

***Micrasterias papillifera***

**Brébisson ex Ralfs, 1848**

**Most likely ID:** n.a.

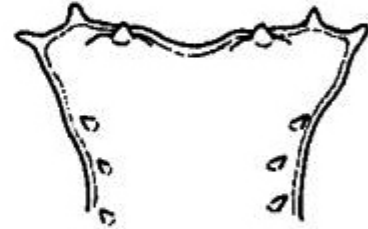
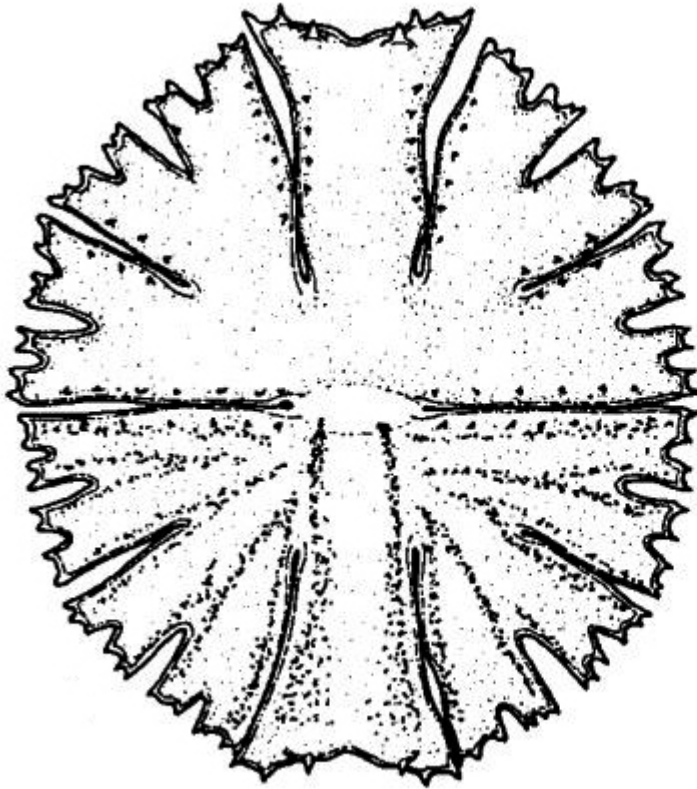
**Synonym:** n.a.

**Sampling locations:** [Paradieswiesen \(Austria\)](#), Rotmoos (Gosau, Austria), Jackl Moor (Austria), Walchsee (Austria)

**Phylogenetic tree:** [Micrasterias papillifera](#)

**Diagnosis:**

- cells almost circular or broad oval
- length 100–140 µm
- deeply constricted isthmus
- semi-cell 5 lobed
- polar lobe wedge-shaped
- polar lobes with 2–3 short spines
- along the incisions of the lobes rows of short spines

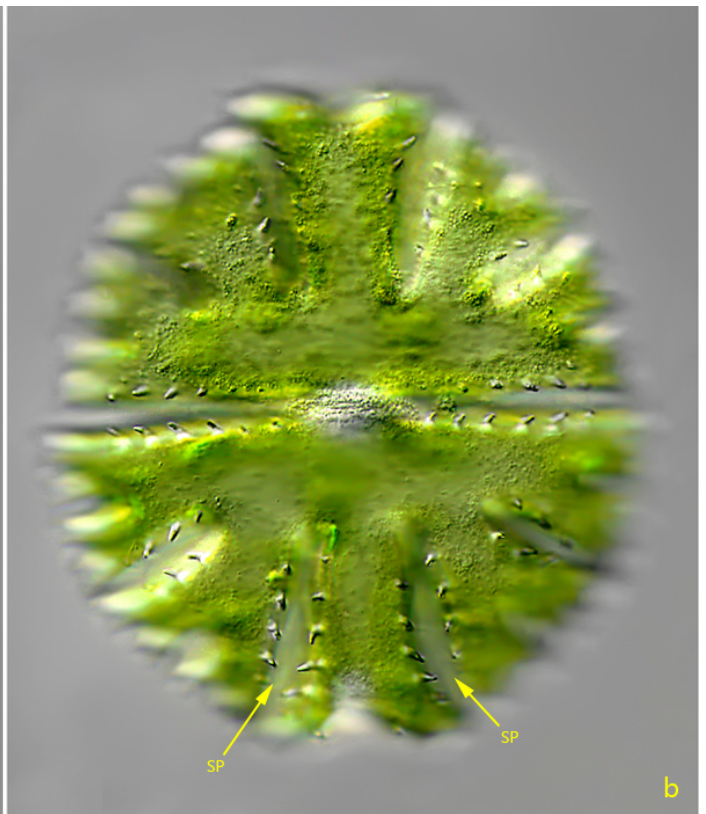


after Lenzenweger

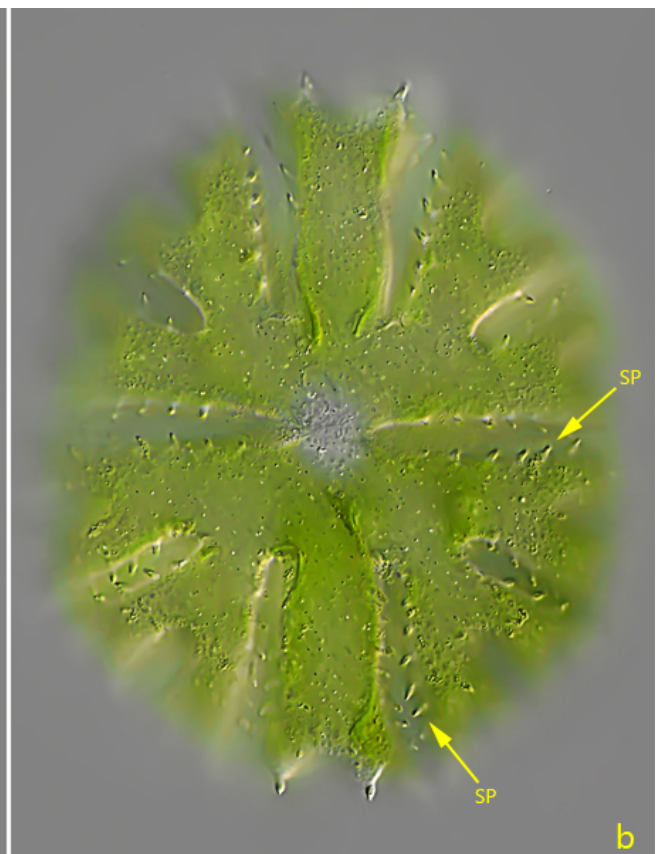
## Micrasterias papillifera

I found *Micrasterias papillifera* in June 1995 in Jackl Moor (Austria), in June 1998 in Rotmoor (Austria), in September 2007 in Walchsee (Austria) and most recently in June 2024 in the Paradieswiesen (Austria). I have not yet been able to find *Micrasterias papillifera* in the vicinity of Lake Constance. The specimen shown in fig. 1 a-b was sampled from the Walchsee (Austria) and the other shown specimens are from the [Paradieswiesen](#).

*Micrasterias papillifera* looks similar to [Micrasterias rotata](#) at low magnifications, but *Micrasterias papillifera* is only half the size. The main characteristic of *Micrasterias papillifera* are small spines, which are arranged in rows along the incisions between the lobes (s. figs. 1 b and 2 b).



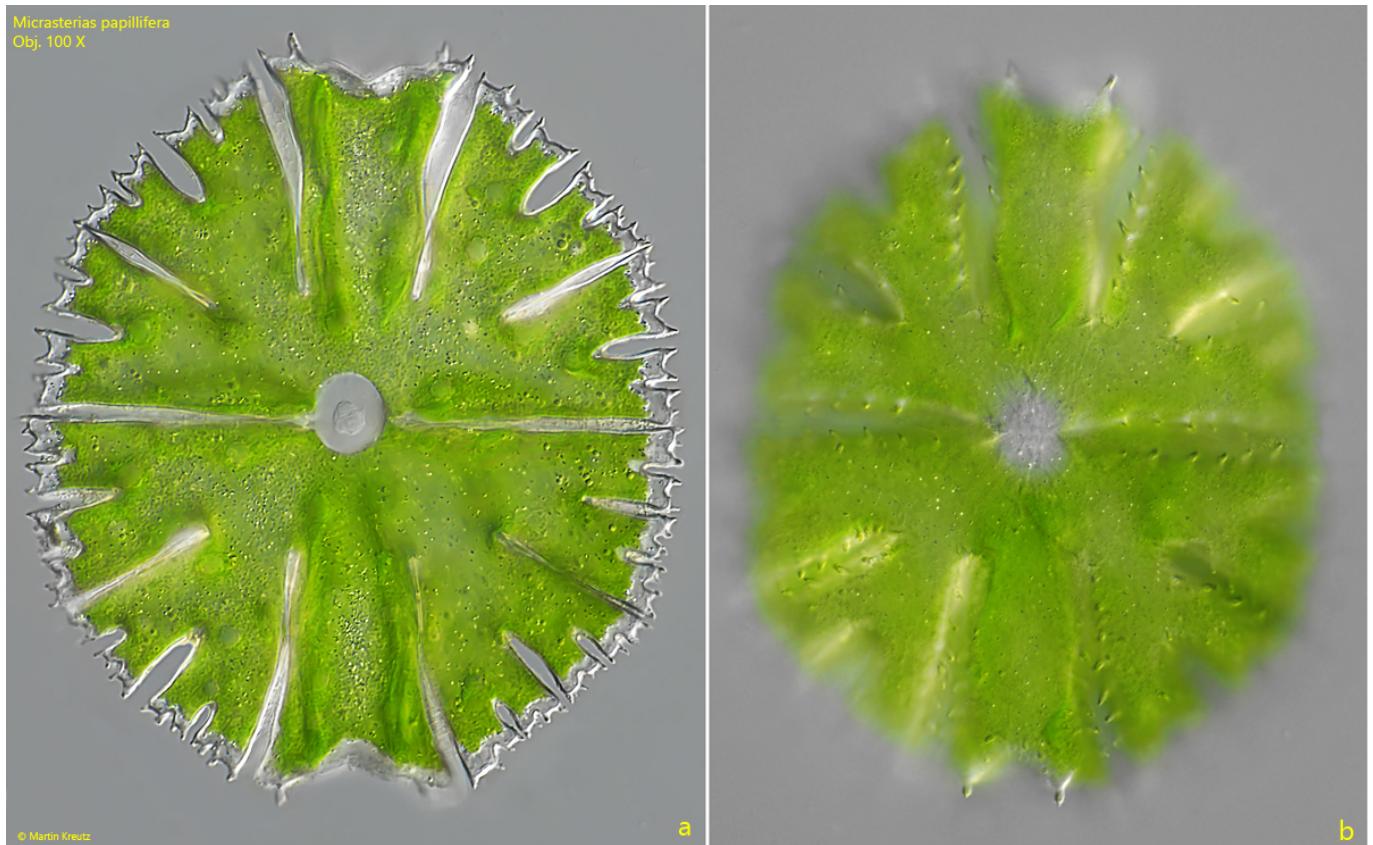
**Fig. 1 a-b:** *Microsterias papillifera*. L = 127  $\mu$ m. Two focal planes of a specimen from Walchsee (Austria). Note the rows of short spines (SP) along the incisions of the lobes. Obj. 100 X.



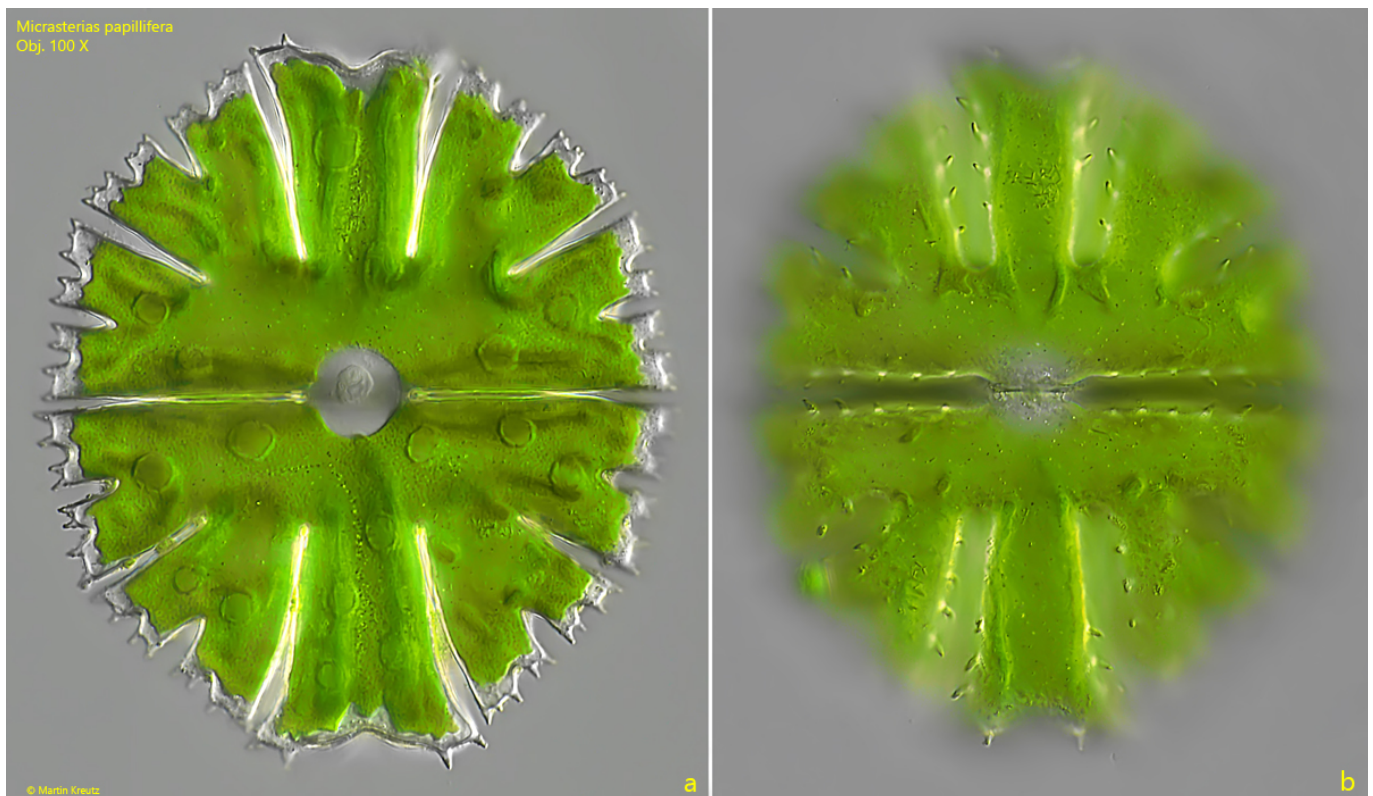
**Fig. 2 a-b:** *Microsterias papillifera*. L = 136  $\mu$ m. Two focal planes of a specimen



from the [Paradieswiesen](#). SP = spines along the incisions of the lobes. Obj. 60 X.



**Fig. 3 a-b:** *Micrasterias papillifera*. L = 136  $\mu$ m. The specimen as shown in fig. 2 a-b in detail. Obj. 100 X.



**Fig. 4 a-b:** *Micrasterias papillifera*. L = 121 µm. A second specimen from the [Paradieswiesen](#). Obj. 100 X.