

## Science workshop on Moored Buoy Data Analysis

National Institute of Ocean Technology, Chennai, India  
July 2-5, 2019

Under the Indo-US collaborative program on Monsoon Air-Sea Interaction in the Bay of Bengal, the Ocean Observation Systems Group of National Institute of Ocean Technology (NIOT) organized an **Science Workshop on Moored Buoy Data Analysis** to commemorate the Silver Jubilee celebrations of NIOT. The workshop was held for a period of four days from **02-05 July 2019**, followed by a visit to Research Vessel R/V Sally Ride. The theme of the science workshop was selected as 'Upper ocean response to cyclones in Northern Indian Ocean', which is a major objective of the moored buoy programme. A total of 30 students/research scholars nominated from 15 Institutions / University participated in the workshop.

The morning session of the workshop was devoted for scientific lectures followed by hands on training in the afternoon session. In the training session, the participants were grouped based on five subthemes viz. Air-sea interaction during cyclones (PHAILIN), Thermohaline response during cyclones (HUDHUD), Ocean current response during cyclones (JAL), Utilisation of Remote sensing data for cyclone analysis (GAJA) and One-dimensional modeling study for cyclone analysis (VARDAH).

Eighteen experts in different fields of Ocean Science from fourteen institutions delivered lectures and experts from National Institute of Ocean Technology, University of Massachusetts (Umass), Scripps Institute of Oceanography, Oregon State University, Indian Institute of Technology Madras, National Institute of Oceanography Goa, Indian Institute of Tropical Meteorology, Space Application Centre Ahmedabad headed as Mentors for these groups.

The aim of this workshop has been fulfilled by providing a forum for young researchers to gain knowledge and experience from Scientist/Experts in the field of Ocean Science.







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<b>Tuesday, July 2, 2019</b>	
09:30 – 09:50	<b>Inaugural Session</b> Welcome Workshop overview by Prof. Amit Tandon
09:50 - 10:00	Tea break Group photo
10:00 – 13:00	<b>Invited talk</b>
	Dr. R. Venkatesan : Two decades of Indian moored buoy network
	Prof. Amit Tandon : ASIRI-OMM-MISOBOB: Air-Sea interactions in the Bay of Bengal
	Prof. Jennifer Mackinnon : Ocean current response during cyclones
	Prof. G.S. Bhat : Overview of Indian Ocean observation programmes
	Prof. Manikandan Mathur : Decay mechanisms for cyclone-induced mixed layer near-inertial currents
Lunch Break	
14:00 – 15:00	<b>Invited talk</b> Prof. Emily Shroyer Prof. D. Sengupta
15:00 - 17:30	Interactive projects
<b>Wednesday, July 3, 2019</b>	
09:30 - 13:00	<b>Invited talk</b>
	Dr. R.R. Rao : Observed thermohaline response of upper ocean to tropical cyclone forcing
	Dr. C. Gnanaseelan : Impact of oceanic processes on the life cycle of severe cyclonic storm Jal
	Dr. B. Amudha : Cyclone Warning Services of India Meteorological Department
	Dr. V. Vinu : Variability of Mixing processes in BoB and Arabian Sea examined with TKE models
	Dr. Neeraj Agarwal : Utilisation of remote sensing data for cyclone analysis
Lunch Break	
14:00 – 17:30	Interactive projects
<b>Thursday, July 4, 2019</b>	
09:30 – 17:30	Interactive Projects
<b>Friday, July 5, 2019</b>	
09:00 – 12:30	<b>Valedictory session</b> Presentation by participants Visit to NIOT labs Weather in tank experiments
Lunch Break	
13:00 – 17:30	Visit to R/V Sally Ride