

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 μ m (A-G).

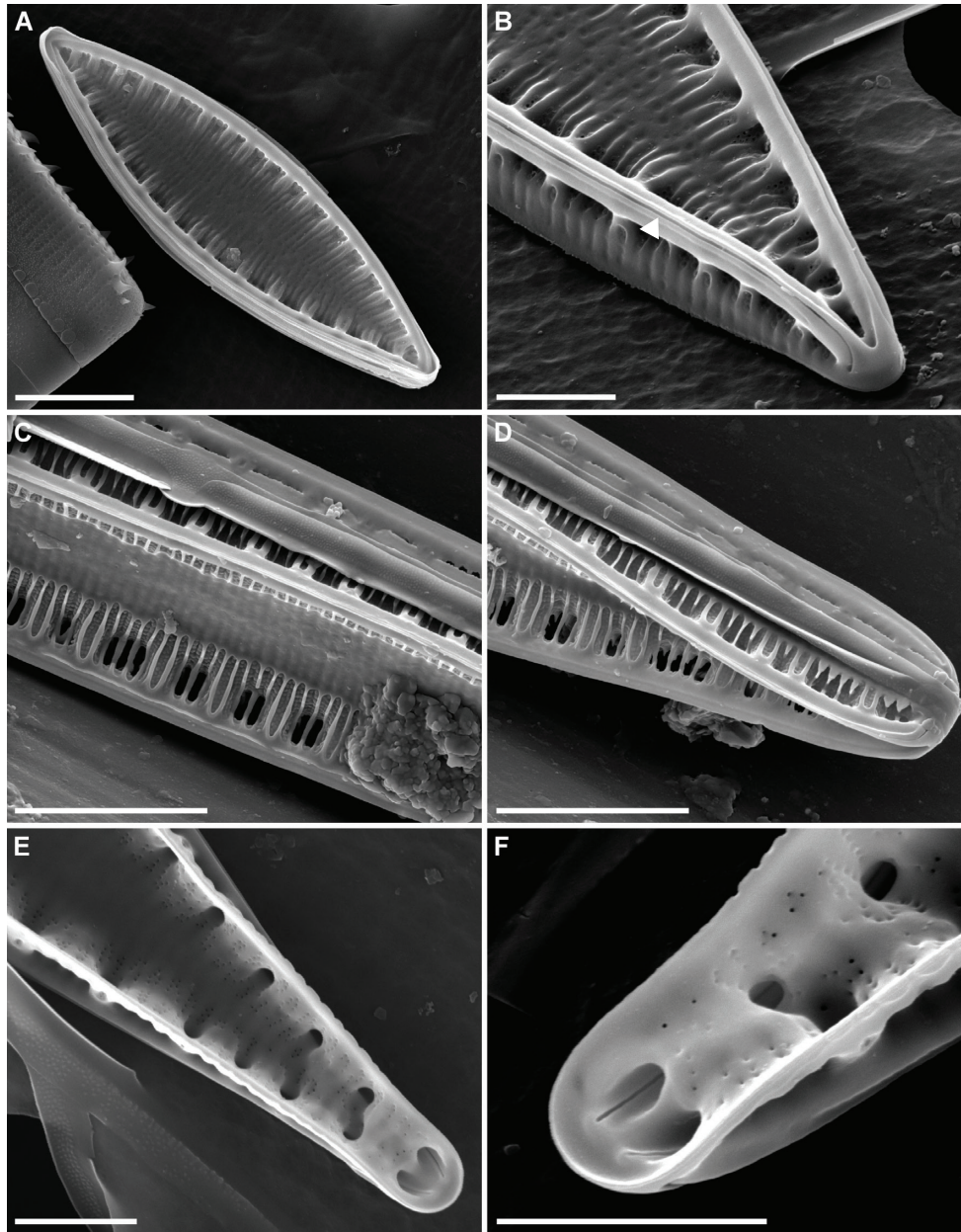


Fig. 189. *Stenopterobia* spp. **A-F.** SEM. **A-B.** *S. delicatissima*, external view of valves, note the raphe keel (arrow - **B**). **C-D.** *Stenopterobia* sp., detail of valve mantle and girdle bands. **E-F.** *S. delicatissima*, internal view of valves, detail of apices and terminal raphe endings..

Scale bars = 5 μ m (A, C-D) 2 μ m (B, E-F).

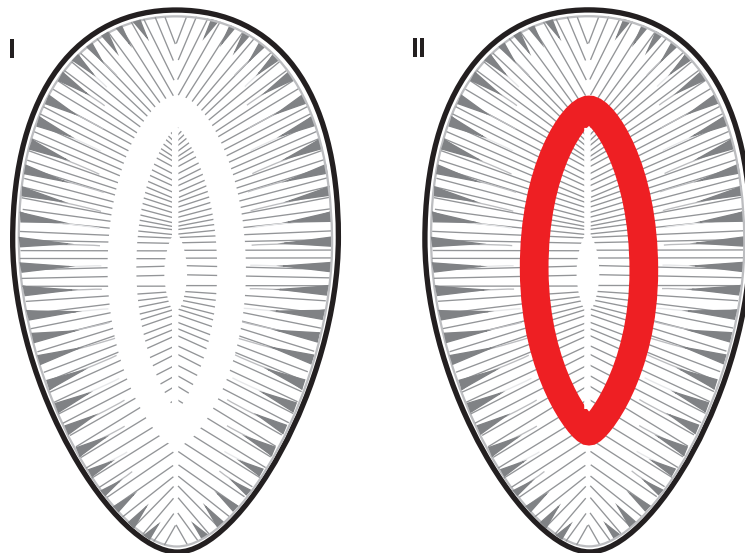
Surirella Turpin 1828Type species: *Surirella striatula* Turpin

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.



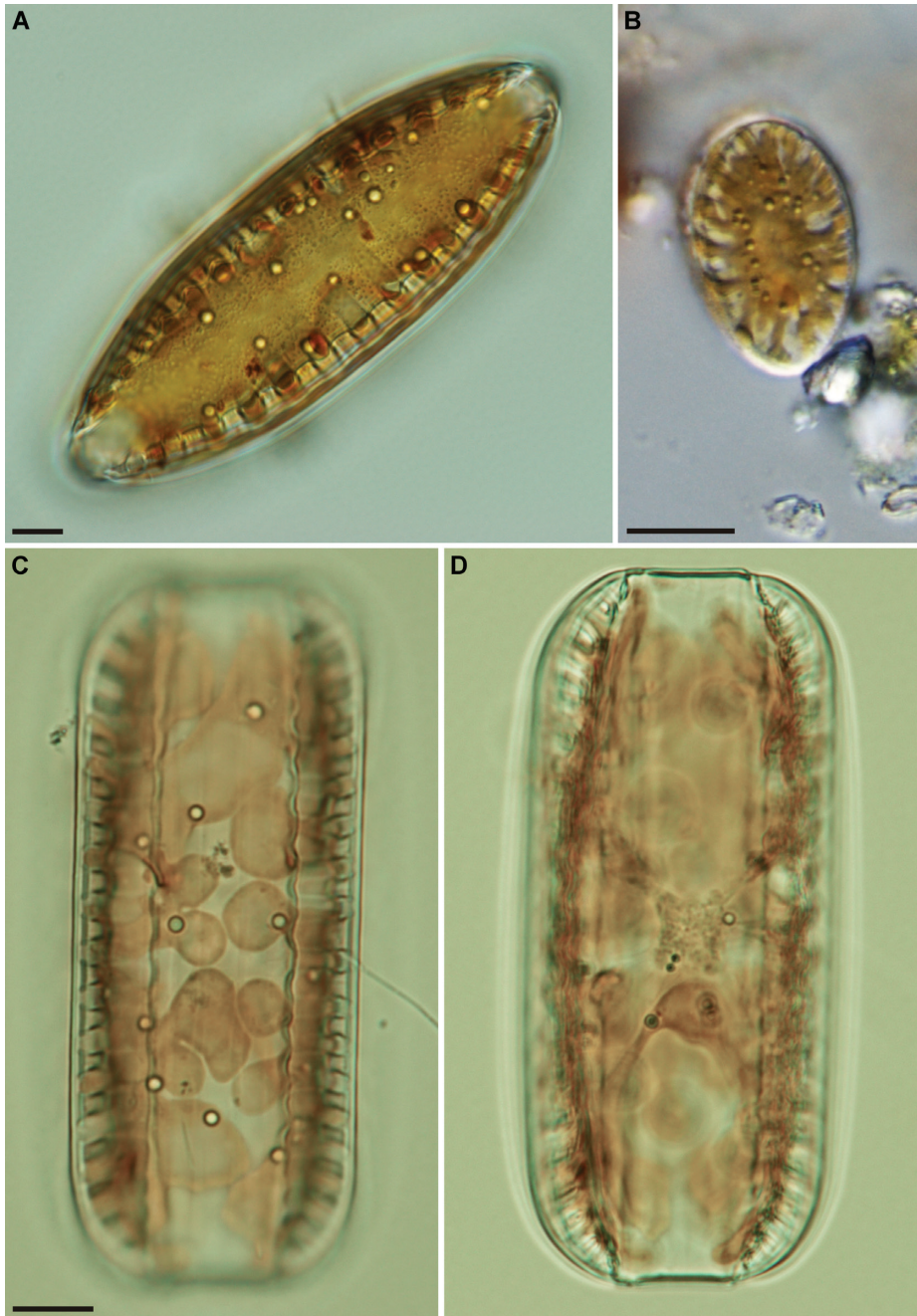


Fig. 190. *Surirella* spp. **A-F.** LM, living cells. **A.** *Surirella* sp., valve view. **B.** *S. brebissonii* Krammer & Lange-Bertalot, valve view. **C-D.** *Surirella* sp., girdle view of the same cell taken at different foci.
Scale bars = 10 μ m (A-F).

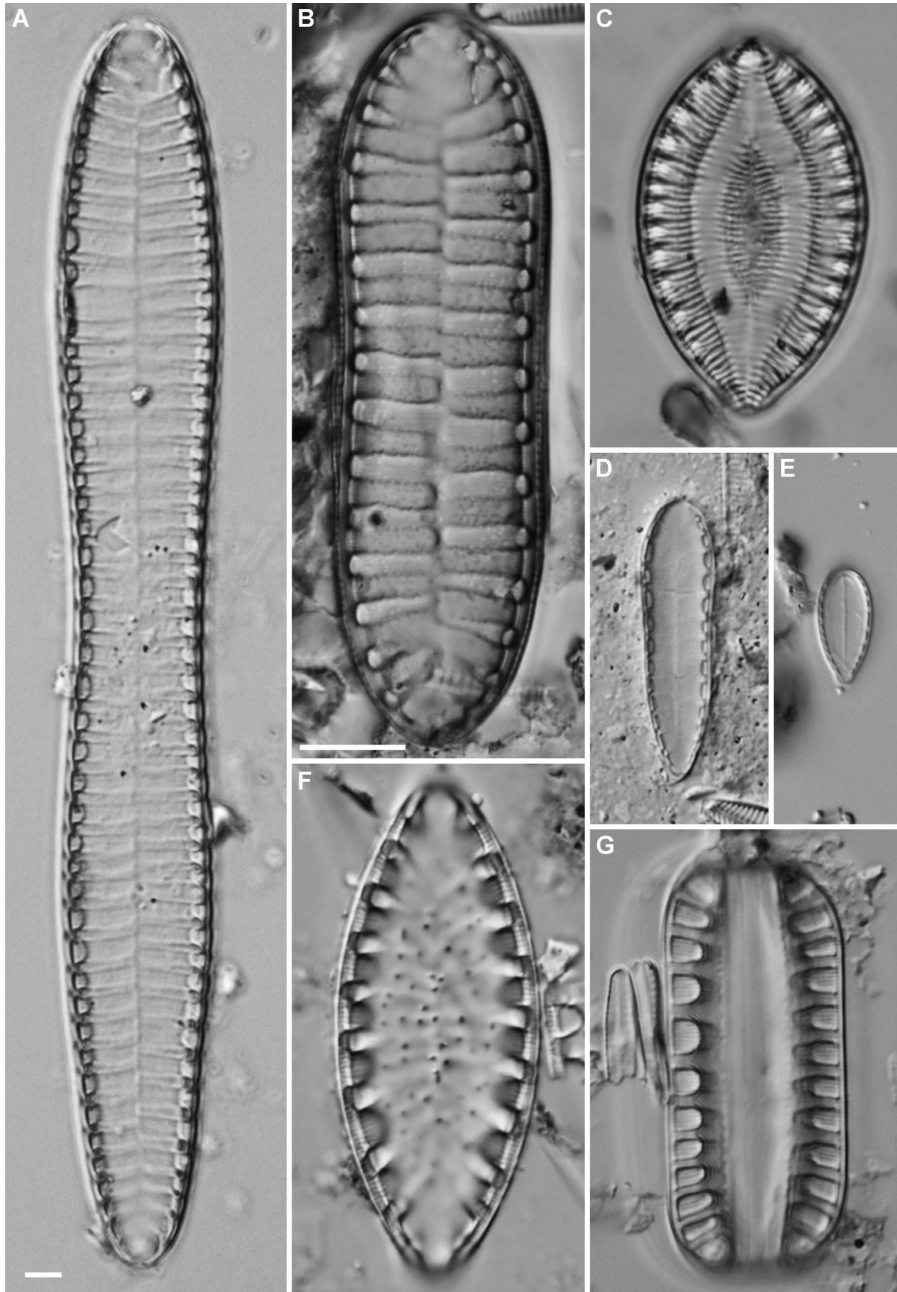


Fig. 191. *Surirella* spp. **A-G.** LM, cleaned valves. **A-F.** Valve views. **B.** *S. ebalensis* Cocquyt & J.C. Taylor. **C.** *S. brebissonii*. **D.** *S. congolensis* Cocquyt & J.C. Taylor. **E.** *S. ostentata* Cholnoky. **F.** *S. bifrons* (Ehrenberg) Ehrenberg. **G.** *Surirella* sp., girdle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

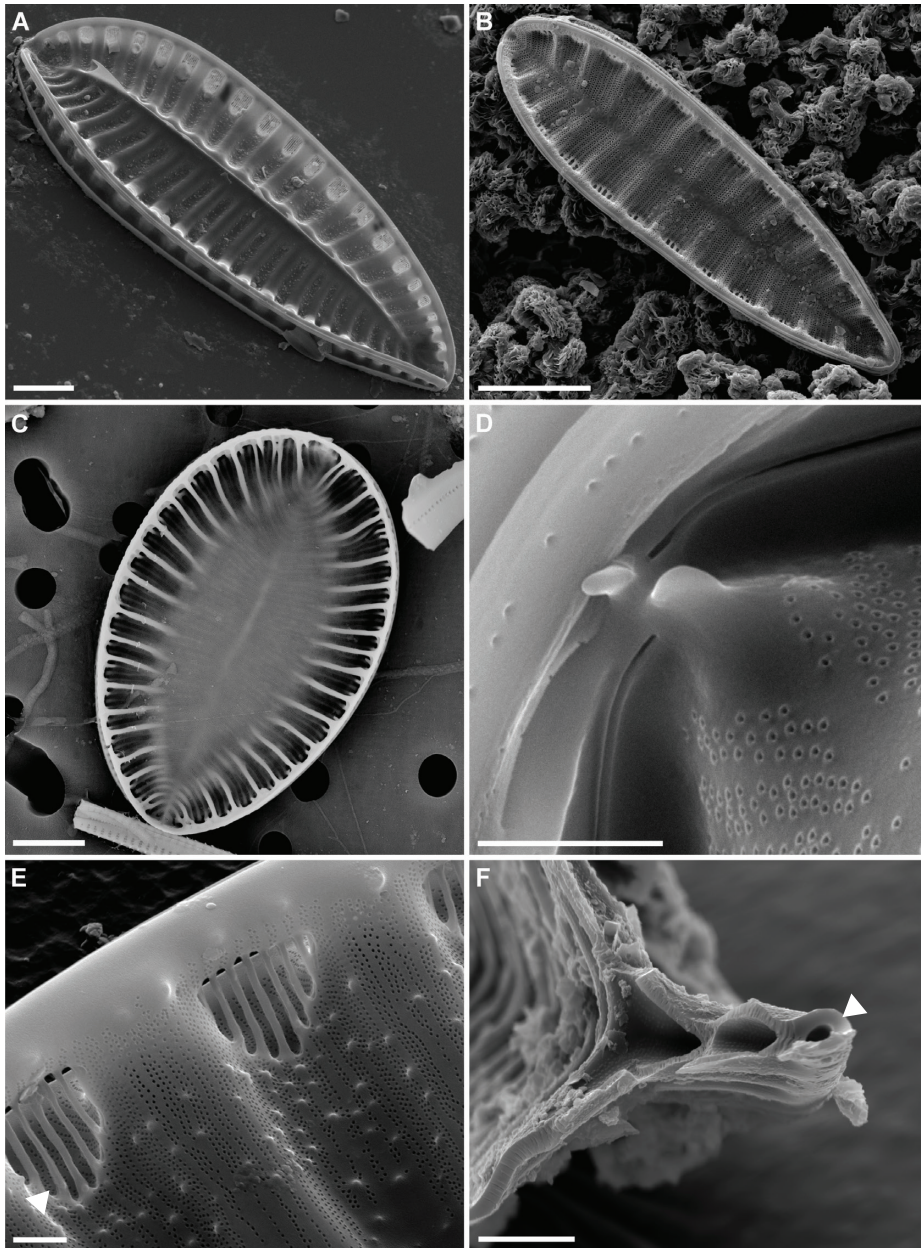


Fig. 192. *Surirella* spp. **A-F.** SEM. **A-B, E.** External view of valves. **A.** *S. nervosa* (A.W.F. Schmidt) Ant. Mayer **B.** *S. congolensis*. **C-D.** Internal view of valves. **C.** *S. brebissonii*. **D.** *S. ebalensis*, detail of internal raphe endings and helictoglossae at the foot pole. **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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14. Acknowledgements

Many thanks are due to the local people of the Democratic Republic of the Congo (D.R. Congo) and Zambia, researchers as well as all who were involved in the sampling campaigns and expeditions. Without their help and support it would have been impossible to start the study on the diatoms in the Congo and Zambezi basins.

In Zambia material was collected under the auspices of the SAFRASS (Southern African River Assessment Scheme) project funded by the ACP Science and Technology Programme (Grant AFS/2009/219013), with the financial assistance of the European Union. Sampling in the Congo Basin in the Tshopo Province (part of the formerly Oriental Province), D.R. Congo was made possible through the Boyekoli Ebale Congo 2010 expedition and the projects COAFISH (Congo basin: From carbon to fishes) and COZADIMO (Preliminary study of diatoms as potential water quality bio-indicators for the tropical Congo and Zambezi sister basins). The 2010 expedition was organized by the Congo 2010 Consortium, composed of the University of Kisangani, the Royal Museum for Central Africa, the Royal Belgian Institute of Natural Sciences and the National Botanic Garden of Belgium. The expedition was funded by the Belgian Development Aid and the Belgian Science Policy. The Belgian Science Policy also funded the project COBAFISH and COZADIMO. Thanks to the VLIR-UOS (Vlaamse Interuniversitaire Raad – Universitaire Ontwikkelingssamenwerking), diatom investigation can be continued and promoted in D.R. Congo through the research project Biodiversity under the umbrella of the project *Apport de la biodiversité à la formation et la sécurité alimentaire dans le Bassin Nord-Est du Congo (Kisangani, R.D. Congo)*.

The authors are very grateful to Gina Walsh for providing “living” diatom material making it possible to add more pictures showing the plastid structure for many diatom genera. Many thanks are due to the reviewer Dr. Kevin J. Murphy (University of Glasgow, UK) and to the editor Dr Jérôme Degreef (Botanic Garden Meise, Belgium) for their helpful comments and suggestions, and to Cyril Gerstmans (Botanic Garden Meise, Belgium) for technical assistance with the figures.

J.C. TAYLOR is the recipient of South African National Research Foundation (NRF) incentive funding. Any opinions, findings and conclusions or recommendations expressed in this material are those of the author(s) and therefore the NRF does not accept any liability in regard thereto. J.C. TAYLOR is a beneficiary of a mobility grant from the Marie Curie Actions of the European commission co-financed by the Belgian Science Policy.

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16. Taxonomic index

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