

Workshop on turbulent mixing in the Kuroshio current off Taiwan

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

Date: January 24, 2019

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 a plan for the research cruise in July

Time Table:

10:30 Takahiro Endoh: Opening remarks

10:40 Sen Jan: Characteristic of turbulence in the Kuroshio upstream of I-Lan Ridge

11:10 Yiing Jang Yang: Observations of internal solitary waves on the I-Lan Ridge in the center of Kuroshio

11:40 Ming-Huei Chang: Observations of flow instability and turbulent mixing around sill in the I-Lan Ridge

12:10-13:30 Lunch time

13:30 Takeyoshi Nagai: Large energy sink through submesoscale instability caused by the Kuroshio flowing over seamounts in the Tokara Strait revealed by tow-yo microscale turbulence measurements

14:00 Jia-Lin Chen: Flow dynamics and variability over sharply sloping topography in the I-Lan Ridge

14:30-14:50 Coffee break

14:50 Chih-Lun Liu: A preliminary 2D simulation of a flow over the sill above I-Lan Ridge

15:20 Eisuke Tsutsumi: Quasi-realistic numerical simulations of Kuroshio-tide-topography interaction at I-Lan ridge

15:50 Discussion

17:00 Takahiro Endoh: Closing remarks