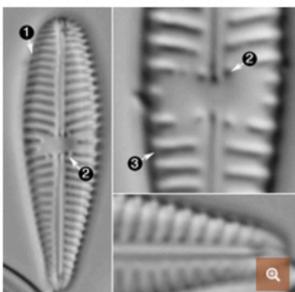


Gomphoneis pseudo-okunoi

Tuji 2005



Category Asymmetric Biraphid

Length Range 11-30 μm

Width Range 4-7 μm

Striae in 10 μm 13-15

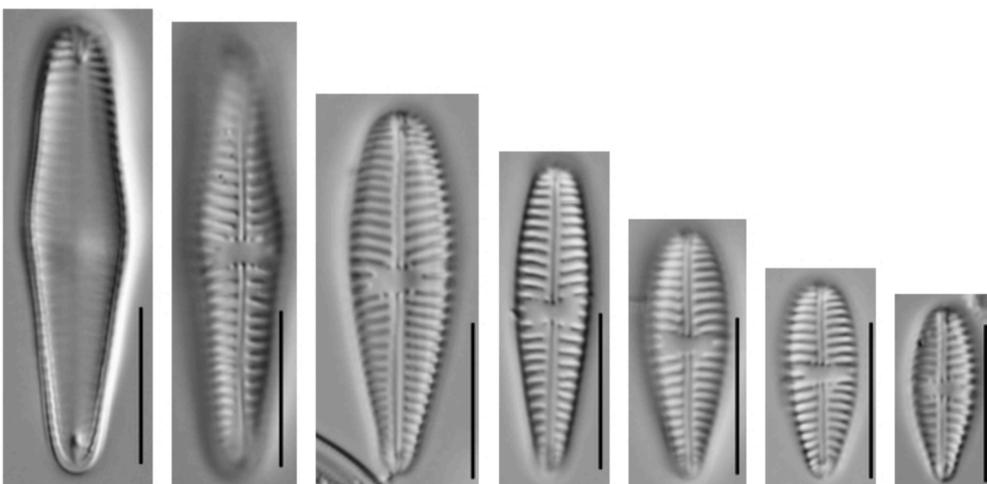
Contributor Pat Kociolek - Jan 2011

Reviewer Sam Rushforth - Jul 2011

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Identification



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Description

Valves are clavate, with a broadly rounded headpole and narrow footpole. The axial area is very narrow, straight, broadening at the center to form an irregularly rectangular central area. Four isolated stigmoids are present in the central area. The raphe is straight, filiform. Striae appear costate, without resolvable puncta. Apical pore fields

appear as condensed striae.

Distribution: Widely distributed in northern sections of North America, usually in circum-neutral to alkaline environments.

Autecology

Size Range, μm^3	101-1000
Motility	Moderately motile
Attachment	Vertical
Habitat	Benthic
BCG	BCG 2
Distribution	California coastal rivers 2017

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Original Description

Author Tuji 2005

Original Images

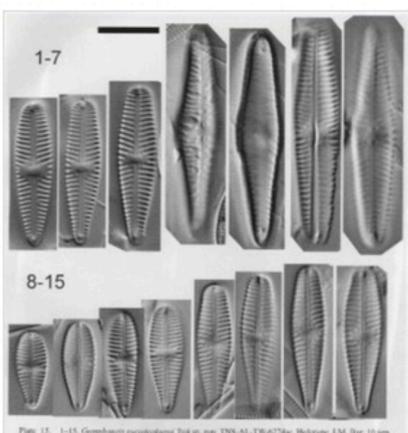


Plate 15. 1-15. *Gomphoneis pseudo-okunoi* Tuji sp. nov. TNS-AL-TW-6274a. Holotype LM. Bar: 10 μm .

Gomphoneis pseudo-okunoi Tuji sp. nov.

(Plate 15: 1-15, Plate 16: 1-5, Plate 17: 1-5)

Holotype: A slide numbered TNS-AL-TW-6274 sc in TNS. (Plate 15: fig. 15).

Type material (Isotype): TNS-AL-TW-6274m in TNS collected from northern part of Minae, L. Shikotsu by T. Watanabe on 24th June, 1990.

Isotype: BM101270 in BM, CAS221094 in CAS.

Distribution: Japanese freshwater lake.

Descriptio: *Valvae clavatae, polo capitali quam pedali latius rotundatoobtusio, 12-37 μm longae, 5-7 μm latae. Differt a *Gomphoneis okunoi* proprie magnitudine semper minore. Puncta visa difficulter* (Plate 15: 1-15).

Description: Valve clavate, head pole more broadly rounded-obtuse than the foot pole, length 12-37 μm , breadth 5-7 μm . Resembles *Gomphoneis okunoi* but differs from it by smaller valves. Puncta difficult to dissolve (Plate 15: 1-15).

This taxon is also similar to *G. olivaceoides* but has a wider head pole and finer striae in the central area (Plate 15: 1-15). This taxon was found only in the type locality and is rare in Japan.

Citations & Links

Citations

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Simonsen, R. (1987) Atlas and Catalogue of the Diatom Types of Friedrich Hustedt. *J. Cramer, Berlin & Stuttgart* 1: 525 pp.

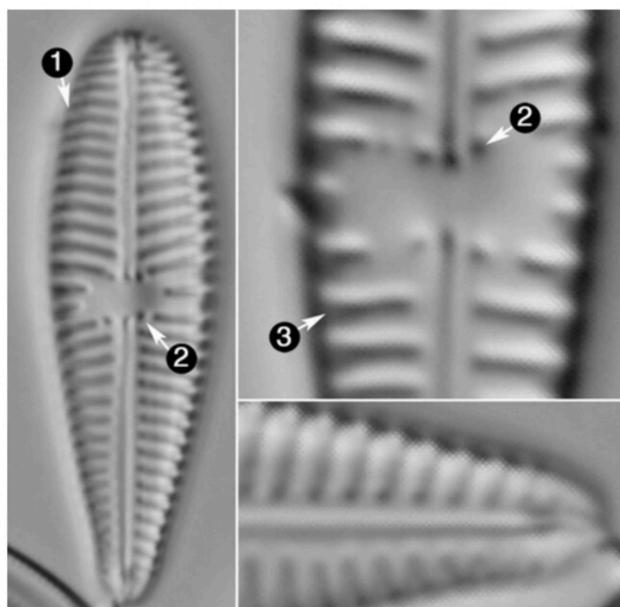
Tuji, A. (2005) Taxonomy of the *Gomphoneis tetrastigmata* species complex *Bull. Natn. Sci. Mus., Tokyo, Ser. B*, 31(3): 89-108

Links

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Guide to *Gomphoneis pseudo-okunoi*

Tuji 2005



Credit: Pat Kociolek

- 1 Valves clavate
- 2 Isolated stigmoids, four in the central area
- 3 Striae without resolvable areolae

Valves are clavate. The axial area is narrow, straight and has a filiform raphe. The central area is rectangular with four isolated stigmoids. Areolae are typically not resolved in LM.