

The Observed and Simulated Temperature and Salinity Structure of the Kuroshio

Guihua Wang¹, Baogang Jin^{1,2} and Huizan Wang^{1,2}

¹*State Key Laboratory of Satellite Ocean Environment Dynamics, Second Institute of Oceanography, SOA, Hangzhou, Zhejiang, China.*

²*Institute of Meteorology, PLA University of Science and Technology, Nanjing, Jiangsu, China.*

Based on observations from Argo, drifter and SCUD dataset and model output from OFES, this study analyzes the water properties, temperature and salinity structure of the Kuroshio. There exist distinct variations in the forms and thickness of the upper layer structure both in time and in space. The upper ocean horizontal and vertical structures' differences between observation and model are also analyzed. This work should be useful to understand the dynamics and thermodynamics of the Kuroshio.