

Raphidiophrys capitata

Siemensma & Roijacker, 1988

Most likely ID: n.a.

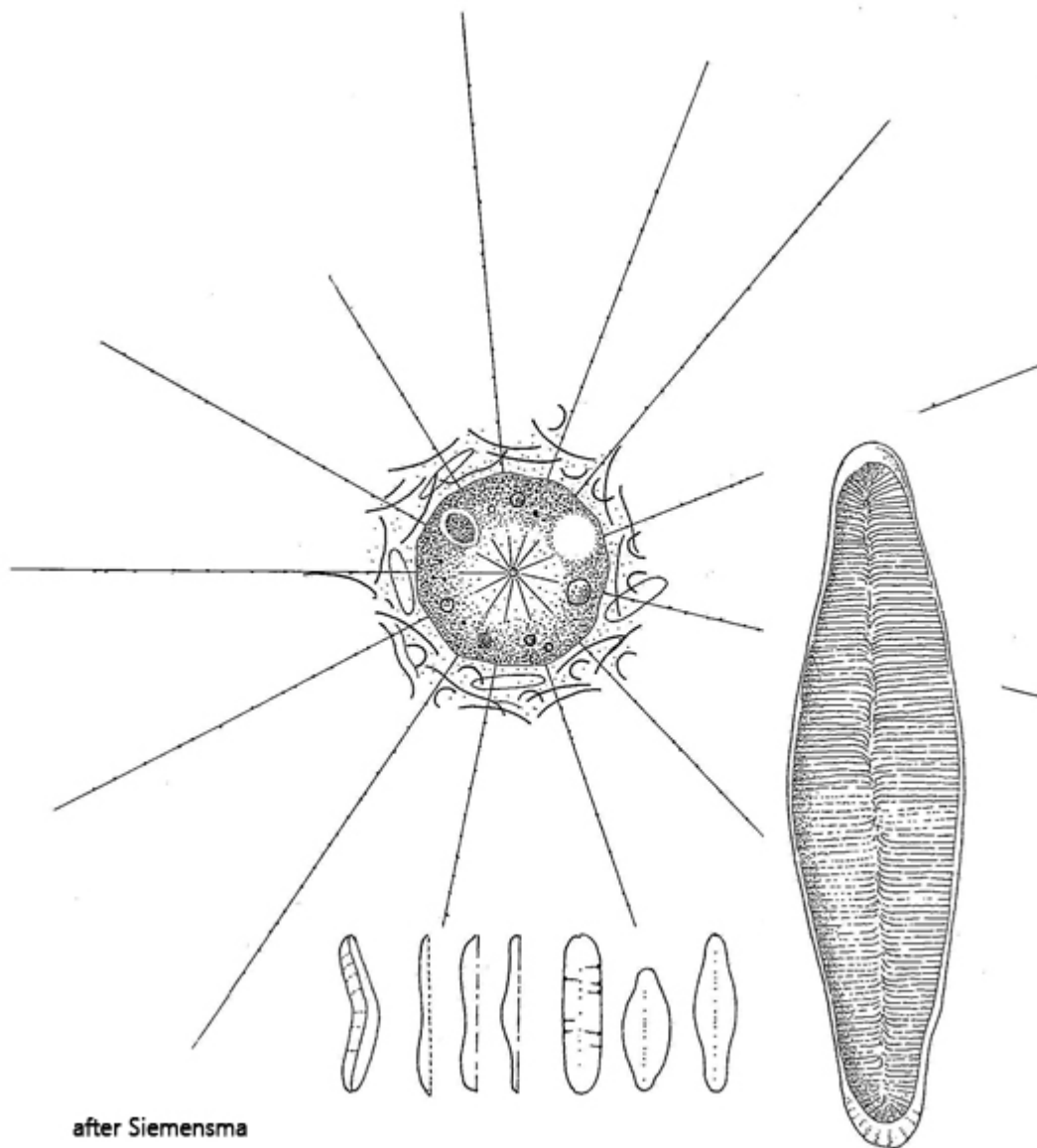
Synonym: n.a.

Sampling location: Moss

Phylogenetic tree: [*Raphidiophrys capitata*](#)

Diagnosis:

- cells about 35 µm in diameter (without coat of scales)
- solitary forms or in colonies
- scales 6-14 µm x 2-4 µm, shaped long elliptical
- scales boat-shaped, with inflexed rims, poles often capitate
- axopods up to 170 µm long
- centroplast in the center of the cell
- nucleus in eccentric position
- 2 - 3 contractile vacuoles



Raphidiophrys capitata

So far I have only found one specimen of *Raphidiophrys capitata* and unfortunately I have only taken very few photos. Mesotrophic and eutrophic waters are given as the habitat of *Raphidiophrys capitata*. Interestingly, I found *Raphidiophrys capitata* in a moss sample that had been moistened with a little water.

At small magnifications *Raphidiophrys capitata* resembles the similar species [Raphidiophrys intermedia](#). However, the latter species has almost oblong shaped scales, the edges of which show a clear transverse striation. In contrast, the scales of *Raphidiophrys capitata* are long ellipsoid with inflexed rims. This gives them the shape of a boat, what is difficult to see under the light microscope. The fine structure of the scales cannot be resolved even at the highest magnification.

More images and information on *Raphidiophrys capitata*: [Ferry Siemensma-Microworld-Raphidiophrys capitata](#)

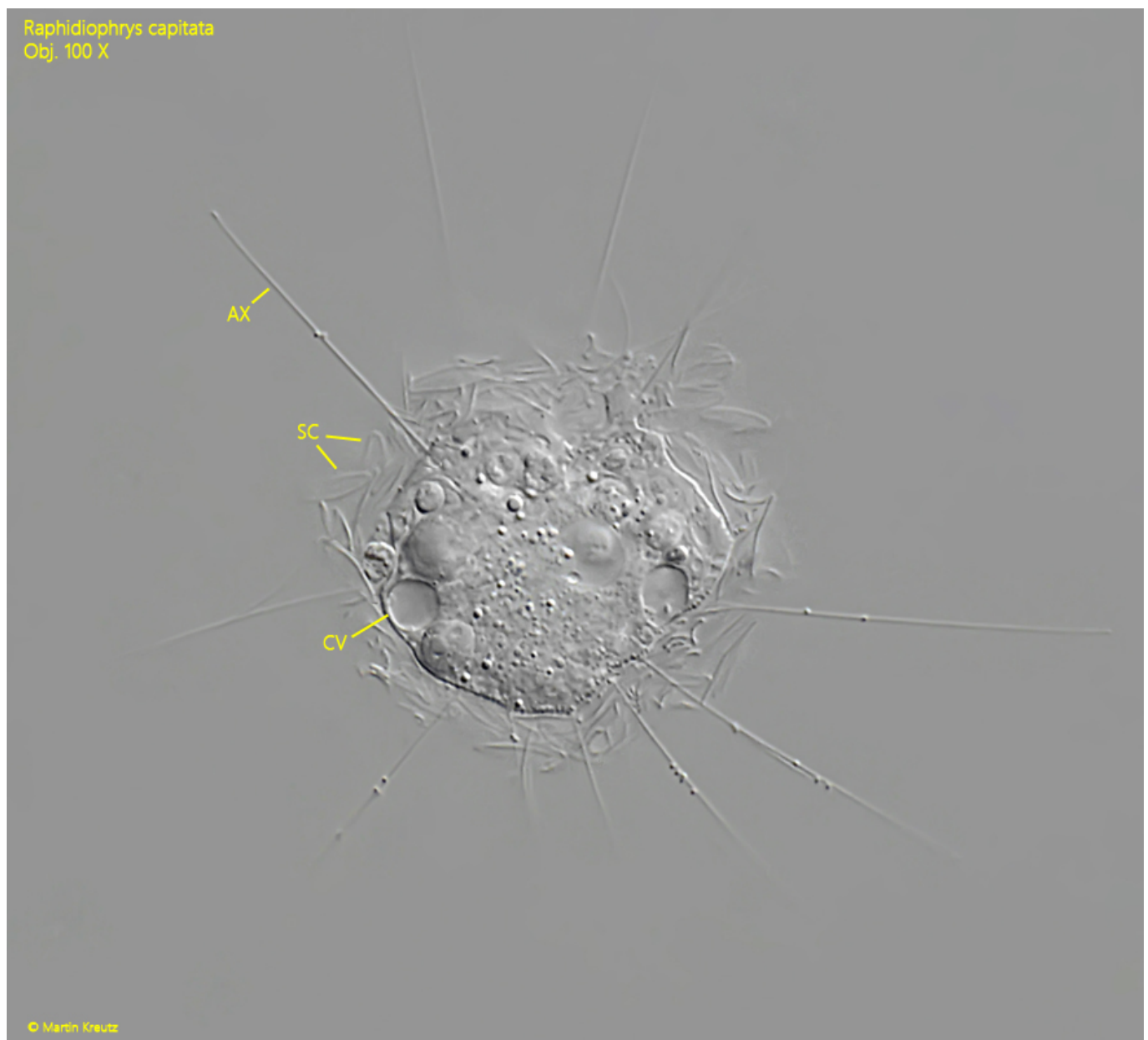


Fig. 1: *Raphidiophrys capitata*. $D = 29\ \mu\text{m}$ (without scales). A specimen found in Moss. AX = axopodia, CV = contractile vacuole, SC = scales. Obj. 100 X.

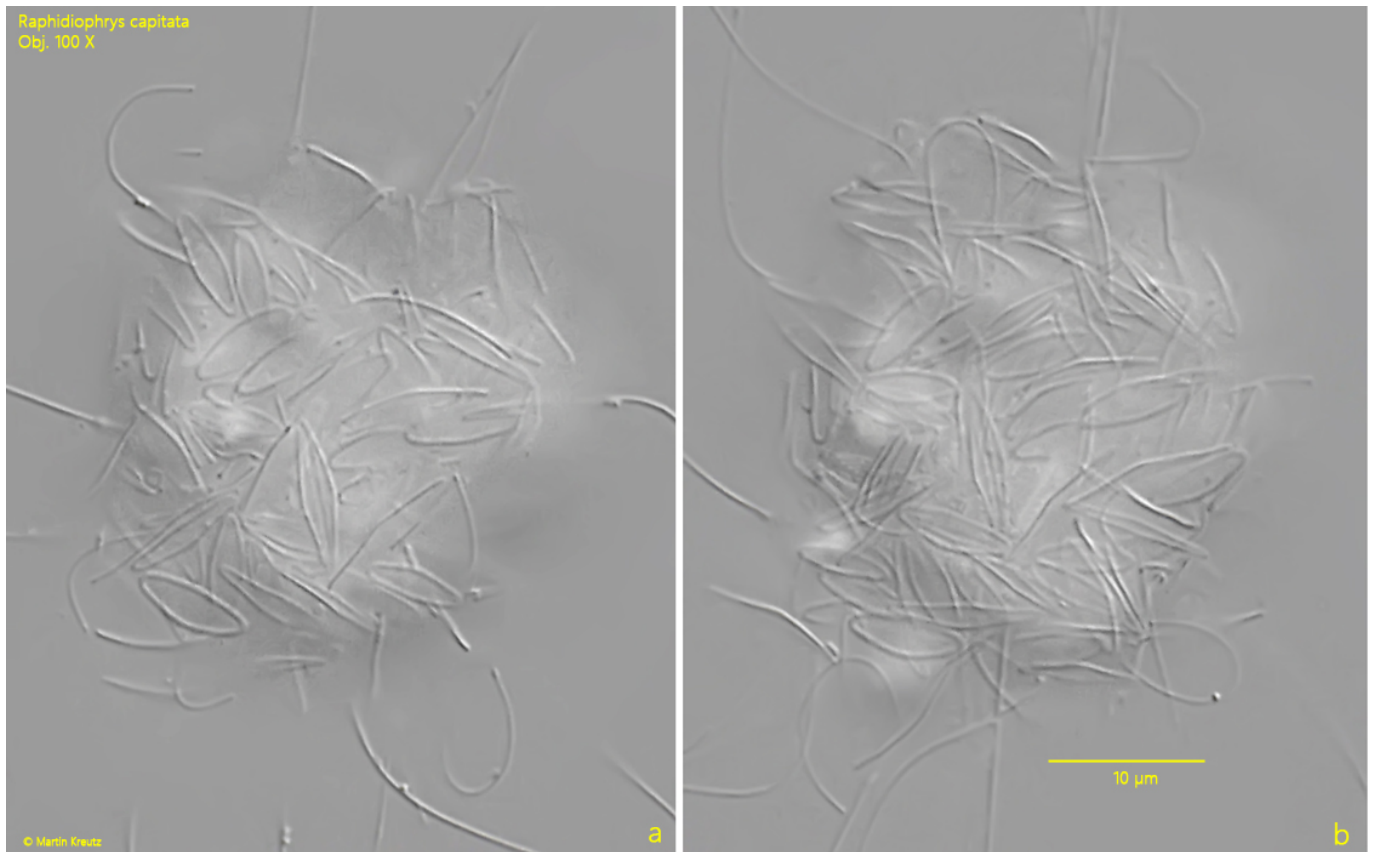


Fig. 2 a-b: *Raphidiophrys capitata*. Two focal planes on the layer of scales covering the cell. The scales of this specimen are 6-11 µm long with an elongated, elliptical shape. Some scales are slightly rhombic. Obj. 100 X.