

## ***Desmodesmus abundans***

**(Kircher) Hegewald 2000**

**Most likely ID:** n.a.

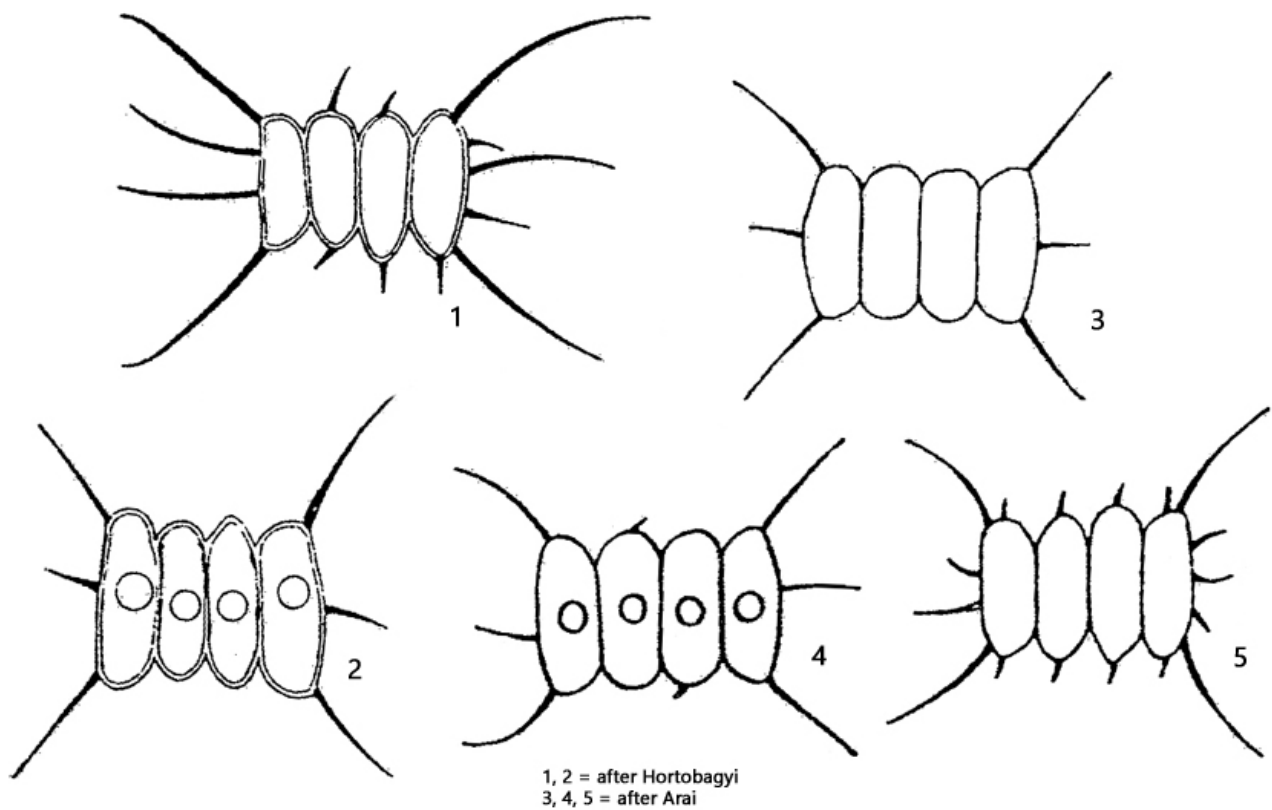
**Synonyms:** *Scenedesmus sempervirens*, *Scenedesmus caudatus* f. *abundans*, *Scenedesmus quadricauda* f. *abundans*, *Scenedesmus caudatus* var. *abundans*, *Scenedesmus quadricauda* var. *abundans*, *Scenedesmus abundans*, *Scenedesmus caudatus* var. *minor*, *Scenedesmus nanus*, *Scenedesmus quadrispina*, *Scenedesmus spinosum* f. *solutus*, *Scenedesmus opoliensis* var. *abundans*, *Scenedesmus quadricauda* var. *quadrispina*, *Scenedesmus quadricauda* var. *parvus*, *Scenedesmus rostratospinosus*, *Scenedesmus parvus*, *Chlorella fusca*, *Scenedesmus bellospinosus*, *Scenedesmus fuscus*, *Desmodesmus opoliensis* var. *abundans*

**Sampling location:** [Muehlhalden pond](#), [Simmelried](#)

**Phylogenetic tree:** [Desmodesmus adundans](#)

### **Diagnosis:**

- linear coenobia of 2-4-(8) cells, arranged tightly in parallel  
cells 5.5-15 µm long, width 1.7-4.5-(7) µm
- cells ellipsoid or cylindrically shaped with rounded ends
- inner and outer cells about equal in length
- outer cells slightly convex or straight
- poles of the outer cells with 4 long spines
- 1-3 short spines in the middle of the outer cells
- poles of the inner cells without or with 1-4 short spines
- one pyrenoid per cell
- planktonic lifestyle



*Desmodesmus abundans*

*Desmodesmus abundans* is described as a very common species in the plankton of eutrophic waters. However, I have only found a few specimens in 1994. After that I have no further records of this species from any of my sampling sites.

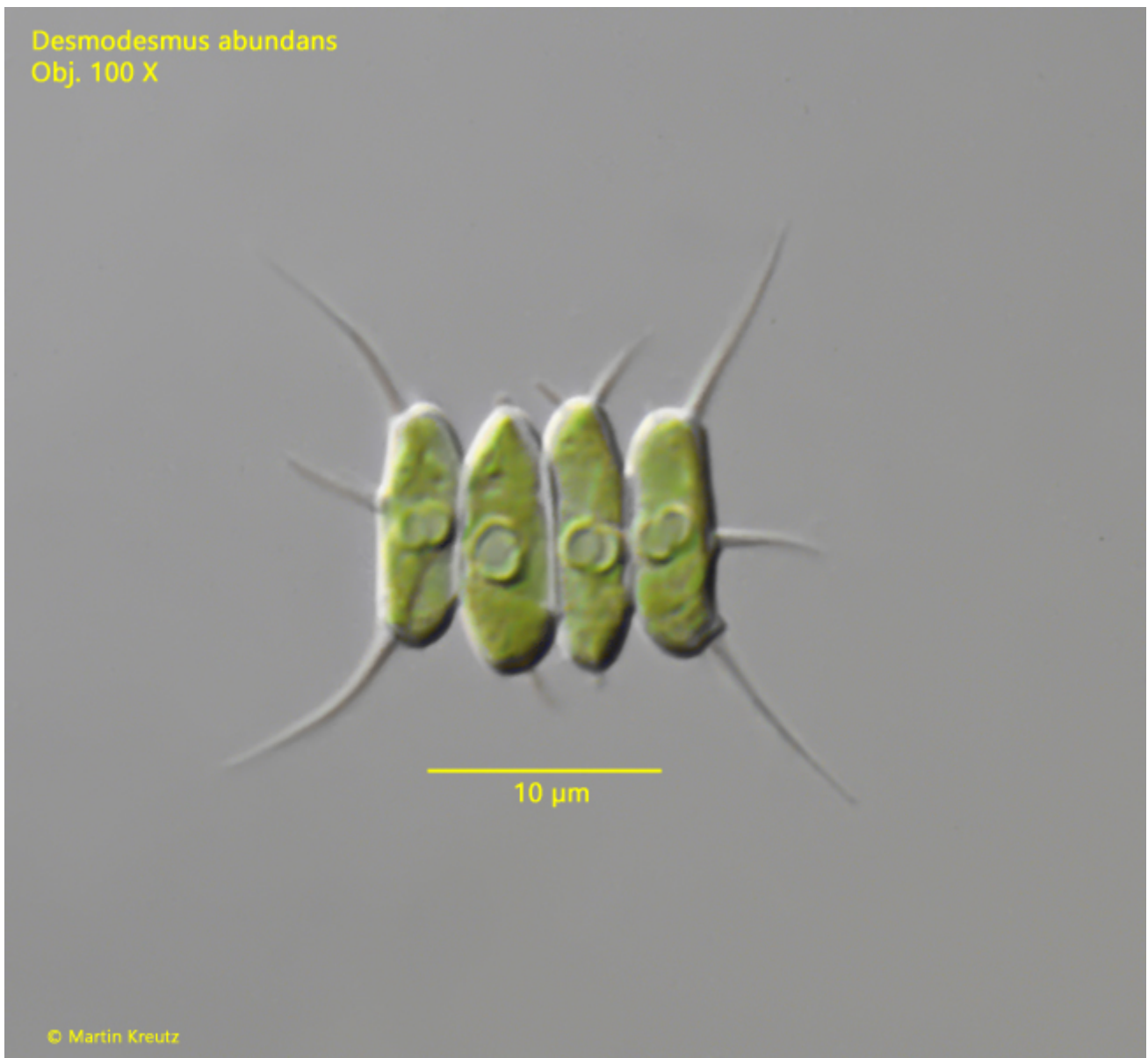
*Desmodesmus abundans* is quite characteristic due to the spines in the middle of the outer cells. The number and length of the spines on the poles and outer sides of the cells can vary, as a result of which many species have been generated in the past (s. "Synonyms", above). These were summarized in 2000 by Hegewald under *Desmodesmus abundans*.

Desmodesmus abundans  
Obj. 100 X



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**Fig. 1:** *Desmodesmus adundans*. L = 14.7 μm (of coenobium). A specimen found in September 1994 in the plankton of the [Muehlhalden pond](#). Obj. 100 X.



**Fig. 2:** *Desmodesmus adundans*.  $L = 14.9\ \mu\text{m}$  (of coenobium). A specimen found in November 1994 in the [Simmelried](#). The pyrenoids of the outer cells are not double, but are shells of starch that have formed around the pyrenoid. Obj. 100 X.