



International Training Centre for Operational Oceanography (ITCOcean)

-A Category-2-Centre of UNESCO

IOPredict-2024- An International Oceanography Workshop

Day-1	9 th December 2024 (Monday)		
0800-0900	Registration		
0900-0915 hrs	Opening Session		
0915-1000 hrs	Lead Talk	S. S. C. Shenoi	The Importance of Ocean Forecasts and Services: Safeguarding Lives, Ecosystems, and Marine Presentation
1000-1300 hrs (25 min talk + 5 min Q&A) and Tea break (30 min.)	Invited talks	Arya Paul	Improving circulation in north Indian Ocean through data assimilation Presentation
		Sreenivas P	The Ocean observations - methods of data assimilation and its importance Presentation
		Biswamoy Paul	Ensemble Forecast Sensitivity to Observations: A modified Observing System Experiment for a stratified ocean Presentation
		Jayaram Valluru	Role of Hybrid Machine Learning Algorithms for Ocean State Prediction
		Balaji B	Improving ENSO Forecast Accuracy: Multi-year Predictions with Bayesian Convolutional Neural Networks Presentation
1300-1400 hrs	Lunch Break		
1430-1530 hrs (25 min talk + 5 min Q&A) + Tea Break (30 min)	Invited talks	Nikesh Narayanan	Adding Surface wave coupling in a global coupled modeling system
		Semanth M.	Improving Ocean wave forecast in the Indian Ocean through Data Assimilation
		PLN Murty	Towards the improved storm surge and inundation computations along the Indian coasts
1600-1720 hrs (17 min talk + 3 min Q&A)	Invited/ contributed talks	Meenakshi Sreejith	The past, present and future of Indian Ocean wave climate using CMIP6 GCM winds Presentation
		Abhijith Raj	Winds and waves over the Oceans-revisiting windstress over the Bay Presentation
		Gideon Ovwuwonye	Sea surface conditions in the Bermuda Sea.
		Mithun Sudhakar	Assessment of wave energy potential in the Indian EEZ Presentation
Day-2	10 th December 2024 (Tuesday)		
0915-1000 hrs	Lead talk	Rashmi Sharma	Major advances in the space-based observations for oceanographic research Presentation
1000-1300 hrs (25 min talk + 5 min Q&A) and Tea Break (30 min)	Invited talks	Tata Sudhakar	Observations Using Moored buoys Presentation
		Praveen Kumar	Air-Sea Fluxes: Understanding and Mitigating Uncertainties
		Girish Kumar	Motivations and Insights from the INCOIS Processes Specific Observation Campaign in the Arabian Sea Presentation
		Amol Prakash	West India Coastal Current: Observations and Theoretical Studies Presentation
		Siva Srinivas	Enhancing Observations Data: A Machine-Learning Approach to Fill Gaps in the Moored Buoy Data Presentation
1300-1400 hrs	Lunch Break		



1430-1530 hrs (25 min talk + 5 min Q&A) + Tea Break (30 min)	Invited talks	Kevin Martins	Ocean waves contribution to nearshore circulation: observations and predictions, with a focus on extreme water levels
		Sanil Kumar	Wind waves in the Indian Shelf Seas: Influencing factors and temporal variations Presentation
		Remya P. G.	Drivers of Wave-Induced Coastal Flooding in the Indian Ocean Presentation
1600-1730 hrs	Visit to INCOIS Facilities		
Day -3	10th December 2024 (Tuesday)		
0915-1000 hrs	Lead talk	Vinayachandran P. N.	High resolution (~ 1 km) simulations of the Bay of Bengal Circulation Presentation
1000-1200 hrs (25 min talk + 5 min Q&A) + Tea Break (30 min)	Invited Talks	Abhisek Chatterjee	Impact of model resolution on the Indian Ocean simulation: an operational ocean perspective. Presentation
		Jithin Abraham	Tide-induced internal gravity waves in the Bay of Bengal Observation and Numerical Modelling Presentation
		Soumya Mukhopadhyay	Prolonged La Niña events and the associated heat distribution in the tropical Indian Ocean Presentation
1200-1300 hrs (17 min talk + 3 min Q&A)	Contributed talks	Saraswathi Sabu	Pathway of ASHW intrusion into Bay of Bengal and its interannual variability Presentation
		Midhila Varan	Mesoscale eddies in the Eastern Arabian Sea Presentation
		Athulya K.	Diurnal Variability in Air-Sea Interactions Induced by the Land Breeze in the Bay of Bengal During Summer Presentation
1300-1400 hrs	Lunch Break		
1400-1700 hrs (25 min talk + 5 min Q&A) + Tea Break (30 min)	Invited Talks	Sudheer Joseph	Blue Energy: Prospects and Challenges- Global & Indian Scenario Presentation
		Sandhya K G	Development of Small Vessel Advisory Services for the Indian Coast Presentation
		Harikumar R.	Studies and services on oceanographic and marine met features and processes in the Indian Ocean for Industry-demanded ocean consultancy projects/services: a boost to blue economy Presentation
		Shubham Krishna	Cascading and Multi-Stressor Effects in Coastal Ecosystems Presentation
		Nur Hidayah Abdulla	Leveraging the Blue Economy for Sustainable Growth and Ocean Health in Malaysia: The Role of Higher Education
Day-4	12th December (Thursday)		
0915-1000 hrs	Lead Talk	V. V. S. S. Sarma	Status of biogeochemical models for Indian Ocean: A way forward Presentation
1000-1300 hrs (25 min talk)	Invited Talks	Vinu Valsala	Predicting the climate variability of small pelagic Fishery of Indian West coast using Dynamic Modelling of Fishery



			Population Presentation
		Sandip Mukhopadhyay	Biogeochemical dynamics and fluxes in the estuaries of the Sundarbans Presentation
		Aneesh Lotliker	Remote Sensing of HABs with an emphasis on Noctiluca Presentation
		AnuGopinath	Anthropogenic stressors and the ecosystem health of Coral reefs of Lakshadweep - Inter - island variability Presentation
		Kunal Chakraborty	Indian Ocean Acidification: Development of societally relevant predictions and projections Presentation
1300-1400 hrs	Lunch Break		
1400-1700 hrs	Contributed talks (17 min talk + 3 min Q&A) + Tea Break (30 min)	Apurva Joshi	Development of a ML-based Surface Total Alkalinity Data Product for the North Indian Ocean Presentation
		Prasanna Kanti Ghoshal	Use of an advanced machine learning algorithm to improve a bio-physical model-simulated surface pCO ₂ : A Hybrid Approach Presentation
		Sankirna Joge	Dimethyl Sulfide (DMS) predictions using the machine learning model Presentation
		Jhinook Mitra	Is the natural fish population of the Indian Sundarbans stressed? : A comparative account of five species in relation to environmental variables Presentation
		Oluwadunsin Samuel	geochemical concentration of the heavy metals in Ayetoro, Coastal Area of Ondo State, Nigeria.
		Rupam Kalita	Evaluating the sensitivity of the Carbon-Based Productivity Model (CbPM) in the Arabian Sea Presentation
		Sridevi Bobbili	Towards Improving Model Simulations: A New Climatology of the Nitracline Depth in the Bay of Bengal Presentation
Day-5	13 December (Friday)		
0915-1000 hrs	Lead Talk	Gnanaseelan C.	Gnanaseelan (Lead) (MC) 13 th How predictable is Indian Ocean up to a decade in advance Presentation
1000-1130hrs (25 min talk + 5 min Q&A) + Tea Break (30 min)	Invited talks	Nidheesh A G	Global-to-local sea-level change: A climate perspective Presentation
		Bajish C. C.	Understanding the Unprecedented Shift in Weddell Sea Maximum Sea Ice Extent in 2023 Presentation
1130-1310 hrs (17 min talk + 3 min Q&A)	Contributed talks	Clea Welch	Subsurface manifestation of MHWs in the South West Indian Ocean Presentation
		Athul C. K	A Machine Learning Framework for predicting daily-averaged sea level anomaly and surface currents with a lead time of 7 days
		Arya Rajan	Machine Learning integrated Ensemble Kalman Filter Data Assimilation Algorithm for real-time Sea Surface Temperature Prediction Presentation



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		Tallulah Graziani	Evaluation of the trends in temperature in the tropical Indian Ocean
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