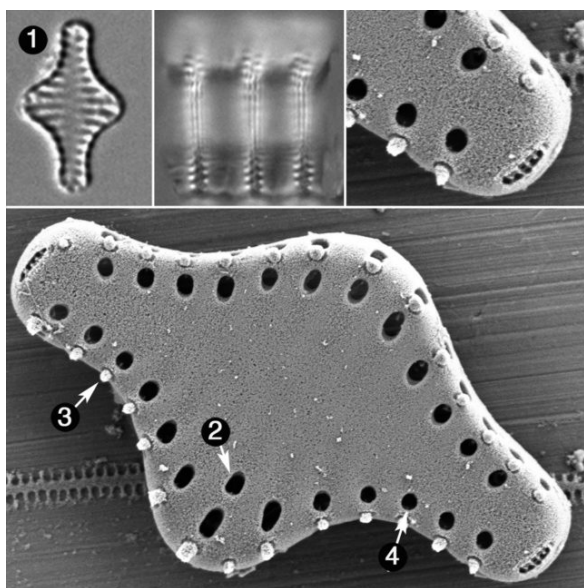




Pseudostaurosira (https://diatoms.org/genera/pseudostaurosira) pseudoconstruens

(Marciniak) D.M.Williams and Round 1987



Category

[Araphid \(https://diatoms.org/morphology/araphid\)](https://diatoms.org/morphology/araphid)

Length Range 8-15.5 μm

Width Range 3.5-7 μm

Striae in 10 μm 8.5 near the center increasing to 18 at the apices

Contributor

[Thomas C. Smith](#)

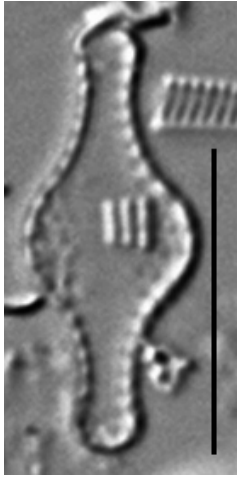
<https://diatoms.org/contributor/ThomasCSmith> - Jun 2013

Reviewer

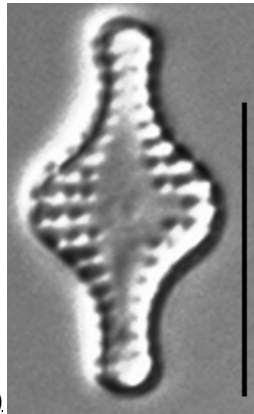
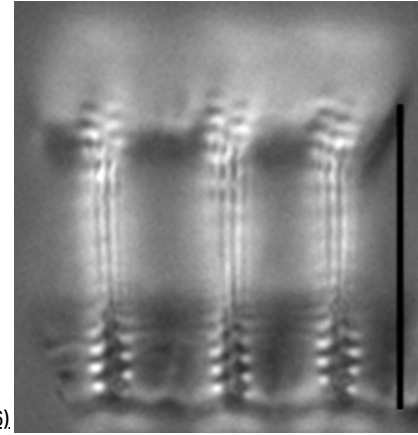
[Eduardo A. Morales](#)

<https://diatoms.org/contributor/EduardoAMorales> - Aug 2013

Identification



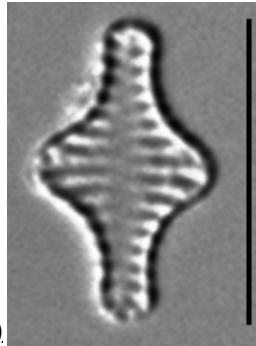
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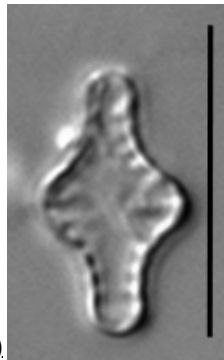
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(https://diatoms.org/species/pseudostaurosira_pseudoconstruens/images#image-12225).



(https://diatoms.org/species/pseudostaurosira_pseudoconstruens/images#image-12224).

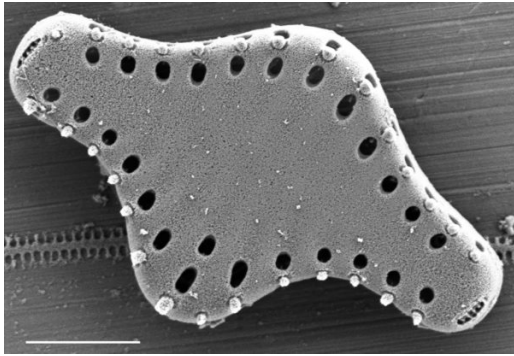


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(https://diatoms.org/species/pseudostaurosira_pseudoconstruens/images#image-12229).

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Type



https://diatoms.org/species/pseudostaurosira_pseudoconstruens/images#image-18578

Description

Valves are cruciform, with a round to rhombic inflation and broadly rounded rostrate to slightly capitate apices. In girdle view, valves are rectangular and the central inflation is distinct. The axial area may be wide in the valve center, to relatively narrow. Striae are mostly restricted to the margins and never meet in the central area. The central striae are longer than distal striae. The central striae are

parallel to slightly radiate and often appear wider at the margin than proximally. The distal striae are short and parallel. Striae are uniseriate, with round to elliptical areolae.

This species was described from Holocene lake sediments in Poland (Marciniak, 1982).

Autecology

Size Range, μm^3	11-100 (https://diatoms.org/species/size-range/11-100).
Motility	Non-motile (https://diatoms.org/species/motility/non-motile).
Attachment	Unattached (https://diatoms.org/species/attachment/unattached) Prostrate (https://diatoms.org/species/attachment/prostrate).
Habitat	Benthic (https://diatoms.org/species/habitat/benthic).
Colony	Colonies occasional (https://diatoms.org/species/colony/occasional).

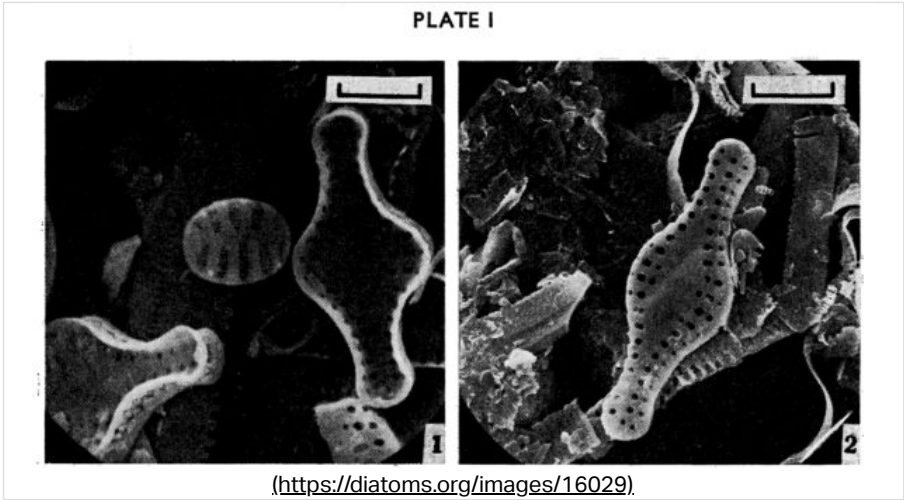
BCG	BCG 3 (https://diatoms.org/species/bcg/bcg-3)
Distribution	Western EMAP (https://diatoms.org/species/distribution/western-emap) Northeast Lake Sediments (https://diatoms.org/species/distribution/northeast-lake-sediments)

[Learn more about this >.\(/practitioners/how-and-where-do-diatoms-live-autecology-tags\)](https://diatoms.org/practitioners/how-and-where-do-diatoms-live-autecology-tags)

Original Description

Basionym	<i>Fragilaria pseudoconstruens</i>
Author	Marciniak 1982

Original Images



***Fragilaria pseudoconstruens* nov. sp.**

(Pl. I., Figs 1, 2)

Frustula facie laterali visa — rectangula. Valvae in medio transverse expansae, ad apices convergentes, polis capitulatis aut obtuse rotundatis, 4—22 μm longae, 3—7 μm latae. Striae transversae, breves, 15—18 in 10 μm , paulo radiatae, in valvae limbo dispositae, crasse punctatae, circa 2 puncta per 1 μm . Striae transversae uno tantum punctorum ordine passim inveniuntur, quo facto

11*

Acta Geologica Academiae Scientiarum Hungaricae 25, 1982

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MARCINIAK, B.

species illa ad *Fragilariam brevistriatam* Grunow accedit. Area oblonga, lanceolata, media parte expansa. Valvae forma et dimensione variabiles. In minoribus speciminibus curvaturae undulatae irregulariter dispositae inveniuntur. Quae formae teratologicae videntur (Pl. II., Fig. 4).

Frustules rectangular in girdle view. The valves are transversally widened in the centre and more narrow towards the ends with obtusely or capitately rounded apices, 4—22 μm long, 3—7 μm wide. Transversal striae are short, 15—18 in 10 μm , set slightly radiantly at a valve edge, densely punctated — about two puncta in 1 μm , locally the transversal striae compose of only a single punctum row, for the latter the described species is similar to *Fragilaria brevistriata* Grunow. Longitudinal area is lanceolately widened. Valve shapes are very changeable, smaller specimens posses asymmetric, wavy concavities so, they are probably the teratological specimens (Pl. II., Fig. 4).

Type locality: lakes sediments of the Przedni Staw, Tatra Mts., Poland.

Type slide: no. 3024 in coll. of Institute of Geological Sciences, Polish Academy of Sciences, Warsaw (B. Marciniak).

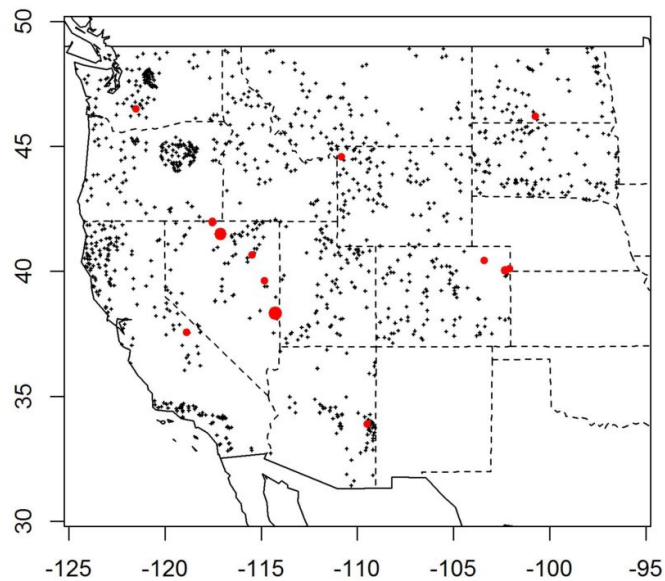
(<https://diatoms.org/images/14878>).

EMAP Assessment

EMAP Distribution

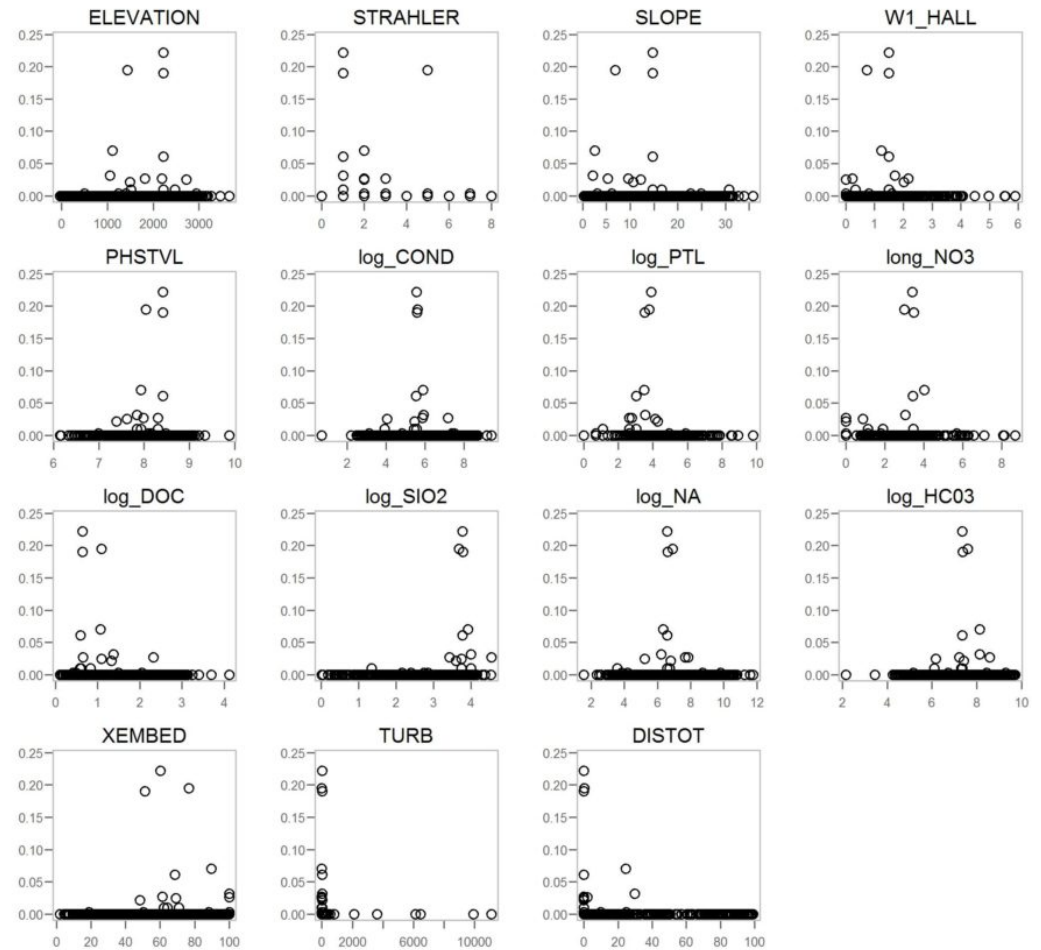
Response Plots

Response Plot Key ▶



(<https://diatoms.org/images/5544>)

Map RA3
50% 97%



(<https://diatoms.org/images/17824>)

Citations & Links

Citations

Marciniak, B. (1982) Late Glacial and Holocene new diatoms from a glacial Lake Przedni Staw in the Przedni Stawów Polskich Valley, Polish Tatra Mts *Acta Geol. Acad. Sci.*

Links

CAS

Link (<http://research.calacademy.org/redirect?url=http://researcharchive.calacademy.org/research/diatoms/names/index.asp&xAction=getrec&cl>)

Hung. 25: 161-171 (https://diatoms.org/citations/marciniak_b-1982-late_glacial_and_holocene_new_diatoms_from_a_glacial_lake)

Marciniak, B. (1988) Late glacial *Fragilaria* flora from lake sediments of the Tatra Mts. and the Alps *Proceedings of the Ninth International Diatom Symposium, (F.E. Round, ed) Biopress, Bristol* (https://diatoms.org/citations/marciniak_b-1988-late_glacial_fragilaria_flora_from_lake_sediments_of_the_t).

Williams, D.M. and Round, F.E. (1987) Revision of the genus *Synedra* Ehrenb. *Diatom Research 1(2): 313-339.* (https://diatoms.org/citations/williams_dm_and_round_fe-1987-revision_of_the_genus_synedra_ehrenb).

Cite This Page

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