

Desmodesmus opoliensis* var. *carinatus

(Lemmermann) E. Hegewald, 2000

Most likely ID: n.a.

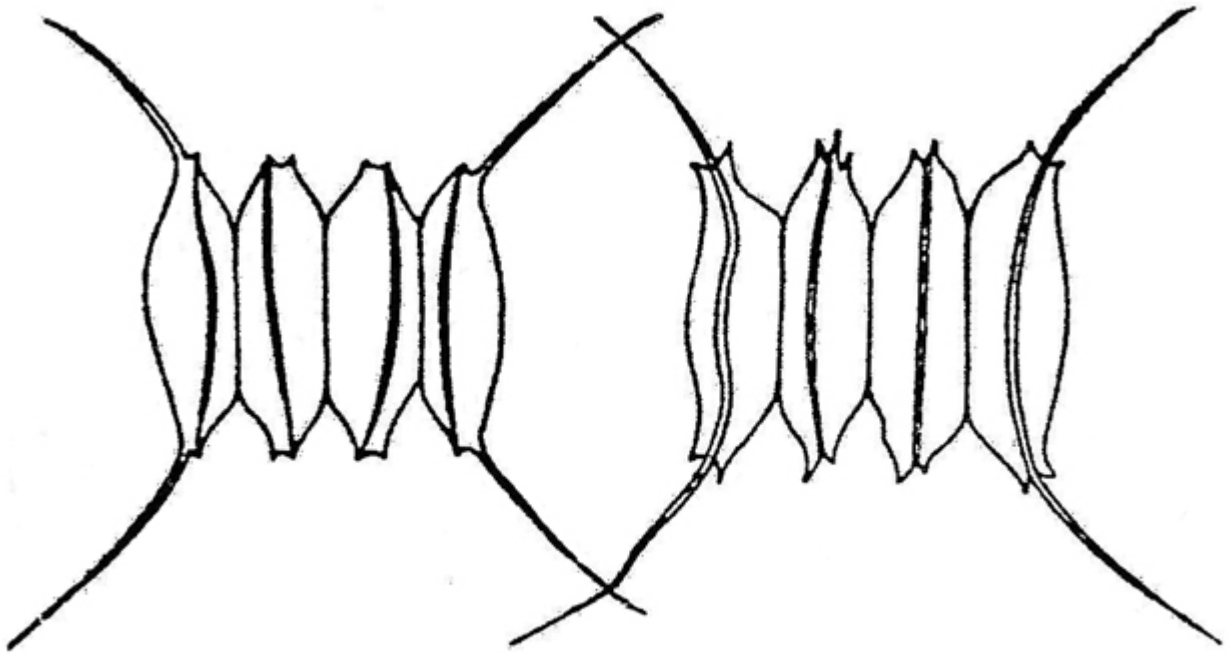
Synonym: *Scendesmus opoliensis* var. *carinatus*

Sampling location: [Pond of the waste disposal company Constance](#)

Phylogenetic tree: [Desmodesmus opoliensis](#) var. *carinatus*

Diagnosis:

- linear coenobia of 2–4 cells (rarely 8)
all cells arranged parallel
- cells 8–21 long, width 2.5–8 µm
- cells slender ellipsoid with slightly tapered ends
- apices of inner cells with several small spines
- apices of outer cells with long spines
- lateral surfaces of cells with distinct ribs, often doubled
- one pyrenoid per cell



after Halasz

Desmodesmus opoliensis var. *carinatus*

I find *Desmodesmus opoliensis* var. *carinatus* more frequently in the plankton of the [pond of the waste disposal company Constance](#). This pond is heavily eutrophied and stocked with fish. So far I have found the species only in this pond.

The cells of *Desmodesmus opoliensis* var. *carinatus* are aligned parallel to each other and not as in the nominate form [Desmodesmus opoliensis](#), in which the two middle cells are always arranged obliquely. Another important characteristic is the clearly visible ribs that run over the sides of the cells. They can be single, but also double, as in the specimen shown below (s. fig. 1 a-b). All other characteristics agree with the description by Komarek & Fott (1983).

Desmodesmus opoliensis var. *carinatus*
Obj. 100 X



a



b

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Fig. 1 a-b: *Desmodesmus opoliensis* var. *carinatus*. L = 23 µm (of coenobium). Two focal planes of a specimen found in September 2025 in the plankton of the [pond of the waste disposal company Constance](#). On the lateral surfaces of cells double ribs are visible (b). Obj. 100 X.