

Supplementary Figure 1

A time series of correlation coefficients (r) between $1^{\circ} \times 1^{\circ}$ geographic grids of total annual effort reported in logbook and observer records of the Hawaii-based longline fishery from 1995 through 2014. When the time series of summed total annual effort were compared, logbook and observer data had an r value of 0.97. The time series of mean latitude and longitude of annual effort are both correlated with an r value of 0.97.