

Surirella minuta

Bréb. ex Kütz. 1849



Category	Surirelloid
Length Range	18-71 µm
Width Range	8.5-14 µm
Striae in 10 µm	25-32

Contributor Jonathan English - Feb 2011
Reviewer Sam Rushforth - Apr 2011

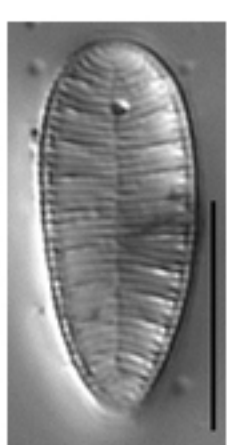
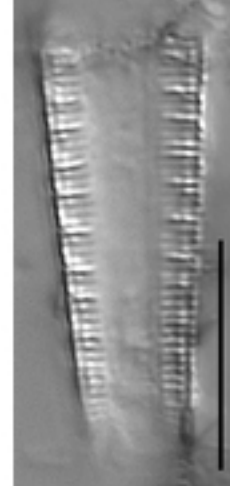
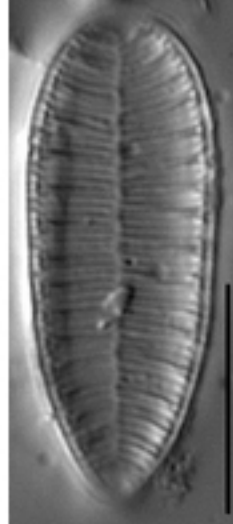
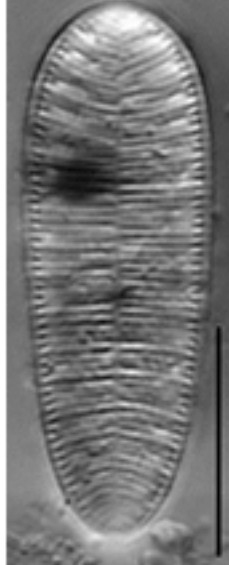
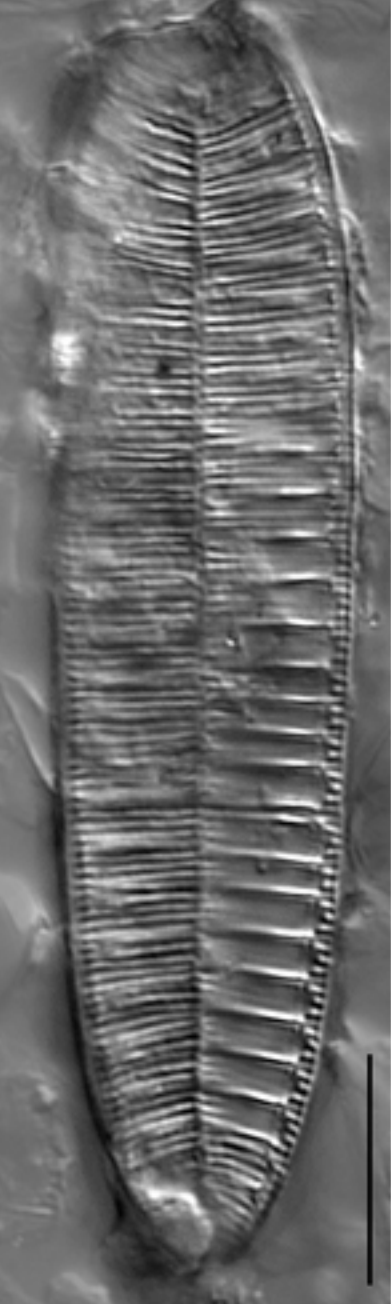
Synonyms
Surirella ovalis var. *minuta* (Bréb.) Van Heurck
Surirella ovata var. *minuta* (Bréb.) A.Cleve.
Surirella pinnata var. *minuta* (Bréb.) Schum.

Reported As
Surirella pinnata (W. Smith 1853)
Surirella ovata (Kützing 1844 pro parte)

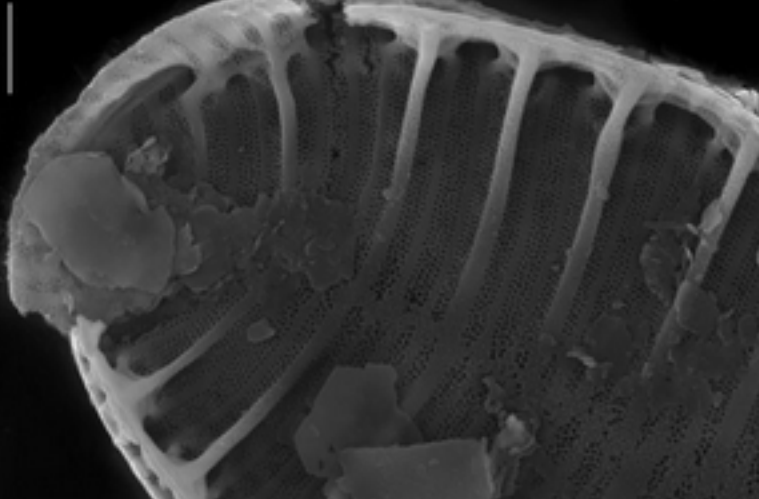
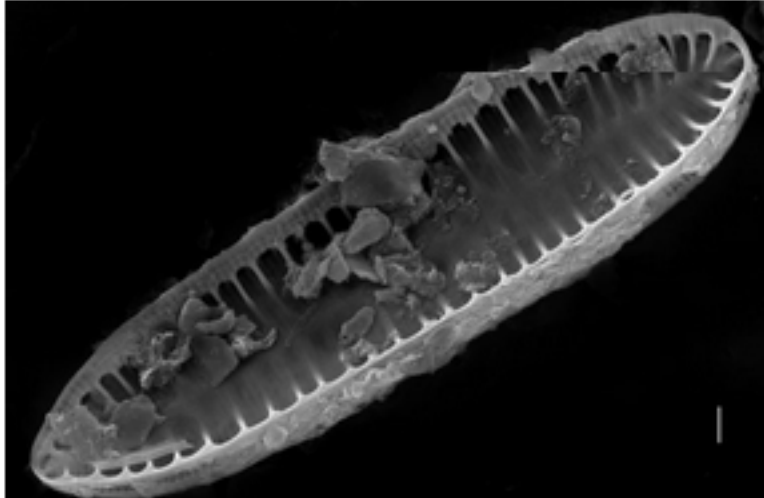
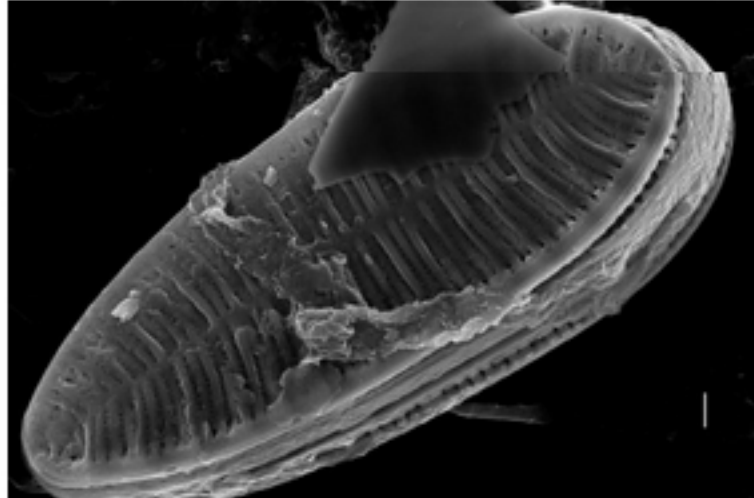
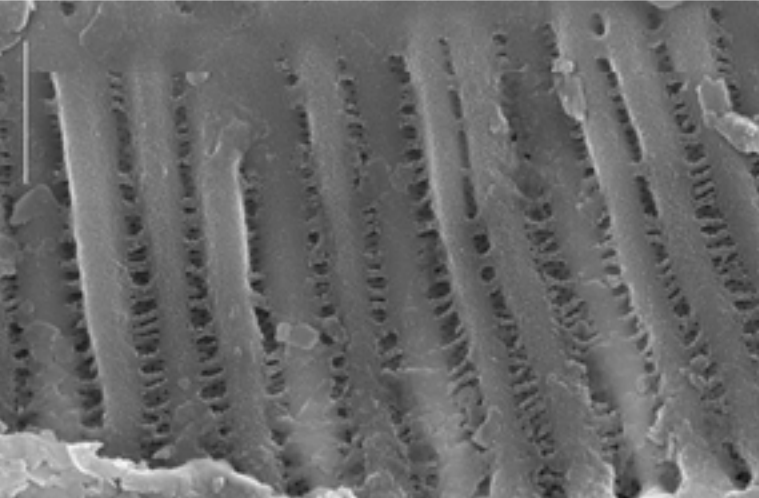
Identification Autecology Original Description EMAP Assessment Citations & Links

Compare

Identification



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Description

Valves 18-71 µm long by 8.5-14 µm wide, with a length to width ratio between 2 and 5. The keel is low and alar canals are not visible. Valves are heteropolar, with the headpole slightly broader and rounder than the footpole. Apices are broadly rounded and the valve sides are straight, tapering slightly toward the footpole. Fibulae 9-12 in 10 µm, extending from the mantle to the apical axial line. Costae are fine,

25-32 in 10 µm, extending from the valve margin to the apical axis. Every third or fourth costae is raised, 6-9 in 10 µm. 3-5 rows of areolae exist between the costa, which are only visible in the SEM. A single row of what appear to be large areolae in the LM occurs around the circumference of the valve, between the keel and the valve face. These structures are actually indentations in the valve face.

Autecology

Size Range, µm ³	101-1000 1001-10000
Motility	Highly motile
Attachment	Unattached
Habitat	Benthic
Colony	Solitary
BCG	BCG 4
Distribution	Western EMAP Southeast Survey California

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Original Description

S. minuta. Bréb. in litt. - *S.* a latere primario late cuneata, truncata, secundario ovata, striis marginalibus delicatulis in 1/100" parte 7-9. - Long. 1/100-1/47". - *Frustulia subquadrata* Bréb. Alg. Falaise p. 45. Pl. VI. - *Surirella ovata* Kg. bacill. f. 62. Tab. 7. Fig. I. II. III. IV. - In Germania, Gallia

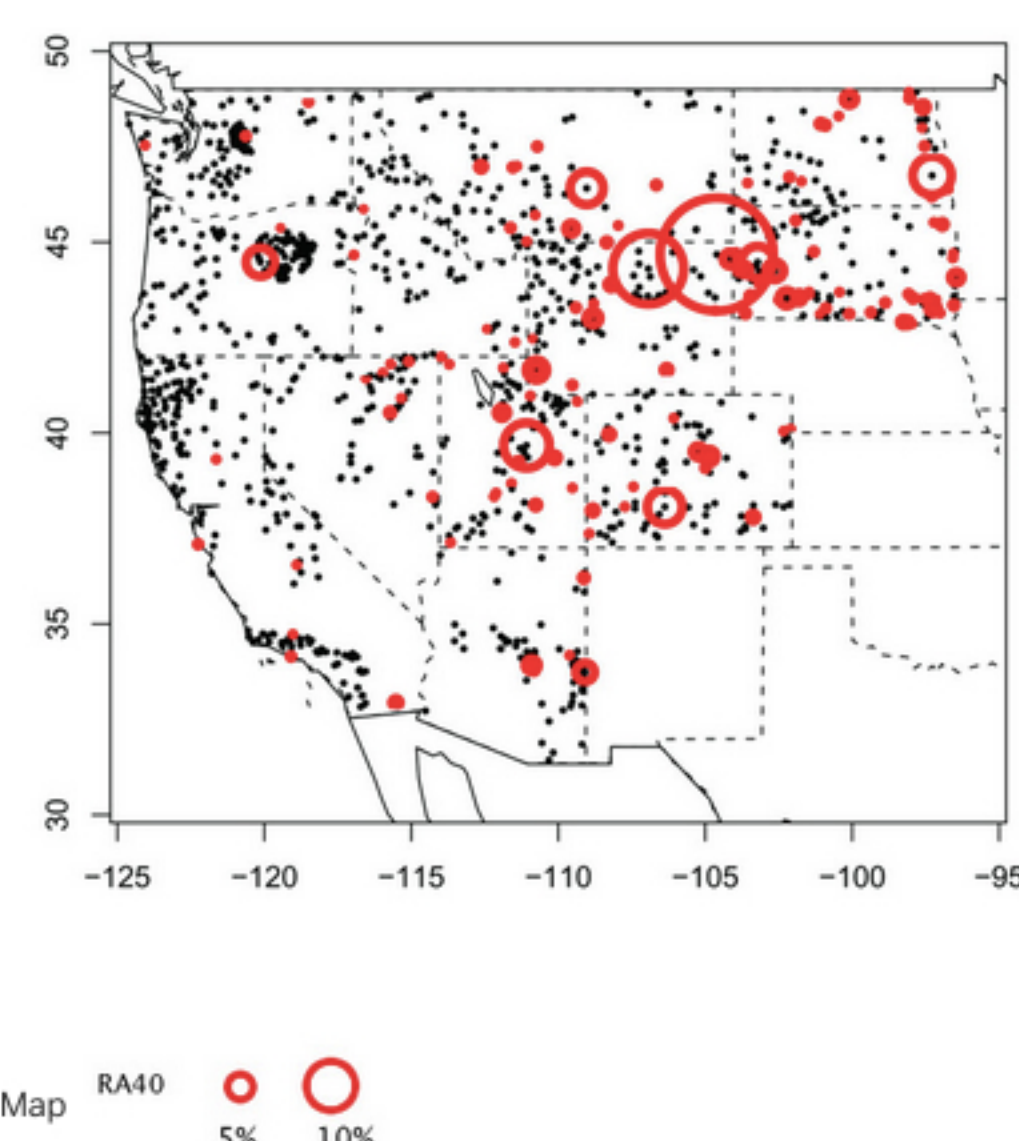
Author	Bréb. ex Kütz. 1849
Length Range	21.2-45 µm
Striae in 10µm	3-4

Original Images

41) *S. minuta*. Bréb. in litt. — *S.* a latere primario late cuneata, truncata, secundario ovata, striis marginalibus delicatulis in 1/100" parte 7-9. — Long. 1/100-1/47". — *Frustulia subquadrata* Bréb. Alg. Falaise p. 45. Pl. VI. — *Surirella ovata* Kg. Bacill. p. 62. Tab. 7. Fig. I. II. III. IV. — In Germania, Gallia

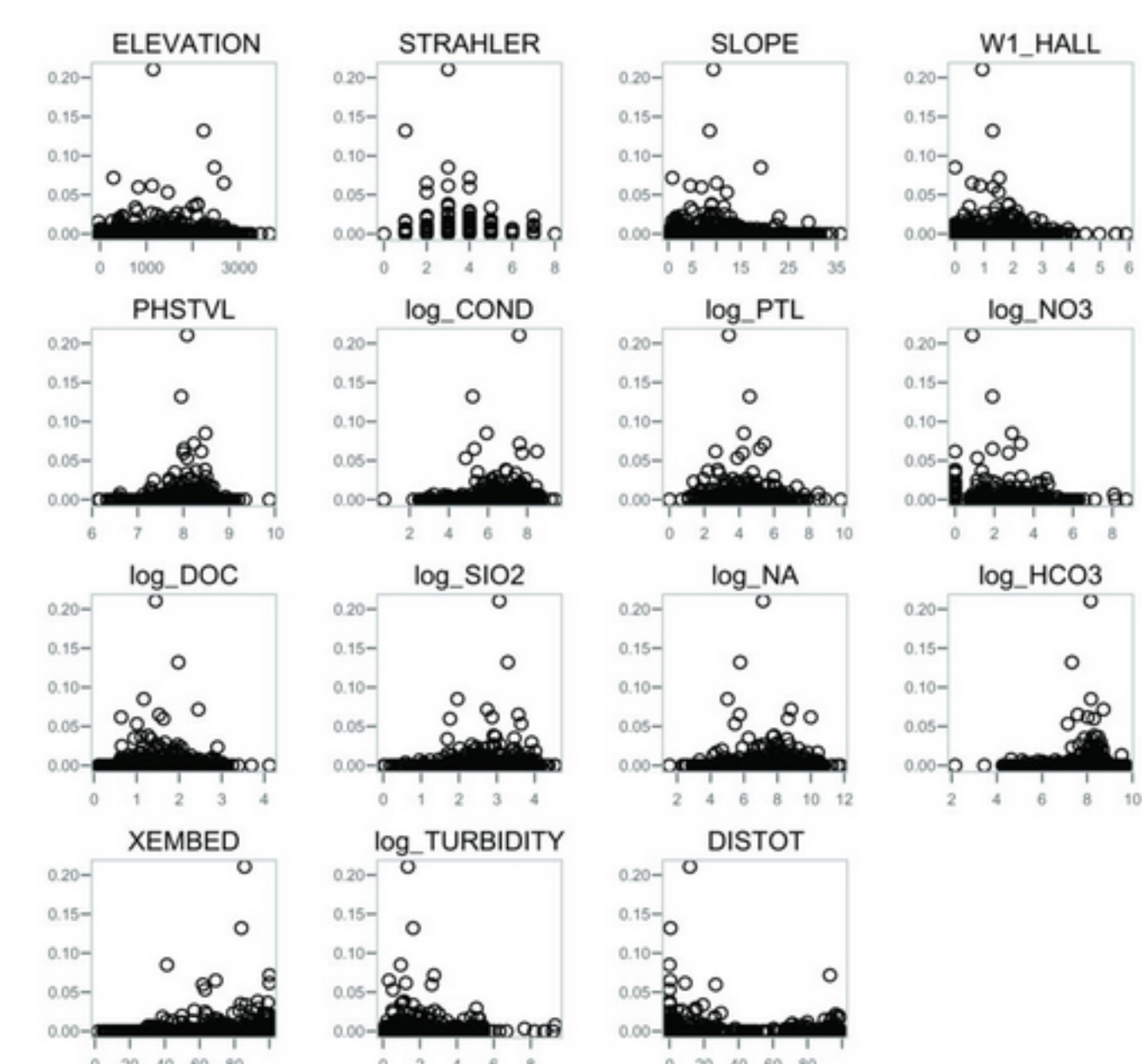
EMAP Assessment

EMAP Distribution



Response Plots

Response Plot Key >



Citations & Links

Citations

- Brébisson, A. de (1838) Considérations sur les Diatomées et essai d'une classification des genres et des espèces appartenant à cette famille. Brée l'Ainé Imprimeur-Libraire, Falaise. 22 pp.
- Krammer, K. and Lange-Bertalot, H. (1987) Morphology and taxonomy of *Surirella ovalis* and related taxa *Diatom Research* 2: 77-95
- Publication Link: 10.1080/0269249X.1987.9704986
- Krammer, K. and Lange-Bertalot, H. (1988) Bacillariaceae. 2. Teil: Bacillariaceae, Epithemiaceae, Surirellaceae In: Ettl, H., J. Gerloff, H. Heynig and D. Mollenhauer (eds.) *Susswasserflora von Mitteleuropa, Band 2/2*. Gustav Fisher Verlag, Jena.
- Kützing, F.T. (1849) *Species Algarum Lipsiae*. F.A. Brockhaus, 922 pp.

Links

- Index Nominum Algarum
Original
- GenBank
Surirella minuta NCBI
- North American Diatom Ecological Database
NADED ID: 65048

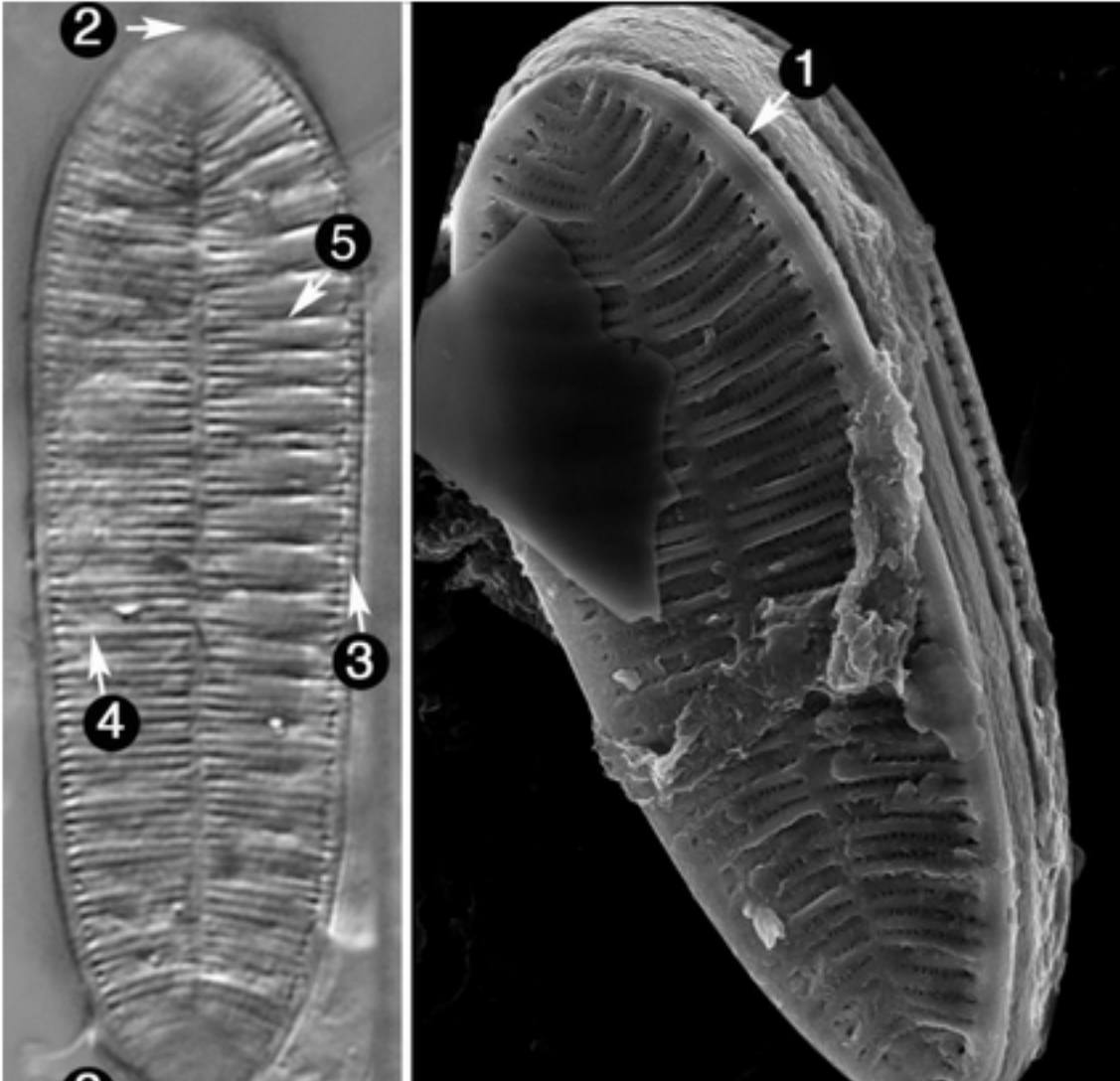
Cite This Page

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Guide to *Surirella minuta*

Bréb. ex Kütz. 1849



Credit: Jonathan English, Marina Potapova

- 1 Keel low, alar wings absent
- 2 Valves slightly heteropolar
- 3 Valve sides straight, tapering toward footpole
- 4 Each 3rd or 4th costa raised
- 5 Fibulae extend from the mantle almost to axial line

The valves are slightly heteropolar with rounded apices and 18-71 µm long by 8.5-14 µm wide. Valve sides are straight, tapering toward the narrower pole (footpole). Fibulae extend from the mantle almost to the axial line, in a density of 9-12 per 10 µm. The costae are dense, 25-32 per 10 µm and every 3rd or 4th costa is raised.