



BANGLADESH OCEANOGRAPHIC RESEARCH INSTITUTE NEWSLETTER

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Bangladesh Oceanographic Research Institute (BORI)

Bangladesh Oceanographic Research Institute (BORI) is the first and only national research institution on marine science in Bangladesh, which will be able to play an important role in ensuring the development of Blue Economy.

Name : Bangladesh Oceanographic
Research Institute
Status : Statutory Body
Ministry : Ministry of Science and Technology
Location : Marine Drive Road, Cox's Bazar
Area : 40.62 Acres
Website : www.bori.gov.bd

Research Divisions


1. Physical and Space Oceanography
2. Geological Oceanography
3. Chemical Oceanography
4. Biological Oceanography
5. Environmental Oceanography and Climate
6. Oceanographic Data Center

MESSAGE FROM DIRECTOR GENERAL

Welcome to this inaugural newsletter. In these pages, you will learn more about our organization and some of the myriad ways that we contribute to a deeper understanding of the ocean. This initiative is led by BORI scientists and officers. I welcome their enthusiasm and drive; it is truly our scientists that make being part of the Oceanography community so wonderful. So anchor's up, and remember that you are not merely a wave, you are a part of the ocean.

-Sayeed Mahmood Belal Haider

 Seminar on R&D project results & outcomes of last fiscal year on December 2022

 Seminar on Geological Research Activity by Geological Oceanography Division on November 2022

 Seminar on "Jellyfish of the Bay of Bengal, Bangladesh" on October 2022

UPCOMINGS

EVENTS

Honorable Minister, Ministry of Science and Technology, Architect Yeafesh Osman and Director General (Additional Secretary) of BORI, Mr. Sayeed Mahmood Belal Haider visited seaweed cultivation project in Reju Khal on 11 March 2022.



Mr. Ziaul Hasan *ndc*, Senior Secretary, Ministry of Science & Technology, Mr. Pradip Ranjan Chakraborty, Member (Secretary), Planning Division, Planning Commission, Dr. Md. Kawser Ahmed, Member (Secretary), General Economics Division, Planning Commission were present at the consultation workshop titled "Establishment of Marine Aquarium" at Bangladesh Oceanographic Research Institute on 16-17 April 2022.



Bangladesh Oceanographic Research Institute celebrated the historic **Mujibnagar Day** on 17 April 2022 with great enthusiasm.

2021-22 FY

PROJECTS

01. Blue Carbon stock assessment in the Maheshkhali channel and the Naf River estuary of Bangladesh.
02. Distribution mechanism of physico-chemical parameters in the Maheshkhali estuary, Northern Bay of Bengal.
03. Determination of sedimentological & mineralogical distribution to delineate sedimentary process of the nearshore area of Maheshkhali-Kutubdia, Bangladesh.
04. Influence of physico-chemical parameters on abundance and distribution of plankton composition along the East Coast of Bay of Bengal.
05. Explore agarophyte to optimization the phycocolloids and continuation of taxonomic baseline study.
06. Status of oil-grease and BTEX in the South Eastern coastal water of Bangladesh.
07. Assessing the microplastic distribution in water, sediment and fish species in the coastal region of Cox's Bazar.
08. Biogeo-chemical process of Cox's Bazar's different Estuaries (Naf, Rejukhal, Moheshkhali Channel): Assessing its feasibility study for aquaculture.

EVENTS

A research discussion on seaweed cultivation and commercialization was held between BORI Scientists and JICA Team on June 02, 2022.



On the occasion of celebrating the Golden Jubilee of Independence, Cox's Bazar District Administration organized "Liberation Festival and Golden Jubilee of Independence Fair 2022". In the fair, BORI showcased various equipment, photographs and videos of research activity. The visitors learned about Marine science and oceanographic research.



Dr. Thomas Vanagt, Managing Director & Senior Scientific Advisor, and Mr. M Royhanur Islam, Researcher, MGR Lead, MGR Unit, ABSint, The Netherlands visited BORI on 15th December 2021. They attended in a scientific discussion with BORI scientists. Honorable DG, Sayeed Mahmood Belal Haider was also there.



Mr. Sajjadul Hassan, Chairman, Board of Directors, Biman Bangladesh Airlines, Rear Admiral (Retd.) Md. Khurshed Alam, Secretary (MAU), Ministry of Foreign Affairs, Dr. Md. Kawser Ahmed, Member (Secretary), GED, Planning Commission, Mr. Md. Ali Qadar, Chairman (Grade-1), Bangladesh Parjatan Corporation, Commodore Abu Jafar Md. Jalal Uddin, Director General, Department of Shipping and Mr. Sayeed Mahmood Belal Haider, DG, BORI were present at an occasion on "Bangabandhu Bangaposagar Uthsob" on 8 June at Cox's Bazar.



A seminar on "Bangabandhu, The Bay of Bengal and Blue Economy" was held at BORI on June 8 to observe World Ocean Day. Mr. Sayeed Mahmood Belal Haider, DG, BORI presided over the seminar.



**8 June
World
Ocean Day
2022**



Honorable guests and the participants were in a beach cleaning program on June 8 at Cox's Bazar to celebrate world ocean day 2022

SEMINAR

On 4 December 2021, a seminar on "Research results of the projects of 2020-21 FY" was organized by BORI. Mr. Ziaul Hasan ndc, Senior Secretary, Ministry of Science & Technology was present as the Chief Guest, Prof. Dr. Md. Kawser Ahmed, Member (Secretary), GED, Planning Commission was special guest and Mr. Sayeed Mahmood Belal Haider, DG (Additional Secretary) of BORI Chaired the seminar.



Seminar on "Ocean Literacy: a strategy to raise the ocean awareness for the conservation, restoration and sustainable use of our ocean" was held at Bangladesh Oceanographic Research Institute, Cox's Bazar on January 12, 2022. Mr. Sayeed Mahmood Belal Haider, DG of BORI was present as the Chief Guest and the keynote speaker.

Research Services at BORI

- Laboratory & Library facility
- Internship program for undergraduates
- Supervision of B.Sc. or M.Sc thesis
- Research facility for PhD & Post Doc

Architect Yeafesh Osman, Honorable Minister, Ministry of Science & Technology visited the breeding ground of Horseshoe Crabs with BORI scientists. DG, BORI observing horseshoe crabs and horseshoe crab's breeding ground. The Blue Blood collection of horseshoe crabs in the Chemical Oceanography Laboratory. Honorable Guests and DG, BORI attended seminar on 'International Horseshoe Crab Day 2022' organized by BORI.



A large number of dead jellyfishes have been washing ashore the Cox's Bazar sea beaches from 2 to 4 August, 2022. Scientists from BORI collected samples for further research and working on to find out the causes of this massive bloom. This edible species can be a potential resource for blue economy.



A dead dolphin has washed ashore near Patuartek beach in Ukhiya, Cox's Bazar on 23 August 2022. Scientists rushed to the spot, observed the causes of death and brought it to BORI laboratory for detailed study. It is preserved in BORI in a controlled condition.

TOWARDS BLUE ECONOMY



A dead whale which is about 50 feet long and 10 feet wide and assumably weighs 3 to 4 tons, have washed up on Himchhari Beach, Cox's Bazar coastline on Friday April 9, 2020. The whale was buried into the beach to collect the skeleton afterwards. Bangladesh Oceanographic Research Institute (BORI) and National Museum of Science and Technology (NMST) have been working jointly to preserve the skeleton at BORI premises.

TRAINING

From 8-9 October 2021, training on "Lab Accreditation" was organized by BORI where experts from INARS, BCSIR trained the officers.



- Form 12-16 August, 2021, training on 'Right to Information' was organized by BORI.
- A Training on "Service Delivery Commitment" was organized on 16-17 October, 2021 at BORI.
- Training on "Office Management & Govt. Job Rules" was organized on 18th December, 2021 at BORI.
- Training on "Grievance Redressal Management and GRS Software uses" was organized on 5th June, 2022 at BORI.
- A "Learning Session" was organized in the seminar room of BORI on June 07, 2022, to raise awareness about ocean research.
- Training on "Office Management" was organized on 15th January, 2022 at BORI.
- Training on "e-Governance and Innovation Action Plan" was organized at the seminar room of BORI on Feb 20, 2022.
- Training on "Integrity & Good-governance" was organized on 22-23 Feb, 2022 at BORI.

WORKSHOP

Workshop on "4th Industrial Revolution: Challenges and Prospects in Oceanographic Research" was organized at the seminar room of BORI on June 6, 2022.



- BORI organized a day-long workshop on "Blue Economy, Marine Ecology and Conservation: Bangladesh Perspective" with journalists from various media of Bangladesh on 14 December 2021.
- Workshop on "Epidemic and Emergency Response" was organized on the 14th of October to enhance the awareness about Epidemic & Emergency Response among the officers/employees of Bangladesh Oceanographic Research Institute (BORI).

Chief Editor : Sayeed Mahmood Belal Haider
Director General, BORI

Editor : Abu Sharif Md. Mahub-E-Kibria
Senior Scientific Officer, BORI

Collaboration

NENSEN Research Vessel and BORI
Biological Oceanography Division

BNS Saibal Research Vessel and BORI
Research Divisions

Supervision

University of Chittagong 15 Students
University of Dhaka 10 Students
Jahangirnagar University 05 Students
BSMR Maritime University 05 Students

Services

Consultancy services on the impact of the ocean on the Marine Drive Road project to 16 ECB, Bangladesh Army.

Provide technical support for Covid-19 test work using RT-PCR to Cox's Bazar Medical College and Hospital

Analysis and consulting services to FAO and the Department of Fisheries

Analysis Services to JU, DU, NIB, SBAU etc.

Analytical Services

BORI has well-equipped modern laboratories which provide analytical services to different service receivers.

Physical & Space Oceanography Lab: pH, DO, Turbidity, Nutrient analysis of analysis of Sea Water/Brackish Water/ Fresh Water/Saline Water. GIS Mapping & Image/Data Analysis.

Geological Oceanography Lab: Sediment/Particle Size Distribution, Sediment/Heavy Mineral Separation, Sediment/Rock/Mineral Identification, Grinding
Rocks/Minerals/Coals/Ceramics/Sands etc, GPS data/Image Data/GIS Map Analysis/Survey.

Chemical Oceanography Lab: DO, BOD, COD, TDS, TSS, Salinity, Conductivity, pH, NO₃-N, NO₂-N, PO₄-P, SiO₃, NH₄⁺ analysis of Seawater.

Biological Oceanography Lab: Shrimp PL/WSSB (White spot Syndrome Virus), Shrimp PL/(Enterocytozoon Hepatopenaei Virus), Shrimp PL/(Acute Hepatopancreatic Necrosis Disease Bacteria).

Environmental Oceanography & Climate Lab: DO, BOD, TDS, TSS, Salinity, Conductivity, Resistivity, pH & Reduction Potential (V) analysis of Seawater.

NATIONAL DAY

BORI observed the 46th martyrdom anniversary of the Father of the Nation Bangabandhu Sheikh Mujibur Rahman & the National Mourning Day on 15 August, 2021.



- BORI observed the great victory day with various programs on 16th December, 2021.
- On the occasion of the birth anniversary of Bangabandhu Sheikh Mujibur Rahman, BORI organized various programs throughout the year.
- BORI observed International Mother Language Day on 21st Feb, 2022 with due respect.
- Father of the Nation Bangabandhu Sheikh Mujibur Rahman's birthday and National Children's Day celebrated on 17th March, 2022 at BORI.
- On the occasion of the celebration of the Great Independence and National Day 2022 on March 26 BORI took different programs.

Future Planning

- Acquisition of a modern oceanographic Research Vessel.
- Establishment of art of the state Marine Aquarium at Cox's Bazar.
- 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 Economic growth.

Contact Address

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