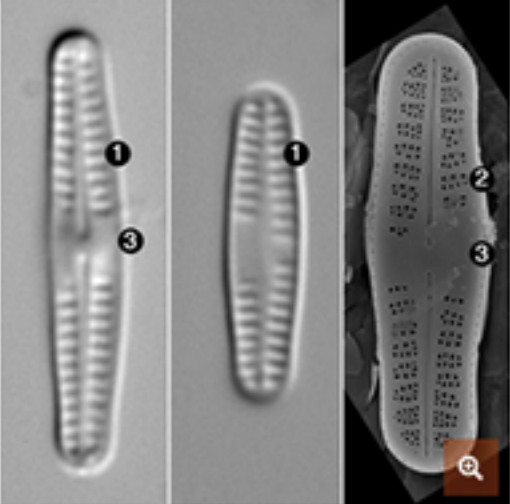


Achnantheidium kriegeri

(Krasske) Hamilton, D.Anton. and Siver 2008

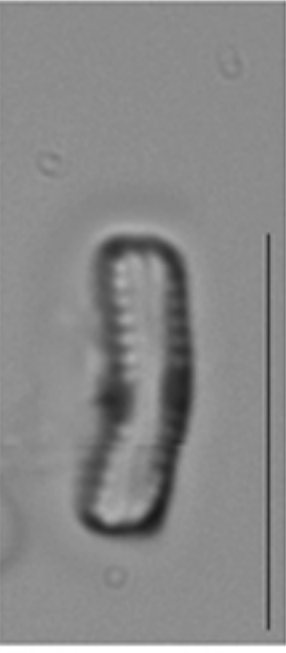
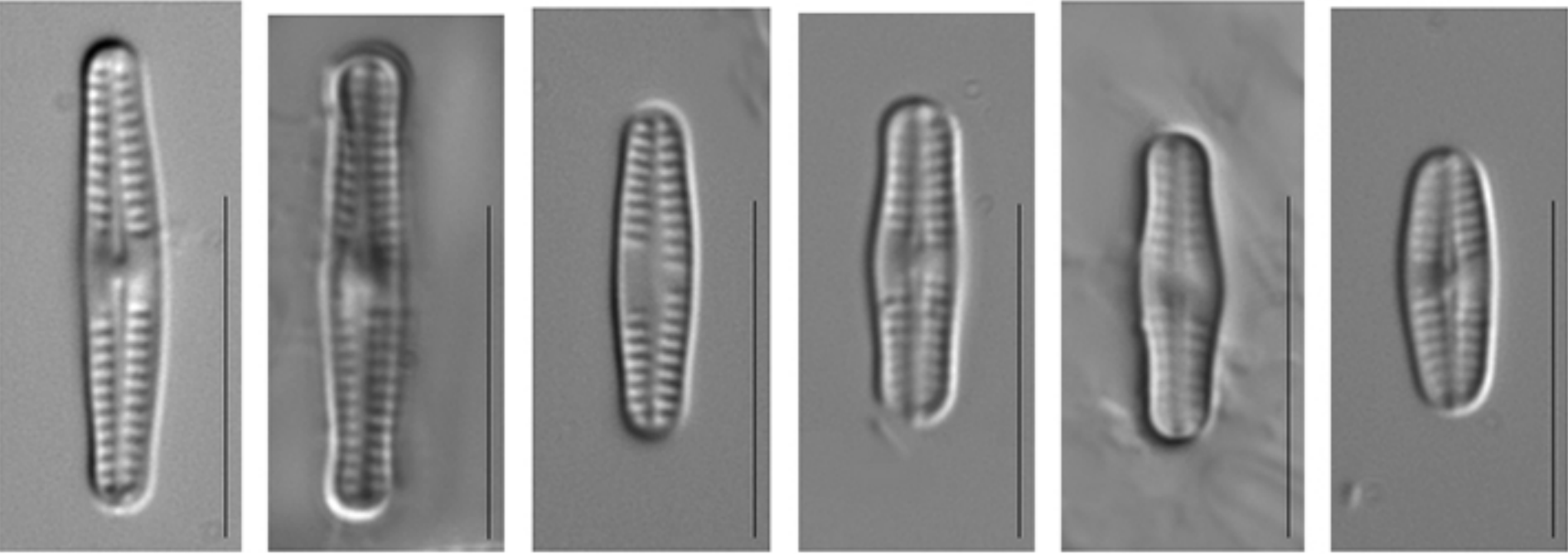


Category	Monoraphid	Genus Considered	Rossithidium
Length Range	6–21 µm		
Width Range	2.1–2.9 µm		
Striae in 10 µm	21–23		
Contributor	Marina Potapova - May 2009		
Reviewer	Sarah Spaulding - May 2010		

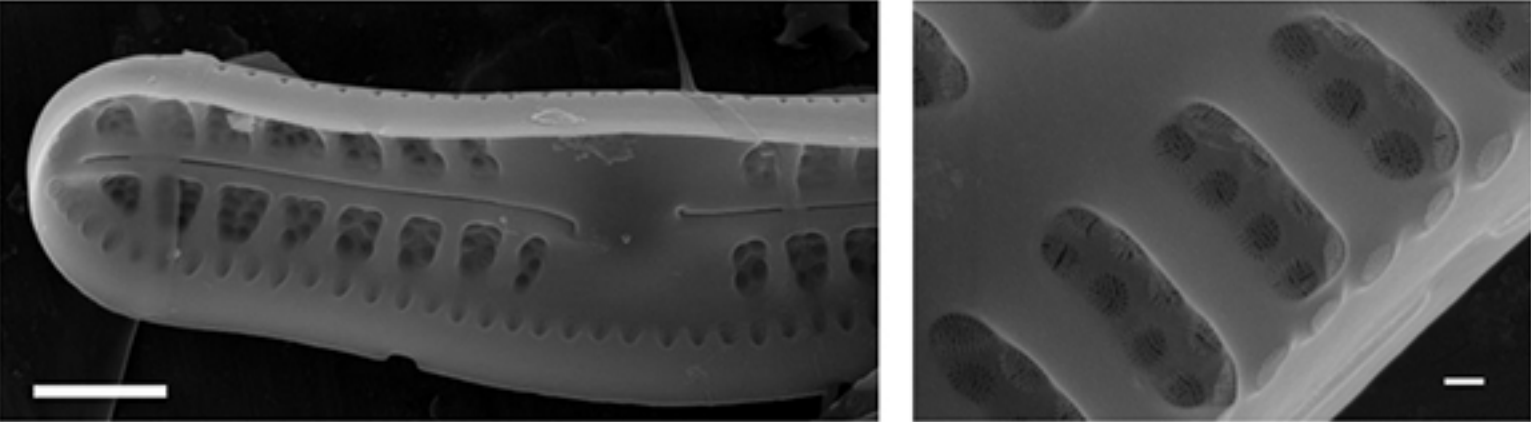
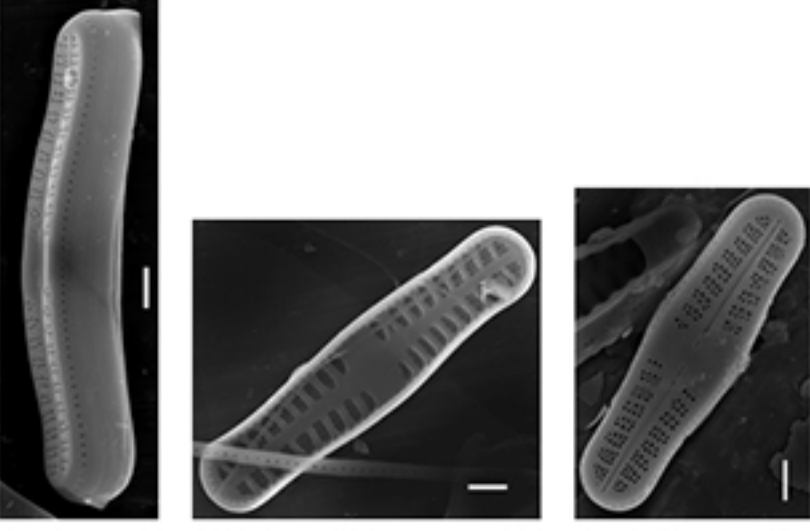
- Identification
- Autecology
- Original Description
- Citations & Links

Compare

Identification



View image metadata



Description

Cells have a solitary growth habit. One plastid is present in living cells. Frustules are monoraphid with a concave raphe valve and convex rapheless valve. Valves are linear or linear-elliptical with rounded, slightly drawn-out, or slightly capitate ends, 6–21 (usually 7–17) µm in length. The terminal and central external raphe ends are slightly expanded, no terminal fissures are present. Internally, the central raphe ends are deflected to opposite sides. The striae are parallel throughout both valves. The striae consist of two rows of areolae, with exceptions. At the valve margin the number of rows of areolae is often reduced to one. At the sternum and ends, the number of rows of areolae is often three. An asymmetrical hyaline area is present in the

central part of both valves. One row of elongated areolae is present on the valve mantle; the row is continuous on the rapheless valve and interrupted at the apices of the raphe valve. External openings of the areolae are circular, oval, or irregular in shape, more or less isodiametric, approximately 50–90 nm across and not occluded. Internal openings of the areolae are elliptical occluded by hymens. The hymens are perforated by small pores, which are approximately 5–10 nm wide and 5–20 nm long. Internally, the interstriae are raised, so that striae appear as shallow chambers. The girdle bands are unornamented and open.

Autecology

Size Range, µm ³	11–100
Motility	Slightly motile
Attachment	Unattached
Habitat	Benthic
Distribution	Western EMAP 2004
Learn more about this >	

Original Description

Schalen linear-lanzettlich mit breit gerundeten Enden und oft leicht aufgetriebener Mitte. Die kurzen Stücke elliptisch. 7–20 µm lang, 2–2,8 µm breit. Streifung auf beiden Schalen nur sehr wenig strahlend, in der Mitte meist unterbrochen, grob, etwa. 24 Streifen in 10 µm. Raphe sehr zart, gerade. Längsarea schmal, in der Mitte meist zu einer breiten Querbinde erweitert. - Verwandt mit *A. nodosa*, von der sie sich durch die geringe Breite und die viel feinere Streifung unterscheidet. - Vorkommen: In 16 Proben mit pH: 6,8–6,9. Vor allem in allen Proben aus Moosrasen und von Felswänden in Saanatunturi und Jehkatsunturi.

Basionym	Achnanthes kriegeri
Author	Krasske 1943
Length Range	7–20 µm
Width	2–2.8 µm
Striae in 10µm	24

Original Images



Achnanthes kriegeri nov. spec. — Fig. 3–7. — Schalen linear-lanzettlich mit breit gerundeten Enden und oft leicht aufgetriebener Mitte. Die kurzen Stücke elliptisch. 7–20 µm lang, 2–2,8 µm breit. Streifung auf beiden Schalen nur sehr wenig strahlend, in der Mitte meist unterbrochen, grob, etwa 24 Streifen in 10 µm. Raphe sehr zart, gerade. Längsarea schmal, in der Mitte meist zu einer breiten Querbinde erweitert. — Verwandt mit *A. nodosa*, von der sie sich durch die geringe Breite und die viel feinere Streifung unterscheidet. — Vorkommen: In 16 Proben mit pH: 6,8–6,9. Vor allem in allen Proben aus Moosrasen und von Felswänden in Saanatunturi und Jehkatsunturi.

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Citations & Links

Citations

- Antoniades, D., Hamilton, P.B., Douglas, M.S.V. and Smol, J.P. (2008) Diatoms of North America: The freshwater floras of Prince Petrcik, Ellef Ringnes and northern Ellesmere Islands from the Canadian Arctic Archipelago *Iconographia Botanologica* 17
- Krasske, G. (1943) Zur Diatomeenflora Lapplands *Bericht der Deutschen Botanischen Gessellschaft* 61(3): 81–88

Links

- Index Nominum Algarum
Transfer, Original
- CAS
Link
- North American Diatom Ecological Database
NADED ID: 1059

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