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The Phytoplankton Community of Lake Pamvotis
Methodology

- Estimation of the water quality according to:
  i) The total phytoplankton biovolume \((\text{mm}^3 \text{ L}^{-1})\)
  
  ii) Percentage (%) contribution of Cyanobacteria in total biovolume
  
  iii) Assemblage index \(Q\) (Padisák et al. 2006)
  
  iv) Phytoplankton’s blooms
  
  v) Thresholds guidance of the World Health Organization (WHO) for safe usage of recreational water
  
  vi) Presence of the gene \((mcyA)\) for production of dangerous toxins (microcytines)
Estimation of the Water Quality

1. High levels of phytoplankton biovolume
2. Dominance of Cyanobacteria
3. Frequent, long-lasting water blooms
Estimation of the Water Quality

4. Low levels of index Q

5. Break of the guidance thresholds established by (WHO) for safe usage of the Water

6. Occurrence of toxic blooms
Aphanizomenon flos-aque

Anabaena affinis

Microcystis panniformis

Cyanodictyon imperfectum

Anabaena flos-aque

Microcystis auraginosa