Coleps hirtus var. minor Kahl, 1930

Most likely ID: n.a.

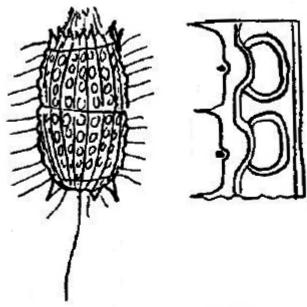
Synonym: n. a.

Sampling location: Simmelried

Phylogenetic tree: Coleps hirtus var. minor

Diagnosis:

- length 35-45 μm
- cell has a barrel-shaped form
- contracile vacuole sub-terminal
- uniform ciliation
- 13 longitudinal rows of plates
- one caudal cilium (hard to see)
- macronucleus spherical
- apical mouth opening with basket
- posterior spines are broadened at the base
- shape of the "windows" in the carapace are rectangular with rounded corners



after Kahl

Coleps hirtus var. minor

I first noticed *Coleps hirtus var. minor* in my samples when they occurred simultaneously with *Coleps hirtus*. The specimens gathered together with many *Coleps hirtus* at the surface of a sample taken from the Simmeried. A direct comparison shoes that *Coleps hirtus var*. minor is much smaller and also has a more stocky body compared to *Coleps hirtus*. Upon close inspection of the armour I could confirm the description by Kahl, that in this variety the "windows" in the armour are not pretzel-shaped (as described for <u>Coleps hirtus</u>), but rectangular with rounded corners (s. fig. 3). I could recognize the caudal cilium in the living specimens, but unfortunately the photographic documentation is not fully sufficient (s. fig. 2a). Because of the simultaneous occurrence with *Coleps hirtus* I can confirm Kahl's opinion that *Coleps hirtus var. minor* is a constant form.

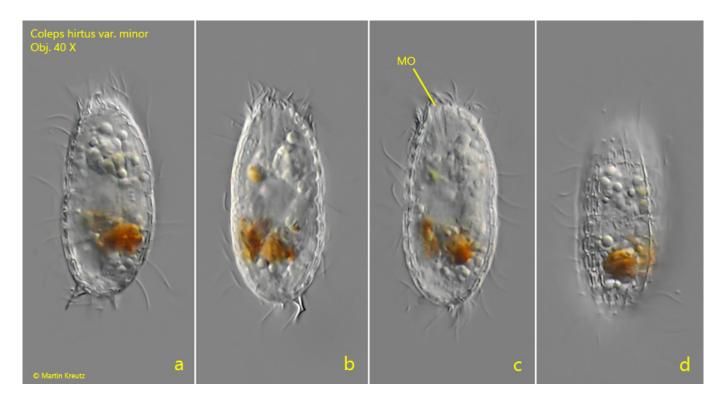


Fig. 1 a-d: Coleps hirtus var. minor. L = 45 μm . A freely swimming specimen. Obj. 40 X.



Fig. 2 a-b: Coleps hirtus var. minor. $L = 45 \mu m$. Two focal planes of a slightly squashed specimen. CC = caudal cilium, CV = contractile vacuole, Ma = macronucleus. Obj. 100 X.

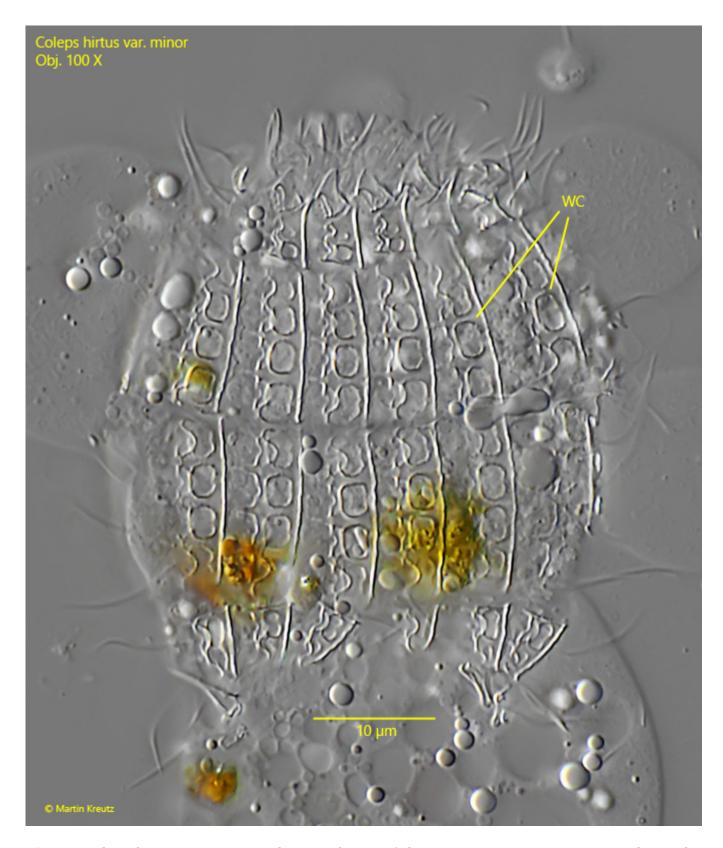


Fig. 3: Coleps hirtus var. minor. The "windows" of the carapace (WC) are rectangular with rounded corners. Obj. 100 X.