

Cosmarium moniliforme* f. *panduriforme

Heimerl, 1891

Most likely ID: n.a.

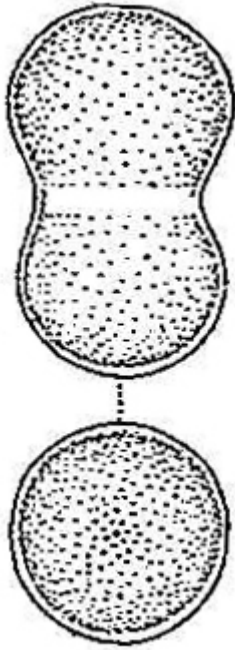
Synonym: n.a.

Sampling location: [Schwemm Moor \(Austria\)](#)

Phylogenetic tree: [Cosmarium moniliforme f. panduriforme](#)

Diagnosis:

- cells dumbbell-shaped
- length 12-33 µm, width 7-18 µm
- semi-cells almost spherical
- isthmus narrow, with concave margins
- chloroplast with one pyrenoid
- cell wall finely punctate



after Lenzenweger

Cosmarium moniliforme f. *panduriforme*

So far, I have only found *Cosmarium moniliforme* f. *panduriforme* in the [Schwemm Moor](#) in Austria. In the samples, this small *Cosmarium* species is inconspicuous and can easily be overlooked. The cells are distinctly dumbbell-shaped with almost spherical semi-cells. The specimens in my population were between 20-25 μm long, which fits very well with the data provided by von Lenzenweger (1999) of 12-33 μm . The parent form *Cosmarium moniliforme* and the variety *Cosmarium moniliforme* var. *limneticum* are larger ($> 30 \mu\text{m}$) and have an isthmus that tapers slightly inward.

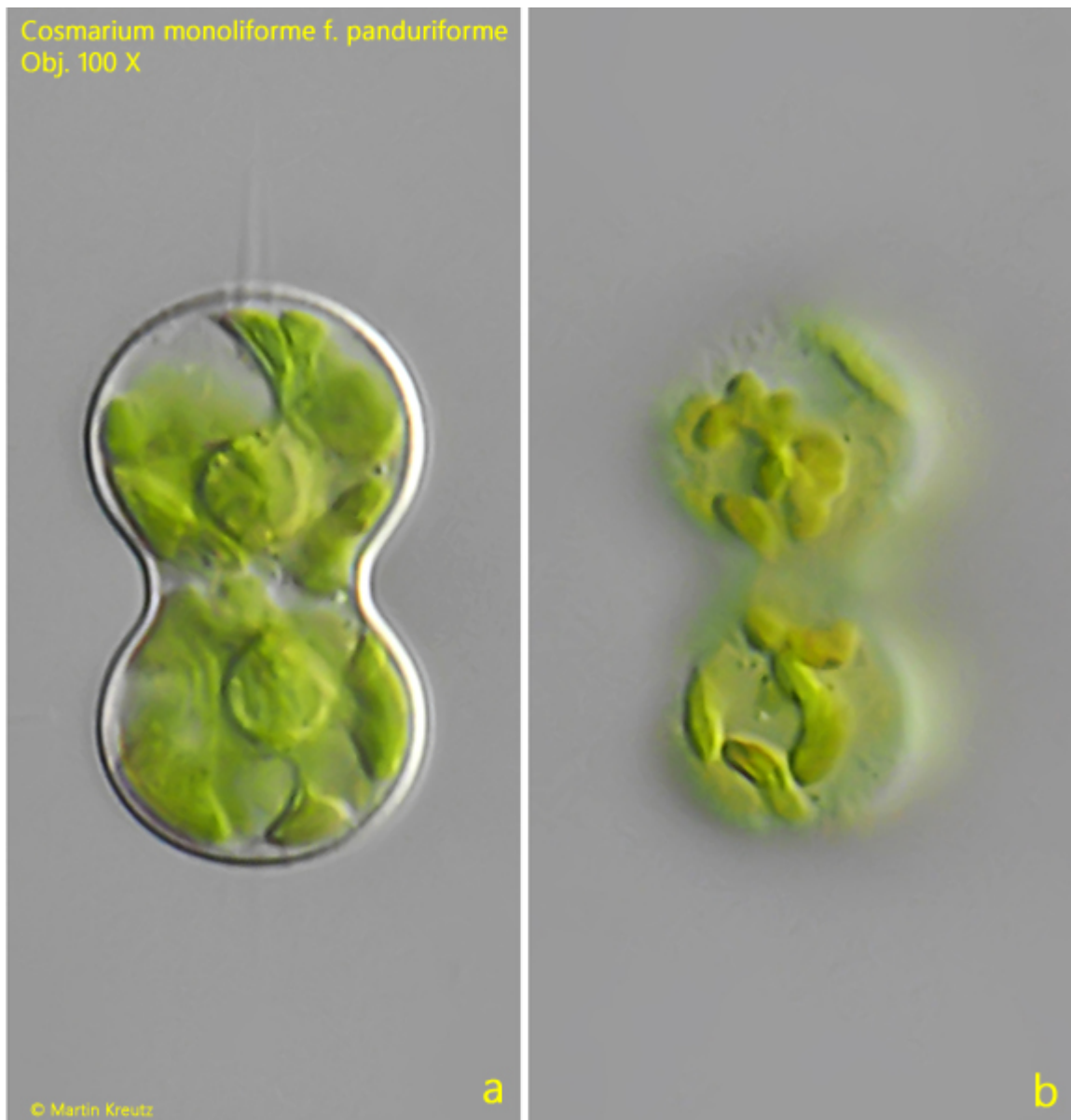


Fig. 1 a-b: *Cosmarium moniliforme* f. *panduriforme*. $L = 22\ \mu\text{m}$. Two focal planes of a specimen found in the [Schwemm Moor](#). Note the isthmus with the concave margins. Obj. 100 X.

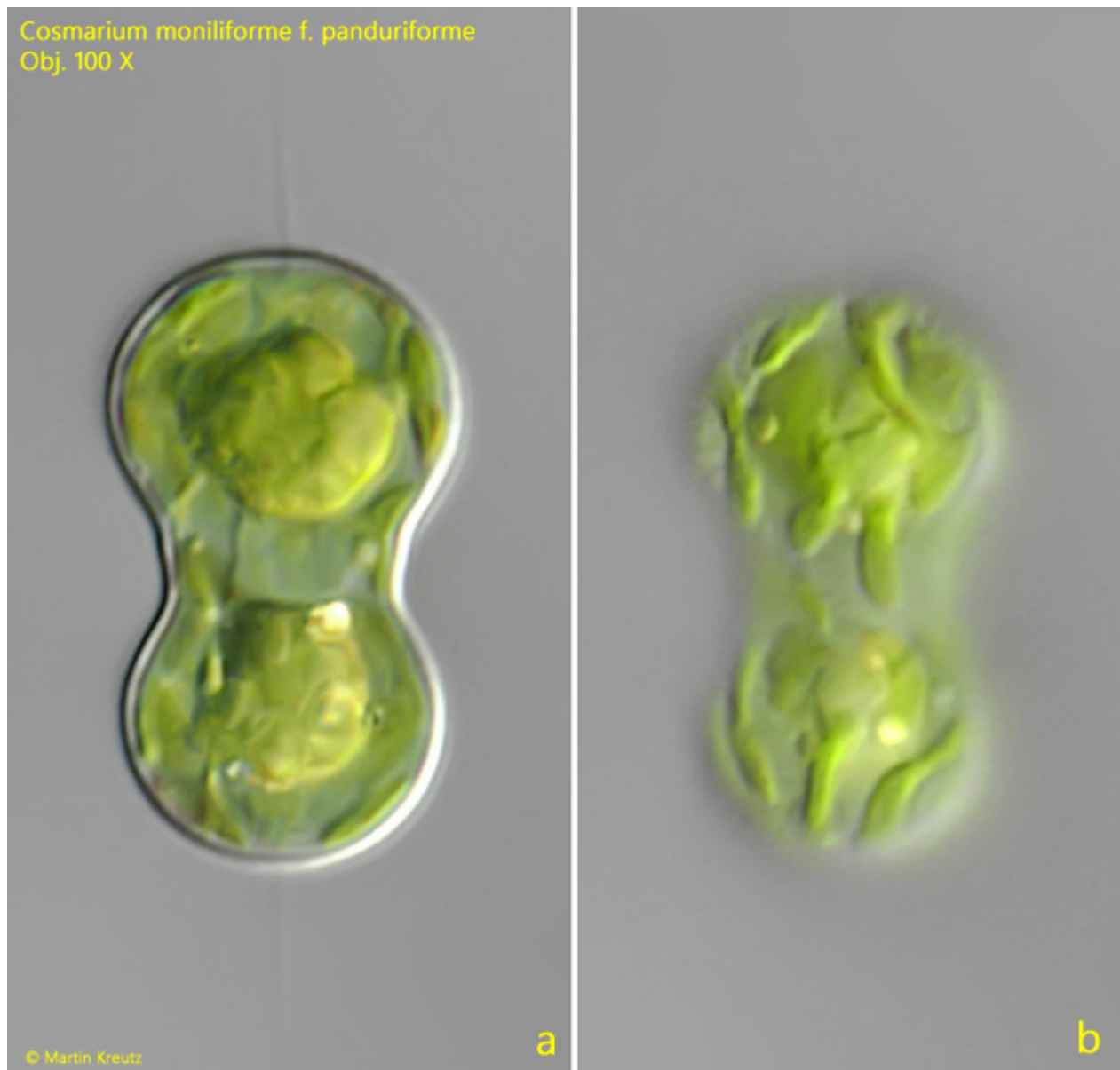


Fig. 2 a-b: *Cosmarium moniliforme* f. *panduriforme*. L = 24 μ m. Two focal planes of a second specimen. Obj. 100 X.