*Model Approach*

We used the Vectorized Auto-Regressive Spatio-Temporal model framework (Thorson, 2019; Thorson and Barnett, 2017) to model average length-at-age of female sablefish for each year at each survey station. A survey station is a unique combination of latitude and longitude from which fish were sampled in a given year. indicates that Alaska and the California Current utilized length-stratified sampling, where fished were binned into pre-specified 1 cm bins from which equal numbers of fish were aged. We corrected for the stratified-sampling aging effect for these regions as in **Bettoli and Miranda (2001).** This corrected mean length becomes our response variable, which is then modeled as a continuous function, which assumes a lognormal error distribution of this response.