



Short facts

- Eutrophic
- Surface area: 128 km²
- Mean depth: 4.7 m
- Maximum depth: 6 m
- Residence time: 22 years
- Monomictic, no freezing period

About

Trasimeno is a tectonic lake that is quite shallow (mean depth is 4.7 m) and with a relatively large catchment (396 km²). A eutrophic lake, Trasimeno is mainly used for irrigation, drinking and industrial uses that drain water through artesian wells in the lake groundwater reservoir. Dominant cyanobacteria species include *Leptolyngbya limnetica*, *Merismopedia elegans*, *Gomphosphaeria aponina*, *Oscillatoria brevis*, *Oscillatoria putrida*, *Oscillatoria limnetica*, *Oscillatoria geminate* and *Cylindrospermopsis raciborskii*, which peak throughout the year with cyanobacterial trichomes floating in on sunny summer and winter days.

What's up?

Field sampling in Lake Trasimeno took place in July, September and October 2019 using ISS resources and local citizen scientists, who were involved with the field campaigns.

Very high cyanobacterial abundance (cells/L) was measured on all three fieldtrips, ranging from ca. 40 million to 20 billion cell counts. In July 2019, a bathing ban was issued due to a cyanobacterial bloom dominated by the *Leptolyngbya limnetica* sp. and on 13th October 2019, another cyanobacterial bloom was detected dominated by the same species with cell counts of more than 19 billion.

Time series

