



## Call for Participation in IODP Exp 380:

### NanTroSEIZE Stage 3: Frontal Thrust Long-Term Borehole Monitoring System (LTBMS)

CDEX/JAMSTEC

24 February 2017

CDEX currently plans to implement IODP Expedition 380: NanTroSEIZE Stage 3: Frontal Thrust Long-Term Borehole Monitoring System (LTBMS) beginning on 23 October 2017. The main expedition goal is to drill and case a riserless hole at Site C0006 to at least ~500 meters below the sea floor (mbsf).

#### **IODP NanTroSEIZE Complex Drilling Project**

The IODP Complex Drilling Project (CDP) known as the Nankai Trough Seismogenic Zone Experiment (NanTroSEIZE) Project comprises multiple expeditions over a several-year period aimed at sampling and instrumenting the up-dip transition into the subduction seismogenic zone. Site C0006 will be the site of the third LTBMS installed for the NanTroSEIZE project.

#### **Scientific Objectives of the expedition**

The Expedition 380 goal is to install an LTBMS in the accretionary toe region near the trough axis. This is mainly an engineering expedition; there are no plans for collecting any logging-while-drilling (LWD) data or core samples during this expedition. However, a full suite of sensor data from the LTBMS including past deployments (C0002 and C0010), will be available to scientists post cruise, and once the new LTBMS is connected to the DONET seafloor cabled network. Logging data and cores from IODP Expeditions 314, and 316 will be on board the ship during the expedition, and available for sampling, with the goal of producing original research. These will be primarily for a concurrent workshop/fieldwork program planned to be held aboard *Chikyuu* (See separate announcement). Please read the Expedition 380 mini-Prospectus (see PMO announcement for link) for further details.

#### **Operation Plan**

Operations planned for Expedition 380 include:



- Drill a new hole at Site C0006 to ca. 500 meters below sea floor (mbsf).
- Install 20-inch and 9 5/8-inch casing.
- Install the LTBMS (CORK) system at the new hole.

**Expedition Schedule**

Current plans have Expedition 380 beginning on 23 October 2017, sailing on 26 October (three days portcall), and finishing on 5 December 2017 (43 days). If LTBMS/CORK installation goes ahead of schedule, the ship will return to port and the expedition will end.

**Science Party**

Scientific specialties that will likely be required for the shipboard science party include observatory specialists and downhole logging specialists

**Data Sharing**

No data or samples will be collected. Once the LTBMS is connected to DONET, all data will be open-access.

Nobu Eguchi  
 CDEX Science Manager

Table 1. D/V Chikyuu Schedule for FY17

Exp.#	Expedition Name	Schedule	Duration	Co-chief Scientists	EPM
380	NanTroSEIZE Stage 3: Frontal Thrust LTBMS	23 October– 5 December 2017	43 days	TBA & Masa Kinoshita	Sean Toczko

Remarks:

- (1) All expedition schedules are subject to change based on FY budgetary situation, engineering considerations, and site conditions.