

MIS001-P01

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Detailed observation of topography and geologic architecture on a submarine landslide scar in a toe of an accretionary p

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This paper deals with detailed geologic and topographic features of a recent three submarine landslides on a convergent margin. We surveyed a submarine landslide scar on a toe of the Nankai acretionary prism, SW Japan, using the remotely op-erative vehicle (ROV) KAIKO7000II (7K). The water depth is 3200-3800 m. The total volumes of moved masses are 3.3, 30.6 and 11.3 km3. During the dive sur-vey, the 7K found debris blocks fractured by two directions of joints. These result from retrogressive small collapses at the landslide scar. Seeps being bacterial mats were observed at the top of the scar. These are related to be a formation of the slide.

Keywords: ROV KAIKO7000II, Bacterial mats, Nankai trough, prism toe