

Table S1. Initial (A) and final (B) pigment ratios for CHEMTAX taxonomic groups relative to chlorophyll *a*.

A. Initial ratios of pigment to chl <i>a</i>^a									
Class	perid	19butfu	fucox	19hexfu	neox	violax	allox	chl <i>b</i>	chl <i>a</i>
Prasinophytes	0 ^c	0	0	0	0.078	0.064	0	0.69	1
Dinoflagellates	0.690	0	0	0	0	0	0	0	1
Cryptophytes	0	0	0	0	0	0	0.360	0	1
Dictyochophytes	0	0.030	0.518	0.003	0	0	0	0	1
Haptophytes	0	0.008	0.150	0.647	0	0	0	0	1
Pelagophytes	0	0.355	0.135	0	0	0	0	0	1

B. Final ratios^b of pigment to chl <i>a</i>^a									
Class	perid	19butfu	fucox	19hexfu	neox	violax	allox	chl <i>b</i>	chl <i>a</i>
Prasinophytes	0 ^c	0	0	0	0.049 (0.015)	0.068 (0.020)	0	0.640 (0.235)	1
Dinoflagellates	0.690 (0)	0	0	0	0	0	0	0	1
Cryptophytes	0	0	0	0	0	0	0.281 (0.099)	0	1
Dictyochophytes	0	0.0160 (0.013)	0.586 (0.063)	0.0030 (0.000)	0	0	0	0	1
Haptophytes	0	0.008 (0.001)	0.139 (0.031)	0.684 (0.041)	0	0	0	0	1
Pelagophytes	0	0.558 (0.235)	0.212 (0.089)	0	0	0	0	0	1

^a Perid: peridinin; 19 butfu: 19' butanoloxifucoxanthin; focux: fucoxanthin; neo: neoxanthin; violax: violaxanthin; allox: alloxanthin; chl *b*: chlorophyll *b*; chl *a*: chlorophyll *a*.

^b mean of 4 bins (\pm standard deviation)

^c Pigment below detection limit.

Figure S1. Salinity, temperature and reconstructed chl *a* profiles. Salinity (A, B) temperature (C, D), and HPLC-corrected chl *a* fluorescence profiles (E, F) at stations M (A, C, E) and G (B, D, F) in the upper 50 m of the water column during the course of June 2015. Vertical chl *a* profiles were reconstructed based on HPLC-determined chl *a* and chl *a* fluorescence profiles.

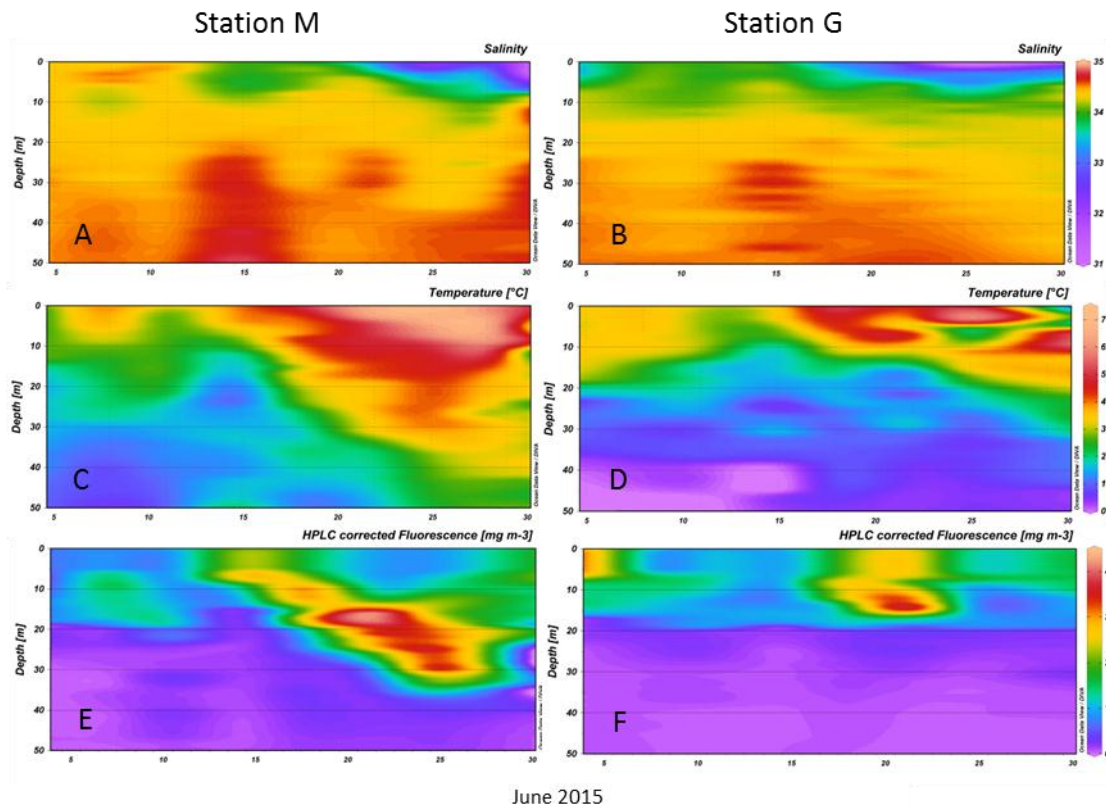


Figure S3. NMDS of phytoplankton composition. Non-metric multidimensional scaling (NMDS) of absolute phytoplankton composition in samples of 5 and 12.5 m obtained at stations M and G during the course of June. Circles indicate clustering. Cluster 1 shows a grouping of M and G during June 5 to 11; no difference between locations was observed for this period. Clusters 2 and 3 show all samples collected during the period of June 22 to 29 at M and G being significantly different. Stress is 0.11.

