

Appendix 8. Conditional overdispersion in sea duck abundance

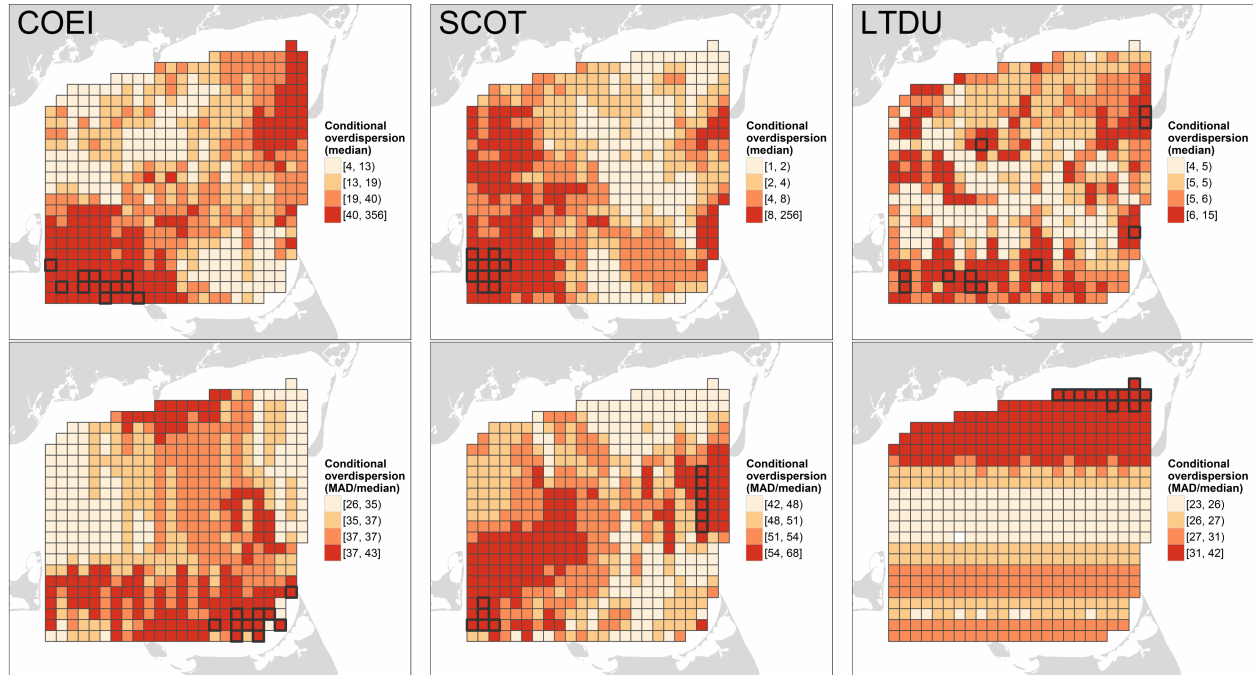


Figure 8.1. Median (first row) and median absolute deviation (MAD) relative to median (analogous to coefficient of variation; second row) of Common Eider (COEI), scoter (SCOT), and Long-tailed Duck (LTDU) conditional overdispersion (i.e., given sea duck presence) predicted at 10 dates evenly-spaced from 15 November and 1 April in three winters (2003 - 2005) of aerial surveys in Nantucket Sound. Predicted values are categorized based on their quartiles; segments with predictions ≥ 98 th percentile are outlined. Higher conditional overdispersion values indicate increased overdispersion (variance in excess of the mean in the negative binomial model) in counts of sea ducks, conditional on their presence, in a 1.5 km x ca. 180 m transect through the segment.