

***Coleps amphacanthus* Ehrenberg, 1833**

Most likely ID: n.a.

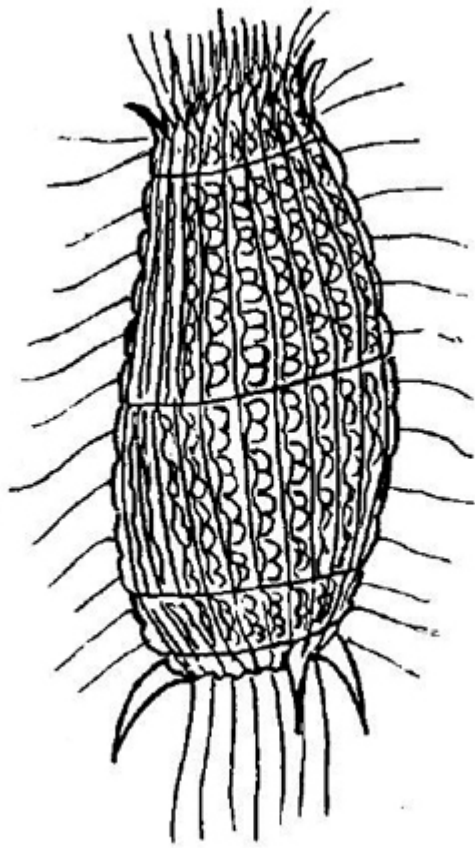
Synonym: n.a.

Sampling location: [Simmelried](#), [Purren pond](#), [Mainau pond](#), [Bussenried](#), [Bündtlisried](#), [Ulmisried](#), [Mühlhalden pond](#)

Phylogenetic tree: [Coleps amphacanthus](#)

Diagnosis:

- body asymmetrically sac-shaped, sometimes barrel-shaped
- length 70-90 µm
- 3 posterior spines
- 4 anterior spines
- uniform ciliation
- 24-28 longitudinal rows of plates
- "windows" in armour pretzel-shaped
- anterior main plate with 5 „windows“
- posterior main plate with 4 „windows“
- 4-8 caudal cilia
- macronucleus spherical in mid-body
- apical mouth opening with basket of pharyngeal trichites
- contractile vacuole subterminal



after Kahl

Coleps amphacanthus

I find *Coleps amphacanthus* is very common in almost all of my sampling locations. This member of *Coleps* is slightly larger than the other *Coleps* species and is conspicuous by its sac-shape, even at low magnifications. Furthermore, this species has 4-8 caudal cilia (s. figs. 1 a and 2 b). The windows in the armour are pretzel-shaped as in *Coleps hirtus*. However, *Coleps amphacanthus* has 5 windows in the anterior main plate and only 4 windows in the posterior main plate (s. fig. 4 a) while *Coleps hirtus* has only 4 windows in each of the two main plates.

Coleps amphacanthus is a scavenger that quickly gathers on dead or injured protozoans or metazoans. This process is probably controlled by chemotaxis, with *Coleps amphacanthus* following the concentration gradient to the prey.



Fig. 1 a-d: *Coleps amphacanthus*. L = 85 μ m. A freely swimming specimen. AS = anterior spines, CC = caudal cilia, Ma = macronucleus. PS = posterior spines. Obj. 40 X.



Fig. 2 a-b: *Coleps amphacanthus*. L = 83 μ m. A second freely swimming specimen. CC = caudal cilia. Obj. 40 X.

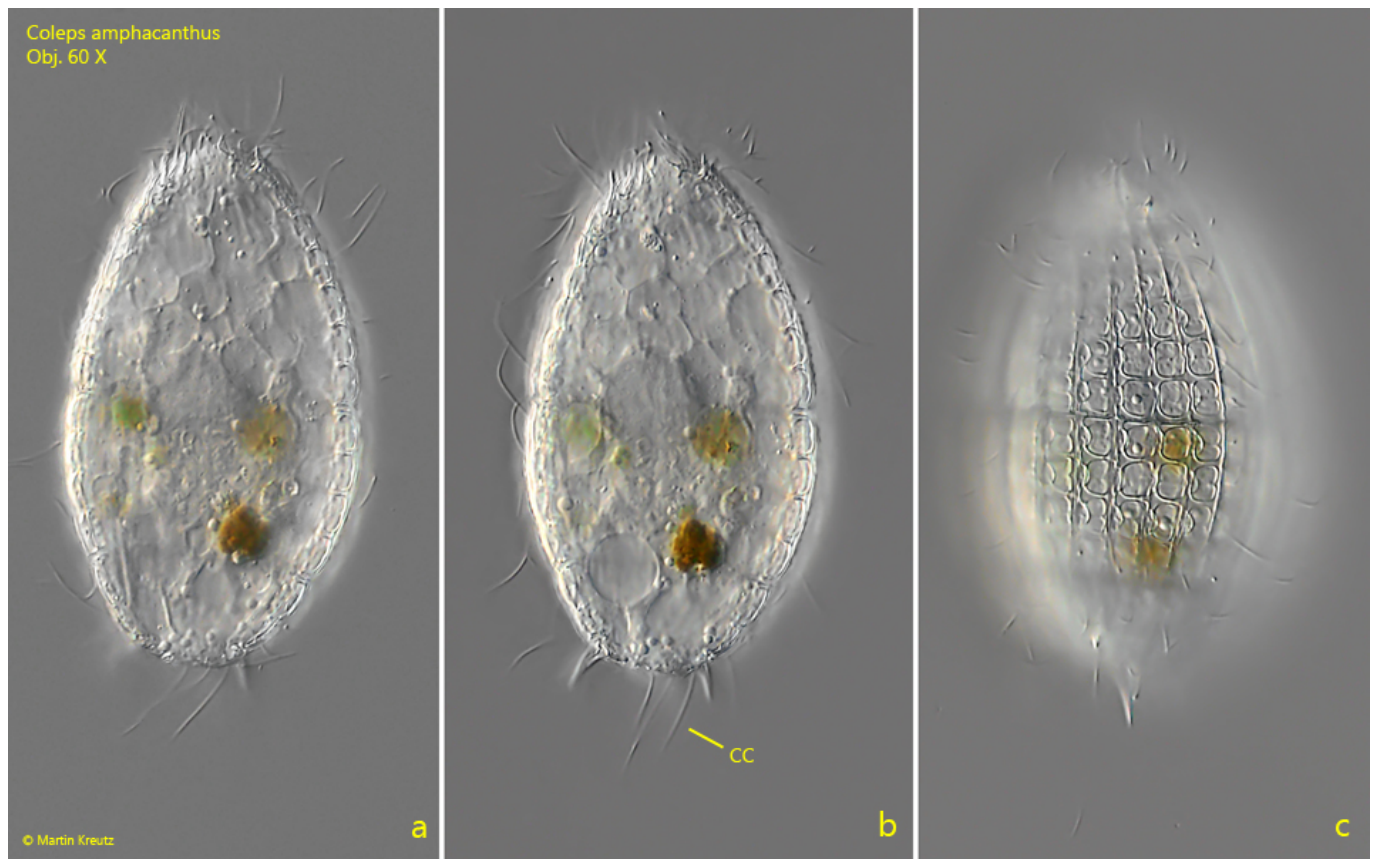


Fig. 3 a-c: *Coleps amphacanthus*. L = 80 μ m. Different focal planes of a slightly squashed specimen. CC = caudal cilia. Obj. 60 X.

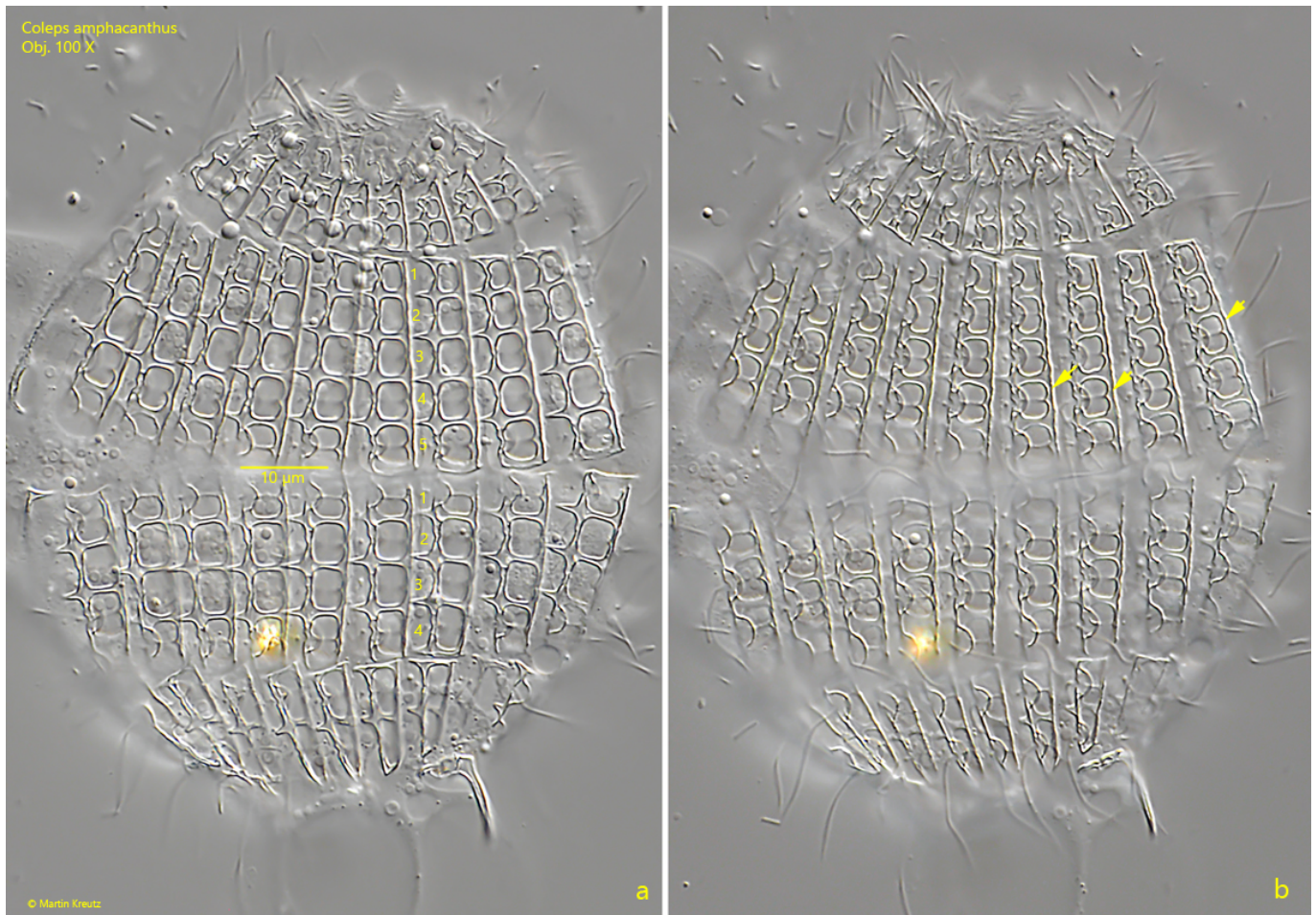


Fig. 4 a-b: *Coleps amphacanthus*. Two focal planes of the armour in a strongly squashed specimen. The anterior main plate has 5 „windows“ (1-5) while the posterior main plate has only 4 „windows“ (1-4). The windows are pretzel-shaped (arrows). Obj. 100 X.