

***Staurastrum furcatum* Brébisson 1856**

Most likely ID: n.a.

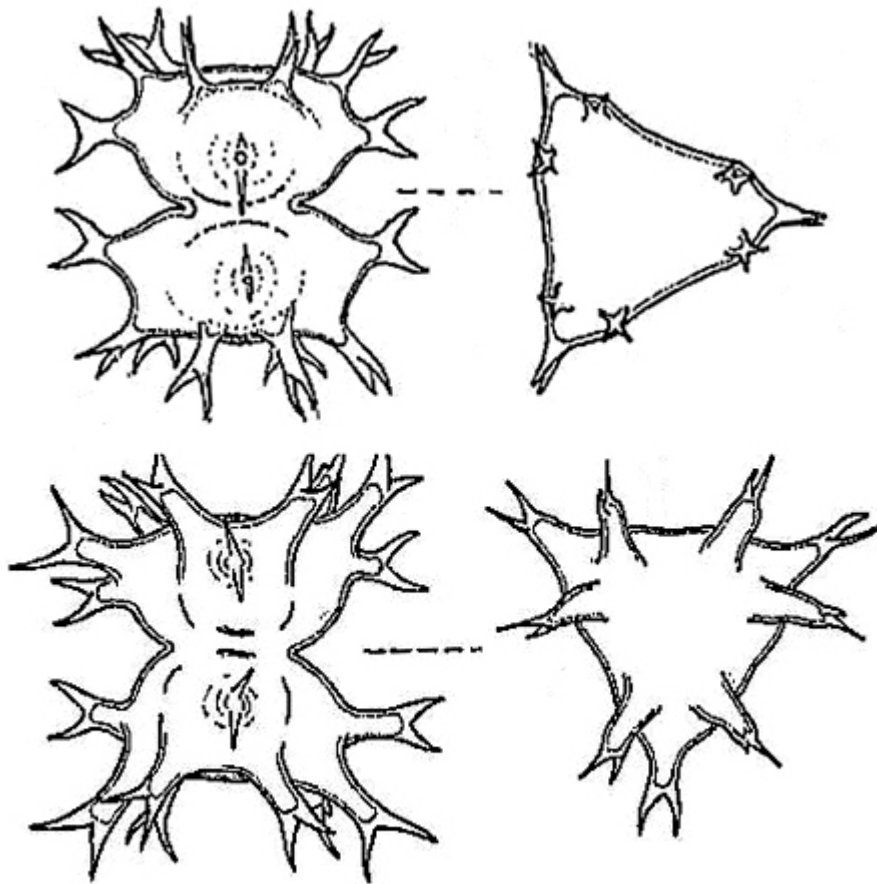
Synonyms: *Staurastrum spinosum*, *Staurastrum ehrenbergii*, *Phycastrum ehrenbergianum*, *Staurastrum ehrenbergianum*, *Staurastrum cornubiense*, *Staurastrum de-tonii*

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

Phylogenetic tree: [Staurastrum furcatum](#)

Diagnosis:

- cells triradiate
- semi-cells shaped elliptical to hexagonal
- lateral angles with each on bifurcated spine, three per semi-cell
- apical angles with each one bifurcate spine, six per semi-cell
- length 23–30 µm, width 23–28 µm
- cell wall smooth, rarely with fine granules
- each semi-cell with one pyrenoid



after Lenzenweger

Staurastrum furcatum

I have only found *Staurastrum furcatum* once in small numbers in samples from the [Lauchsee Moor](#) (Austria) in August 2025. Although the alga is quite small, it stands out when examining the samples due to the furcataed spines, of which 6 are located at each of the apical angles and three at each of the equatorial angles. Lenzenweger (1997) describes *Staurastrum furcatum* as quite variable.

The similar species *Staurastrum aciculiferum* has shorter projections, with the equatorial ones pointing in the apical direction, and [Staurastrum senarium](#) has 15 projections with spines per semicell instead of 9, as in *Staurastrum furcatum*.

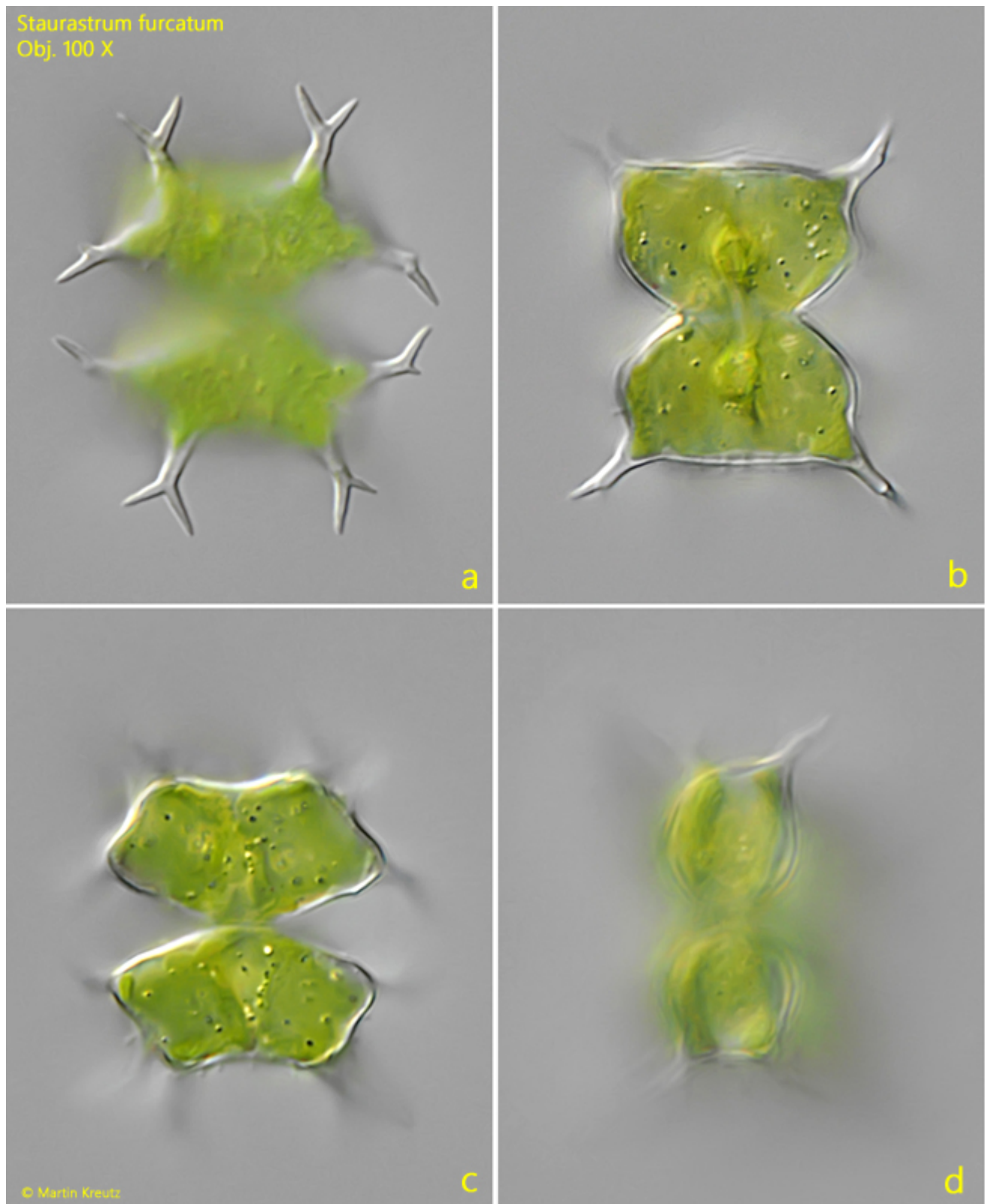


Fig. 1 a-d: *Staurastrum furcatum*. L = 36 μm . Four focal planes of a specimen in DIC. Obj. 100 X.

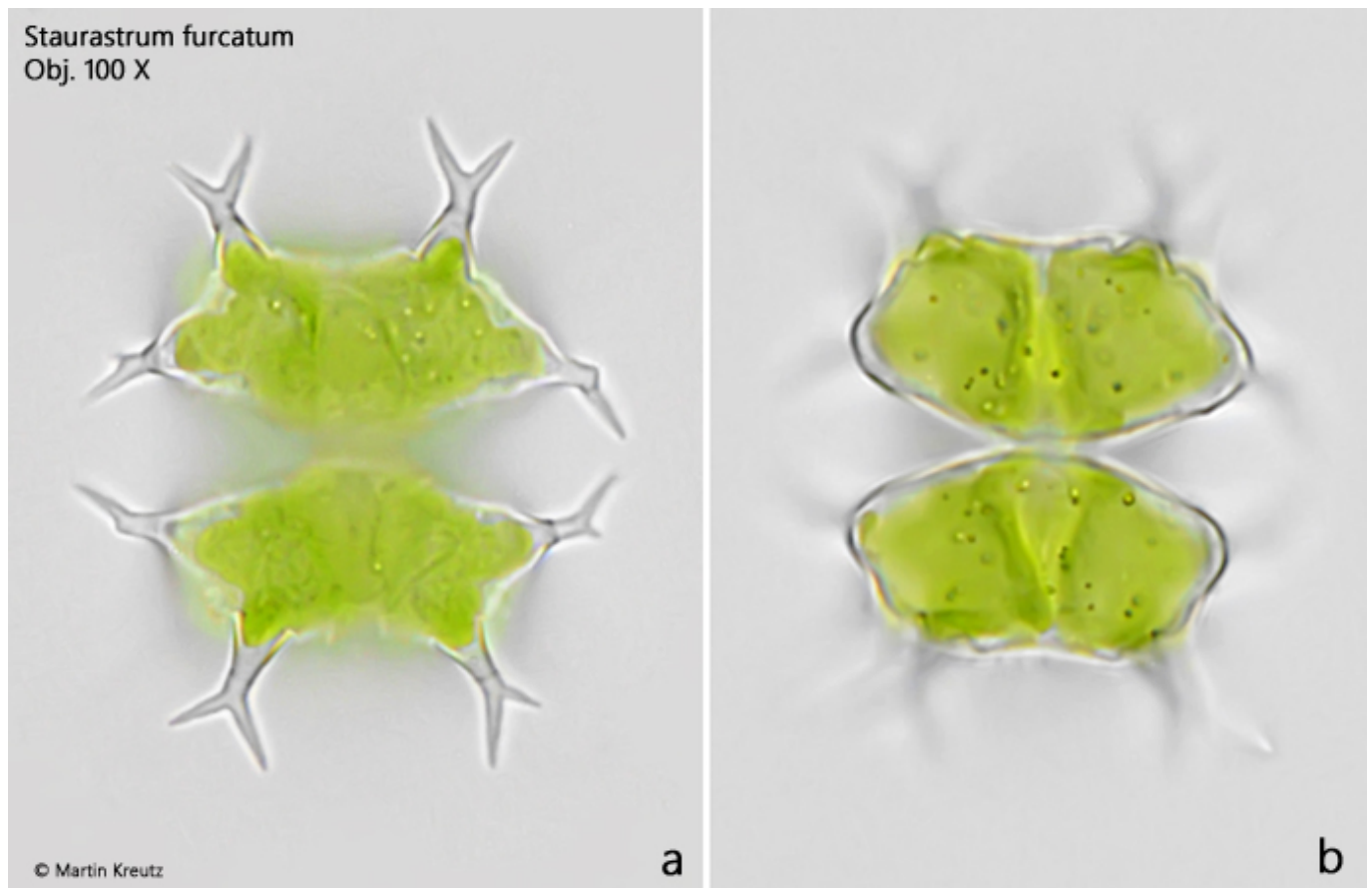


Fig. 2 a-b: *Staurastrum furcatum*. L = 36 μm . The same specimen as shown in fig. 1 a-d in brightfield illumination. Obj. 100 X.