



**National Centre for Polar & 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 expedition

IODP-India invites nominations in a prescribed format along with detailed bio-data and research experience, from geoscientists/researchers working in established national institutions/organizations and universities, to participate in the forthcoming International Ocean Discovery Program (IODP) **Expedition 386(Japan Trench Paleoseismology)**. NCPOR 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.

Further details 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/NCPOR receives nominations for expedition 386 : 1st August, 2019.

For and on behalf of NCPOR
Group Director (IODP-India)

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

Information on forthcoming IODP Expedition:

Expedition 386(Japan Trench Paleoseismology): Offshore- Spring/ Summer 2020. Onshore- Winter 2020
(Exact dates to be confirmed)

Based on IODP proposal # 866, Expedition 386 aims to test and develop “submarine paleoseismology” in the Japan Trench, a promising approach that overcomes the limitations of short historical and instrumental records in revealing earthquake maximum magnitude and recurrence. Examining prehistoric events preserved in the geological record is essential to reconstruct the long-term history of earthquakes and to deliver observational data that help to reduce epistemic uncertainties in seismic hazard assessment for long return periods.

Expedition 386 will adopt a multi-coring approach using a mission-specific platform equipped with a giant piston corer to sample the shallow-subsurface at up to 40 mbsf to recover the continuous Upper Pleistocene to Holocene stratigraphic successions of trench-fill basins along an axis-parallel transect of the 7-8km deep Japan Trench. The cores from 18 proposed primary(and/or 13 alternate) sites will be used for multi-method applications to characterize event deposits, for which the detailed stratigraphic expressions and spatio-temporal distribution will be analysed for proxy evidence of earthquakes.

The main objectives are:

1. To identify the sedimentological, physical, chemical, and biogeochemical proxies of event deposits in the sedimentary archive that allow for confident recognition and dating of past Mw9-class earthquakes vs. smaller earthquakes vs. other driving mechanisms.
2. To explore the spatial and temporal distribution of such event-deposits to investigate along strike and time-dependant variability of sediment sources, transport and deposition processes, and stratigraphic preservation.
3. To develop a long-term earthquake record for giant earthquakes.

Study area :



Important Notes:

1. For more information on IODP Expedition 386, please visit www.ecord.org and use the link www.iodp.org/expeditions/expeditions-schedule
2. Applications in prescribed format available on the website www.ncaor.gov.in shall be considered.
3. **Last date by which IODP- India/ NCPOR receives nominations for expedition 386: 1st August, 2019.**
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 NCPOR.
