

*Macromonas mobilis*

(Lauterborn, 1915) Utermöhl & Koppe, 1923

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

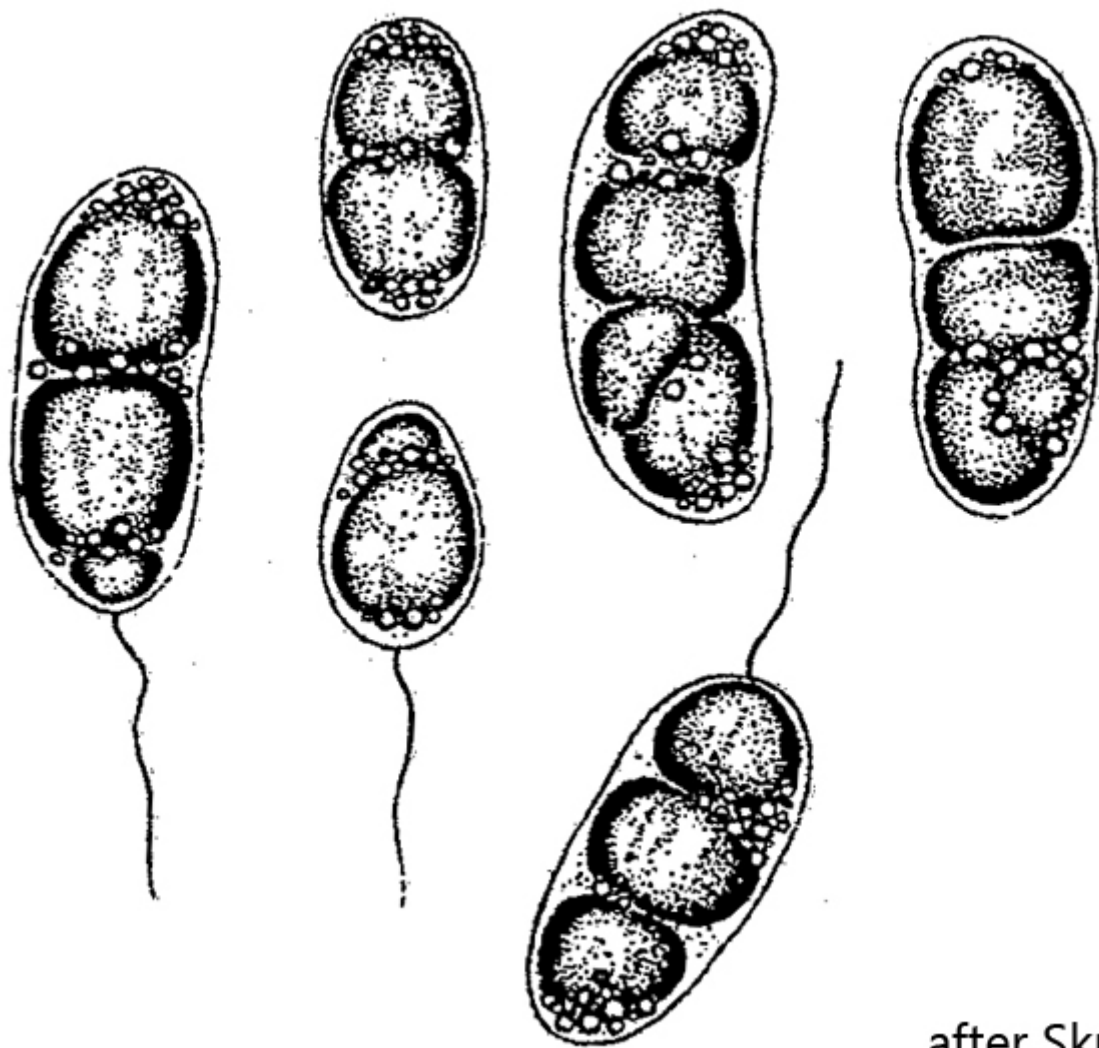
**Synonym:** n.a.

**Sampling location:** [Simmelried](#)

**Phylogenetic tree:** [Macromonas mobilis](#)

**Diagnosis:**

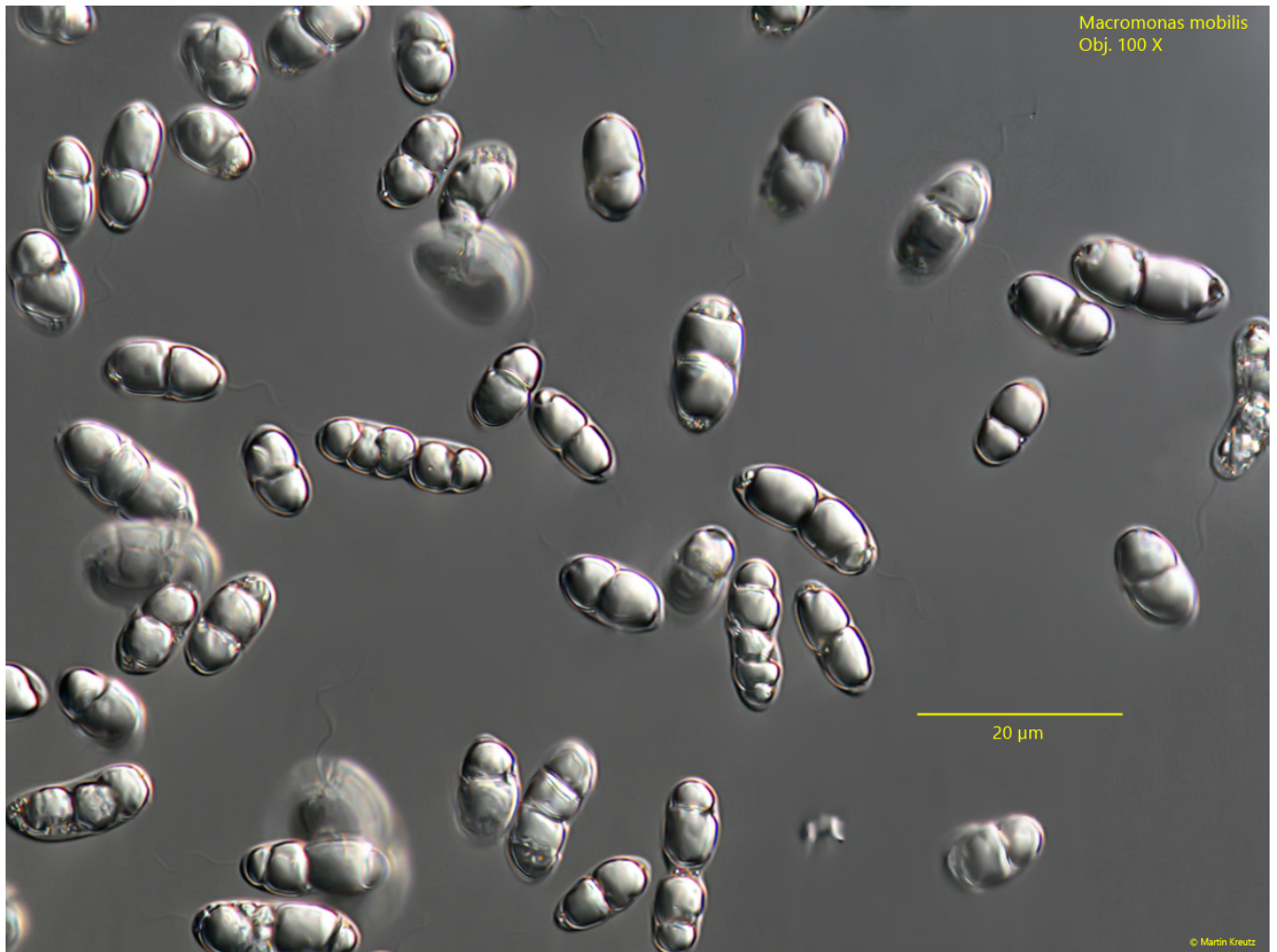
- length 12 -30  $\mu\text{m}$ , width 8 - 14  $\mu\text{m}$
- oval to oblong, sometimes slightly curved
- 1-4 large sulphur globules and many tiny globules
- one polar flagellum
- fast swimming, flagellum pushed the cell



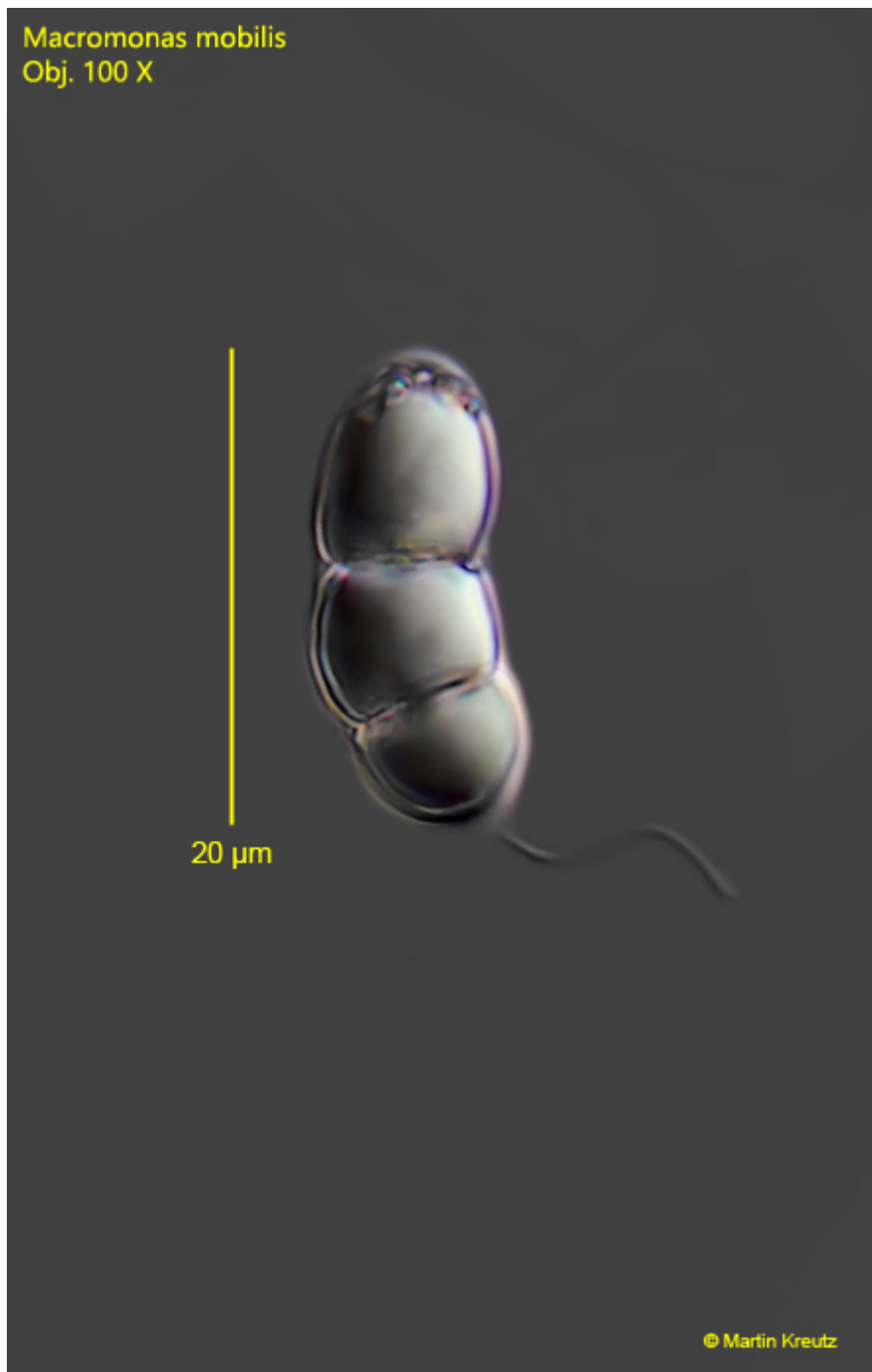
after Skuja

*Macromonas mobilis*

I found this large sulphur bacterium in the main pond of [Simmelried](#) in February 2005 and January 2009. The main pond is normally not accessible. However, in winter 2005 and 2009 the pond and the surrounding mud zone were frozen. So I could access the ice cover and take samples through a hole. In these samples I found *Macromonas mobilis*. In the other ponds of [Simmelried](#) I could not find this sulphur bacterium, although they also have a thick mud layer at the bottom.



**Fig. 1:** *Macromonas mobilis*. Overview of a mass development. Note the polar flagellum of the specimens. Obj. 100 X.



**Fig. 2:** *Macromonas mobilis*. L = 20 µm. A freely swimming specimen. The cell contains three large sulphur globules. Obj. 100 X.