



Supplementary Figure S1. Much of the interpretation presented in this study relied heavily upon the assumption of increasing water temperatures in estuaries in Texas over the observed period, particularly in winter. To test this assumption, we used temperature data associated with fishery-independent shrimp trawls ($n = 62,950$) collected in Texas' inshore areas by the Texas Parks and Wildlife Department over the observed period (starting in 1983, when per-bay trawl sampling size was standardized). Coast-wide trawl samples were pooled by year. We used trawl data for this analysis because (1) trawls are collected in every inshore grid in Texas, as opposed to seines and gill nets which are only associated with shoreline grids, and (2) the per-year sample size for TPWD shrimp trawls ($n > 1440$ in all years) provided a good coverage of temperature across all months in each year. The graph displays deviance from the long term mean of all recorded temperatures (gray bars) and winter temperature specifically (December – February; black bars). Least squares regression analysis resulted in a significant and increasing trend in temperature overall ($F_{35} = 15.3$, $p = 0.0004$) and in winter ($F_{35} = 4.2$, $p = 0.0469$).