

Diatom Flora of the Low Countries

***Achnantheidium hoffmannii* Van de Vijver, Ector, A. Mertens & Jarlman 2011**

Basionym: *Achnanthes hoffmannii* Van de Vijver, Ector, A. Mertens & Jarlman 2011

Morphology

Valves lanceolate to linear-lanceolate with linear to slightly convex margins. Apices broadly rounded, non-protracted. Raphe valve (RV): striae (weakly) radiate throughout, denser near the apices. Axial area very narrow to almost non-existing, linear widening towards central area. Central area irregular, rectangular to almost rounded, sometimes a fascia. Rapheless valve (RL): Striae radiate throughout, denser near the apices. Clearly thickened areolae at margin! Axial area very narrow, linear, not widening towards central area. Central area absent.

Morphometrics

Source	Length (µm)	Width (µm)	Striae RV (in 10 µm)	Striae RL (in 10 µm)
Van de Vijver et al. 2011 (type)	11-15	2.5-3.0	32-35 (apices 35-40)	32-34

Related species

A. minutissimum (valve outline, protracted apices, no irregular areolae at the margins) *A. eutrophilum* (rhombic valves, lower stria density, no irregular areolae at the margins). *A. lineare* (less sturdy, more linear appearance, lower stria density, no irregular areolae at the margins).

Distribution

Widespread in Sweden, but due to confusion exact distribution is unknown. Type location is a small river Kringlan (Sweden). Van Esschenven sample from J. Heimans 1922 (The Netherlands), in this time this moorland pool was connected with a small stream.

Ecology

The type population was found in almost circumneutral waters with low specific conductivity and low levels of nutrients.

Ecological values

Indicator values (Van Dam et al. 1994)

R	H	N	O	S	T	M
3	1	1	1	1	2	

IPS
(Cemagref 1982)

IPS-S	IPS-V
5	1

Rott et al. 1997, 1999

Rott SI s	Rott SI v	Rott TI s	Rott TI v
1.7	1	1.2	1

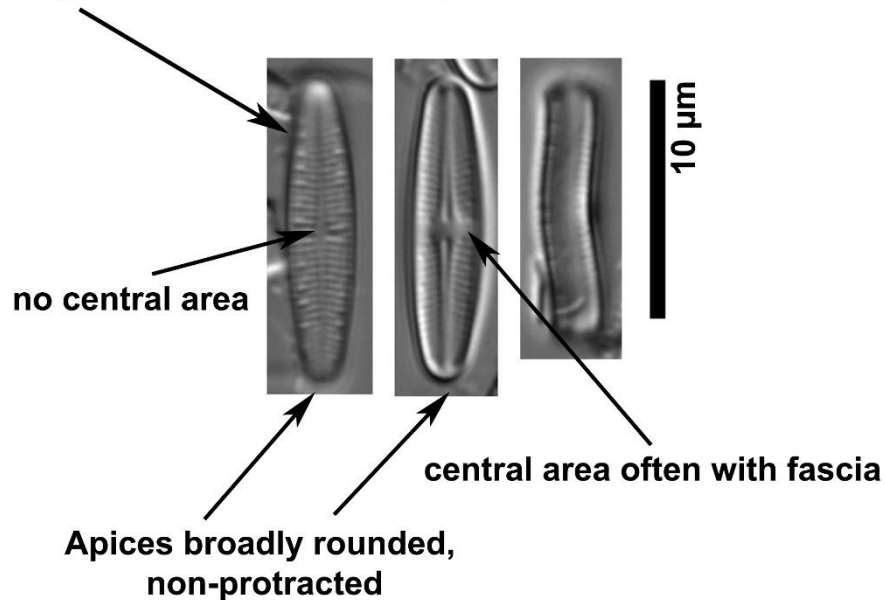
TDI
(Kelly & Whitton 1995)

TI-S	TI-V
3	2

Remarks

Type material
Kringlan, central Sweden

Irregular areolae at the margins



References:

Van de Vijver, B., A. Jarlman, H. Lange-Bertalot, A. Mertens, M. de Haan & L. Ector (2011) Four new European *Achnantheidium* species (Bacillariophyceae).

Citation:

Van de Vijver, B. & A. Mertens (2019) *Achnantheidium hoffmannii*. In Diatom Flora of the Low Countries. NVKD. Retrieved from <http://www.nvkd-diatom.nl/species>