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MIS001-03

Room:304

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Anatomy of a thick (~70 m) submarine land slide discovered at Kashinozaki Knoll in the Nankai Trough

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The IODP Expedition 333, a part of NanTroSEIZE project, was operated during December 2010 to January 2011. Three sites including subduction input (Sites C0011 and C0012) and submarine landslide (C0018) were drilled. Site C0012 is located at the top of Kashinozaki Knoll, basement high of the northernmost part of the Philippine Sea Plate in off Kumano region in the Nankai Trough. From 15 to 85 m CSF of Hole C0012C, a steeply-dipping interval (dipping angles of 40-70 degrees to southeastward) probably correspondent with a thick landslide (slump) is discovered. We show the anatomy of this landslide based on the review of shipboard structural, litho- and magneto-stratigraphical, geochemical, and physical property measurement.