



Extended DEADLINE for

Scientists based in ECORD Member Countries to apply for

IODP EXPEDITION 356: INDONESIAN THROUGHFLOW (31 JULY – 30 SEPTEMBER 2015)

DEADLINE to apply: 8 June 2014

The European Consortium for Ocean Research Drilling (ECORD) offers you the unique possibility to sail in the framework of the International Ocean Discovery Program (IODP), an international research program for drilling at sea. Opportunities exist for all specialties - including sedimentology, nannofossil and foraminifer biostratigraphy, paleomagnetism, petrophysics, microbiology, and inorganic and organic geochemistry

The Indonesian Throughflow (ITF) Expedition will drill a latitudinal transect on the northwest Australian shelf to test several hypotheses, including (1) that tectonic restriction of the ITF was variable over the last 5 million years; (2) that the Australian monsoon has undergone repeated cycles of initiation and shutdown related to solar cycles in the absence of topographic effects; and (3) that Australia's rapid northward movement towards the Southeast Asian subduction slab graveyard induced dynamic drawdown of the Earth's surface that progressively swept southwards across the continent.

Goals: Sediments obtained from this transect will document (1) the timing and variability of the ITF, the Indo-Pacific Warm Pool and onset of the Leeuwin Current to understand the controls on Quaternary extra-tropical carbonate and reef deposition, (2) a 5 Myr orbital scale (sub) tropical climate and ocean archive to chart the variability of the Australian monsoon and onset of aridity in NW Australia, and (3) the spatial and temporal subsidence patterns along the NW shelf to constrain the interaction between Australian plate motion and mantle convection and ground truth geodynamic models.

More information: The expedition schedule is available at <http://iodp.tamu.edu/scienceops/>. The expedition web page provides the original IODP proposals and expedition planning information: http://iodp.tamu.edu/scienceops/expeditions/indonesian_throughflow.html

Application Process: Scientists interested in participating, please register in the ESSAC webpage (<http://www.essac.ecord.org/index.php?mod=user>). 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; and **3)** a publication list.

Students and post-doctoral researchers must also provide a letter of support from their host institution, including information on the post-cruise science support. The application should include how the candidate intends to achieve the proposed scientific objectives, with information on the funding scheme and support from host institution.

In addition to the ESSAC application, please send a copy of your application documents to your national office/delegate to help support your application, see <http://www.essac.ecord.org/index.php?mod=about&page=ESSAC>.



For further information or questions please contact:

ESSAC Office ECORD Science Support & Advisory Committee

Gretchen Früh-Green (ESSAC Chair) and

Julia Gutierrez-Pastor (ESSAC Science Coordinator)

Email: essac.office@erdw.ethz.ch

<http://www.essac.ecord.org/>

ETH Zurich, Institute of Geochemistry and Petrology, Clausiusstrasse 25, CH-8092 Zurich, Switzerland

Tel: +41 44 632 8462; Fax: +41 44 632 1636