



Supplemental Material

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Seasonal-to-Decadal Variability and Prediction of the Kuroshio Extension in the GFDL Coupled
Ensemble Reanalysis and Forecasting System
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Supplemental Material for “Seasonal-to-decadal variability and predictability of the Kuroshio Extension in the GFDL Coupled Ensemble Reanalysis and Forecasting system”

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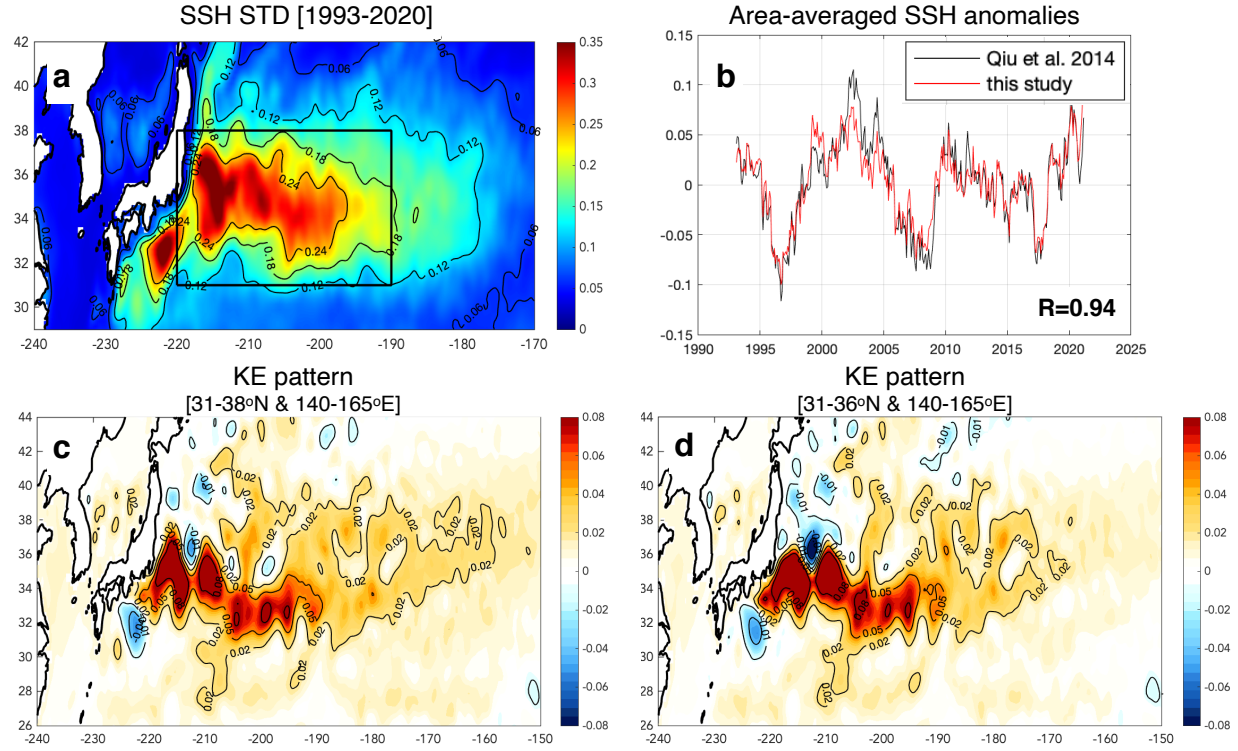


Figure S1. Choice of the KE region in this study. (a) Zoomed-in standard deviation map of the North Pacific SSH anomalies. (b) A comparison of the KE indices that are differently defined depending on the regions (e.g., Qiu et al. 2014 vs. this study). (c-d) KE patterns as regression coefficients between SSH anomaly field with the KE index (area-averaged SSH anomalies over the KE region). SSH anomalies are obtained from CMEMS satellite altimeter.

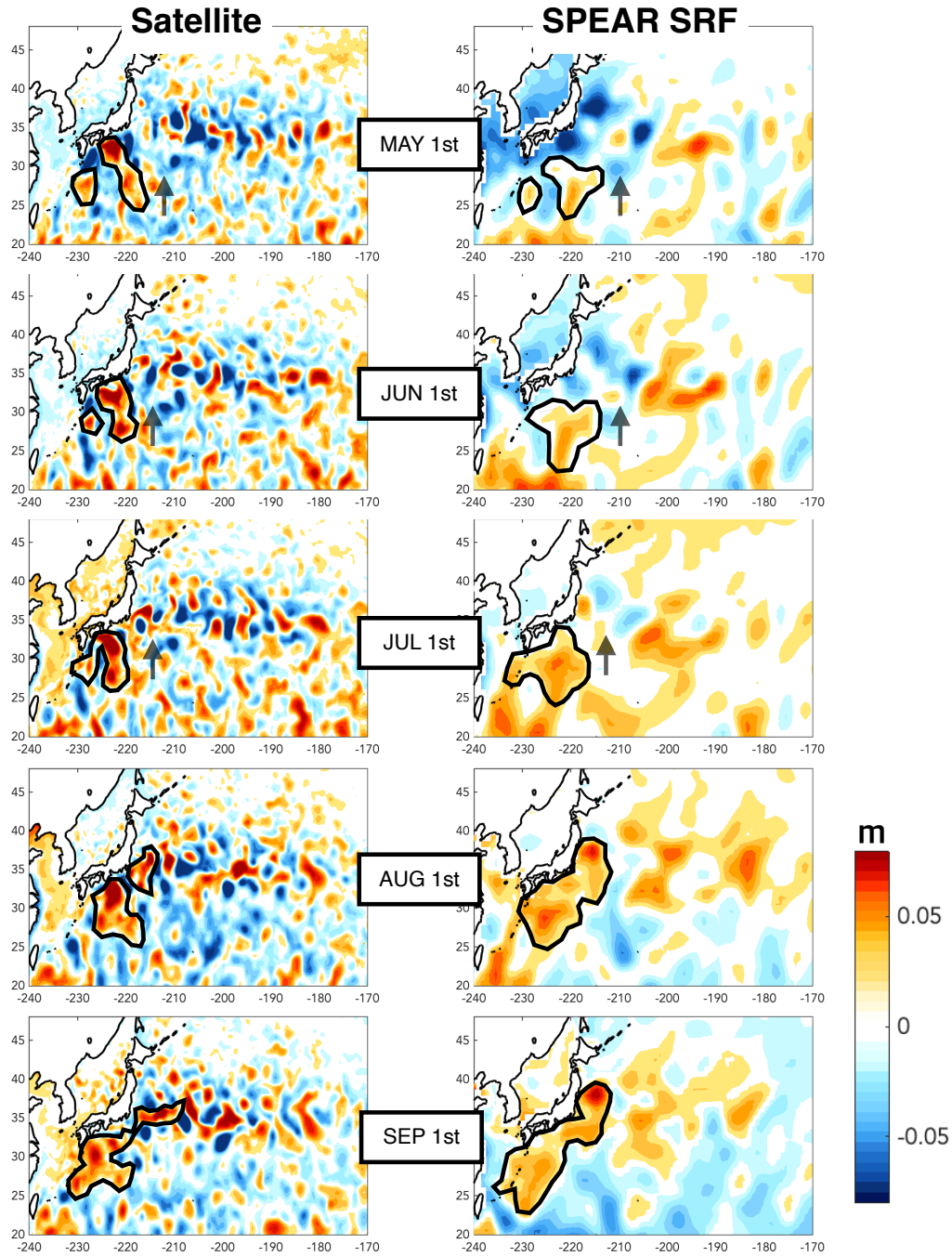


Figure S2. Progression of daily SSH anomalies from May to October 2017 over the Western Boundary Current system from observation (left column) and seasonal forecasts (right column) initialized in January 2017. The solid black line denote the evolution of intense warm meanders reported in Qiu et al. 2020.