

Horizontal variation of surface sediment physical properties at Nankai accretionary prism

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We carried out a set of physical properties measurement for piston core samples obtained across the western Nankai accretionary complex. A sudden decrease in porosity was observed landward of the deformation front. It corresponds to the beginning to pore fluid squeezing according to the beginning of accretion of turbidite sediment on the trough floor. Other properties such as bulk density and thermal conductivity showed similar result.