

# NEWS LETTER

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# BORI



**“Keep the Sea,  
Pollution Free”**

An awareness program organized by BORI

## BIG EVENT

### International Conference on Oceanography (ICO-2024)

27-28 January 2024

Organized by  
Bangladesh Oceanographic Research Institute



**Chief Guest**  
**Mr. Md. Ali Hossain**  
Secretary  
Ministry of Science & Technology, Bangladesh



**Special Guest**  
**Rear Admiral (retd.) Md. Khurshed Alam**  
Secretary (Maritime Affairs Unit)  
Ministry of Foreign Affairs, Bangladesh



**Convener ICO 2024**  
**Professor Dr. Towhida Rashid**  
Director General  
Bangladesh Oceanographic Research Institute

#### International Ocean Experts

**Dr. Kirsten ISENSEE**  
Programme Specialist  
Ocean Carbon Sources and Sinks  
IOC, UNESCO

**Professor Dr. Fangli Qiao**  
Deputy Director General  
FIO, MNR, China

**Dr. Ranadhir Mukhopadhyay**  
Chief Scientist (retd.)  
NIO, CSIR, India

**Dr. Park Hansan**  
Senior Principal Research Scientist  
KIOST, South Korea

**Dr. Tonia A. Capuano**  
Oceanography Expert  
The Agence Française de Développement (AFD)

**Dr. Chime Youdon**  
Research Fellow, Blue Economy and  
Climate Change Cluster, NMF  
Delhi, India

## MESSAGE FROM DIRECTOR GENERAL



Greetings on this issue of Newsletter. You may find out more about our organization and some of the many ways we help to advance knowledge of the ocean in this bulletin. Scientists and officers from BORI are spearheading this endeavor. Their passion and energy are much appreciated; our scientists are what really make the oceanography community such a lovely place to be. So raise your keystone and keep in mind that you are a part of the ocean, not just a beckon. And last but not the least, I wish a successful International Conference for the first time organized by BORI.

-Prof. Dr. Towhida Rashid

## EVENTS



World Ocean Day was celebrated on 8 June, 2023, at Bangladesh Oceanographic Research Institute (BORI). A seminar, themed "Planet Ocean: Tides Are Changing," was organized on this occasion. Architect Yeafesh Osman, Honorable Minister, graced the event.



BORI celebrated its 8<sup>th</sup> foundation anniversary on September 08, 2023. To mark this significant occasion, an ocean science fair was organized. The event attracted teachers and students from various schools and colleges in Cox's Bazar district. Additionally, agents from various companies involved in oceanographic research set up stalls, enhancing the fair's appeal and importance. The NSTM and BCSIR organized a mobile science exhibition at the fair.

## EVENTS



Honorable Secretary, Ministry of Science and Technology Mr. Md. Ali Hossain visited different Laboratory of BORI.



A group of Scientists from INCOIS, India visited BORI and exchange views on Oceanographic Research.

## RESEARCH PROJECTS (2023-2024 FY)

1. Winter Stratification. Frontal Zone Identification and Coastal Current Detection in the Eastern Coast of Bangladesh.
2. Investigation of Sedimentation and Mineralogy of the Seafloor Deposits along the Central Coastal-marine Area of Bangladesh.
3. Assessing Coastline Erosion Protection Measures via an In-depth Examination of Sedimentary Processes along the South-eastern Coast of Bangladesh.
4. Status and Impact of Oil-Grease in the Water & Sediment of Central Coastal Region of Bangladesh.
5. Carbon Sequestration Capacity of Tidal Marshes and Mangroves Soil and their Response to Climate Change in the Deltaic Central Coast of Bangladesh.
6. Micro-plastic Contamination Assessment in Marine Fish Species from the Central and Northeastern Coastal Regions of Bangladesh.
7. Distribution pattern of pollutants and pollution sources along the coastline of Cox's Bazar district in Bangladesh.
8. Occurrences of Micro-plastics over the Marine Fisheries Resources according to their Marine Food Chain in the South East Coast of Bangladesh.
9. Exploration of Coral resources of the Bay of Bengal.
10. Biochemical Composition. Occurrence & Distribution Pattern of Commercially Important Marine Crabs of Bangladesh.
11. Phylogenetic identification and biochemical composition of 10 commercial seaweeds of Bangladesh.
12. Investigation of Jellyfish resources and their potential as blue foods and high-value bio products.
13. Present status of potential non-conventional marine species and their contribution in the blue economy of Bangladesh.
14. Assessment of bacterial diversity and antibiotic sensitivity pattern in marine microbial community after anthropogenic perturbation in the water of south-eastern coast of Bangladesh.
15. Variability of chlorophyll-a and phytoplankton community structure with tides in response to physico-chemical parameters of estuarine water of Cox's Bazar, Bangladesh.

## SEMINAR



A seminar on Service Commitment, organized by the Bangladesh Oceanographic Research Institute, took place on December 23, 2023. Professor Dr. Towhida Rashid, the Director General of BORI, graced the occasion as the chief guest. Stakeholders from different streams expressed their opinions on various ocean research issues in the seminar.



## WORKSHOP



A workshop on "Public awareness of snake infestation" is organized in BORI. Experts on this aspect delivered speeches to the scientists and officers of the institute.



A workshop on "Smart Bangladesh Building Action Plan" is organized in BORI. Scientists and officers of the institute were present in that workshop.

## TRAINING



Md. Simul Bhuyan was the 1<sup>st</sup> Bangladeshi who join the expedition onboard ORV Sagar Nidhi in Arabian sea. He collected precious oceanographic and atmospheric data in fine-scale scale resolution using vertical microstructure, eddy covariance flux measurements, L-ADCP, underway CTD and Radiosonde.



Md Alamgir Hossain, Scientific Officer, Environmental Oceanography & Climate Division, BORI participated in the saic tsunami buoy maintenance cruise in the Bay of Bengal and Arabian sea onboard ORV Sagar Nidhi from 16 September to 18 October 2023. During the cruise, he participated in the deployment and retrieval of SAIC Tsunami buoys, Argo floats, and sea gliders.

## NATIONAL DAY



BORI observed the martyrdom anniversary of the Father of the Nation Bangabandhu Sheikh Mujibur Rahman & the National Mourning Day on 15 August, 2023.



BORI observed the great victory day with various programs on 16th December, 2023. On that occasion BORI was decorated with eye-catching lightings.

## Lies Ahead

- Acquisition of a modern oceanographic Research Vessel.
- Establishment of art of the state Marine Aquarium at BORI.
- Set up of a modern Oceanographic Data Center.
- Establishment of a modern Training Center cum International Hostel, scientific workshop and marine biological culture unit.
- Procurement of modern equipment for effective research.
- Implementation of short-mid-long term planning for sustainable Blue Economy.

Executive Editor  
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