Appendix B: GAM results using modelled environmental variables

Note that Sec chi depths were not modelled and therefore not included in the analyses.
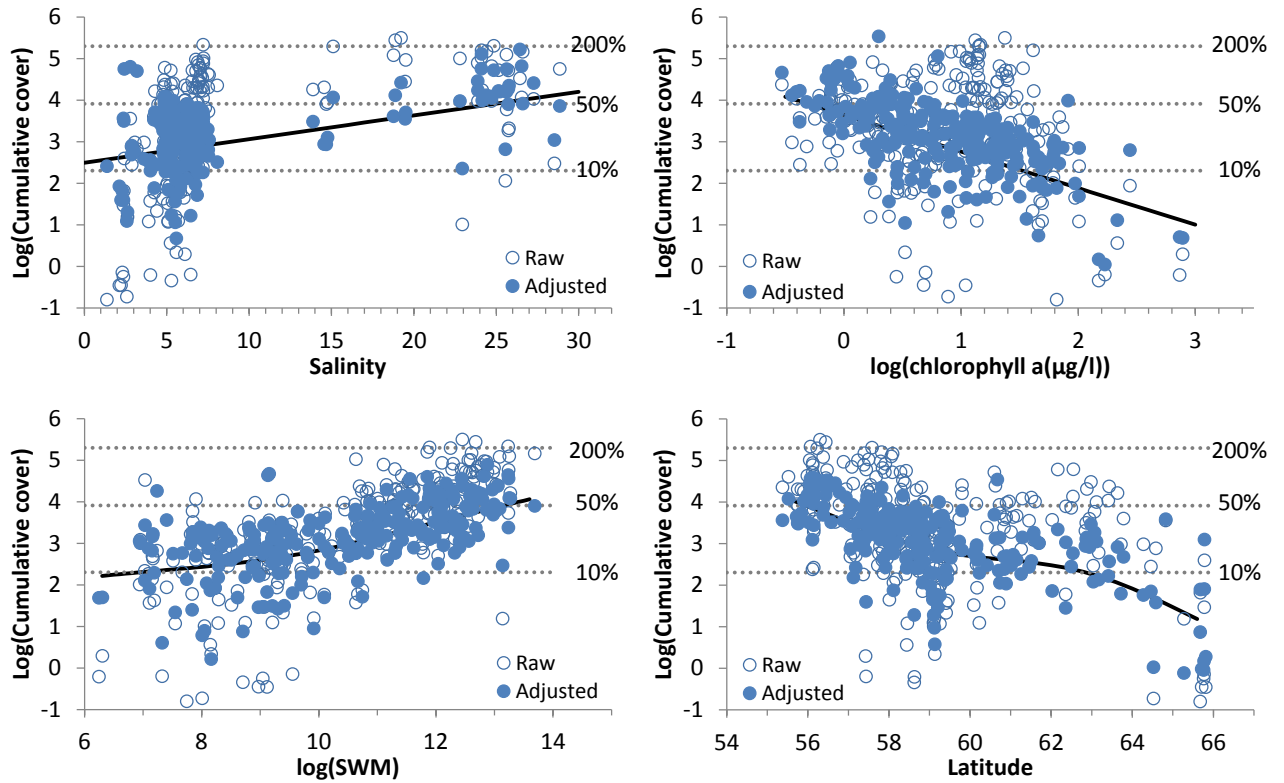

Figure A1. GAM relationships between area-specific means of macroalgae cumulative cover (log-transformed) and environmental variables obtained from models. Open symbols show the area-specific means (raw) and filled symbols show the means adjusted for variations explained by the other four factors in the GAM model. Expected mean cumulative cover was adjusted to average salinity of 6.5, log(SWM) of 10.1, log(chlorophyll) of 0.9, and latitude of 59°N. Adjusted means for cumulative cover could only be calculated for areas where data on all environmental variables were available. Statistics for the GAM are inserted in the salinity plot.
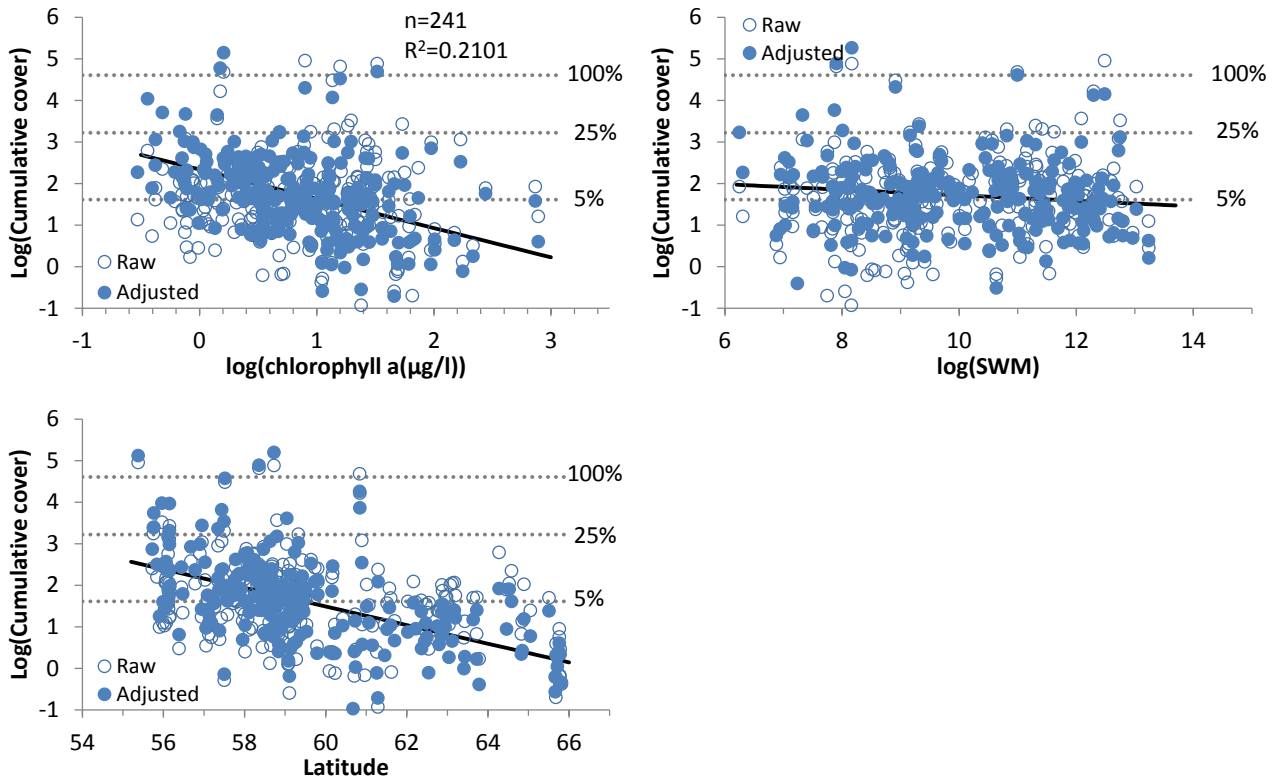
Figure A2. GAM relationships between area-specific means of angiosperm cumulative cover (log-transformed) and environmental variables obtained from models. Open symbols show the area-specific means (raw) and filled symbols show the means adjusted for variations explained by the other four factors in the GAM model. Expected mean cumulative cover was adjusted to average log(chlorophyll) of 0.9, log(SWM) of 10.1, and latitude of 59°N. Adjusted means for cumulative cover could only be calculated for areas where data on all environmental variables were available. Statistics for the GAM are inserted in the chlorophyll a plot.
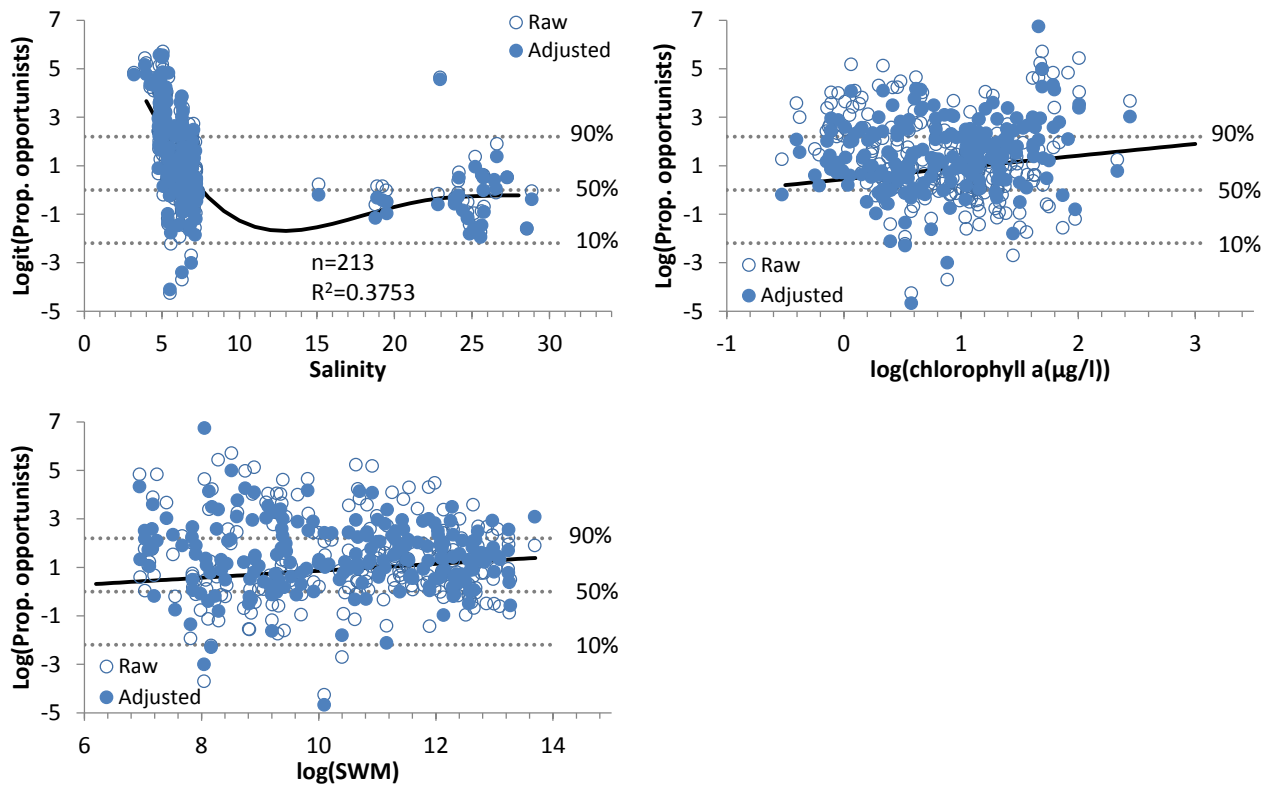
Figure A3. GAM relationships between area-specific means of proportion of opportunistic macroalgae (logit-transformed) and environmental variables obtained from models. Open symbols show the area-specific means (raw) and filled symbols show the means adjusted for variations explained by the other three factors in the GAM model. Expected mean proportion of opportunistic macroalgae was adjusted to average salinity of 6.5, log(chlorophyll) of 0.9, and log(SWM) of 10.1. Adjusted means could only be calculated for areas where data on all environmental variables were available. Statistics for the GAM are inserted in the salinity plot.
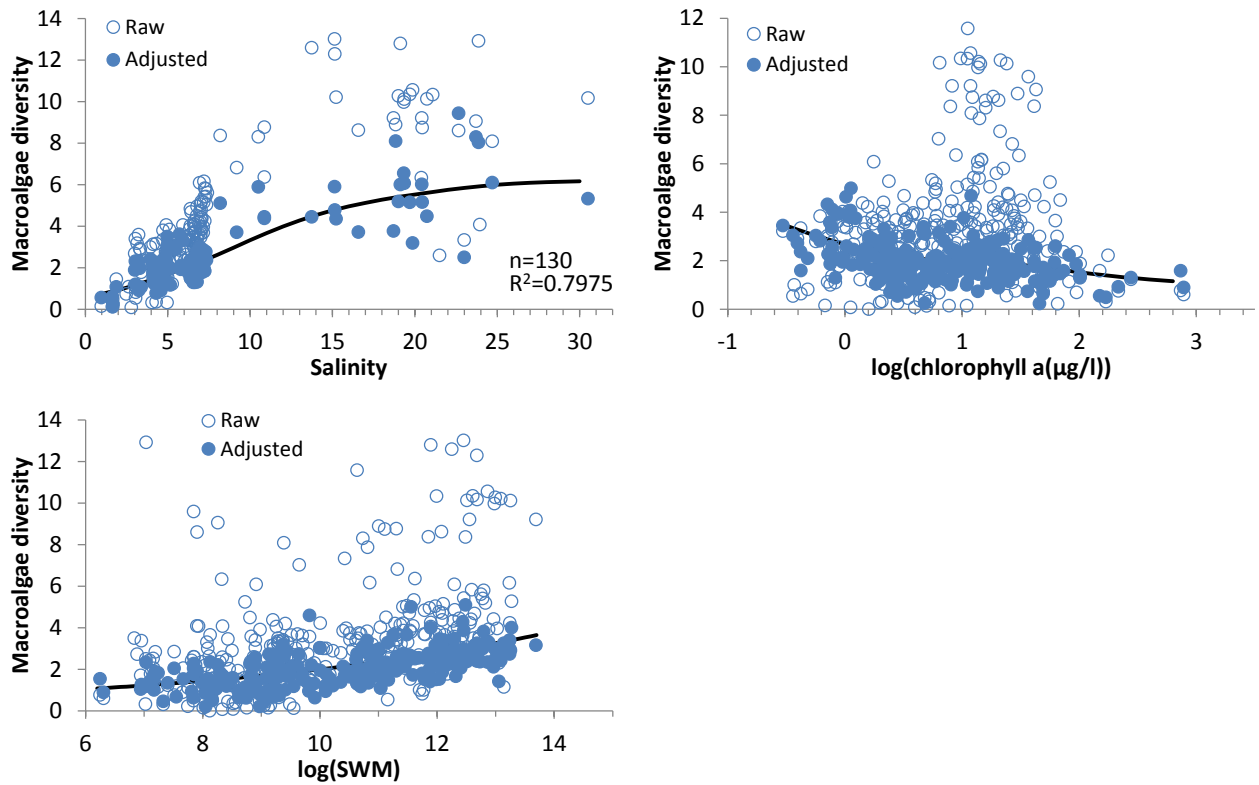
Figure A4. GAM relationships between area-specific means of macroalgae species richness (Poisson distributed with log-link) and environmental variables obtained from models. Open symbols show the area-specific means (raw) and filled symbols show the means adjusted for variations explained by the other three factors in the GAM model. Expected mean taxon richness was adjusted to average salinity of 6.5, log(chlorophyll) of 0.9, and log(SWM) of 10.1. Adjusted means could only be calculated for areas where data on all environmental variables were available. Statistics for the GAM are inserted in the salinity plot.