

Nitzschia sinuata

(Thwaites in W.Sm.) Grunow in Cleve and Grunow 1880



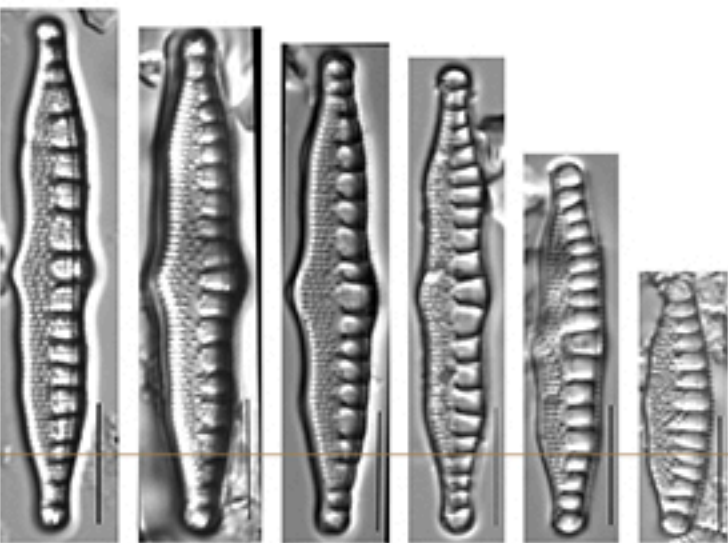
Category	Nitzschioid
Length Range	22.5–44.3 µm
Width Range	6.2–8.5 µm
Striae in 10 µm	18–21
Contributor	Loren Bahls - Jan 2014
Reviewer	Sarah Spaulding - Jan 2014

Reported As
Nitzschia sinuata (Krammer and Lange-Bertalot 1988, p. 52, fig. 40: 1–4)

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Identification



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Description

Valves are linear-lanceolate, with triundulate margins and capitate apices. Fibulae are very large, occupy about one-half the valve face, and number 3–7 in 10 µm. Striae are distinctly punctate and weakly

radiate. The raphe appears to be continuous through the central valve, as the central fibulae lack a distinctive gap. (Note that some authors express this feature by stating that the "central nodule is absent").

Autecology

Nitzschia sinuata var. *sinuata* is uncommon in the benthos of shallow calcareous lakes and ponds of the northern Rocky Mountains. Here it is found at pH values ranging from 8.50 to 9.05 and specific conductance levels ranging from 105 to 181 µS/cm.

Size Range, µm3	101–1000
Motility	Highly motile
Attachment	Unattached
Habitat	Benthic
Colony	Solitary
BCG	BCG 2
Distribution	California Northeast Lake Sediments
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Credit: Loren Bahls

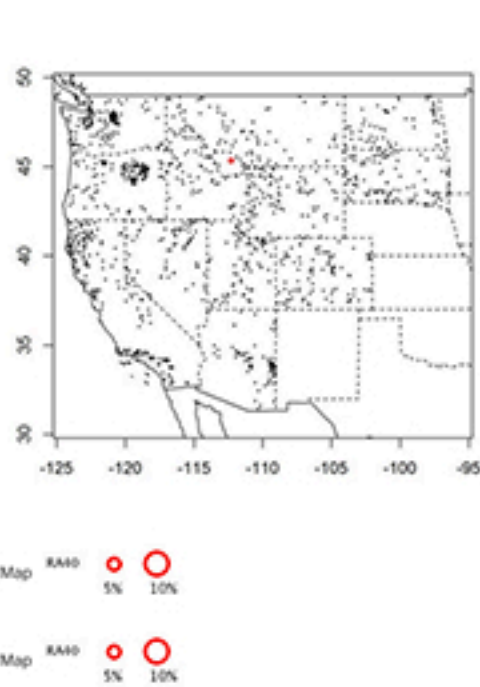
Lower Wolverine Pond, Ten Lakes Scenic Area, Kootenai National Forest, Lincoln County, Montana: home of *Nitzschia sinuata* var. *sinuata*.

Original Description

Basionym	Denticula sinuata
Author	Thwaites in W.Sm. 1856

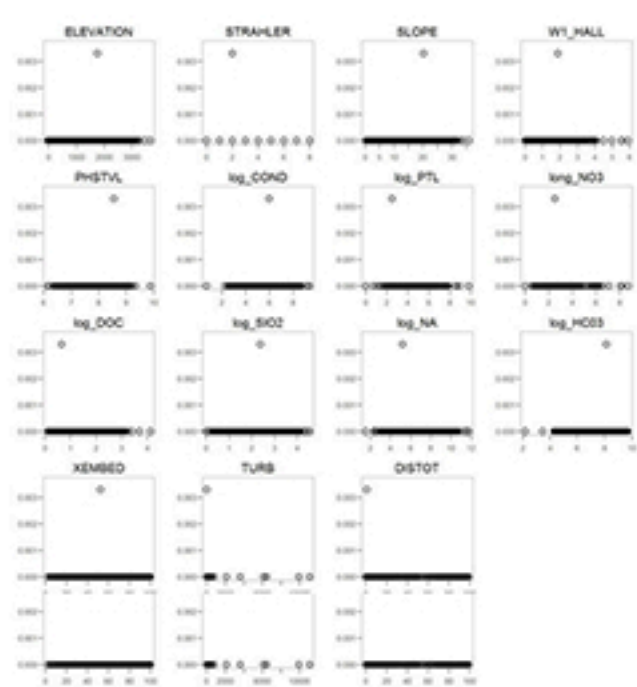
EMAP Assessment

EMAP Distribution



Response Plots

Response Plot Key >



Citations & Links

Citations

- Cleve, P.T. and Grunow, A. (1880) Beiträge zur Kenntniss der Arktischen Diatomeen. Kongliga Svenska-Vetenskaps Akademiens Handlingar, 17(2): 121 pp., 7 pls.
- Krammer, K. and Lange-Bertalot, H. (1988) Bacillariophyceae. 2. Teil: Bacillariaceae, Epithemiaceae, Surirellaceae. In: Ettl, H., J. Gerloff, H. Heynig and D. Mollenhauer (eds.) Süßwasserflora von Mitteleuropa, Band 2/2. Gustav Fischer Verlag, Jena.
- Rabenhorst, L.G. (1864) Flora Europaea Algae aquae dulcis et submarinae. Sectio I. Algae diatomaceae complectens, cum figuris generum omnium xylographice impressis. Eduardum Kummerum, Lipsiae 359 pp.
- Smith, W. (1856) Synopsis of British Diatomaceae. John Van Voorst, London 1856. 2: 107pp., pls. 32–60, 61–62, A–E.

Links

- Index Nominum Algae
Transfer
- CAS
Link
- North American Diatom Ecological Database
NADED ID: 48096

Cite This Page

Bahls, L. (2014). *Nitzschia sinuata*. In *Diatoms of North America*. Retrieved February 13, 2020, from https://diatoms.org/species/nitzschia_sinuata_var_sinuata