



## National Centre for Antarctic & Ocean Research

(Ministry of Earth Sciences, Govt. of India)

Headland Sada, Vasco-da-Gama, Goa - 403 804.



### **Invites Nominations from Scientists/Researchers for forthcoming IODP expeditions**

The Director, National Centre for Antarctic & Ocean Research (NCAOR), on behalf of IODP- India invites nominations in a prescribed format along with detailed bio-data and research/professional experience, from geoscientists/researchers working in established national institutions/organizations and universities, to participate in the forthcoming Integrated Ocean Drilling Program (IODP) expedition 359 (MALDIVES MONSOON), 360 (INDIAN RIDGE MOHO) and 361( SOUTH AFRICAN CLIMATES) NCAOR will provide the requisite financial support to the selected candidates towards their participation in the said expedition. However, it will be the responsibility of the candidates to obtain the necessary Visas / permissions from the countries of embarkation and disembarkation on their own. A scientific plan is mandatory for a successful nomination. Once nominated, candidates will have to submit a detailed science plan along with sample data request which may also form a basis for collaborative research programs between their host organization and NCAOR.

Further details including last date of nominations and format can be obtained at [www.ncaor.gov.in](http://www.ncaor.gov.in) or by email to [iodp.india@ncaor.gov.in](mailto:iodp.india@ncaor.gov.in)

For and on behalf of NCAOR  
Program Officer (IODP-India)

Complete nominations may kindly be emailed to [iodp.india@ncaor.gov.in](mailto:iodp.india@ncaor.gov.in)

Information on forthcoming IODP Expeditions:

#### **Exp. 359: MALDIVES MONSOON EXPEDITION : (October to November 2015)**

Based on IODP Proposal 820-Full, the Maldives Monsoon Expedition will investigate Neogene Indian Ocean environmental change and the onset of the modern carbonate depositional system driven by fluctuations in sea level and ocean currents. Seven sites will be drilled across the Maldives carbonate system to obtain sediments from the inner-platform to the continental slope including drifts deposits. These will (1) document environmental changes in the Maldives and place the Maldives current system into the larger scale ocean current framework during Neogene global cooling and monsoon evolution, (2) determine the onset of the modern depositional system, and (3) constrain the pre- to post-drowning evolution of the carbonate bank by linking existing seismic stratigraphic and the new sedimentary records.

This expedition will also core one site along the western Indian continental margin (IODP Proposal 849-APL) to obtain a Paleocene-Holocene sedimentary sequence within the proximal core region of summer monsoon precipitation to reconstruct the pre-monsoonal and monsoonal ocean salinity, and erosion, weathering and run-off in the Eastern Arabian Sea.

**Exp. 360: INDIAN RIDGE MOHO EXPEDITION: ( December 2015 to January 2016)**

Based on IODP Proposal 800-Full, the Indian Ridge Moho Expedition will initiate drilling through the Atlantis Bank gabbroic massif 500 m into mantle near ODP Hole 735B. The two major objectives are (1) to recover the lowermost gabbros and crust-mantle transition to understand the processes creating mid-ocean ridge basalt, and (2) to resolve the controversy as to whether the Moho at slow spreading ridges can be a serpentinization front. Additional objectives include constraining the lateral heterogeneity of the lower crust, the nature of magnetic reversals in plutonic rock, as well as the stress-strain evolution of a plate boundary undergoing asymmetric seafloor spreading.

**Exp. 361: SOUTH AFRICAN CLIMATES EXPEDITION: ( February to March 2016)**

Based on IODP Proposal 702-Full2 the South African Climates (SAFARI) Expedition will investigate the interaction between climate and the Agulhas Current during the Plio/Pleistocene. Six drill sites in the southern Indian Ocean and Mozambique Channel will determine (1) the sensitivity of the Agulhas Current, (2) the dynamics of Indian-Atlantic gateway circulation, and (3) the connection between Agulhas Leakage and shifts of the Atlantic Meridional Overturning Circulation (AMOC) during major ocean and climate reorganizations of the past 5 Ma.

This expedition will also include the Agulhas Current Density Profile ancillary project (IODP Proposal 845-APL), which will reconstruct temperature and salinity over a depth transect during the last glacial maximum.

Important Notes:

1. For more information on the above expeditions please visit [www.iodp.org](http://www.iodp.org) and use the link [iodp.tamu.edu/scienceops/](http://iodp.tamu.edu/scienceops/)
2. Applications in prescribed format (available on the website [www.ncaor.gov.in](http://www.ncaor.gov.in)) shall be considered.
3. Last date by which NCAOR receives nominations **15<sup>th</sup> November, 2014.**
4. A scientific plan is mandatory for a successful nomination. Once nominated candidates will have to submit a detailed science plan along with sample data request which may also form a basis for collaborative research programs between their host organization and NCAOR.