

Planothidium rostratum

(Østrup) Lange-Bert. 1999



Category	Monoraphid
Length Range	11.0-17.5 µm
Width Range	5.0-6.0 µm
Striae in 10 µm	11-13

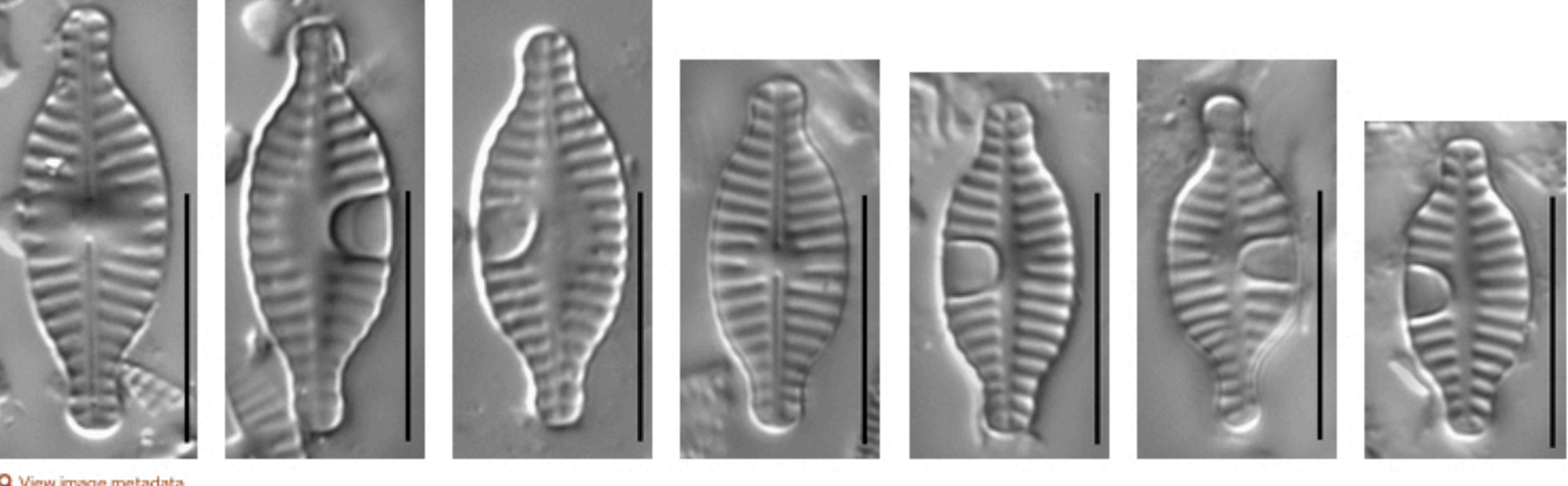
Synonyms
Achnanthes lanceolata subsp. rostrata (Østrup) Lange-Bert.

Contributor Marina Potapova - Dec 2010
Reviewer Sarah Spaulding - Aug 2013

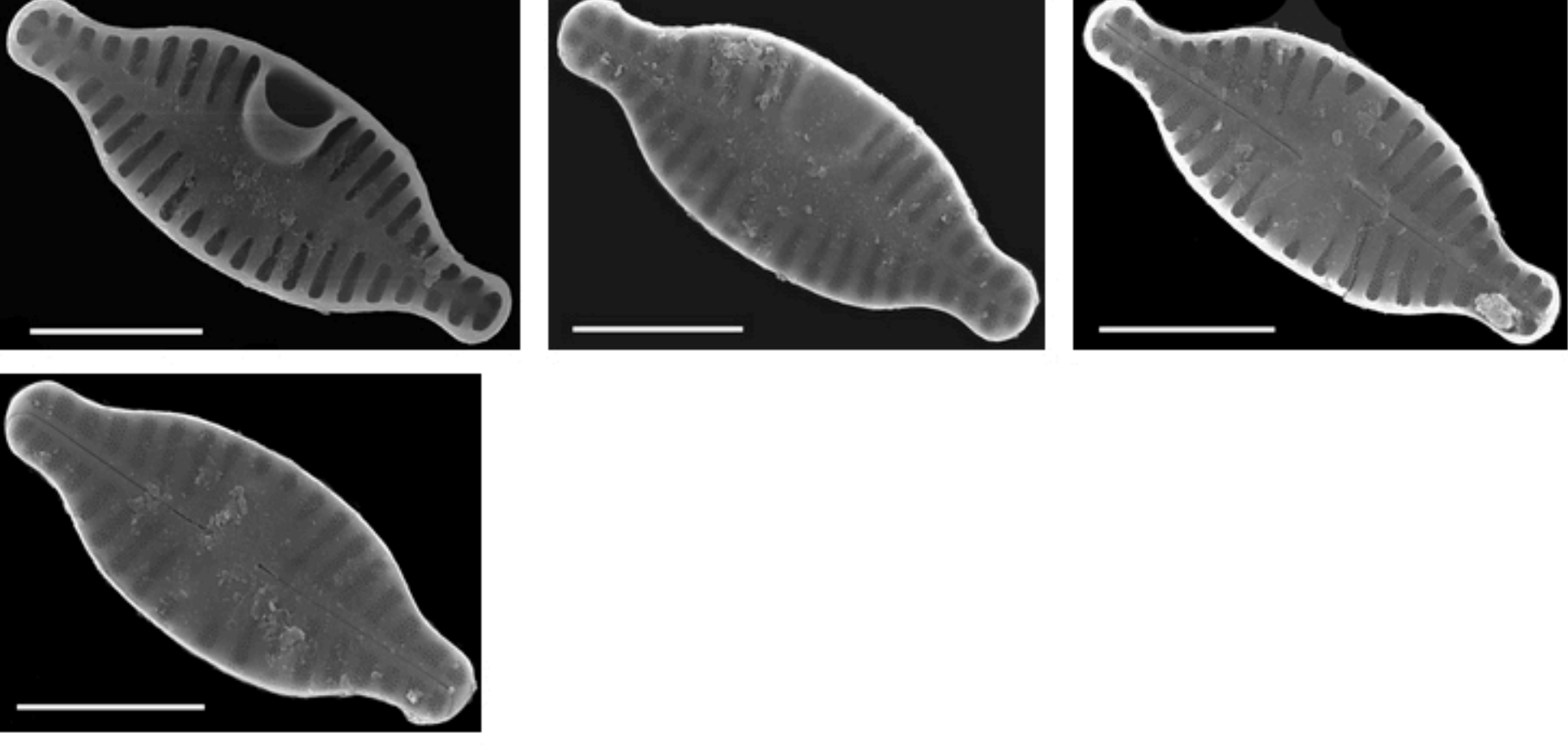
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Identification



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Description

Valves are linear-elliptical with rostrate, subrostrate or narrowly subcapitate apices. The raphe valve has a linear axial area and central area that varies in shape - from transversely rectangular to elliptical. The rapheless valve has a linear-lanceolate axial area, which in some populations, widens considerably in the valve center. The rapheless

valve has a linear-lanceolate axial area and an asymmetrical central area containing a hood on the internal valve surface. The raphe is straight with expanded external proximal endings. Terminal raphe fissures are curved to the secondary side of the valve. The striae are multiserial and radiate throughout both valves.

Autecology

Size Range, µm3	101-1000
Motility	Slightly motile
Attachment	Prostrate
Habitat	Benthic
Colony	Solitary
BCG	BCG 3
Distribution	Western EMAP Southeast Survey California

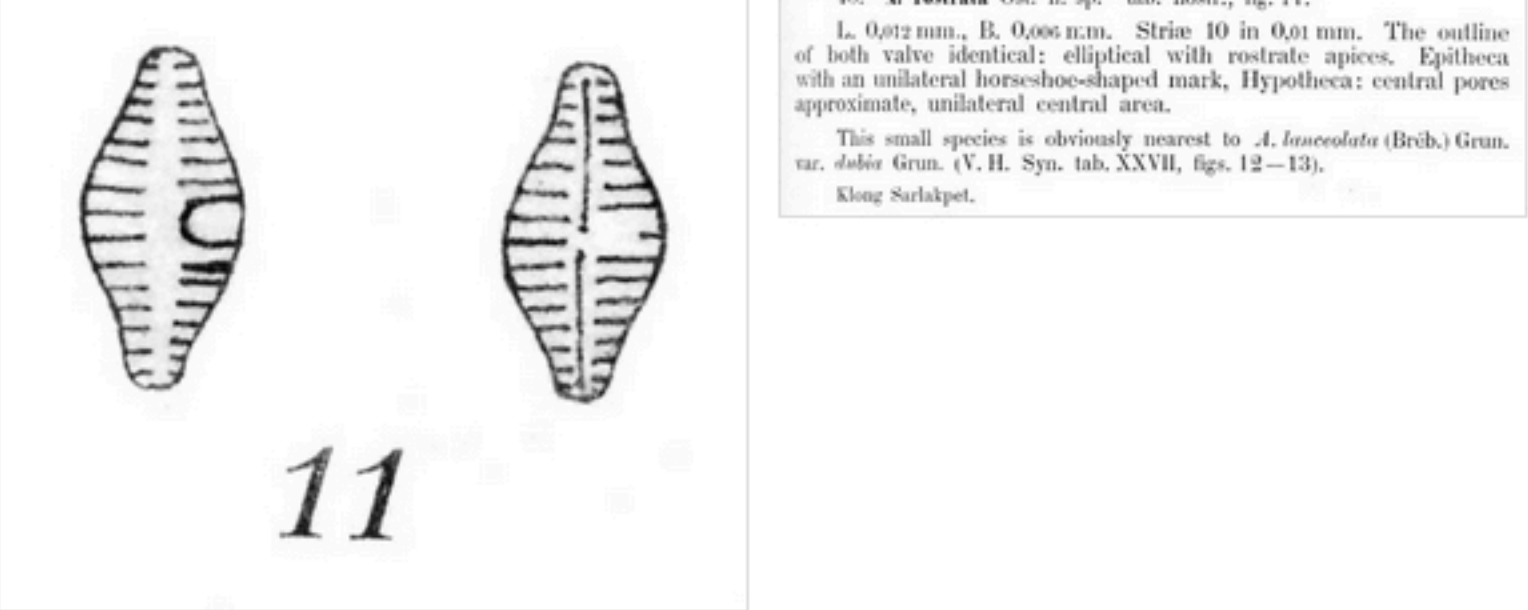
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Original Description

L. 0,012 mm., B. 0,006 mm. Striae 10 in 0,01 mm. The outline of both valve identical: elliptical with rostrate apices. Epitheca with an unilateral horseshoe-shaped mark, Hypotheca: central pores approximate, unilateral central area

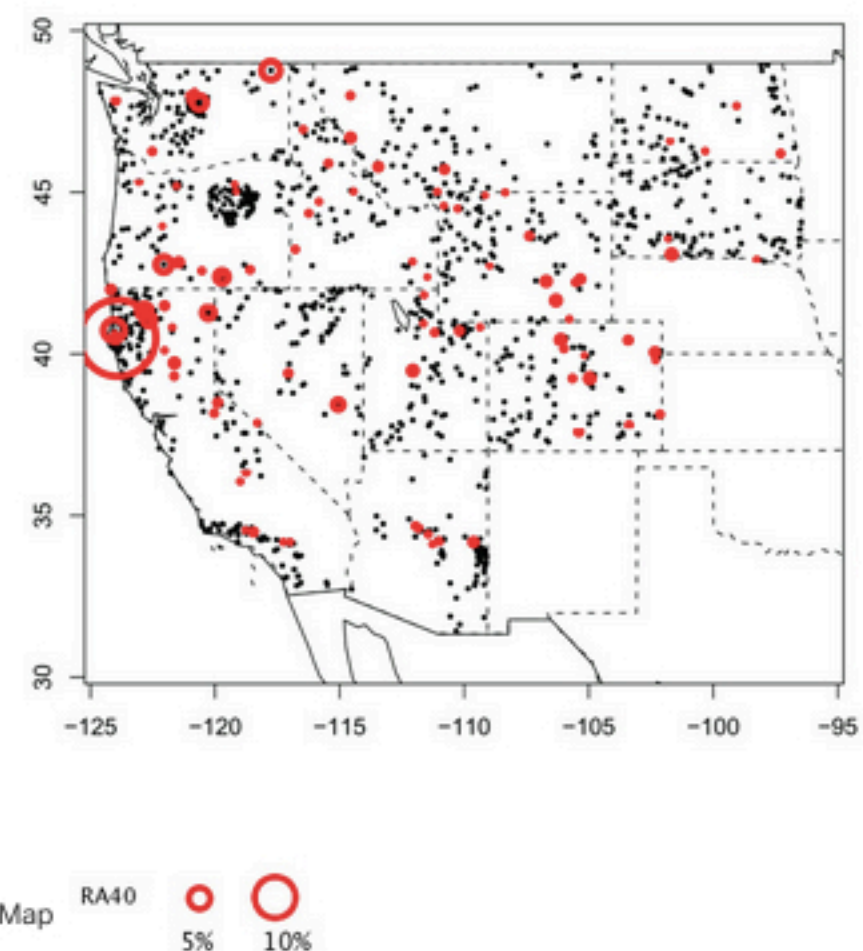
Basionym	Achnanthes rostrata
Author	Østrup 1902
Length Range	12 µm
Width	6 µm
Striae in 10µm	10

Original Images



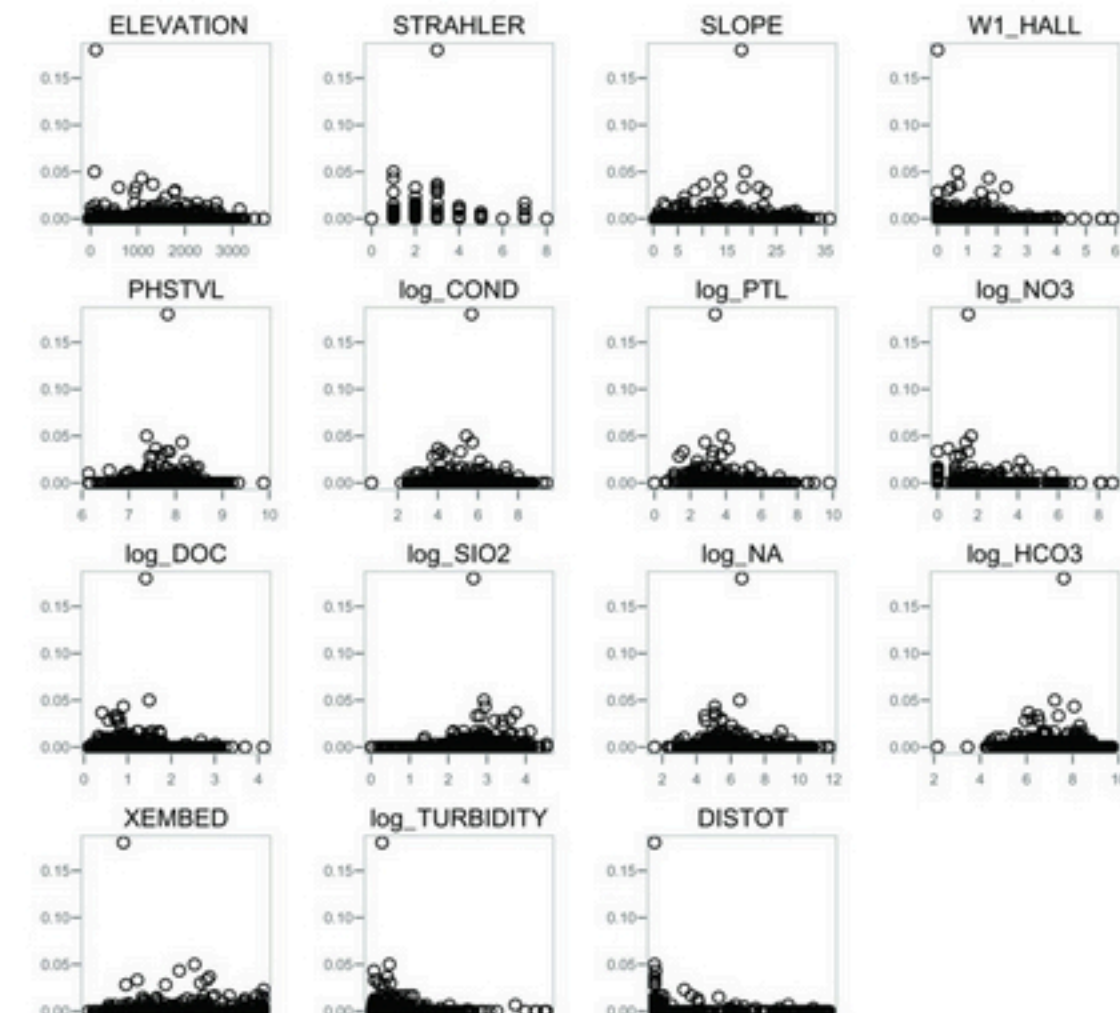
EMAP Assessment

EMAP Distribution



Response Plots

[Response Plot Key](#)



Citations & Links

Citations

Lange-Bertalot, H. (1999) Neue Kombinationen von taxa aus *Achnanthes* Bory (sensu lato) *Iconographia Diatomologica* 6: 276-289
Moss, M.O. and Carter, J.R. (1982) The resurrection of *Achnanthes rostrata* Østrup *Bacillaria* 5: 147-164
Østrup, E. (1902) Freshwater Diatoms [in Flora of Koh Chang, Part VII. Contributions to the knowledge of the gulf of Siam, John Schmidt (ed.), Preliminary Rept. Bot., Results Dan. Exped. to Siam (1899-1900)]. *Botanisk Tidsskrift* 25(1): 28-41

Links

CAS
[Link](#)
North American Diatom Ecological Database
NADED ID: 155018

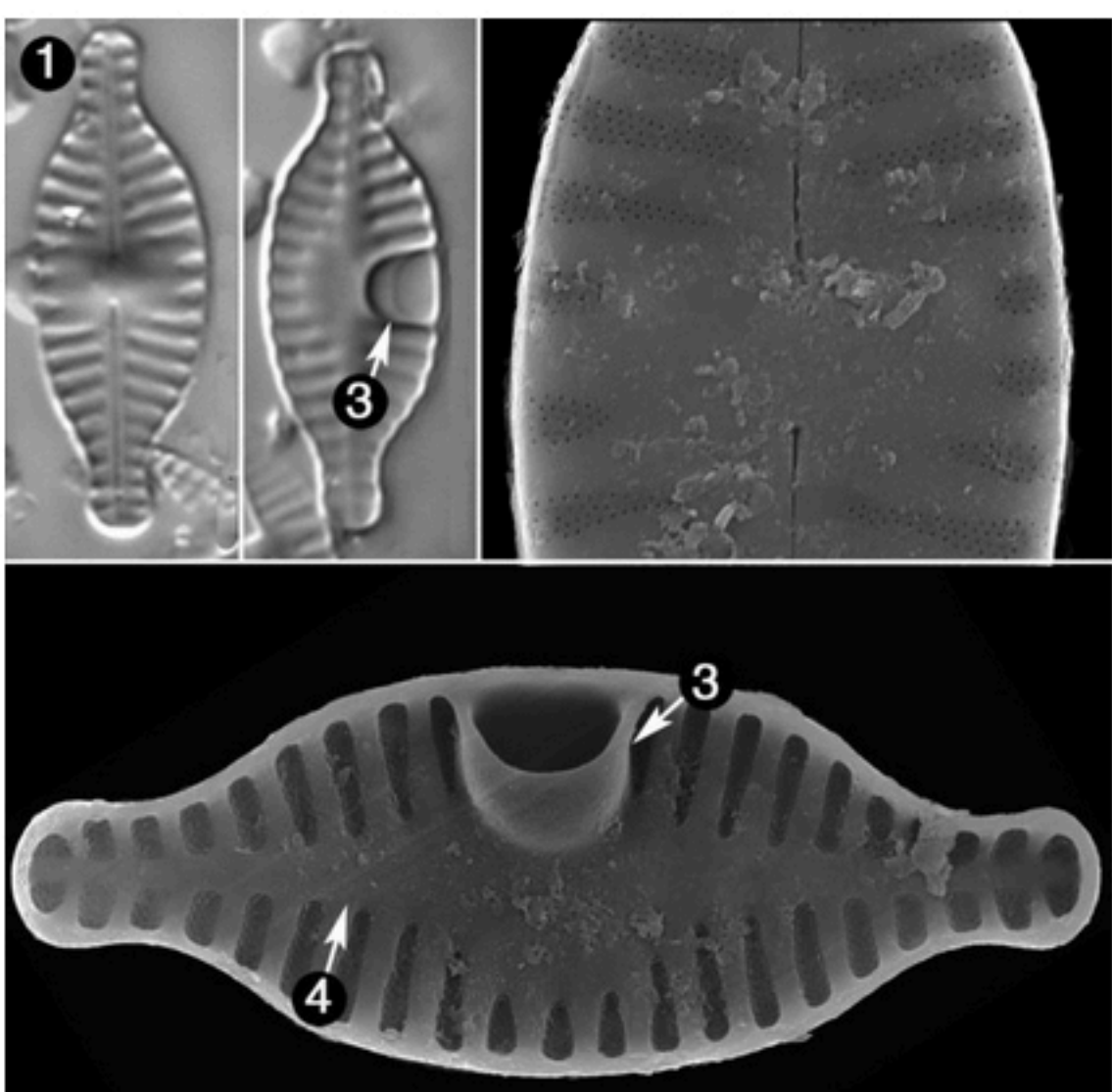
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Potapova, M. (2010). *Planothidium rostratum*. In *Diatoms of North America*. Retrieved March 15, 2020, from https://diatoms.org/species/planothidium_rostratum

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Guide to *Planothidium rostratum*

(Østrup) Lange-Bert. 1999



Credit: Marina Potapova

- 1 Valves linear-elliptical with rostrate, subrostrate or narrowly subcapitate apices
- 2 Valves 5.0-6.0 µm wide
- 3 Rapheless valve with a hood
- 4 Axial area on rapheless valve from narrow linear to expanded in the center

Valves are elliptical with rostrate, subrostrate or narrowly subcapitate apices, 11.0-17.5 µm long, 5.0-6.0 µm wide. Rapheless valve has a linear axial area, which in some population considerably widens in the center. The central area on the rapheless valve is asymmetrical and contains a hood. The striae are multiserial and radiate throughout both valves, 11-13 in 10 µm.

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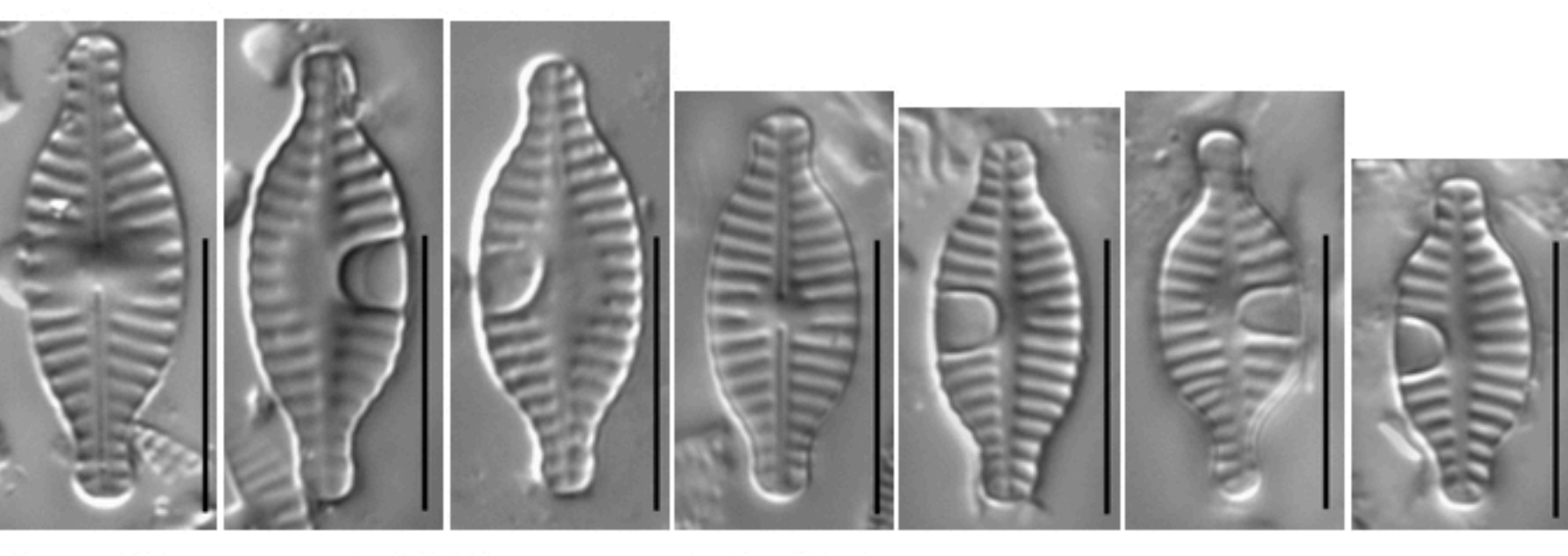
Compare *Planothidium rostratum*

(Østrup) Lange-Bert. 1999

Compare

Planothidium rostratum differs from other *Planothidium* species with a hood, such as *P. biporum* and *P. frequentissimum*, by the linear-elliptical valves with rostrate, subrostrate or narrowly subcapitate apices.

LM scalebar = 10 µm



Length Range 11.0-17.5 µm
Width Range 5.0-6.0 µm
Striae in 10 µm 11-13