



## **Data Buoy Cooperation Panel (DBCP) Capacity Building Workshop on Ocean Observations for Operational Services in the Indian Ocean Region**

**05 - 07 August 2025**

**Hyderabad, India**

**Hosted by :**

ESSO-Indian National Center for Ocean Information Services,  
Government of India Ministry of Earth Sciences

**Organized by:**

Data Buoy Cooperation Panel

In collaboration with

World Meteorological Organization

Intergovernmental Oceanographic Commission of UNESCO

### **Provisional Timetable**

**Day 1: Tuesday, 5 August 2025**

Time (IST) UTC+5.30	Opening Ceremony (Moderator: TBD)	Lead
0830-0900	<b>Registration</b>	
0900-0925	<b>Opening Remarks</b> <i>Director, INCOIS</i> <i>DGM, IMD and PR to WMO from India (In person / Remote)</i> <i>DBCP Chair, Dr. Nelly Florida Riama</i> <i>WMO, Ms. Champika Gallage</i> <i>IOC, Dr. Joanna Post (Remote)</i>	Moderator: TBD
0925-0935	The objective, expectations and agenda of the workshop	Fan Jiang NCFDRC (Remote/In person)
0935-0950	An Introduction to the International Training Centre for Operational Oceanography (ITCOcean) and Logistics Information	Uday Bhaskar INCOIS
0950-1030	Welcome words & Operational Oceanography and Ocean Information and Advisory Services	Pattabhi Rama Rao INCOIS
1030-1045	Group Photo	
1045-1100	<b>Tea/Coffee Break</b>	
<b>Session 1: Ocean Observation/Data Acquisition/Quality Control</b> (Moderator: Nelly Florida Riama) Each presentation will be 30 mins and 10 mins for Q&A		
1100-1140	In-situ Ocean Observation Network in the Indian Ocean	Aneesh L INCOIS
1140-1220	Ocean Moored buoys in the Northern Indian Ocean (OMNI) Programme, Data and Applications	Arul Muthaiah NIOT
1220-1300	Indian Argo Programme, Data and Applications	Uday Bhaskar INCOIS
1300-1400	<b>Lunch Break</b>	
1400-1530	Visit to Synoptic Ocean Observations and Prediction System (SynOPS) Laboratory	Pattabhi Rama Rao INCOIS
1530-1630	<u><b>National Reports</b></u> (5 minutes per country + 10 minutes discussion): <i>Bangladesh, Cameroon, Comoros, Guinea, India, Indonesia, Iran, Iraq, Kenya, and Malaysia</i>	Nelly Florida Riama Champika Gallage
1630-1710	Wave Drifters and Their Applications in Research and Operations	Luca Centurioni

		SIO (Remote)
1710-1750	The RAMA array operations, maintenance and data use	Kenneth J. Connell PMEL (Remote)

### Day 2: Wednesday, 6 August 2025

<b>Session 2: In-situ Ocean Observation in Forecasting/Services</b> (Moderator: Pattabhi Rama Rao) Each presentation will be 30 mins and 10 mins for Q&A		
0900-0940	Global and Seasonal Ocean Predictions for Tropical Area	Francis INCOIS
0940-1020	Introduction to Wave Ride Buoys and its applications in operational oceanography	Remya INCOIS
1020-1100	Generation and Operational Application of Gridded Data from HF Radar	XU Jiangling NCFDRC of MNR
<b>1100-1115</b>	<b>Tea/Coffee Break</b>	
1115-1155	Modelling Storm Surges and Tsunamis and applications of observations.	Siva Srinivas INCOIS
1155-1235	Ocean Data Management activities at the Indian & Hands-on Session	Dr. Uday Bhaskar INCOIS
1235-1310	Ocean remote sensing data and its applications	Srinivasa Rao INCOIS
<b>1310-1410</b>	<b>Lunch Break</b>	
1410-1450	Harnessing buoy data for operational storm surge forecasting during tropical cyclones.	Dr. PLN Murty (IMD)
1450-1530	Hands-on Session (Wave Rider buoy data processing)	R Venkat Shesu INCOIS
1530-1615	The role of new autonomous ocean observing technologies in reliable predictions of tropical cyclone	Dr. Scott Glenn Rutgers University (Remote)
<b>1615-1630</b>	<b>Tea/Coffee Break</b>	
1630-1730	Visit to National Glider Operations and Test Facility, Oceanographic Instruments and Ocean Remote Sensing Ground Stations	

### Day 3: Thursday, 7 August 2025

<b>Session 3: Global and Regional Initiatives (GOOS/IO-GOOS)</b>		
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(Moderator: Uday Bhaskar)		
Each presentation will be 30 min and 10 min for Q&A		
0900-0940	GBON for ocean and WIS 2.0	Champika Gallage WMO
0940-1020	OceanOPS and DBCP Metadata	Martin Kramp OceanOPS (Record)
1020-1100	Indian Ocean Global Ocean Observing System	Nagaraj Kumar IOGOOS
<b>1100-1115</b>	<b>Tea/Coffee Break</b>	
1115-1155	<u><b>National Reports</b></u> (5 minutes per country + 10 minutes discussion): <i>Mauritius, Namibia, Seychelles, Somalia, South Africa, Sri Lanka, Thailand, Tunisia, Tanzania and others)</i>	
1155-1235	Group Discussion (Part 1)	Pattabhi Rama Rao Aneesh L
<b>1235-1345</b>	<b>Lunch Break</b>	
1345-1445	Group Discussion (Part 2)	Pattabhi Rama Rao Aneesh L
1445-1530	Summary and Recommendation	Nelly Florida Riama Champika Gallage
1530-1610	Closing Ceremony (Award of the Certificates)	Nelly Florida Riama Champika Gallage
<b>1610-1630</b>	<b>High Tea</b>	

## Acronyms

DBCP	Data Buoy Cooperation Panel
INCOIS	ESSO-Indian National Center for Ocean Information Services,India
IMD	India Meteorological Department
IOC	Intergovernmental Oceanographic Commission of UNESCO, France
IOGOOS	Indian Ocean Global Ocean Observing System
IITM	Indian Institute of Tropical Meteorology
MNR	Ministry of Natural Resources, China
NCFDRC	North China Sea Forecast and Disaster Reduction Center,MNR
NIOT	National Institute of Ocean Technology,India
NSMFC	North China Sea Marine Forecasting Center of MNR
SIO	Scripps Institution of Oceanography
PEML	NOAA Pacific Marine Environmental Laboratory