

## 2<sup>nd</sup> National Indian Ocean Biogeochemistry Workshop

7 – 9<sup>th</sup> April 2025

International Training Centre for Operational Oceanography (ITCOO), INCOIS,  
MoES, Govt. of India, Hyderabad – 500090

<b>Day – 1</b>		
<b>10:00 – 10:15</b>	Welcome Address	Director, INCOIS
<b>10:15 – 10:45</b>	Introduction of participants	All
<b>10:45 – 11:00</b>	Presentation on White Paper of 1 <sup>st</sup> National Workshop of IO-BGC	Dr. VVSS Sarma, NIO
<b>11:00 – 11:30</b>	<b>Tea Break</b>	
<b>11:30 – 11:50</b>	Presentation about the objectives of Deep Ocean Mission, MoES	Dr. Aneesh Lotliker, INCOIS
<b>11:50 – 12:10</b>	Presentation on the objectives of Mausam Mission, MoES	Dr. Vinu Valsala, IITM
<b>12:10 – 13:00</b>	Discussions on the applicability of DOM and MM for IO-BGC community: Potential Avenues of developing Proposals	All
<b>13:00 – 14:00</b>	<b>Lunch</b>	
<b>14:00 – 14:15</b>	BioGeoSCAPES - ocean metabolism and nutrient cycling in a changing climate	Dr. Arvind Singh, PRL (online)
<b>14:15 – 14:30</b>	Multidecadal past climatic records of the Common Era from the Indian Ocean	Dr. Rajeev Saraswat, PRL
<b>14:30 – 14:45</b>	Recent progress in nutrients estimation associated with aerosols over the IO	Dr. Ashwini Kumar, NIO (online)
<b>14:45 – 15:00</b>	Oceanic emissions of trace gases, links to BGC parameters	Dr. Anoop Mahajan, IITM (online)
<b>15:00 – 15:15</b>	Gridded Monthly Chlorophyll Climatology of North Indian Ocean utilizing BGC-Argo and Remote Sensing data	Dr. Chiranjivi Jayaram, NRSC
<b>15:15 – 15:30</b>	A new Climatology of Depth of Nitracline in the Bay of Bengal for Improving Model Simulations	Dr. Sridevi B, INCOIS
<b>15:30 – 16:00</b>	<b>Tea Break</b>	
<b>16:00 – 16:15</b>	Shifts in Phytoplankton Phenology in the Indian Ocean: A Satellite-Based Atlas and Long-term Trends	Dr. Aditi Modi, IITM
<b>16:15 – 16:30</b>	Multiple proxies to investigate the submarine groundwater discharge into the Arabian Sea, Southwest	Dr. B. Upendra, NCESS

	coast, India: Integration of biogeochemical, geophysical, and remote sensing techniques	
<b>16:30 – 16:45</b>	BGC observation profiles in the Indian Ocean.	Dr. Udaya Bhaskar, INCOIS
<b>16:45 – 17:00</b>	Application of ANN for generating Pseudo BGC profiles	Mr. Pavan Kumar, INCOIS
<b>Day – 2</b>		
<b>10:00 – 10:15</b>	Progress made after the 1st IO-BGC Meeting	Dr. Kunal Chakraborty, INCOIS
<b>10:15 – 10:30</b>	Impact of Satellite Chl-a and Other Physical Parameters on Deriving Reliable Export Production Estimates from Indian Ocean	Dr. Aditi Deshpande, SPPU
<b>10:30 – 10:45</b>	The IO BGC and its impact on marine fisheries	Dr. Muktha M., ICAR, CMFRI
<b>10:45 – 11:00</b>	<b>Tea Break</b>	
<b>11:00 – 11:30</b>	Trophic level interactions: Modeling from nutrients to Fishes for Indian coasts	Dr. Vinu Valsala, IITM
<b>11:30 – 11:45</b>	Multi-scale sensitivity analysis of NPP Using Carbon-based Productivity model and perturbation scenarios	Mr. Rupam Kalitha, INCOIS
<b>11:45 – 12:00</b>	Ocean colour observations for ocean Bio-geo-chemistry and its applications.	Dr. K. N. Babu, SAC, ISRO
<b>12:00 – 12:15</b>	TBD	Dr. Mahesh, NRSC
<b>12:15 – 13:00</b>	A summary of any new gaps was highlighted during the presentations.	All
<b>13:00 – 14:00</b>	<b>Lunch Break</b>	
<b>14:00 – 15:30</b>	Way forward with the outcome of the discussions and addressing the gaps.  (A) In situ data, Remote Sensing, Modelling requirements/wish list etc.	Lead talks opening forum for discussions  Dr. Sarma V. V. S. S., NIO
<b>15:30 – 16:00</b>	<b>Tea Break</b>	
<b>16:00 – 17:30</b>	Way forward with the outcome of the discussions and addressing the gaps.  (A) In situ data, Remote Sensing, Modelling requirements/wish list etc.	(continued ...)

<b>Day-3</b>		
<b>10:00 – 11:00</b>	Way forward with the outcome of the discussions and addressing the gaps.  (B) International collaborations and identifying leads.	Lead talks opening forum for discussions  Dr. Uday, INCOIS
<b>11:00 – 11:30</b>	<b>Tea Break</b>	
<b>11:30 – 13:00</b>	Way forward with the outcome of the discussions and addressing the gaps.  International collaborations and identifying leads.	(Continued ...)
<b>13:00 – 14:00</b>	<b>Lunch Break</b>	
<b>14:00 – 15:30</b>	Discussion on Proposal Preparation	All
<b>15:30 – 16:00</b>	<b>Tea Break and Adjourn</b>	