Coring disturbances with the riser drilling system of the D/V Chikyu during IODP Exp. 337 off Shimokita, Japan

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Coring disturbances were observed using the riser drilling system of the D/V Chikyu during IODP Exp. 337 off Shimokita, Japan. Injections of drilling mud and fluid with high density and pressure used in riser drilling during Expedition 337 caused complications to visual core observations. Semiconsolidated materials were commonly observed in this Hole, and drilling mud often easily penetrated the semiconsolidated sandstones and siltstones, causing possible false lamination structure in the cores, which might be misinterpreted as natural sedimentary structure preserved in the cores. Here, we report various kinds of coring disturbances which were observed on board with riser drilling system.

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