

SPADE Workshop - Scientific Proposals for Andamans Drilling Endeavour

Program Agenda

Dates : 17th – 18th September 2018
Venue : Auditorium Hall, NCAOR, Goa, India

Ice Breaker: 16th September 2018 (Sunday 18:30 h onwards)

Venue: Bogmallo Beach Resort, Bogmallo, Goa (~10 km from NCAOR)

Transport will be provided at 18:00 h from Hotel HQ, NCAOR Guest House and
at 17:30 h from NIO, Dona Paula.

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Day 1: 17th September 2018 (Monday)

- 08:30 – 09:30** : **Onsite Registration**
09:30 – 09:40 : Welcome & Overview (M Ravichandran, Director; Brijesh K Bansal, Adviser, MoES and Dhananjai Pandey, NCAOR)
09:40 – 10:00 : Overview of IODP proposal submission & review process (Sean Gullick)
10:00 – 10:20 : Subduction Zones and Scientific Ocean Drilling (James Austin)
10:20 – 10:40 : Bay of Bengal circulation and its importance to Monsoon (M Ravichandran)

Coffee Break & Group Photo Session 10:40 – 11:15

- 11:15 – 11:30** : Exploring aspects of monsoon development through ocean drilling: what can we expect from the last Indian Ocean 'mission'? (Dirk Kroon)
11:30 – 11:45 : Key challenges in understanding Geodynamics of Andaman subduction zone (Virendra M Tiwari)
11:40 – 12:00 : Tectonic & structural variations along Andaman-Sumatra frontal arc (Vineet K Gahalaut)
12:00 – 12:15 : Lithological and monsoonal control on sediments of the Andaman Sea (Sunil Singh)
12:15 – 12:30 : Geochemical evolution of the Andaman Back Arc: A window to the Indian Ocean Mantle (Jyotiranjana S Ray)
12:30 – 12:45 : Cycling of volatiles and metals through subduction zones: implications for nutrient supply and for mineralisation (Marie Edmonds)
12:45 – 13:00 : Subduction complex of Andaman region: current understanding and scope for further study (Tapan Pal)

Lunch 13:00 – 14:00 (NCAOR Auditorium)

- 14:00 – 14:20** : Subduction Zones: A story of deformation, dewatering, and great earthquakes (Sean Gullick)
14:20 – 14:40 : NGHP activities in India with special reference to Andaman (KK Chopra)
14:40 – 15:00 : Bay of Bengal Drilling and Monsoon Reconstructions (Steven Clemens)
15:00 – 15:15 : Deciphering long term Monsoon evolution through coring in Andamans (Arun D Singh)
15:15 – 15:30 : Targeting Sweetspots and Hotspots for Indian Monsoon Reconstructions (Liviu Giosan)

Coffee Break 15:30 – 15:45

- 15:45 – 16:00 : Porosity Preservation in the Andaman Accretionary Wedge: Steady State Diagenesis in a Non-Steady State Geologic Setting (Joel Johnson)
- 16:00 – 16:15 : Investigating Indian Monsoon variability on a warmer Earth: Preliminary results from IODP Expedition 353 sites drilled in the Andaman Sea and Bay of Bengal (Ann Holbourn)
- 16:15– 16:30 : Understanding the nature and structure of the shallow portion of a subduction zone: IODP Drilling of the IndoBurma Subduction Zone (Cecilia M McHugh)
- 16:30 – 16:45 : Understanding the role of mineral hydration driving tectonics and its effect on climate during Neogene (Prosenjit Ghosh)
- 16:45 – 17:00 : Scientific Drilling in the Northern Andaman Sea (P Saravanan)

Day 2: 18th September 2018 (Tuesday)

- 09:30 – 09:45 : High-resolution records of the monsoonal history in the northern Bay of Bengal - Drilling Proposal for the Swatch of No Ground Shelf Canyon and the upper Bangladesh Slope (Volkhard Spiess)
- 09:45– 10:00 : Results from a passive OBS experiment in the Andaman-Nicobar region (Pawan Dewangan)
- 10:00– 10:15 : Links between climate and sea-level change: A case for scientific drilling in the Bay of Bengal (Beth Christensen)
- 10:15– 10:30 : Scientific drilling in the Sumatra forearc: IODP Expedition 362 (Nisha Nair)

Coffee Break 10:30 – 11:00

- 11:00 – 11:15 : The Indian Ocean Dipole and Monsoon: pre-proposal for IODP drilling (Sushant Naik)
- 11:15 – 11:30 : Reconstruction of paleoseismic record in Andaman Basin using lipid biomarker (Supriyo K Das)
- 11:30 – 11:45 : Late Cenozoic climate variability and Himalayan weathering: IODP drilling in the Andaman Sea (M Prakasam)
- 11:45 – 12:00 : Nature of the crust beneath the Andaman Volcanic Arc (Rajneesh Bhutani)
- 12:00 – 13:00 : Breakout sessions to evolve prospective drilling proposals (Coordinators – Jyotirajan S Ray, Nisha Nair, Marie Edmonds, Arun D Singh and Steve Clemens)

Lunch 13:00 – 14:00 (NCAOR Auditorium)

- 14:00 – 16:00 : Breakout session to evolve prospective drilling proposals
- 16:00 – 16:30 : Reconvene and summarise (Subgroup coordinators present summary of discussions to consolidate prospective drilling themes/ideas future actions, timeline and required site surveys etc.)
- 16:30 : Acknowledgements, conclude and disburse

Joint Dinner (Workshop + Forum): 18th September 2018 (Sunday 19:00 h onwards)

Venue: Bay 15, Dona Paula, Panjim, Goa (~30 km from NCAOR)

Transport will be provided at 17:30 h from Bogmalo Beach Resort, Hotel HQ, NCAOR Guest House
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