



**Tentative Program Schedule\***

<b>Day-1</b>		<b>9<sup>th</sup> December 2024 (Monday)</b>	
<b>0800-0900</b>	<b>Registration</b>		
<b>0900-0915 hrs</b>	<b>Opening Session</b>		
0915-1000 hrs	Lead Talk	S. S. C. Shenoi	The Importance of Ocean Forecasts and Services: Safeguarding Lives, Ecosystems, and Marine Operations
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
		Sreenivas P	The Ocean observations - methods of data assimilation and its importance
		Biswamoy Paul	Ensemble Forecast Sensitivity to Observations: A modified Observing System Experiment for a stratified ocean
		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
<b>1300-1400 hrs</b>	<b>Lunch Break</b>		
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
		Abhijith Raj	Winds and waves over the Oceans-revisiting windstress over the Bay
		Gideon Ovwuwonye	Sea surface conditions in the Bermuda Sea.
		Mithun Sudhakar	Assessment of wave energy potential in the Indian EEZ
<b>Day-2</b>		<b>10<sup>th</sup> December 2024 (Tuesday)</b>	
0915-1000 hrs	Lead talk	Rashmi Sharma	Major advances in the space-based observations for oceanographic research
1000-1300 hrs (25 min talk + 5 min Q&A) and Tea Break (30 min)	Invited talks	Tata Sudhakar	Observations Using Moored buoys
		Praveen Kumar	Air Sea Fluxes over the oceans
		Girish Kumar	Motivations and Insights from the INCOIS Processes Specific Observation Campaign in the Arabian Sea
		Amol Prakash	West India Coastal Current: Observations and Theoretical Studies
		Siva Srinivas	Enhancing Observations Data: A Machine-Learning Approach to Fill Gaps in the Moored Buoy Data



Tentative Program Schedule\*

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
		Remya P. G.	Drivers of Wave-Induced Coastal Flooding in the Indian Ocean
1600-1730 hrs		Visit to INCOIS Facilities	
<b>Day -3</b>		<b>10<sup>th</sup> December 2024 (Tuesday)</b>	
0915-1000 hrs	Lead talk	Vinayachandran P. N.	High resolution (~ 1 km) simulations of the Bay of Bengal Circulation
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.
		Jithin Abraham	Tide-induced internal gravity waves in the Bay of Bengal Observation and Numerical Modelling
		Soumya Mukhopadhyay	Prolonged La Niña events and the associated heat distribution in the tropical Indian Ocean
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
		Midhila Varan	Mesoscale eddies in the Eastern Arabian Sea
		Athulya K.	Diurnal Variability in Air-Sea Interactions Induced by the Land Breeze in the Bay of Bengal During Summer
1300-1400 hrs		Lunch Break	
1400-1700 hrs (25 min talk + 5 min Q&A) + Tea Break (30 min)	Invited Talks	Sudheer Joseph	Integrated Ocean Energy in the Indian EEZ
		Sandhya K G	Development of Small Vessel Advisory Services for the Indian Coast
		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
		Shubham Krishna	Cascading and Multi-Stressor Effects in Coastal Ecosystems
		Nur Hidayah Abdulla	Leveraging the Blue Economy for Sustainable Growth and Ocean Health in Malaysia:The Role of Higher Education
<b>Day-4</b>		<b>12<sup>th</sup> December (Thursday)</b>	
0915-1000 hrs	Lead Talk	V. V. S. S. Sarma	Status of biogeochemical models for Indian Ocean: A way forward
1000-1300 hrs (25 min talk + 5 min Q&A)	Invited Talks	Vinu Valsala	Predicting the climate variability of small pelagic Fishery of Indian West coast using Dynamic Modelling of Fishery Population
		Sandip	Biogeochemical dynamics and fluxes in the estuaries of



Tentative Program Schedule\*

+ Tea Break (30 min)		Mukhopadhyay	the Sundarbans
		Aneesh Lotliker	Remote Sensing of HABs with an emphasis on Noctiluca
		AnuGopinath	TBD
		Kunal Chakraborty	Indian Ocean Acidification: Development of societally relevant predictions and projections
<b>1300-1400 hrs</b>	<b>Lunch Break</b>		
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
		Prasanna Kanti Ghoshal	Use of an advanced machine learning algorithm to improve a bio-physical model-simulated surface pCO <sub>2</sub> : A Hybrid Approach
		Sankirna Joge	Dimethyl Sulfide (DMS) predictions using the machine learning model
		Jhinook Mitra	Is the natural fish population of the Indian Sundarbans stressed? : A comparative account of five species in relation to environmental variables
		Oluwadunsin Samuel	geochemical concentration of the heavy metals in Ayetoro, Coastal Area of Ondo State, Nigeria.
		Rupam Kalita	TBD
		Sridevi Bobbili	Towards Improving Model Simulations: A New Climatology of the Nitracline Depth in the Bay of Bengal
<b>Day-5</b>	<b>13 December (Friday)</b>		
0915-1000 hrs	Lead Talk	Gnanaseelan C.	Gnanaseelan (Lead) (MC) 13 <sup>th</sup> How predictable is Indian Ocean up to a decade in advance
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
		Bajish C. C.	Understanding the Unprecedented Shift in Weddell Sea Maximum Sea Ice Extent in 2023
1130-1310 hrs (17 min talk + 3 min Q&A)	Contributed talks	Clea Welch	Subsurface manifestation of MHWs in the South West Indian Ocean
		Manikandan Marimuthu	Quantitative Assessment of Long-term Shoreline Dynamics Using CoastSat Python Toolkit
		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
		Tullala Gaziani	Evaluation of the trends in temperature in the tropical Indian Ocean



**Tentative Program Schedule\***

<b>1310-1400 hrs</b>	<b>Lunch Break</b>		
<b>1400-1615 hrs</b>	<b>Special session on WMO RSMC</b>		
1400-1445 hrs	Lead Talk	WMO	TBD
1445-1615 hrs (25 min talk + 5 min Q&A) + Tea Break (30 min)	Invited talks	INCOIS	TBD
		IMD	TBD
<b>1615-1700 hrs</b>	<b>Valedictory Session</b>		

\* The pre-conference tutorial will be held during 4-6 December 2024.