

***Merismopedia glauca***

**(Ehrenberg) Nägeli, 1845**

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

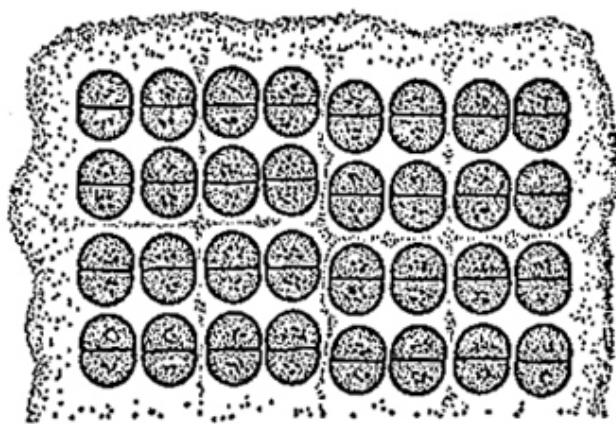
**Synonym:** n.a.

**Sampling location:** [Simmelried](#)

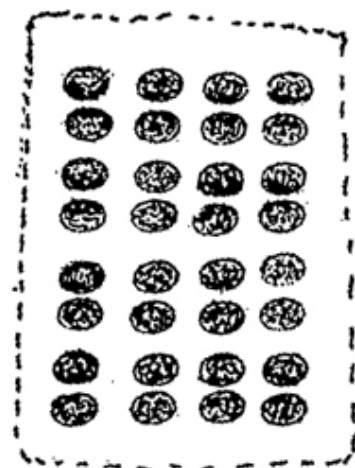
**Phylogenetic tree:** [Merismopedia glauca](#)

**Diagnosis:**

- colonies small with up to 64 cells
- cells spherical, ellipsoidal or hemispherical (after cell division), 3–6  $\mu\text{m}$
- mucilage sheath distinct, following contours of cells
- content of cells homogeneous
- color blueish-green, often pale, sometimes pinkish



1



2

1 = after Streble  
2 = after Bittner

*Merismopedia glauca*

I found *Merismopedia glauca* in October 2003 in the [Simmelried](#). After that I have not

registered any more finds of this species.

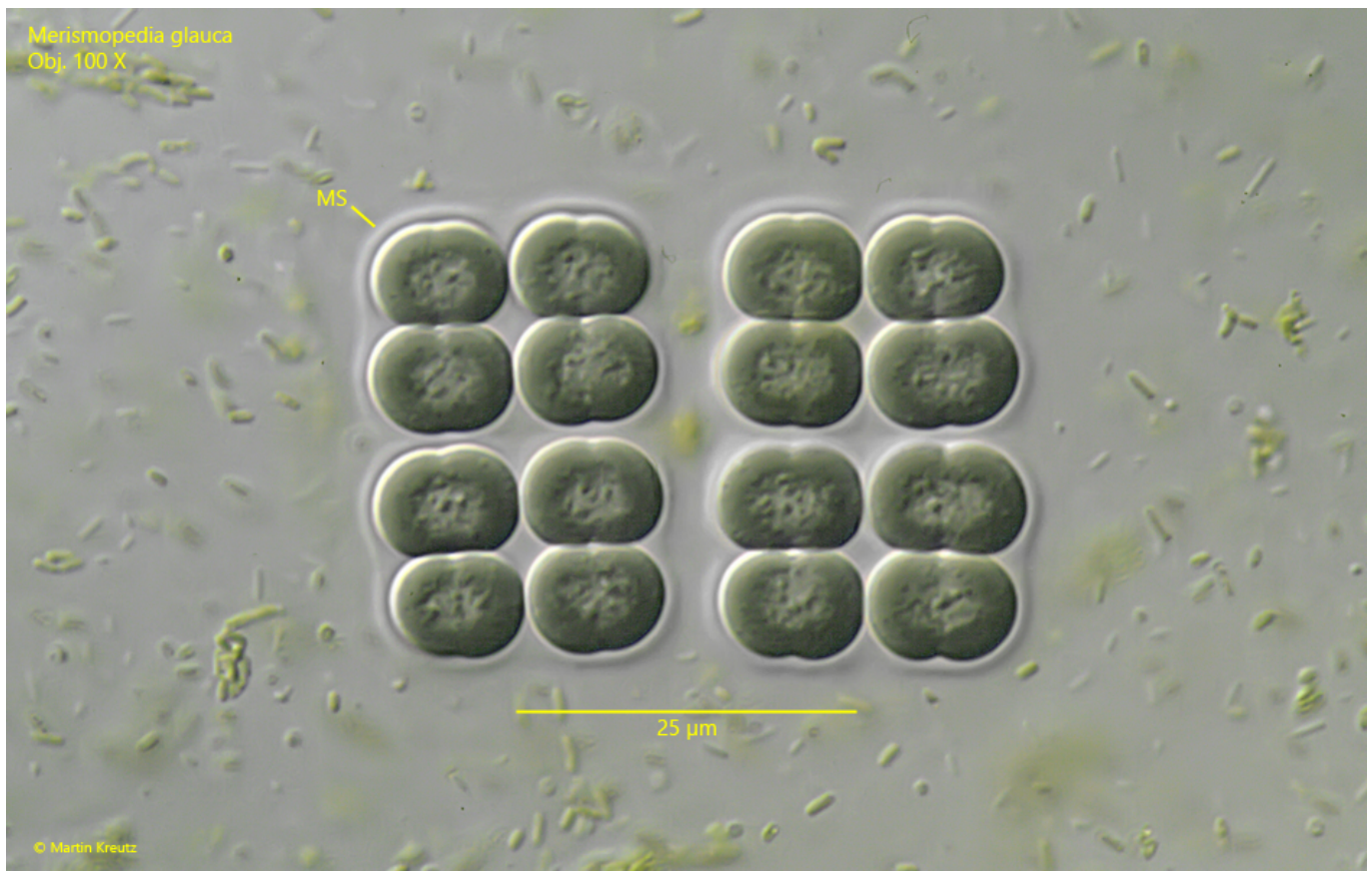
*Merismopedia glauca* is very similar to *Merismopedia elegans*. However, the colonies of *Merismopedia glauca* are much smaller and contain a maximum of 64 cells. In contrast, the tabular colonies of *Merismopedia elegans* can contain up to 4000 cells. In addition, the mucus envelope around the cells of *Merismopedia glauca* and surrounds the cells tightly, whereas the mucus envelope surrounding the colonies of *Merismopedia elegans* has a distance of about one cell diameter from the outer cells.

The color of *Merismopedia glauca* cells is apparently not uniform. It is said to be blueish-green and sometimes pinkish. The cells of my population were more olive green.



**Fig. 1:** *Merismopedia glauca*. Some colonies with 8-16 cells embedded in a layer of yellowish sulfur bacteria. Obj. 40 X.





**Fig. 2:** *Merismopedia glauca*. A colony of 16 cells in detail. Each cell (in cell division) has a length of about 10 µm (= 5 µm per half-cell). Note the distinct mucilaginous sheath (MS) following the contours of the cells. Obj. 100 X.