

Diatom Flora of the Low Countries

Reimeria sinuata (W. Gregory) J.P. Kociolek et E.F. Stoermer 1987.

Basionym: *Cymbella sinuata* W.Gregory 1856

Synonym: *Cymbella sinuata* W.Gregory 1856

Morphology

Valves slightly dorsiventral, narrowly lanceolate with convex ventral and dorsal margins; ventral margin usually slightly inflated in the mid-valve. Valve ends broadly rounded to subcapitate. Axial area narrow, linear. Central area on ventral side wide, swollen, extending to the ventral margin, on the dorsal side smaller, made by the shortening of one central stria. One isolated stigma present on the dorsal side of the central area, sometimes in the valve center. Raphe branches linear, filiform to slightly lateral. Proximal raphe endings indistinct and slightly ventrally bent, while distal raphe endings ventrally curved. Striae biseriate, subparallel or slightly radiate throughout. Areolae not discernable.

Morphometrics

| Source | Length (µm) | Width (µm) | Striae (in 10 µm) | Areolae (in 10 µm) |
|----------------------------|-------------|------------|-------------------|--------------------|
| Own data (n=8) | 9.5-16 | 3.9-5.0 | 11-14 | |
| Levkov & Ector 2010 | 12-22 | 3.5-5.0 | 11-13 | |
| Lange-Bertalot et al. 2017 | 9-40 | 3.5-9.0 | 8-14 | 45-50 |

Related species

Reimeria uniseriata Sala, Guerrero & Ferrario (larger and broader, areolae discernable, striae uniseriate); *Gomphonema tergestinum* (Grunow) M. Schmidt (heteropolar and clavate, striae uniseriate radiate, denser 10-16 in 10 µm).

Distribution

Eijsden Boven Maas, Gingbohn bron, Planckerbeek bronloop, Hofweidebeek zijtak, Gouderak Noord, Sliedrechtse Biesbosch, Polderwatergang Weizichtpark, Gemaal Nieuwe Ondernemingspolder, Amerongen (NL); Zenne, Munsterbeek, Itterbeek, Demer, Mark, Kleine Wilboerebeek, Berwijn (B).

Ecology

Widely distributed in freshwater habitats with moderate nutrient concentrations and oligosaprobic to β-mesosaprobic conditions.

Ecological values

Indicator values (Van Dam et al. 1994)

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

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IPS
(Cemagref 1982)

| IPS-S | IPS-V |
|-------|-------|
| 4.8 | 1 |

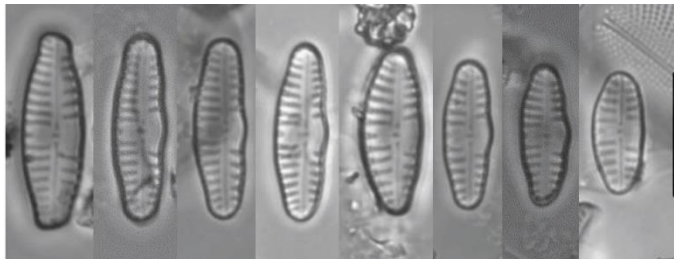
Rott et al. 1997, 1999

| Rott SI s | Rott SI v | Rott TI s | Rott TI v |
|-----------|-----------|-----------|-----------|
| 2 | 2 | 2.1 | 1 |

TDI
(Kelly & Whitton 1995)

| TI-S | TI-V |
|------|------|
| 4 | 3 |

Remarks



The Netherlands

References:

Lange-Bertalot, H., G. Hofmann, M. Werum & M. Cantonati (2017) Freshwater Benthic Diatoms of Central Europe.

Levkov, Z. et L. Ector (2010) A comparative study of *Reimeria* species (Bacillariophyceae).

Citation:

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