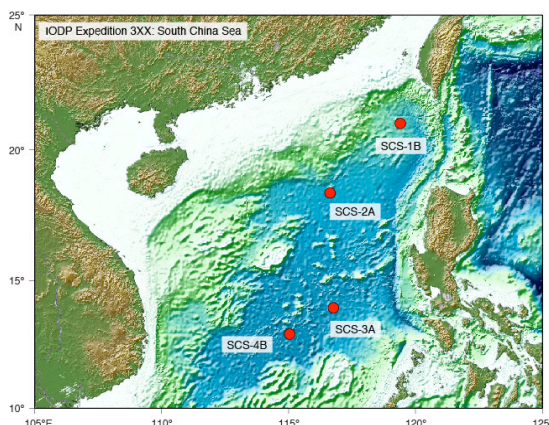




CALL

For scientists based in Europe and Canada **349 IODP Expedition South China Sea** (February – March 2014) **DEADLINE 1 April, 2013**

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.



This expedition, based on IODP Proposal 735-CPP2, addresses the history and mechanisms of opening of the South China Sea (SCS), and its implications for East Asian and western Pacific tectonic and paleoenvironmental evolution. This will be achieved by coring through the sediment and into the oceanic basalts at four different sub-basins, with total penetrations ranging from 0.7 to 1.9 km in 3.3 to 4.4 km water depths, to determine the breakup and basin formation history since the late Mesozoic. Geochemical sampling of basement rocks at different ages within different magnetic zones and around key tectonic events will provide critical information on how the crust and mantle evolve at various stages of basin evolution.

Goals: Scientific objectives are to (1) establish the complex opening history of different sub-basins and styles of oceanic crustal accretion of the SCS; (2) test various hypotheses of dynamic processes controlling transitions from a Mesozoic active continental margin to a Cenozoic passive one, and constrain whether the forces driving the opening of the SCS were far-field, near-field, or in-situ; (3) reveal the crustal nature and affinities of different sub-basins, and understand oceanic crustal and deep mantle processes associated with tectonic extrusion, magmatism, and magnetization; (4) develop a complete 3D sedimentation and subsidence model and link it to regional climatic processes in response to various tectonic events; and (5) integrate these results to add to our general understanding of the geodynamic interplay of mantle and lithosphere processes that lead to the development of continental margins.

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

Application Process Scientists interested in participating, please consult 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/ IODP expeditions, research interest; and **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). In addition to the application to ESSAC, please send a copy of your application documents to your national office/delegate (<http://www.essac.ecord.org/index.php?mod=about&page=ESSAC>) in order they can help to support your application.

For further information or questions please contact:



ESSAC Office ECORD Science Support & Advisory Committee

Instituto Andaluz de Ciencias de la Tierra, IACT (CSIC-UGR), Avda.
de Las Palmeras nº 4 , 18100, Armilla, Granada, SPAIN

tel: +34 958 23 00 00 + 190130/190219 fax +34 958 55 26 20

iact_essac.office@iact.ugr-csic.es

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

Sailing Application:

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