

Huge Data Related to Site Survey and Logging Data Integration of D/V Chikyu

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Drilling Vessel (here after D/V) Chikyu has launched in June 29th 2005 and did shakedown cruises to be ready for international operation by developing new and state of the art technologies. D/V Chikyu started a first Integrated Ocean Drilling Program (here after IODP) expedition in Nankai Trough from Oct in 2007 and has been carried out 16 challenging expeditions. Targets are Seismogenic Zone of Nankai Trough and Japan Trench, Deep Biosphere off Shimokita and Muroto, Thermal Active zone of Okinawa Trough during these 12 years. Center for Deep Earth Exploration (abbreviated as CDEX) in JAMSTEC is one of the three implementing organizations of the International Ocean Discovery Program (recent IODP) and leading scientific drilling operations including site survey, well and mud logging, gas monitoring service to achieve safety drilling. One of most data accumulated sites are C0002 in Kumano Basin, Nankai Trough. Site C0002 has so far been drilled deepest record to 3058.5 mbsf logging penetration and recovered cuttings and zonal spotted coring. It is the target site for ultra deep drilling to understand megasplay fault characteristics and future fault behavior by installation of Long Term Borehole Monitoring System. Hole C0020A is investigated on most various Wireline logging operations in one hole. Not only operation data and supported data as bathymetry, site survey items, but daily safety data have been also accumulated for these years, and based on scientific drilling.

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