

紀伊半島沖黒潮域の海底水圧の時空間変動

Spatio-temporal variation of water pressure on the sea bottom in the Kuroshio region south of Kii Peninsula

*小松 幸生^{1,2}、吉田 聡³、有吉 慶介⁴*Kosei Komatsu^{1,2}, Akira Kuwano-Yoshida³, Keisuke Ariyoshi⁴

1. 東京大学大学院新領域創成科学研究科、2. 東京大学大気海洋研究所、3. 京都大学防災研究所、4. 海洋研究開発機構

1. Graduate School of Frontier Sciences, The University of Tokyo, 2. Atmosphere and Ocean Research Institute, The University of Tokyo, 3. Disaster Prevention Research Institute, Kyoto University, 4. Japan Agency for Marine-Earth Science and Technology

Profiles of water mass and horizontal current-velocity were observed from the sea surface down to the bottom on the 13 points of the Dense Ocean floor Network system for Earthquakes and Tsunamis (DONET) arranged south of Kii Peninsula, in the cruise of the R/V Shinsei-maru conducted in October 10-21, 2018. The cruise also conducted one-day continuous profiling on the two DONET points. The main purposes of this cruise were to elucidate the spatio-temporal variation of water pressure on the sea bottom associated with the mesoscale eddies and sub-mesoscale frontal disturbances in the Kuroshio region, and to validate the accuracy of detecting several oceanic events followed by fluctuation of the Kuroshio current-path by DONET from the ocean floor, as part of the observational campaigns. In the cruise period, the Kuroshio has taken a large meander path for the first time in twelve years. Therefore, the Kuroshio flowed far away from Kii Peninsula and all the DONET points were covered with the slope waters. We will discuss the capability of DONET to detect relatively calm events in the slope waters on the northern side of the Kuroshio front as an exceptionally rare case.

キーワード：黒潮、DONET、水圧、黒潮大蛇行

Keywords: Kuroshio, DONET, water pressure, Kuroshio large meander