



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: Ms. Anu Radha)	Lead
0830-0900	Registration	
0900-0925	Opening Remarks <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: E Patabi Rama Rao
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	Udaya Bhaskar INCOIS
0950-1030	Welcome words & Operational Oceanography and Ocean Information and Advisory Services	Pattabhi Rama Rao INCOIS
1030-1045	Group Photo	
1045-1100	Tea/Coffee Break	
Session 1: Ocean Observation/Data Acquisition/Quality Control (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	Udaya Bhaskar INCOIS

1300-1400	Lunch Break	
1400-1530	Visit to Synoptic Ocean Observations and Prediction System (SynOPS) Laboratory	E Patabi Rama Rao INCOIS
1530-1630	National Reports (5 minutes per country + 10 minutes discussion): <i>Bangladesh, Cameroon, Comoros, Guinea, 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

Session 2: In-situ Ocean Observation in Forecasting/Services (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
1100-1115	Tea/Coffee Break	
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. Udaya Bhaskar INCOIS
1235-1310	Ocean remote sensing data and its applications	Srinivasa Rao INCOIS
1310-1410	Lunch Break (Moderator : Aneesh Lotliker)	
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)
1615-1630	Tea/Coffee Break	
1630-1730	Visit to National Glider Operations and Test Facility, Oceanographic Instruments and Ocean Remote Sensing Ground Stations	Aneesh Lotliker/Shiva Kumar

Day 3: Thursday, 7 August 2025

Session 3: Global and Regional Initiatives (GOOS/IO-GOOS) (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
1100-1115	Tea/Coffee Break	
1115-1155	National Reports (5 minutes per country + 10 minutes discussion): <i>Mauritius, Namibia, Seychelles, Somalia, South Africa, Sri Lanka, Thailand, Tunisia, Tanzania, India, and others</i>)	
1155-1235	Group Discussion (Part 1) <i>Q1: What are the key challenges you face in accessing maintaining the quality and continuity of in-situ ocean observations in your country?</i>	Nelly Florida Riama Aneesh L
1235-1345	Lunch Break	
1345-1445	Group Discussion (Part 2) <i>Q2: What steps can be taken to strengthen coordination between countries operating observation platforms in the Indian Ocean?</i> <i>Q3: What are the skills gaps that still need to be addressed in your country through capacity building?</i>	Nelly Florida Riama 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
1610-1630	High Tea	

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