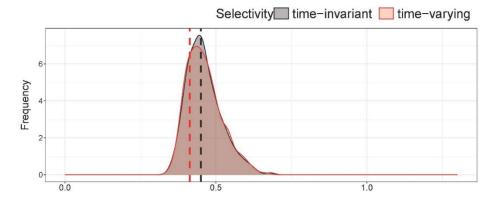
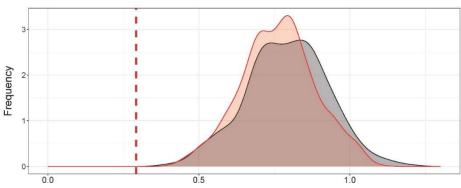
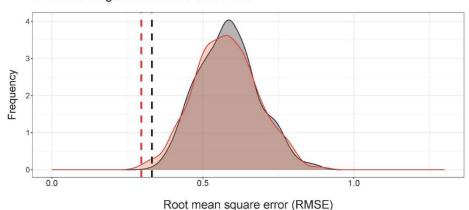
A Japan longline index for 1974-1992



B Japan longline index for 1993-2016



C Taiwan longline index for 2000-2016



Supplementary Figure

The comparison of the root-mean-square errors (RMSE) estimated from the ASPM-R-FIX models which included recruitment indicated by the recruitment index from the Sea of Japan (vertical dash lines) with associated RMSEs estimated from the 500 ASPM-R-FIX models with these recruitment deviations fixed at random samples (distributions) for all recruitment levels for each index. (1) the fleets' selectivities were constant over time, and (2) the fleets' selectivities varied over time.