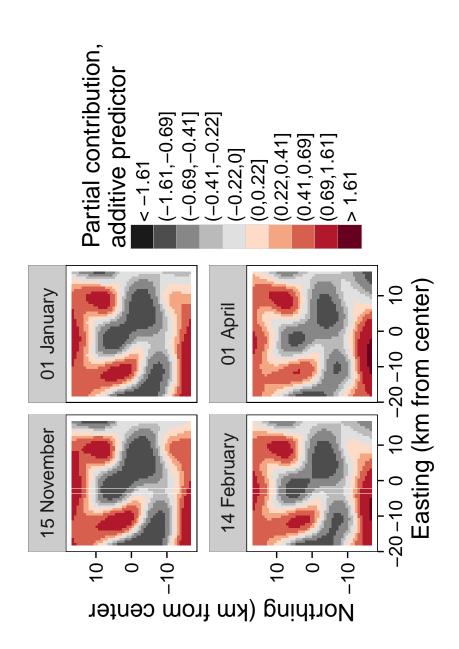
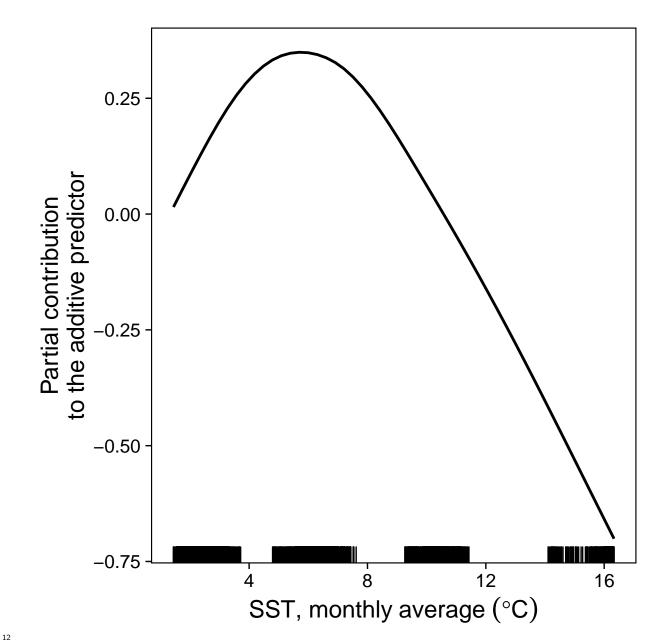
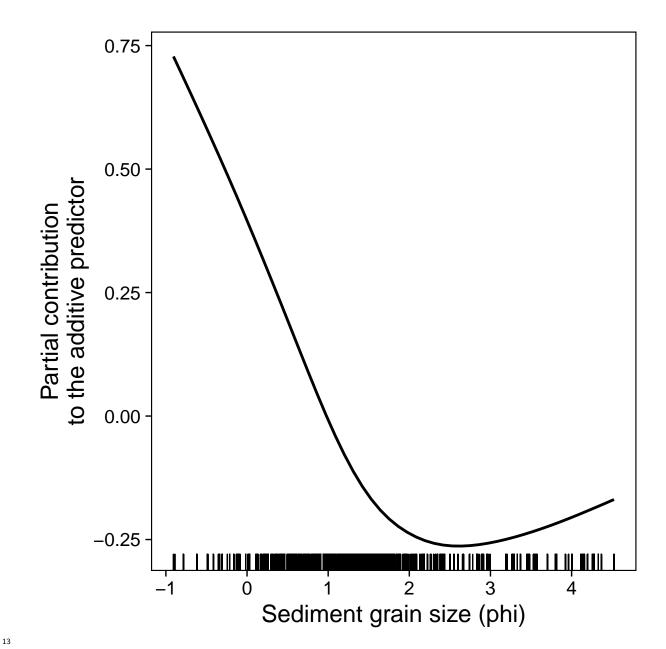
Appendix S5. Common Eider stable covariate effects

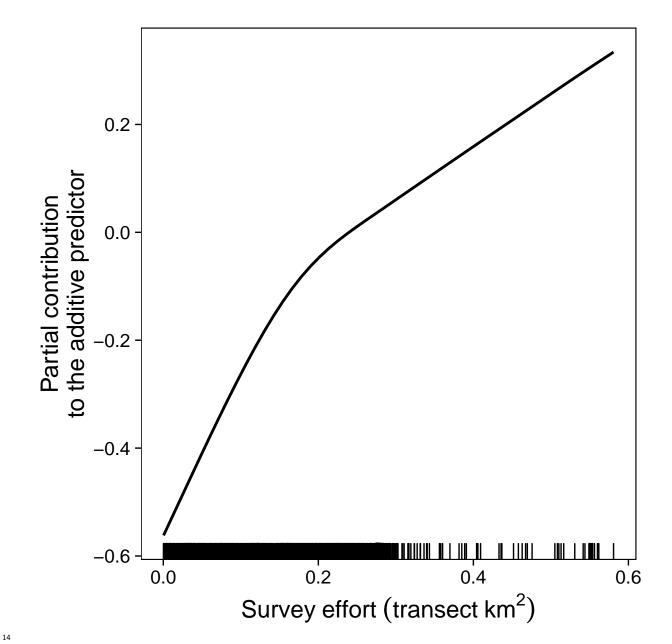
- ² Marginal functional plots of the relationships between covariates (controlling for all other
- variables; i.e., at their mean values) and the occupancy, conditional mean abundance,
- 4 and conditional overdispersion of abundance of Common Eider in Nantucket Sound, Mas-
- 5 sachusetts, USA. Covariate plots are ordered roughly in descending order of the magnitude
- 6 of their influence on the additive predictor in each model (or model parameter for count
- 7 models). Vertical lines along the x-axis (i.e., rug plots) indicate observed covariate val-
- 8 ues. Covariates (and any abbreviations) are defined in detail in Appendix S2; only effects
- 9 selected to be stable (see Appendix S1) are depicted.

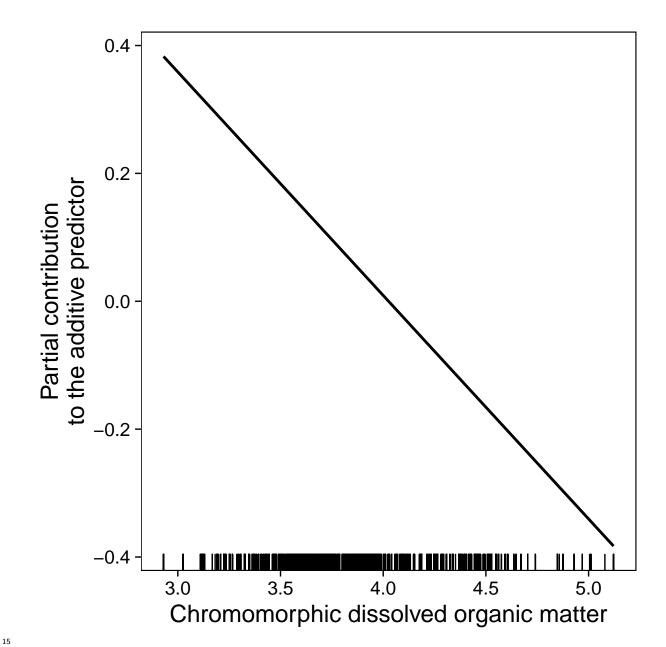
10 Occupancy

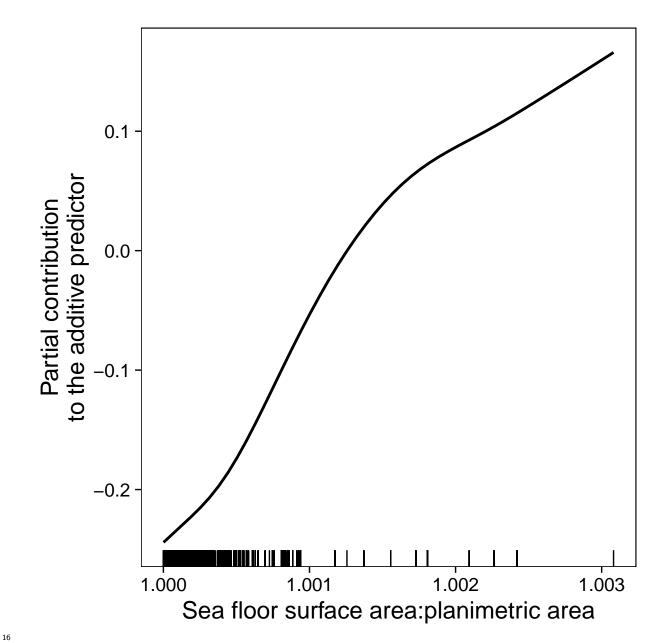


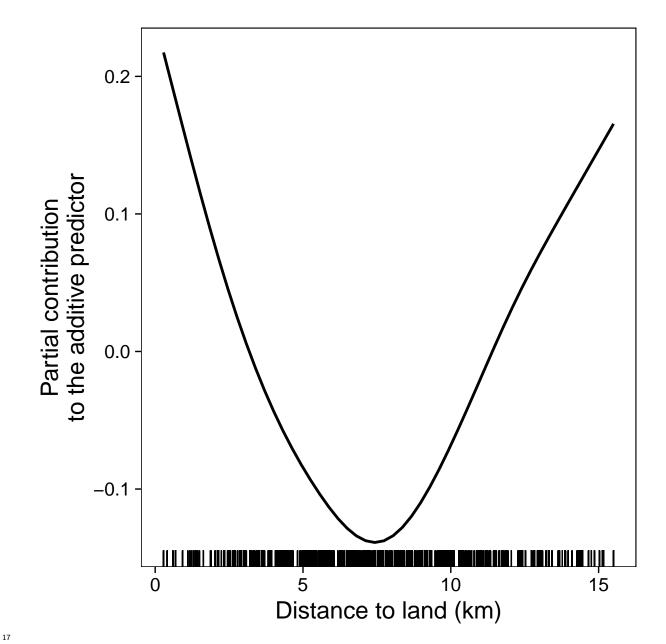


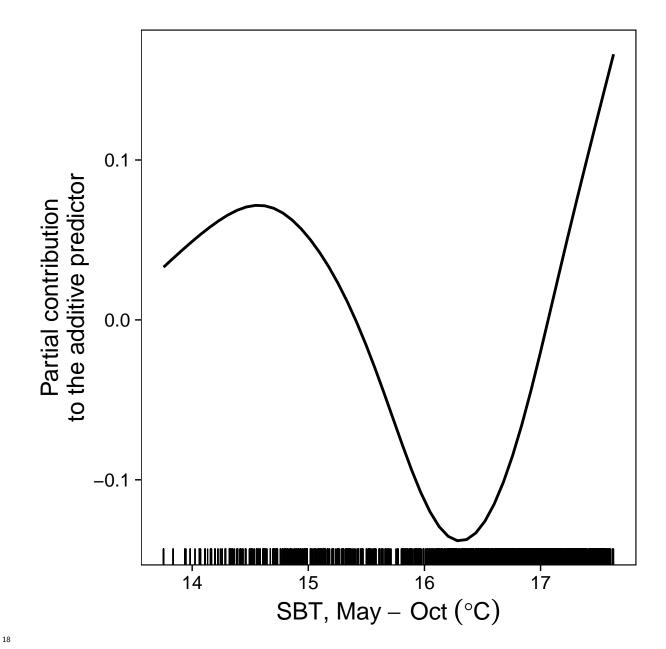


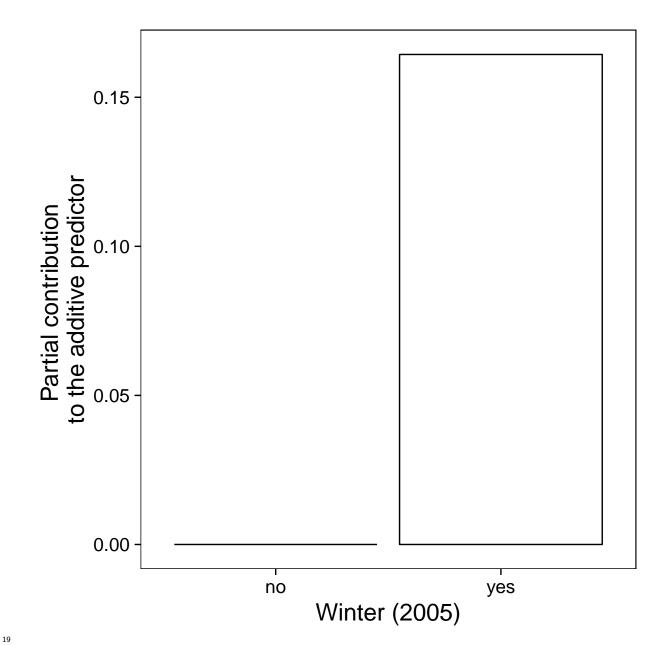




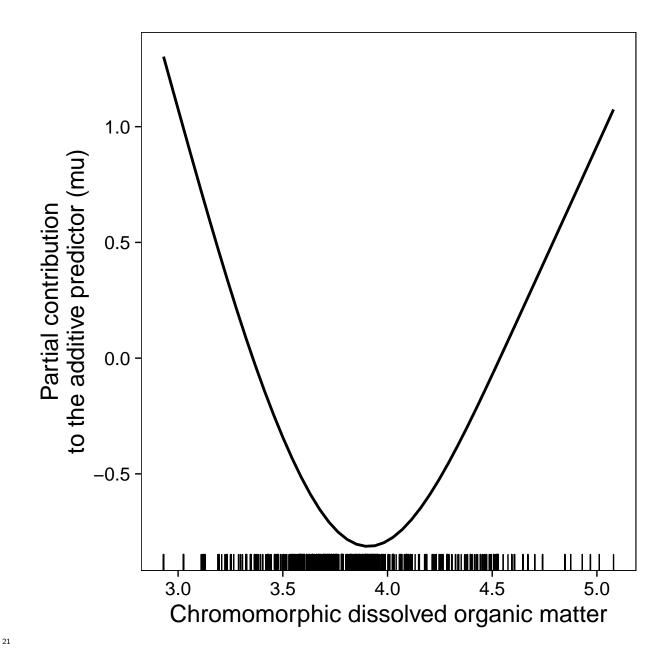


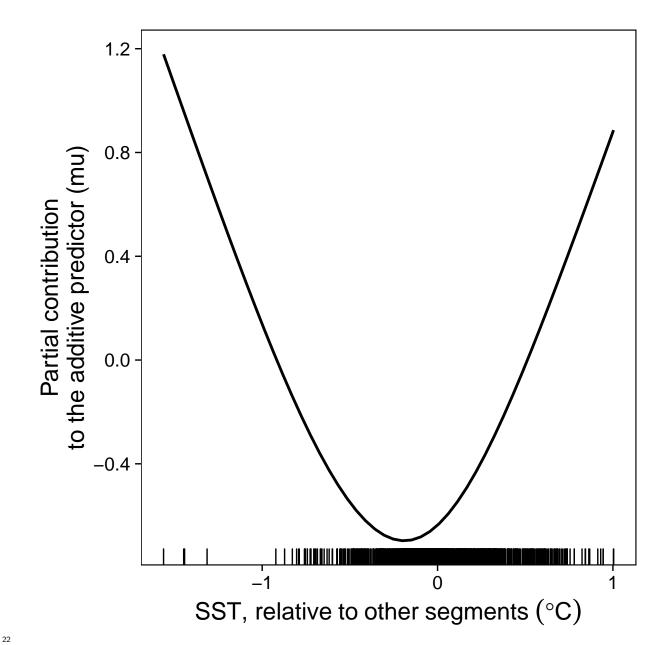


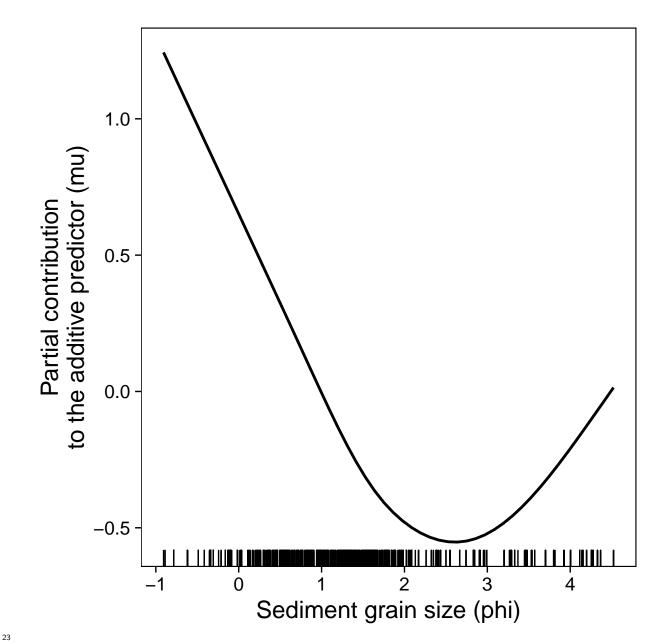


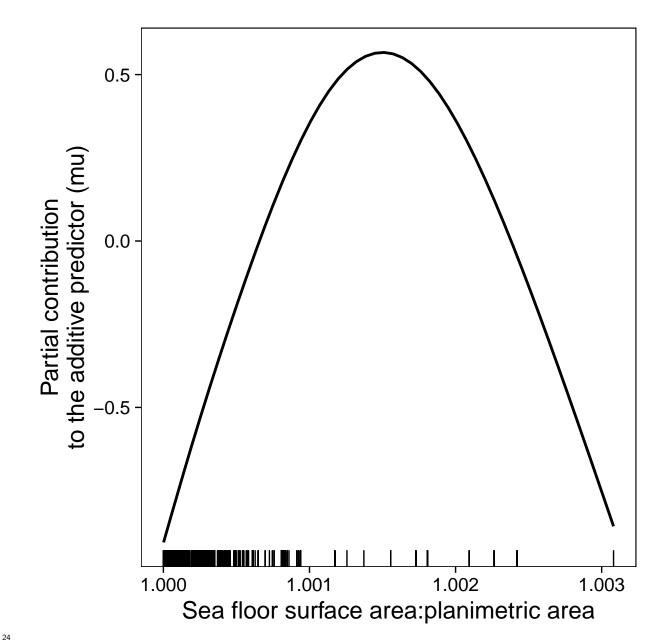


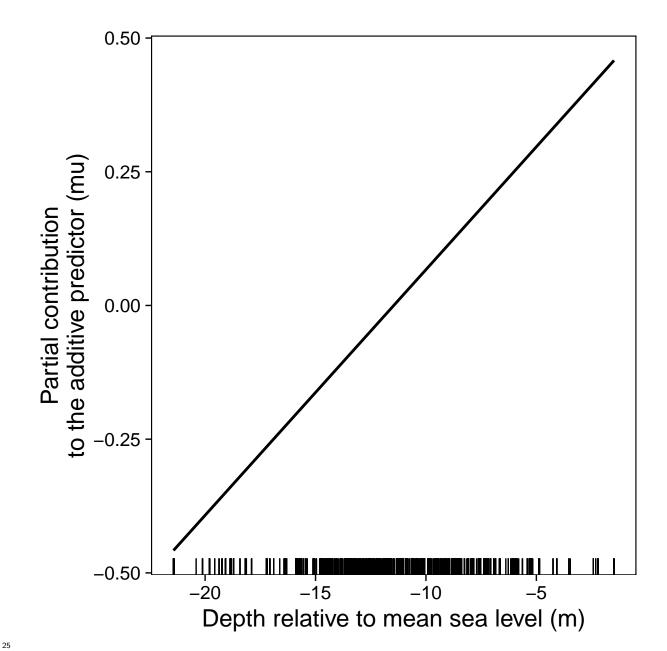
20 Conditional mean

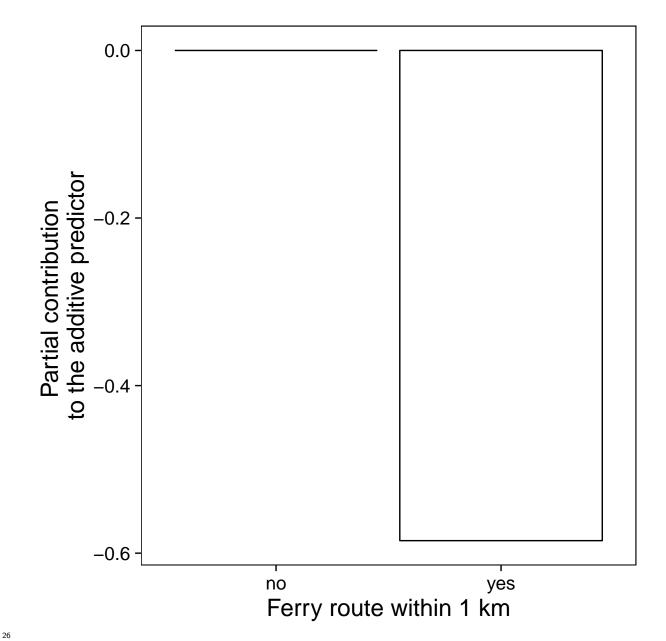












27 Conditional overdispersion

