



**Figure S9. Module eigengenes (MEs) display recurrent correlations with environmental variables across 2011 and 2012.** MEs (black lines) serve as a proxy for the collective abundance of its member oligotypes and are overlaid with their most strongly correlated environmental variable (dashed lines) (A-G) over Julian days represented on the x-axis. Inorganic nutrients are denoted blue dashed lines, chlorophyll *a* by green dashed lines and temperature by red dashed lines. ME trends are represented on the left y-axis and environmental variables on the right y-axis. *n* and *r* correspond to the total number of module oligotypes and Spearman correlation, respectively. *P*-values (*p*) are adjusted employing the method of Benjamini and Hochberg (1995). Correlations with inorganic nutrient  $\text{SiO}_2$  is indicative of oligotrophic conditions when primary production is negligible and correlations with chlorophyll *a* are indicative of eutrophic conditions during phytoplankton blooms.