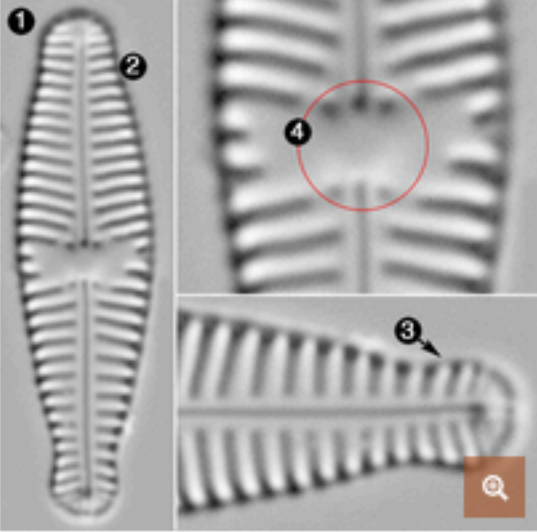


Gomphonema olivaceoides var. hutchinsoniana

Patrick 1971



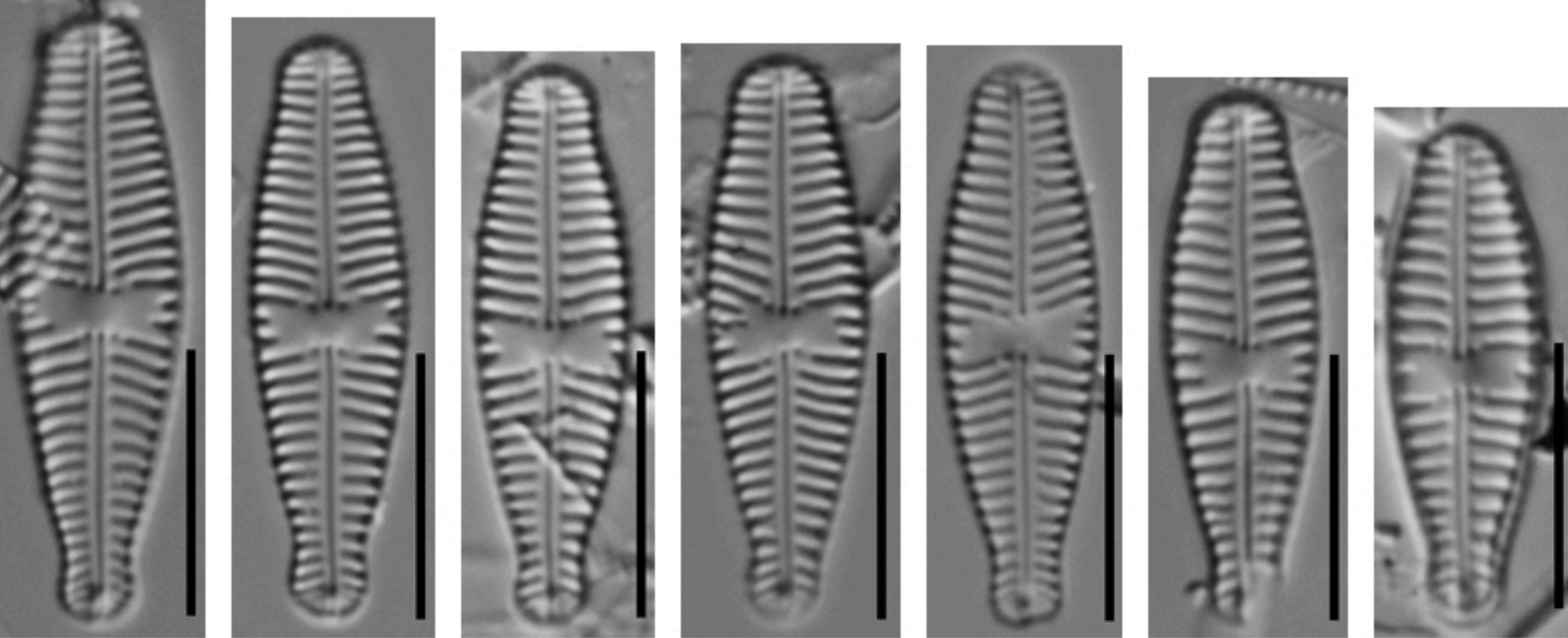
Category	Asymmetric Biraphid
Length Range	18.4-23.4 µm
Width Range	5.5-6.1 µm
Striae in 10 µm	11.7-14.3
Contributor	Gina LaLiberte - Apr 2017
Reviewer	Sarah Spaulding - Aug 2018

Genus Considered
Gomphonels

- Identification
- Autecology
- Original Description
- Citations & Links

Compare

Identification



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Description

Valves are clavate with broadly subrostrate to subcapitate headpoles and capitate footpoles. The axial area is linear and narrow. The central area is a transverse rectangle, formed by 1 to 3 shortened striae on each side of the valve. The 4 longest striae bordering the central area have an isolated stigmoid on the ends closest to the proximal raphe

ends. The raphe is filiform, with the proximal ends slightly inflated and deflected to the secondary side of the valve. The striae are radiate, transitioning to parallel at the head pole and strongly radiate at the foot pole.

Autecology

This variety was originally described from Pennsylvania (Patrick 1971). Since then, it has been found in Maine (images on this page) and has been reported in southeast rivers (Bishop et al. 2017).

Size Range, µm3	101-1000
Motility	Slightly motile
Attachment	Vertical
Habitat	Benthic
Colony	Colonies common
Occurrence	Rare
Waterbody	RiversLakes
Distribution	Southeast rivers 2014
Learn more about this	



Credit: Gina LaLiberte

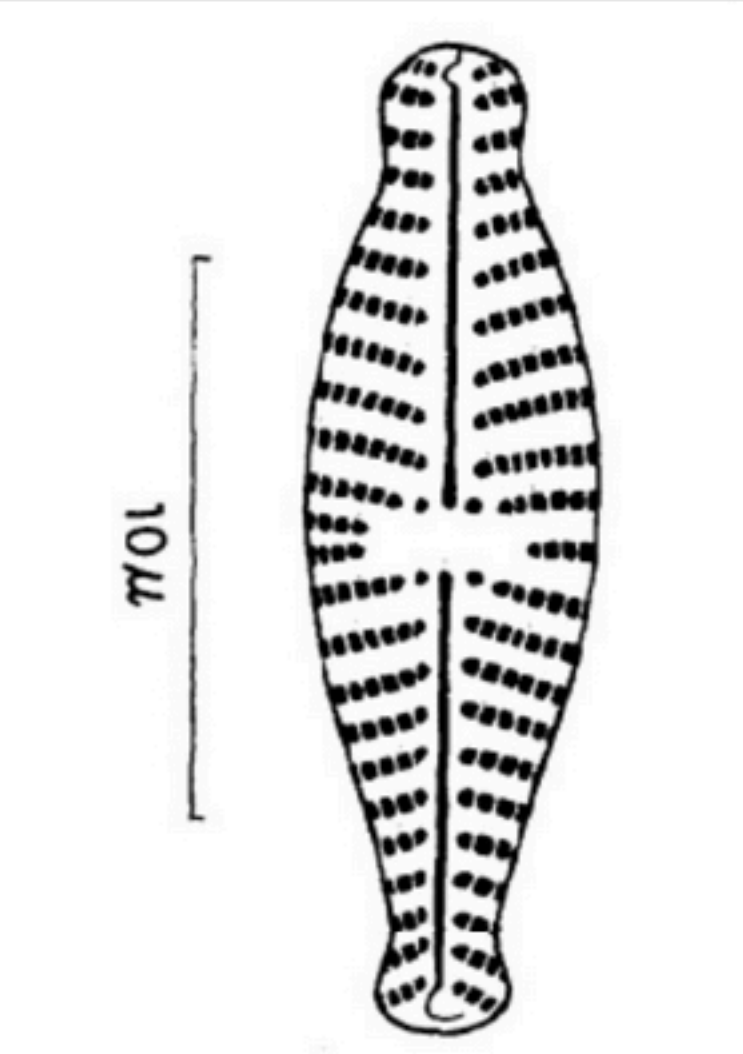
Size diminution in one population from Maine (ANSP GC 112789).

Original Description

Valve lanceolate with narrowed rostrate to distinctly capitate apex and capitate base. Axial area linear, narrow, at the central area the margins of the axial area are marked by 4 puncta. Central area transverse with 1 or 2 shortened striae on each margin of the valve. Raphe linear, not extending or only slightly extending into the central area. Striae radiate throughout the valve, indistinctly punctate. Striae, 13-14 in 10 µ. Length, 15-18 µ. Breadth, 5-6 µ.

Author	Patrick 1971
Length Range	15-18 µm
Width	5-6 µm
Striae in 10µm	13-14

Original Images



Gomphonema olivaceoides var. *hutchinsoniana* var. nov.

Valva lanceolata, apice anguste rostrata vel distincte capitata, basi capitata. Area axialis angusta, punctis quattuor arcae centralis ad margines praesentibus. Area centralis transversa, striis singulis vel duobus brevibus ad quemque marginem valvae. Raphe linearis, in aream centalem non aut leviter extendens. Striae per totam valvam radiatae, indistincte punctatae. Striis, 13-14 in 10 µ. Longitudo, 15-18 µ. Latitudo, 5-6 µ.

Valve lanceolate with narrowed rostrate to distinctly capitate apex and capitate base. Axial area linear, narrow, at the central area the margins of the axial area are marked by 4 puncta. Central area transverse with 1 or 2 shortened striae on each margin of the valve. Raphe linear, not extending or only slightly extending into the central area. Striae radiate throughout the valve, indistinctly punctate. Striae, 13-14 in 10 µ. Length, 15-18 µ. Breadth, 5-6 µ.

This taxon differs from all other varieties of this species by the narrow rostrate to capitate apex. The invalidly published *G. olivaceoides* var. *cochleariformis* Mangin has also a capitate basis, but this character is not found in the other varieties. The present taxon seems to be most closely related to that invalidly published taxon.

This variety is named in honor of professor G. Evelyn Hutchinson, whose helpful comments and criticisms have aided in the production of many of my scientific contributions.

Citations & Links

Citations

- Bishop, I.W., Esposito, R.M., Tyree, M. and Spaulding, S.A. (2017) A diatom voucher flora from selected southeast rivers (USA). *Phytotaxa* 332 (2): 101-140.

Publication Link: [10.11646/phytotaxa.332.2.1](https://doi.org/10.11646/phytotaxa.332.2.1)

Patrick, R. (1971) The effects of increasing light and temperature on the structure of diatom communities *Limnology and Oceanography* 16 (2):405-421

Publication Link: [10.4319/lo.1971.16.2.0405](https://doi.org/10.4319/lo.1971.16.2.0405)

Links

North American Diatom Ecological Database
NADED ID: 37075

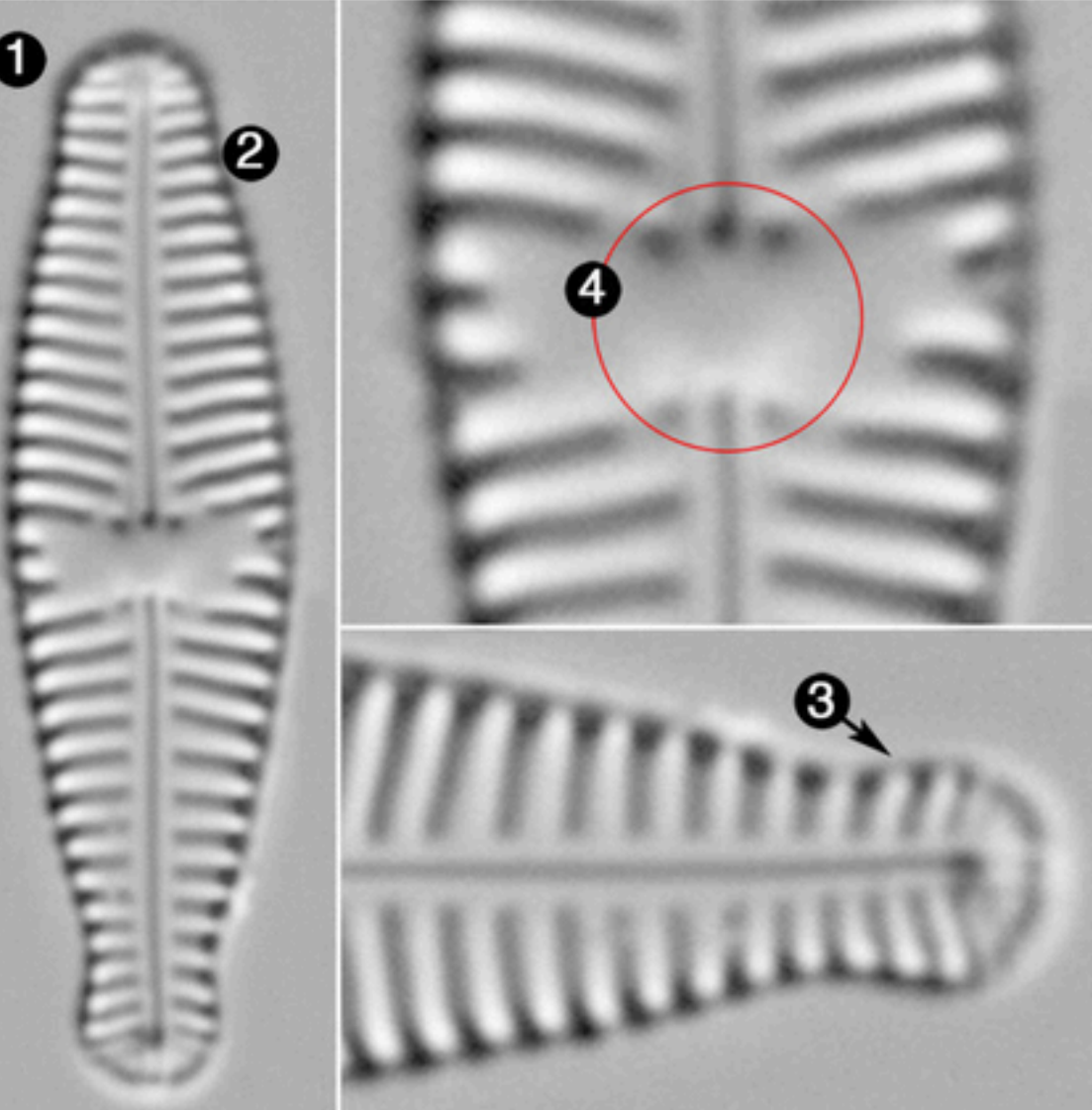
Cite This Page

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RETURN TO OVERVIEW

Guide to Gomphonema olivaceoides var. hutchinsoniana

Patrick 1971



- 1 Valve clavate
- 2 Headpole subrostrate to subcapitate
- 3 Footpole capitate
- 4 Four isolated stigmoids bordering central area