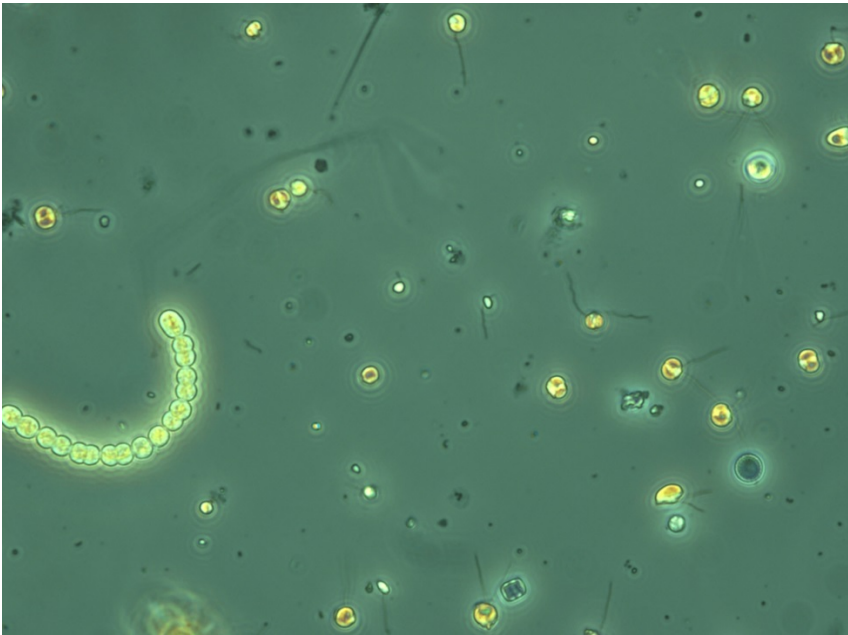


Phytoplankton composition in front of Helsinki, Gulf of Finland on 7.9.2015

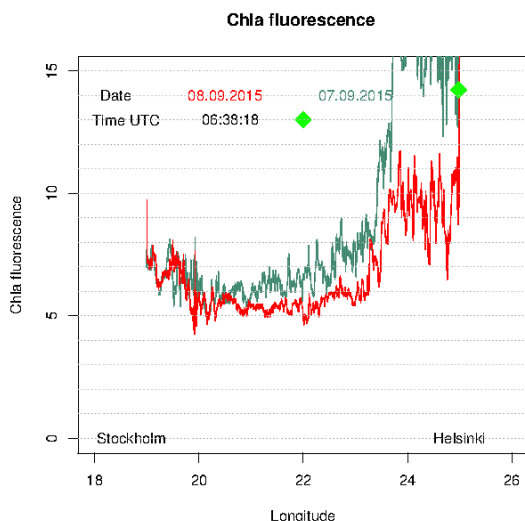
Sirpa Lehtinen & Heidi Hällfors, SYKE Marine Research Centre

Chlorophyll-*a* fluorescence measured with the Alg@line ferrybox system indicated a phytoplankton bloom in a wide area in front of Helsinki, Gulf of Finland. SYKE's research vessel R/V Aranda took samples on its way to Helsinki from a sampling point situated along the Alg@line route (Katajaluoto Lat 59,98746 Lon 24,89162).

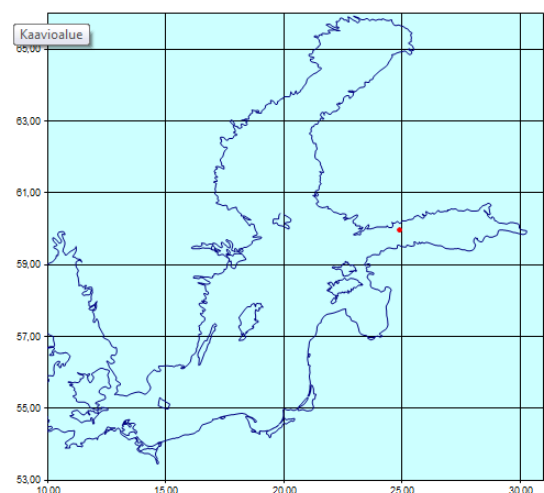
Based on the sample, the high amount of chl-*a* was formed by a diverse phytoplankton community of various nanoflagellates such as haptophytes (*Chrysochromulina sensu lato*), cryptophytes (*Teleaulax*, *Plagioselmis*, *Hemiselmis*), chrysophytes (*Pseudopedinella*), and diatoms (*Cyclotella choctawhatcheeana*). Also e.g. cyanobacterium *Aphanizomenon flos-aquae* and dinoflagellates *Dinophysis acuminata*, *D. rotundata*, and *Heterocapsa triquetra* were present.



Nanoflagellates and a "pearl necklace looking" filament of cyanobacterium *Dolichospermum* sp. in a sample taken in front of Helsinki on 7.9.2015. Photo: Sirpa Lehtinen/ SYKE.



Green line is chl-*a* fluorescence measured with the Alg@line ferrybox system along the ferry route between Helsinki and Stockholm on 7.9.2015 (Longitude is shown on x-axis). Red line shows the chl-*a* fluorescence on 8.9.2015 when the ferry returned from Stockholm to Helsinki. Figure by Alg@line/SYKE.



Sampling location in front of Helsinki, Gulf of Finland, is shown as a red spot on the map.