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 International Ocean Discovery Program (IODP) Expedition 379 (AMUNDSEN SEA WEST ANTARCTIC ICE SHEET HISTORY EXPEDITION**)** and Expedition 382 (ICEBERG ALLEY PALEOCEANOGRAPHY & SOUTH FALKLAND SLOPE DRIFT). 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 or by email to iodp.india@ncaor.gov.in

Last date by which IODP- India/ NCAOR receives nominations for IODP Expedition 379 : **30th November, 2017.**
Last date by which IODP- India/ NCAOR receives nominations for IODP Expedition 382 : **30th December, 2017.**

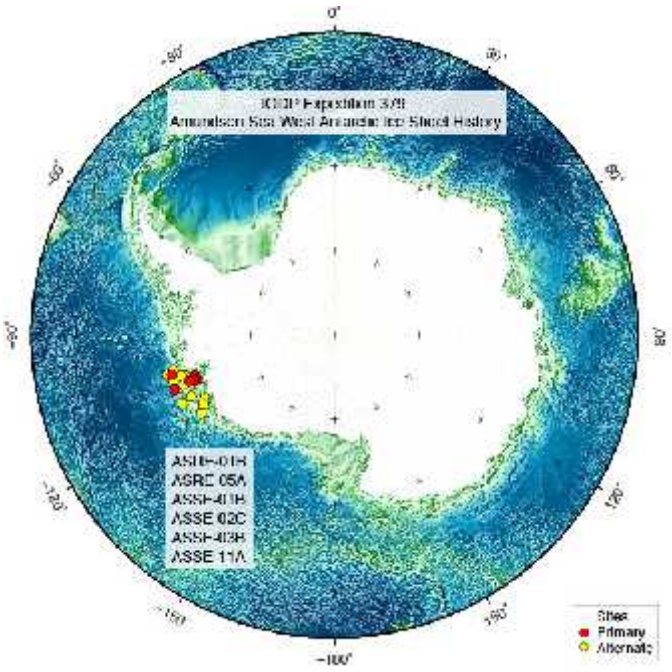
For and on behalf of NCAOR
Group Director

Complete nominations may kindly be emailed to iodp.india@ncaor.gov.in

Information on forthcoming IODP Expeditions:

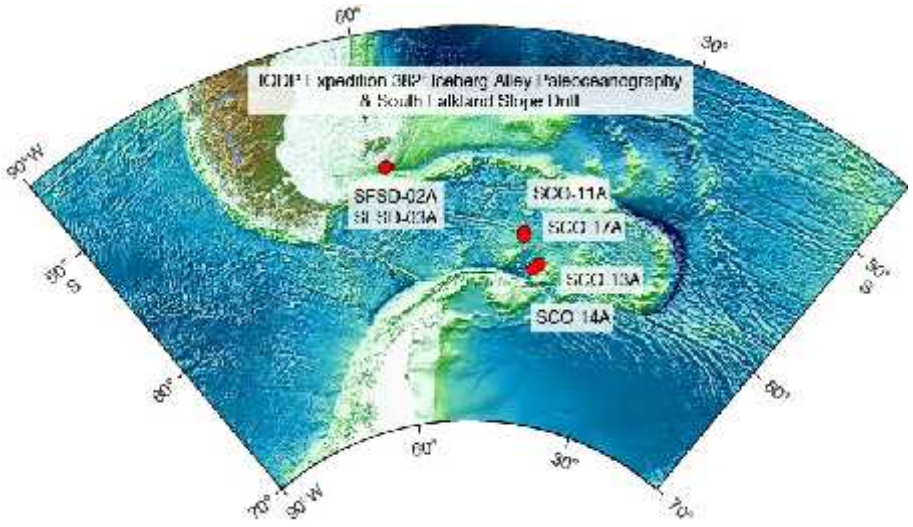
Exp. 379: Amundsen Sea West Antarctic Ice Sheet History Expedition: 18 January to 20 March 2019

Based on IODP Proposal 839 Full, IODP Expedition 379 aims to obtain records from the continental shelf and rise of the Amundsen Sea to document WAIS dynamics in an area unaffected by other ice sheets as well and that currently experiences the largest ice loss in Antarctica. The primary objectives include (a) reconstructing the Paleogene to Holocene glacial history of West Antarctica, (b) correlating the Amundsen Sea WAIS-proximal records with global records of ice volume changes and air/seawater temperature proxy records, (c) constraining the relationship between incursions of warm water masses onto the continental shelf and the stability of marine-based ice sheet margins, and (d) reconstructing major WAIS advances onto the middle and outer shelf, including the first ice sheet expansion onto the continental shelf of the Amundsen Sea Embayment and its possible control by the uplift of Marie Byrd Land.



Exp. 382: Iceberg Alley Paleoceanography & South Falkland Slope Drift: 20 March to 20 May 2019

Based on IODP Proposals 902 Full, 902 Add, 902 Add2, 846 APL2, & 846 Add, Expedition 382 aims to recover 600 m long Late Neogene sequences to reconstruct past variability in Antarctic Ice Sheet (AIS) mass loss, oceanic and atmospheric circulation and to provide the first spatially integrated record of variability in icebergs flux from Iceberg Alley, where a substantial number of Antarctic icebergs exit into the warmer Antarctic Circumpolar Current (ACC). This will (a) constrain iceberg flux during key times of AIS evolution since the Middle Miocene glacial intensification of the East Antarctic Ice Sheet, (b) provide material to determine regional sources of AIS mass loss, address interhemispheric phasing of ice-sheet and climate events, and the relation of AIS variability to sea level, (c) provide information on Drake Passage throughflow, meridional overturning in the Southern Ocean, water-mass changes, CO2 transfer via windinduced upwelling, sea-ice variability, bottom water outflow from the Weddell Sea, Antarctic weathering inputs, and changes in oceanic and atmospheric fronts in the vicinity of the ACC, and (d) provide dust proxy records to reconstruct of changes in the Southern Hemisphere westerlies to evaluate climate-dust couplings since the Pliocene, its potential role in iron fertilization and atmospheric CO2 drawdown during glacials. Expedition 382 will also core a sediment drift to obtain subantarctic multi-proxy intermediate water depth records of millennial to orbital scale variability in the ocean, atmosphere, nutrients, productivity and ice sheet dynamics in the SW Atlantic through at least the last 1 Ma.



Important Notes:

4. For more information on the above expeditions please visit www.iodp.org and use the link iodp.tamu.edu/scienceops/

5. Applications in prescribed format (available on the website www.ncaor.gov.in) shall be considered.

6. Last date by which IODP- India /NCAOR receives nominations for IODP Expedition 379 : **30th November, 2017.**

7. Last date by which IODP – India /NCAOR receives nominations for IODP Expedition 382 : **30th December, 2017.**

8. 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.