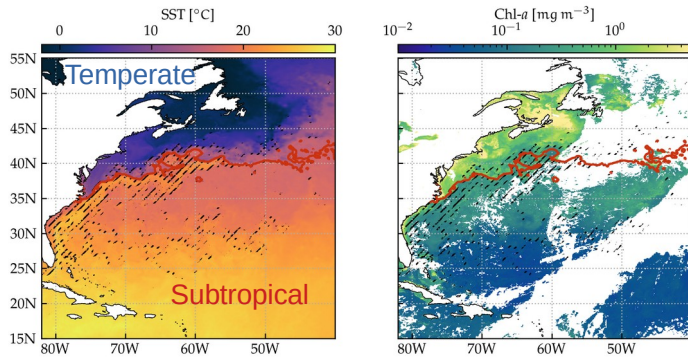
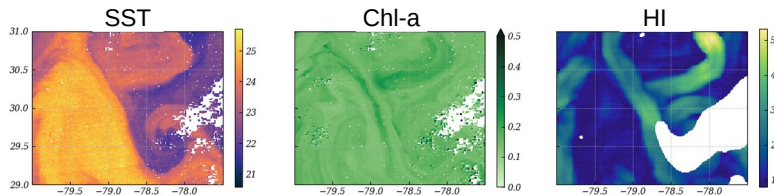


Are all phytoplankton groups responding the same way to sub-mesoscale frontal dynamics ?

1 The Gulf-Stream is split into a Temperate and a Subtropical region.

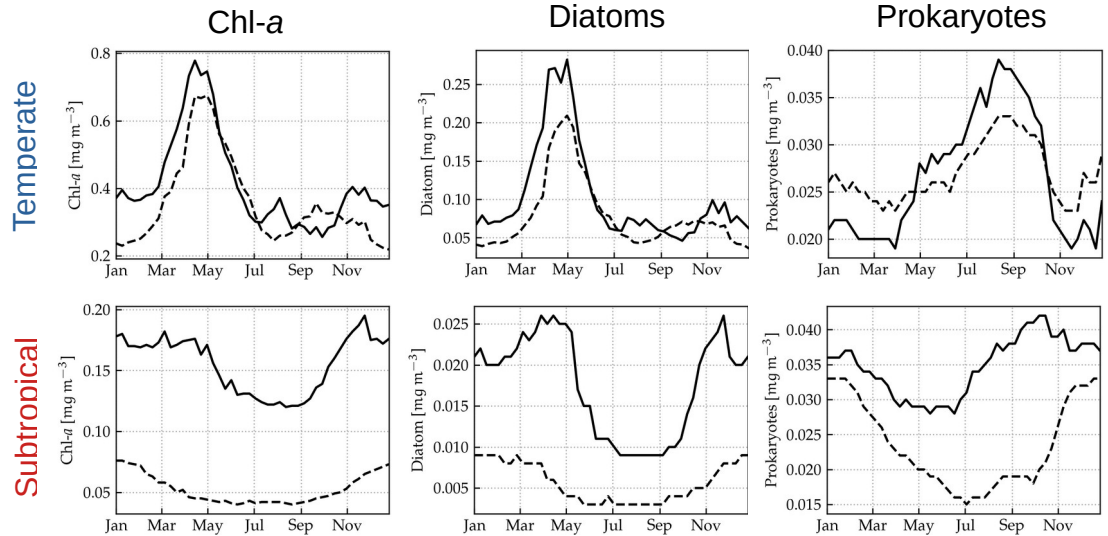


2 Sub-mesoscale fronts are identified from a SST-based Heterogeneity index (HI) [1].



3 Phytoplankton group composition is derived from an algorithm based on Self-Organizing Maps [2].

We compare median values over fronts to background median values.



The effect of fronts is noticeable and depends on the region, season, and phytoplanktonic functional type.