

Workshop on turbulent mixing in the Kuroshio current over the topography

Place: Conference room at 2nd floor, RIAM, Kyushu University

Date: February 1, 2020

Purpose:

- 1) Share and discuss the analyzed results of the observations and numerical simulations of turbulent mixing processes in the Kuroshio current
- 2) Define the outline of several manuscripts
- 3) Discuss the future direction of our research cruise

Time Table:

10:30 Takahiro Endoh (RIAM, Kyushu University): Opening remarks

10:35 Sen Jan (IO, National Taiwan University): Seasonality of mixing in the Kuroshio east of Taiwan

11:05 Ming-Huei Chang (IONTU): Recent observations of small-scale processes above I-Lan Ridge

11:35 Eisuke Tsutsumi (AORI, The University of Tokyo): Strong turbulent mixing induced by Kuroshio-topography interaction and its tidal modulation at the I-Lan Ridge: observation and numerical simulation

12:05-13:30 Lunch time

13:30 Yiing Jang Yang (IONTU): Results of mooring observations on the I-Lan Ridge

14:00 Jia-Lin Chen (National Cheng Kung University): Instability waves forced by unsteady shear flow in stratified ocean

14:30 Takeyoshi Nagai (Tokyo University of Marine Science and Technology): Three-dimensional mapping of turbulent dissipation rates in the Kuroshio near I-Lan Ridge and in Tokara Strait

15:00-15:15 Coffee break

15:15 Jie Gao (CMES, Ehime University): Motion and commotion due to a seamount in the Kuroshio and their effects on nutrient transport

15:45 Xinyu Guo (CMES, Ehime University): Temporal variations of nutrient concentration east of Taiwan

16:15 Discussion (Chairman: Xinyu Guo)

16:45 Takahiro Endoh: Closing remarks