

Phytoplankton dominant species in front of Åland, Utö and Helsinki 29.7.2019

Sirpa Lehtinen, SYKE Marine Research Centre

Phytoplankton samples collected from the Alg@line sampling points along the route of M/S Silja Serenade showed that cyanobacterium *Nodularia spumigena* clearly dominated in front of Åland, and Oscillatoriales/Synechococcales cyanobacteria were extremely abundant in front of Utö. In front of Helsinki, chlorophyll-*a* concentration was the highest and dinoflagellate *Heterocapsa triquetra* was numerous in addition to cyanobacteria *Nodularia spumigena*, *Aphanizomenon flosaquae* and *Dolichospermum* spp.

SS4 Åland

Nodularia spumigena

Dolichospermum spp.

Aphanizomenon flosaquae

Oscillatoriales/Synechococcales

Surface temperature 22,89 °C, chl-*a* 8,00 µg/l.

SS6 Utö

Oscillatoriales/Synechococcales

Nodularia spumigena

Aphanizomenon flosaquae

Dolichospermum spp.

Binuclearia lauterbornii

Surface temperature 20,50 °C, chl-*a* 4,36 µg/l.

SS14 Helsinki, Kruunuvuorenselkä

Aphanizomenon flosaquae

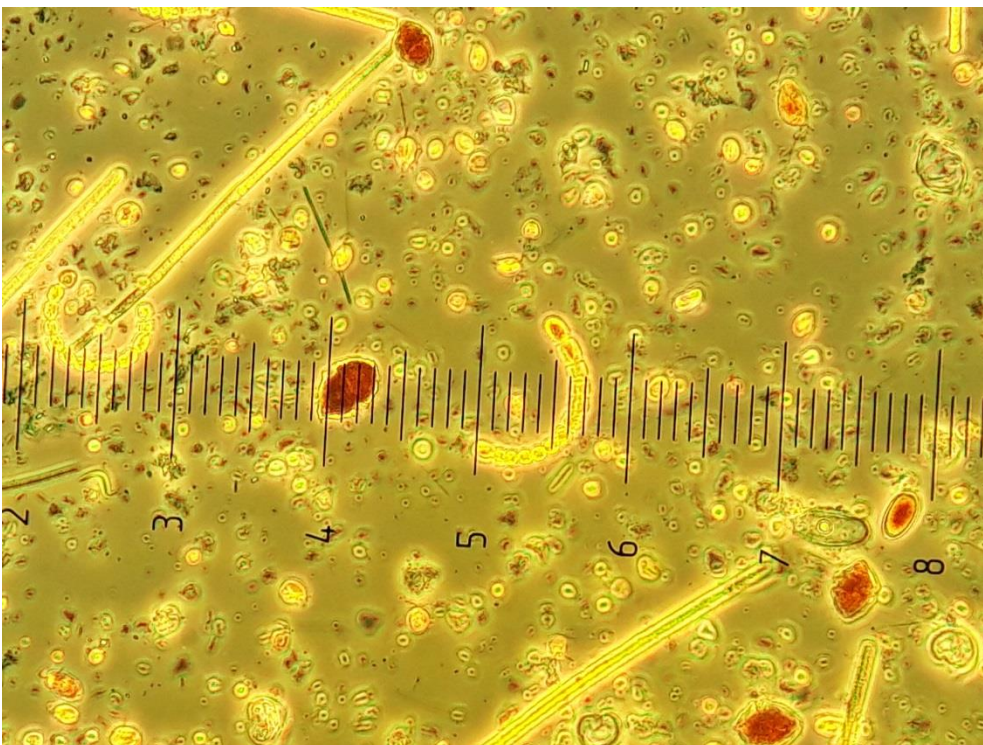
Heterocapsa triquetra

Nodularia spumigena

Dolichospermum spp.

Oscillatoriales/Synechococcales

Surface temperature 20,09 °C, chl-*a* 13,38 µg/l.



Brown cells of dinoflagellate *Heterocapsa triquetra* (size ca. 15 x 30 µm) and e.g. filaments of cyanobacteria *Aphanizomenon* and *Dolichospermum* in a sample collected from the Alg@line sampling point in front of Helsinki on 29.7.2019. Sirpa Lehtinen.