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Well Logging service operated by CDEX

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Center for Deep Earth Exploration (abbreviated as CDEX) in JAMSTEC is one of the three implementation organizations of the Integrated Ocean Drilling Program (IODP) and leading scientific drilling operations including well logging service. After decade preparation, the first scientific drilling by D/V Chikyu commenced in the Nankai Trough to Kumano basin in September 2007 as NanTroSEIZE Stage 1, and followed by the first riser drilling in May 2009 as Stage 2 operations.

During Stage 1, four sites were successfully drilled with full set of Logging-While-Drilling (LWD) and Measurement-While-Drilling (MWD). During Stage 2, the first riser drilling by D/V Chikyu's special talent were carried out and full set of Wireline-Logging (WL) together with cuttings samplings were obtained. These well logging data are quite powerful and important information to be supplement for lack of core/cuttings samplings. They will be also strong tool for post-cruise research to combine and integrate related physical issues after detail calibration, environment correction, depth matching and suitable correlation with drilling parameters.

Since CDEX logging service has been done in two operation cycles, many problems and issues to be needed to fix systematically occurred and it is reviewing period now. Preparation for onboard SW/HW facilities, logging planning, tool selecting, data acquisition support, expedition onboard support, good data quality control, preparation for data to general public and further collaboration among onboard and offshore scientists should be main task of CDEX Core-Log-Seismic-Integration service.

Keywords: Well logging, CDEX, D/V Chikyu, IODP, CLSI