Supplementary Information: Do we need detailed demographic data to forecast population responses to climate change?

Andrew T. Tredennick and Peter B. Adler

Andrew T. Tredennick (atredenn@gmail.com), Department of Wildland Resources and the Ecology Center, Utah State University, Logan, UT

Peter B. Adler, Department of Wildland Resources and the Ecology Center, Utah State University, Logan, UT

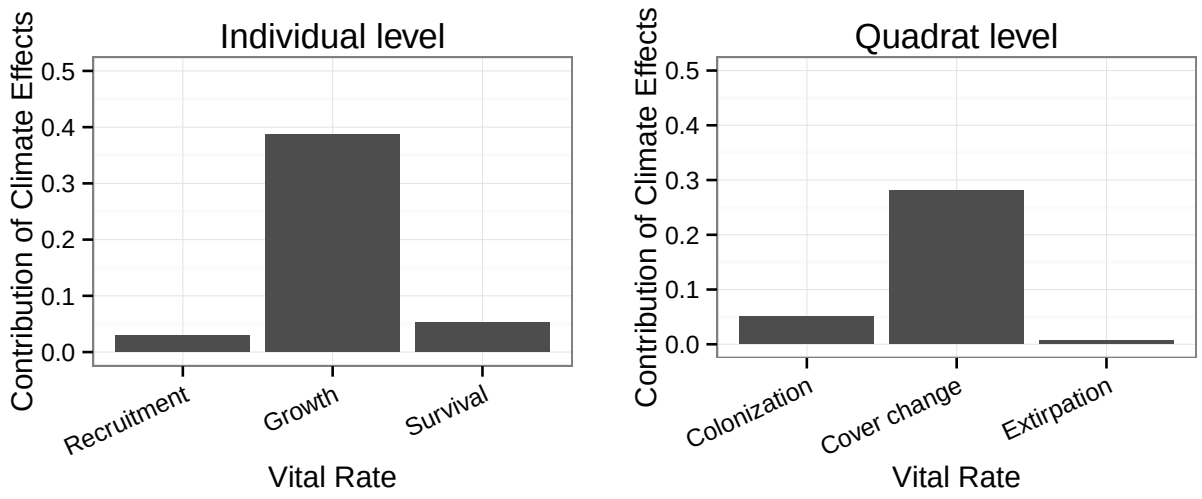

Figure 1: The proportion of interannual variability in vital rates explained by the climate covariates. The contribution for growth is defined as: (Climate model - Constant Model)/(Full model - Constant model). The contribution for survival and colonization, where we could not estimate a full model with year random effects at the quadrat level, is defined as: (Constant Model - Climate Model)/Constant Model.

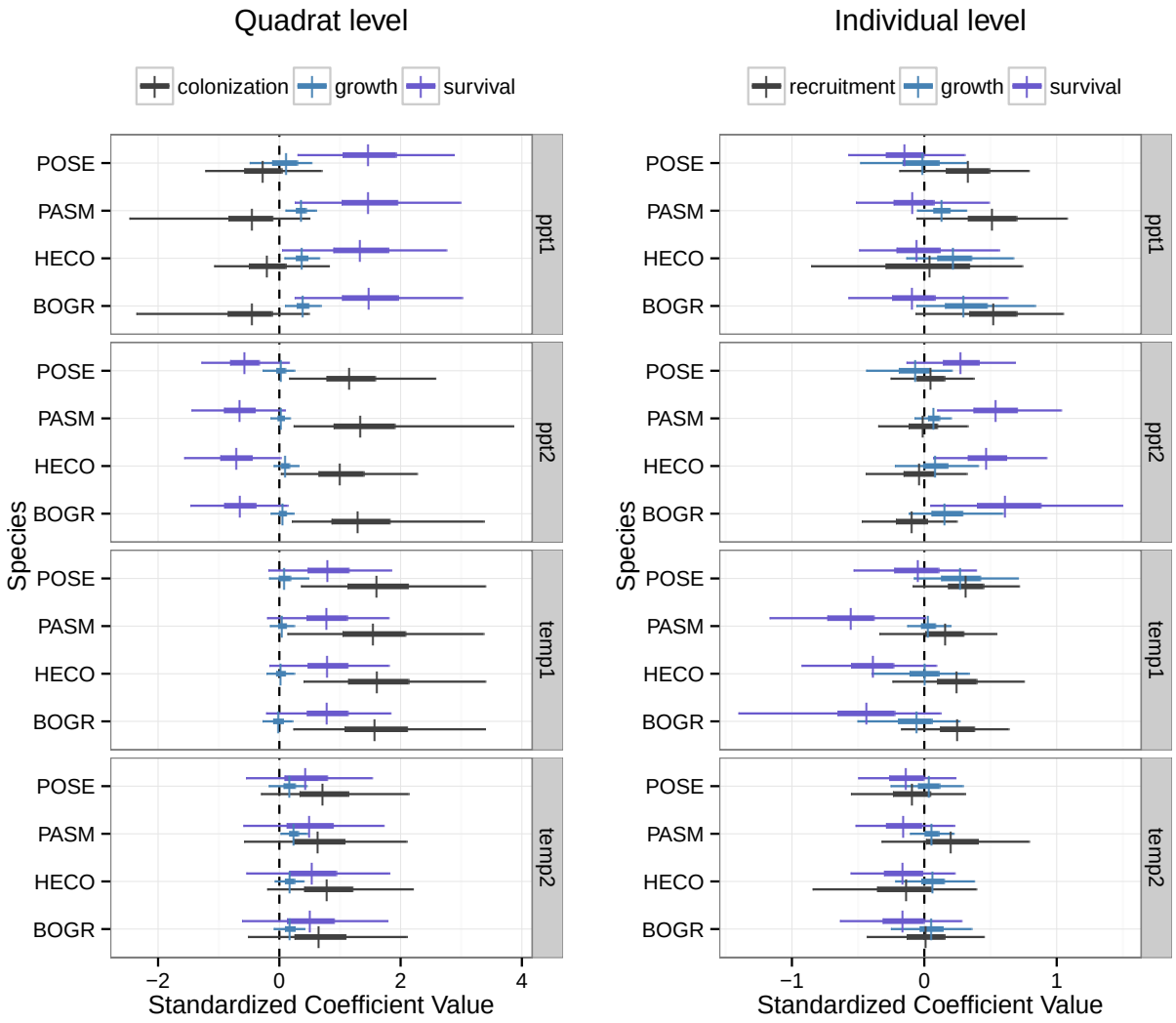

Figure 2: Posterior means (vertical ticks), 75% credible intervals (heavy lines), and 95% credible intervals (light lines) of climate effects on growth at both levels of inferences. The dashed vertical line is at 0, indicating no effect.