



Figure S1 – Partial effects of individual environmental predictors derived from the best performing Generalized Additive Model (GAM) on CHL anomalies of each of the regions with similar CHL variability patterns obtained from the regionalization process. Only signification (p-value <0.05) predictors are shown. The solid line is the fitted model and grey shaded areas represent the 95% confidence intervals. The numbers in the labels of the y-axis denote the effective degrees of freedom (edf). Edf values of 1 indicate a linear relationship between the predictor and CHL anomalies. In each plot, the actual observations of the predictor are represented on the x-axis.