



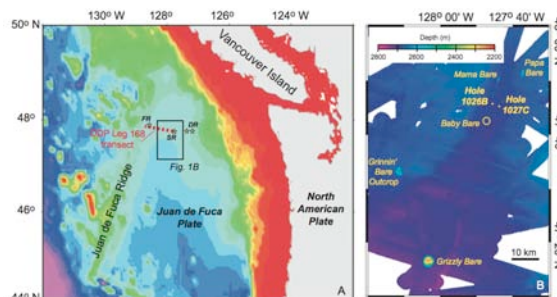
CALL

For scientists based in Europe and Canada **Juan de Fuca Flank hydrogeology II Expedition** (July – September 2010) **DEADLINE January 15, 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 Within a multidisciplinary research program, the Juan de Fuca Flank Hydrology II Expedition is designed to evaluate the formation-scale hydrogeologic properties (transmission, storage) within oceanic crust, determine how fluid pathways are distributed within an active hydrothermal system, and elucidate relations between fluid circulation, alteration, microbiology, and seismic properties. This expedition will install subseafloor observatories in two new holes into oceanic crust (at Site SR-2), and replace an observatory in an existing hole (Site 1027) to facilitate long-term monitoring (pressure, temperature, geochemistry, microbiology) and to conduct cross-hole hydrologic experiments using a complete network of six observatory systems.

The expedition will be dominated by subseafloor observatory installation operations. Science activities during this full-length expedition will consist of ~200 m of basement coring at Sites SR-2 and 1027, limited downhole logging, and drill string hydrologic testing. A full complement of scientists is not required to achieve the science objectives and we anticipate opportunities for participation by engineers, educators, and/or science communicators.



Scientific Background The scientific background of this expedition is available at http://iodp.tamu.edu/scienceops/expeditions/juan_de_fuca.html.

Timing The timing of the expedition may change depending on the scheduling of non-IODP work for the drill ship, *JOIDES Resolution*.

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/ 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 (offices and delegates at ESSAC webpage, under "about ESSAC").

For further information or questions please contact:



ESSAC Office

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