

海底エクマン層の厚さの推定

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Abstract

Current meter data from various depths near the sea bottom collected for about 1 year at time intervals of 1 hour using subsurface buoy system at a depth at 2,257m on the southeast off of Minami-torishima island, Japan have been analyzed. The results show the existence of Ekman layer in May. During this month, Ekman layer thickness and eddy viscosity are estimated using the angle between 3m and 5m above the sea bottom as follows;

Ekman layer thickness: 4.4~7.4m; Eddy viscosity: 0.5~1.4cm²/sec