



CALL

for scientists based in Europe and Canada

Nankai Trough Seismogenic Zone Experiment - NanTroSEIZE Stage 2

IODP Expedition 338 – NanTroSEIZE Plate Boundary Deep Riser - 2

with the Chikyu drilling vessel

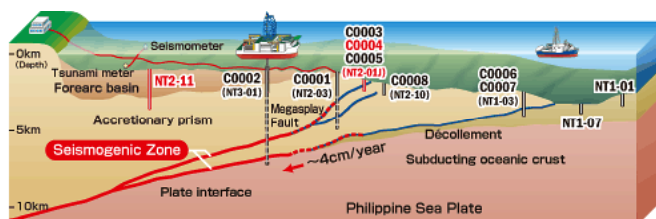
(August 10, 2011 – January 10, 2012)

DEADLINE December 31, 2010



The European Consortium for Ocean Research Drilling (ECORD) offers you the unique possibility to sail in the framework of the Integrated Ocean Drilling Program (IODP), an international research program for drilling at sea.

Scientific Aims CDEX currently plans to implement IODP Expedition 338: Plate Boundary Deep Riser – 2, beginning 10 August 2010. The expedition goal is to deepen Hole C0002F to ~3300 mbsf. This riser hole, intended to access the plate boundary faults at an ultimate depth of 7000 meters, has already been drilled and cased to 856 mbsf during IODP Expedition 326.



Science Objectives The objective of this expedition is to sample the deep interior of the accretionary complex in the mid-slope region beneath the Kumano forearc basin with both cores and drill cuttings, to perform downhole stress orientation/magnitude, pore pressure, permeability, and collect an extensive suite of LWD and wireline logs to characterize the formation. This is a major part of the long-term effort to drill a deep (7000 mbsf) riser hole into the plate boundary fault system. A scientific prospectus will be available soon. Please check our website <http://www.essac.ecord.org/> and RSS News feeds <http://www.essac.ecord.org/index.php?mod=education&page=rss>.

Operation Plan • Riser drilling, with continuous cuttings and mud gas analysis from ~856 mbsf to the Total Depth (TD) for Exp. 338, currently planned for ~3300 mbsf, • Coring of several hundred meters at intervals deep within the inner wedge accretionary complex, • LWD and wireline logging, downhole stress, pore pressure and permeability tests, • A zero-offset and/or walkaway vertical seismic profile (Z-VSP, or W-VSP).

Expedition Schedule Current plans have the expedition beginning on 10 August, and finishing on 10 January. This would allow approximately 154 days of offshore operations. The initial Science Party group (see "Science Party" below) will board Chikyu at the Port of Shingu, and the final group will disembark on 10 January at the same port. This schedule is still subject to change. Updates and the latest information can be found on the CDEX website (<http://www.jamstec.go.jp/chikyu/eng/CHIKYU/index.html>).

Science Party Because of the long duration of this expedition, the full Science Party will comprise several teams organized to participate for up to eight weeks each in a staggered schedule, as will Co-Chiefs and EPMS. Goals include conducting core and drill-cuttings analyses, wireline and LWD logging, and a vertical seismic profile. Mud-gas logging will be conducted by using a newly installed gas monitoring system. For the shipboard science party, specialties that will be required include sedimentology, structural geology, organic and inorganic geochemistry (including mud gas monitoring), microbiology, physical properties, micropaleontology, paleomagnetism, and well logging analysis.

Application Process Scientists interested in participating, please consult the ESSAC webpage (link below). Required documents (PDF only) are: **1**) a CV **2**) a letter of interest including your specific expertise, previous involvement in DSDP/ ODP/ IODP expeditions, research interest **3**) a publication list.

Young researchers must additionally provide a letter of support from their host institution including information on the post-cruise science support: How to achieve the proposed scientific objectives in the future (funding scheme and support from host institution).

Please send a copy of your application documents to your national office/delegate in order they can help to support your application, see <http://www.essac.ecord.org/index.php?mod=about&page=ESSAC>.



For further information or questions please contact:

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Tutorial: <http://www.essac.ecord.org/index.php?mod=user&page=tutorialregister>