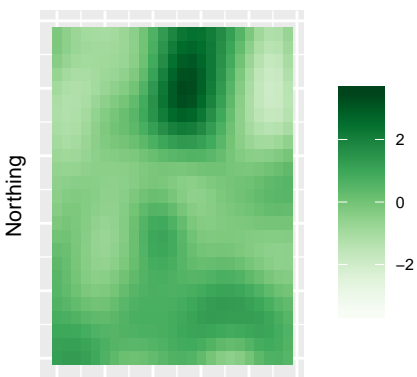
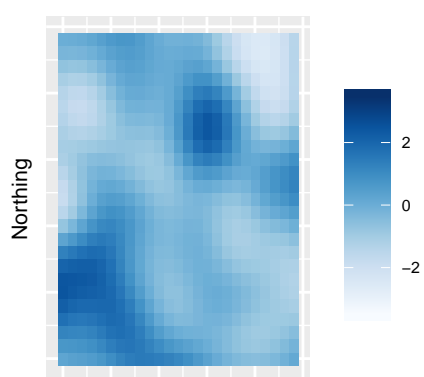
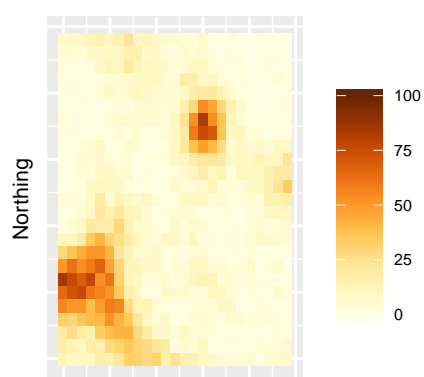
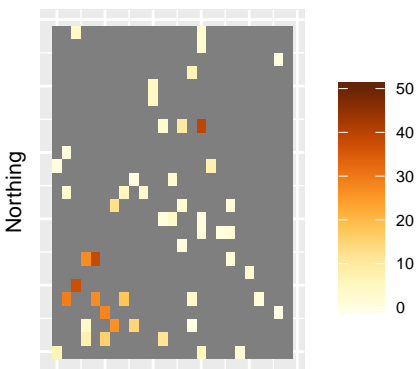
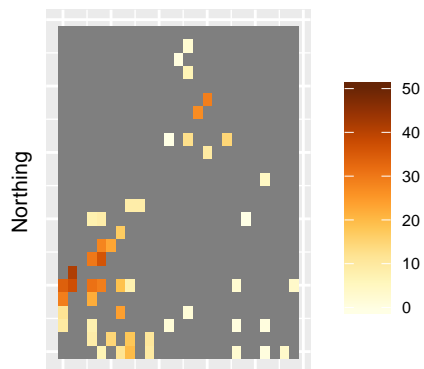
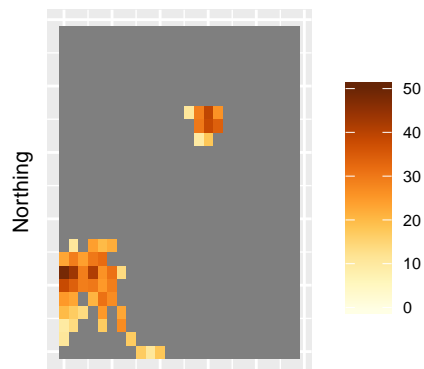
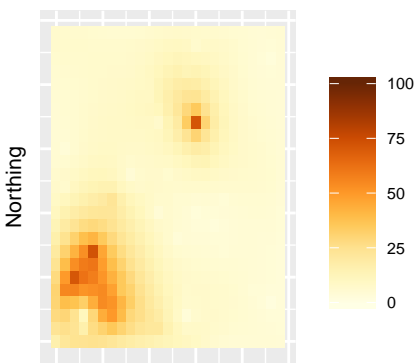
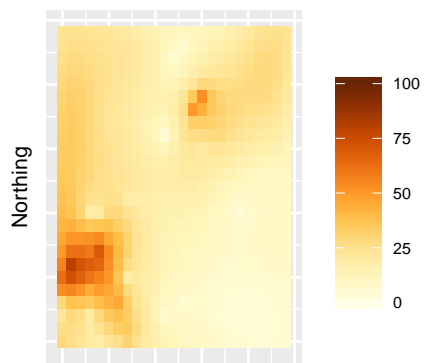


A. Covariate

B. Spatial random effects (δ_i)C. True abundance (N_i)D. Counts (Y_i), $b=0$ E. Counts (Y_i), $b=1$ F. Counts (Y_i), $b=3$ G. \hat{N}_i , $b=0$ H. \hat{N}_i , $b=1$ I. \hat{N}_i , $b=3$ 