## Inferences on historical changes in body size are sensitive to population density

Robin Elahi October 31, 2017

Figures

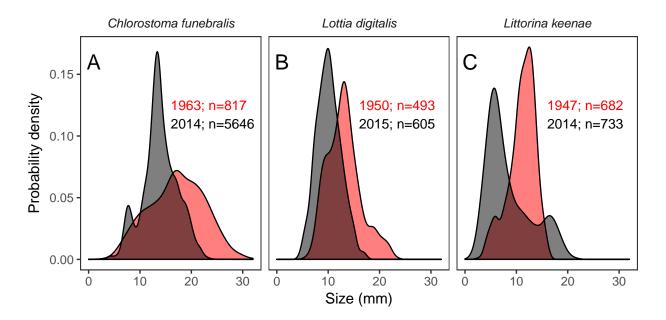


Figure 1: Probability densities of three intertidal gastropods sampled in the past and present.

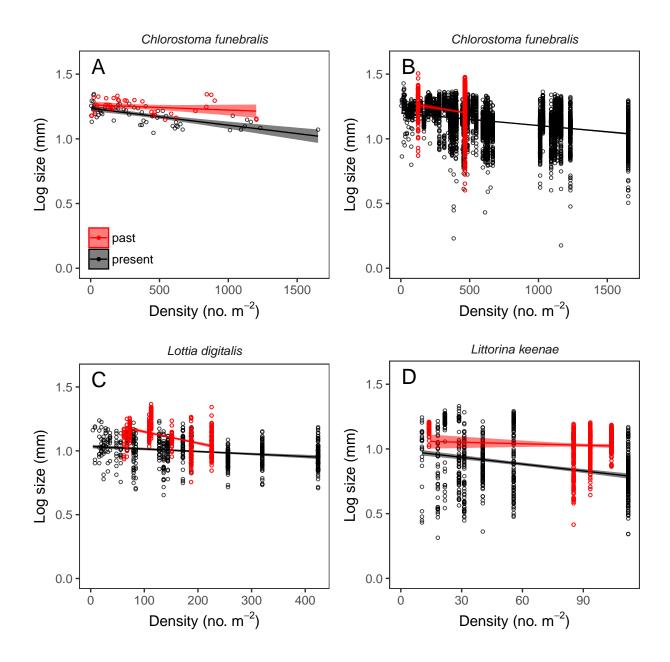


Figure 2: Gastropod size (log10) plotted against population density. For *Chlorostoma funebralis*, we present mean sizes (A), as well as raw data (B), because mean size was presented for a greater number of sampling units with estimates of population size (see Methods). Fitted lines represent Bayesian regressions with 95% credible intervals.

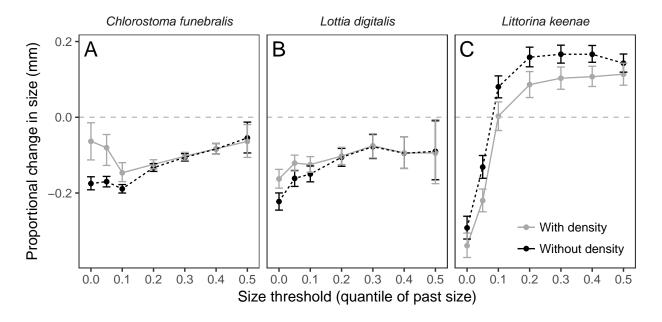


Figure 3: Proportional change in body size (relative to past size) derived from Bayesian regressions with and without coefficients for density and era x density. The x-axis represents the size threshold (i.e., minimum) for inclusion in the analysis, with 0 representing the baseline situation where no data were removed. For size thresholds > 0, we removed all individuals smaller than the size quantile i (i = 0.05, 0.1, 0.2, 0.3, 0.4, 0.5) for the historical population. Error bars represent 95% credible intervals.