

Call for NanTroSEIZE Stage 2 Participation
IODP Expedition 333 – Inputs Coring -2 & Heat Flow -
CDEX/JAMSTEC
12 May 2010

CDEX currently plans to implement three Nankai Trough Seismogenic Zone Experiment (NanTroSEIZE) expeditions from mid 2010 to early 2011: IODP Expedition 326 (NanTroSEIZE Stage 3: Deep Riser Hole – Top Hole operation), IODP Expedition 332 NanTroSEIZE Stage 2: Riserless Observatory-2, and IODP Expedition 333 – NanTroSEIZE Stage 2: Inputs Coring & Heat flow.

In this Expedition, the current plan is to collect temperature measurements from the input sites (Sites C0011 & C0012; see Exp 322 Preliminary Report, url below), collect core of sediments and oceanic basement, at Site C0011 and Site C0012, and drill and core mass wasting deposits associated with the major splay fault in the accretionary prism (IODP Proposal 738 - NanTroSLIDE).

Science Objectives

Main Expedition Plan

Operational plans include: HPCS/EPCS/ESCS sediment coring with downhole temperature measurements (APCT-3) be re-occupying the Exp 322 subduction inputs sites (C0011 and C0012), and up to 200 meters basement coring at Site C0012. Slope slump deposits will also be cored as part of the NanTroSLIDE objectives.

Science Party and Required expertise

The Science Party will be comprised of 27 scientists (including Co-chief scientists), and will sail for approximately a one-month period. Specialties needed include: Sedimentologists, Igneous Petrologists, Paleomagnetic specialists, Physical Property specialists (including heat flow and thermal gradient), Geochemists, Micropaleontologists, and Structural Geologists.

The current scientific operation schedules are shown below (Table 1).

Previous NanTroSEIZE expedition reports are available here:

<http://www.iodp.org/scientific-publications>

Also a summary of the scientific objectives and operations for the overall NanTroSEIZE drilling is available here:

<http://www.jamstec.go.jp/chikyu/eng/Expedition/NantroSEIZE/index.html>.

Expedition 322 Preliminary Report can be downloaded here:

http://publications.iodp.org/preliminary_report/322/index.html

The expedition schedule, including expedition operation details, are liable to change at short notice, a situation which we are sure complicates your own scheduling arrangements, and raises a lot of questions on your part. We will update you regularly on the progress and status of expedition planning and in the meantime please do not hesitate to contact us with any questions you may have.

Sincerely yours,
Nobu Eguchi

NanTroSEIZE Expedition Manager
D/V *Chikyu* Schedule for 2010

Expedition # Expedition Name Schedule Duration Co-Chief
Scientists EPM
333
NanTroSEIZE
Inputs Coring & Heat Flow
13 December
2010 – 10
January 2011
(1)
29 days
(2) (3) TBN Sean Toczko

Remarks:

- (1) All expedition schedules are subject to change based on simulated site condition.
- (2) Science Party will transfer via helicopter.
- (3) Expedition duration includes transit and portcall.