Micrasterias thomasiana* var. *notata

(Nordstedt) Grönblad, 1920

Most likely ID: n.a.

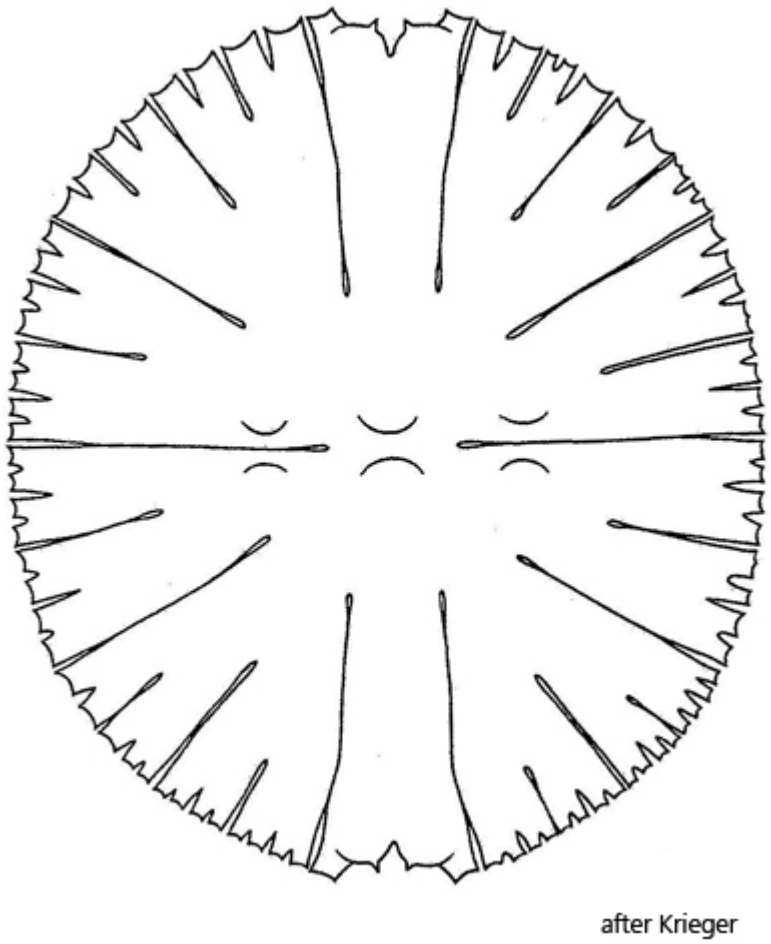
Synonym: n.a.

Sampling location: Bog pond Warnsdorfer spring

Phylogenetic tree: *Micrasterias thomasiana* var. *notata*

Diagnosis:

- outline subcircular
- length 200–260 µm, width 170–230 µm
- isthmus linear, deep
- sinus closed
- semi-cells 5-lobed
- distal end of lobed with each two, short spines
- polar lobes wedge-shaped
- three central projections at base of each semi-scell
- central projections rounded without spines
- lateral margin of cells slightly concave in middle



Micrasterias thomasiana var. notata

I have found *Micrasterias thomasiana* var. *notata* in samples from a bog pond near the Warnsdorf spring (Tharandt forest). The specimens were found on the surface of the mud layer and on the walls of the sample container.

Micrasterias thomasiana var. *notata* can easily be confused with the nominal variety *Micrasterias thomasiana* and also with *Micrasterias denticulata*. *Micrasterias thomasiana* var. *notata* differs from *Micrasterias thomasiana* by the three projections at the base of each semi-cell. These are dome-shaped without spines. In *Micrasterias thomasiana*, however, the lateral projections have each two spines. It is therefore important to focus on the cell surface during the examination. The species *Micrasterias denticulata* has a similar cell shape to *Micrasterias thomasiana* var. *notata*, but the distal ends of the lobes lack spines.

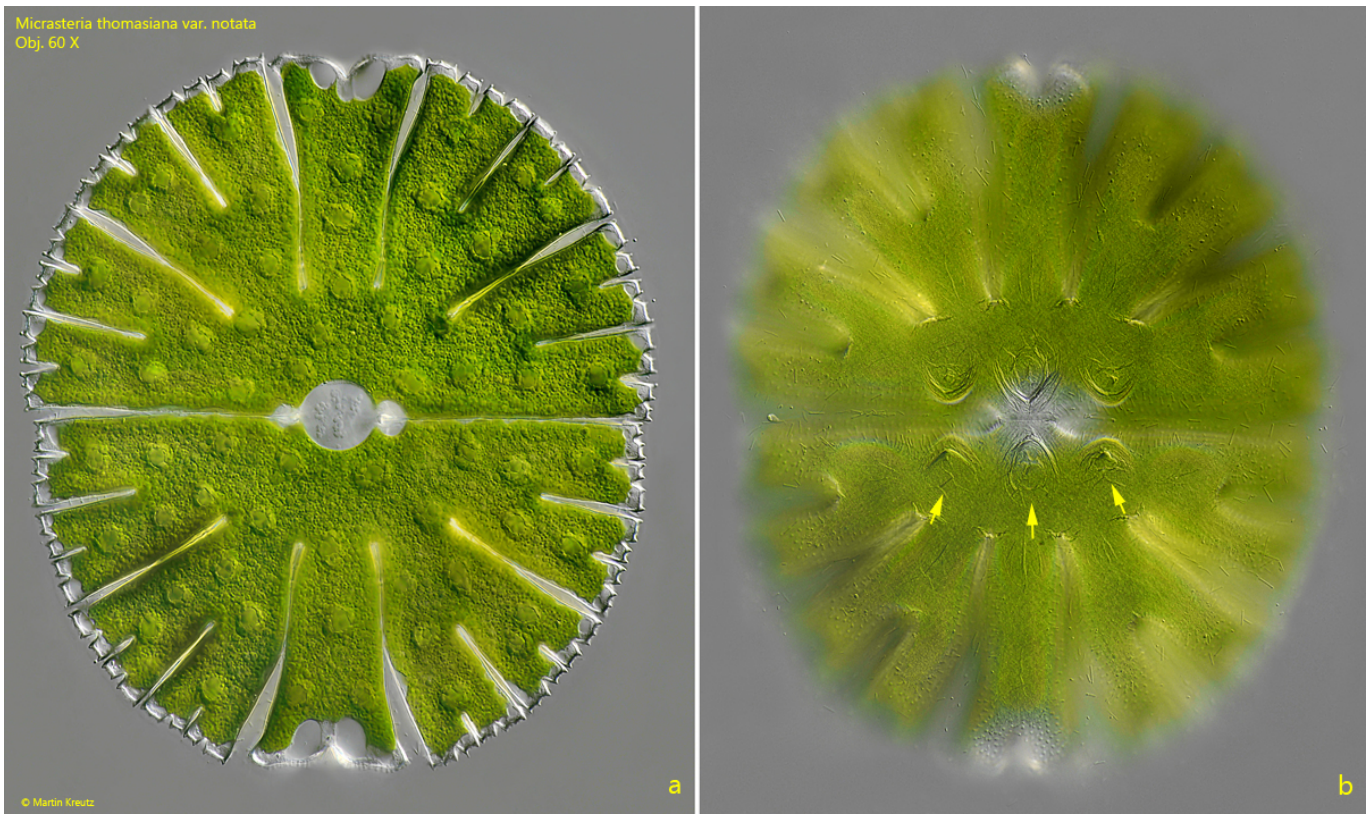


Fig. 1 a-b: *Micrasterias thomasiana* var. *notata.* L = 232 µm. Two focal planes of a slightly squashed specimen. Note the three projections (arrows) at the base of each semi-cell. Obj. 60 X.



Fig. 2: *Micrasterias thomasiana* var. *notata.* L = 232 µm. The specimen as shown in fig. 1 a-b in brightfield illumination. Obj. 60 X.