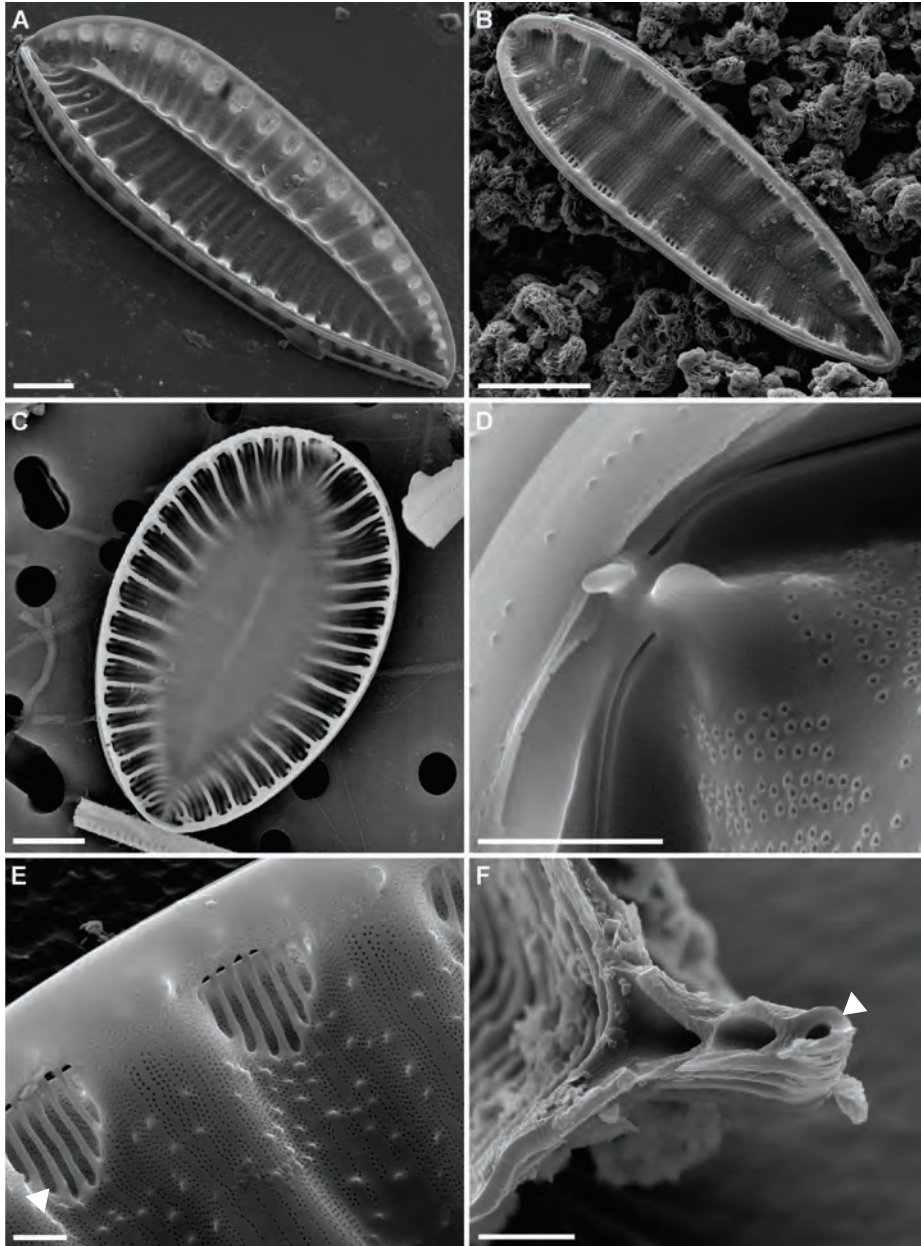


Fig. 192. *Surirella* spp. **A-F.** SEM. **A-B, E.** External view of valves. **A.** *S. nervosa* (A.W.F. Schmidt) Ant. Mayer **B.** *S. congolensis*. **C-D.** Internal view of valves. **C.** *S. brebissonii*. **D.** *S. ebalensis*, detail of internal raphe endings and helictoglossae at the foot pole. **E.** Detail of open fenestrae with fenestral bars (arrow), note the uniseriate striae becoming bi- to triseriate near the keel. **F.** Cross-section of the keel with raphe canal (arrow).

Scale bars = 10 μm (A, C), 5 μm (B), 1 μm (D-F).

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16. Taxonomic index

A

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