

Distribution of density and porosity of sediment across the western Nankai accretionary prism

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In September 1999, precise heat flow survey was carried out by NEDO across the Nankai accretionary prism off Cape Muroto and five sediment core samples were obtained. Preliminary results are: 1) averaged density sampled at the deformation front was larger than that sampled at the trough, suggesting that there is active dewatering of sediment by accretion of sediment along the deformation front. 2) Low density was measured from the core sample recovered at OST (Out-of-Sequence Thrust), suggesting a possibility of the effect of cold seepage at OST.