

3.3.4 IOCINDIO REPORT

26 June 2023



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Australia, Bangladesh, France, India, Indonesia, Iraq, Iran, Kuwait, Malaysia, Maldives, Myanmar, Oman, Pakistan, Qatar, Saudi Arabia, Sri Lanka, Thailand, United Arab Emirates, United Kingdom

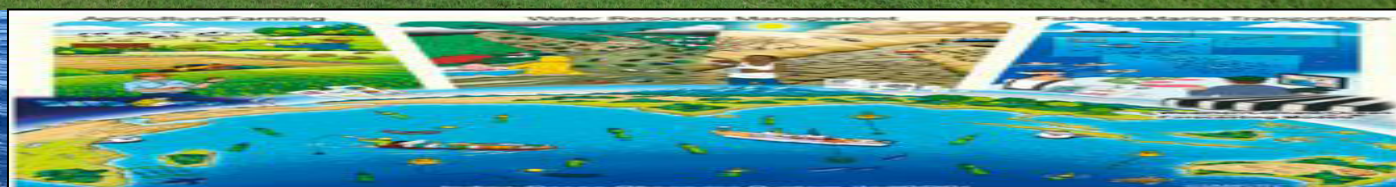
 **NINTH INTERGOVERNMENTAL SESSION OF THE IOC REGIONAL COMMITTEE FOR THE CENTRAL INDIAN OCEAN (IOCINDIO-IX)** 

28-30 March 2023, Hotel InterContinental Dhaka, Ministry of Foreign Affairs, Bangladesh



Presented by Rear Admiral (Retd) Md Khurshed Alam
Chair IOCINDIO, Secretary, Maritime Affairs Unit Ministry of Foreign Affairs
Dhaka-Bangladesh

With the contributions of Vice Chairs, Dr. Maryam Ghaemi, (Iran); Dr. Saif El Ghais, (UAE); Vice Chair IOC Group IV, Dr. Tummala Srinivasa Kumar
Acting Technical Secretary IOCINDIO, Justin Ahanhanzo



IOCINDIO fully completed its reactivation process with regular consecutive intergovernmental sessions every two years like IOCAFRICA, IOCARIBE & WESTPAC and is now moving ahead towards its transformation into an IOC Sub-Commission for the central Indian Ocean owing to the progress of the IOC Open-ended intersessional Working Group.



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Key IOC Influencers

- Work on SDG 14 active but "initial conditions" difficult
- UN Ocean Conference (Lisbon, 2022) recognized IOC and Decade in its Political Declaration in an unprecedented way
- Climate (UNFCCC and its Paris Agreement -> more ocean)
- Kunming-Montreal Global Biodiversity Framework, "30 by 30"
- BBNJ -> "High Seas Treaty", IOC in the final text
- Sustainable Ocean Planning
- Massively increasing needs for of sustainable ocean economy
- Ocean Decade moving forward (agenda item 4.1)



3 Working Groups

Working Group 1: Ocean Policy
Economy & Governance

Working Group 2: Coastal vulnerability

Working Group 3: Capacity Development

Youth Networks



Ocean Science, Technologies and Innovations Foundations of IOCINDIO



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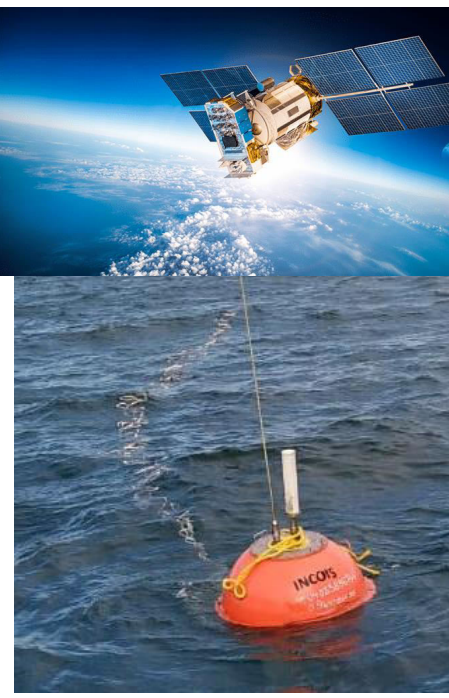
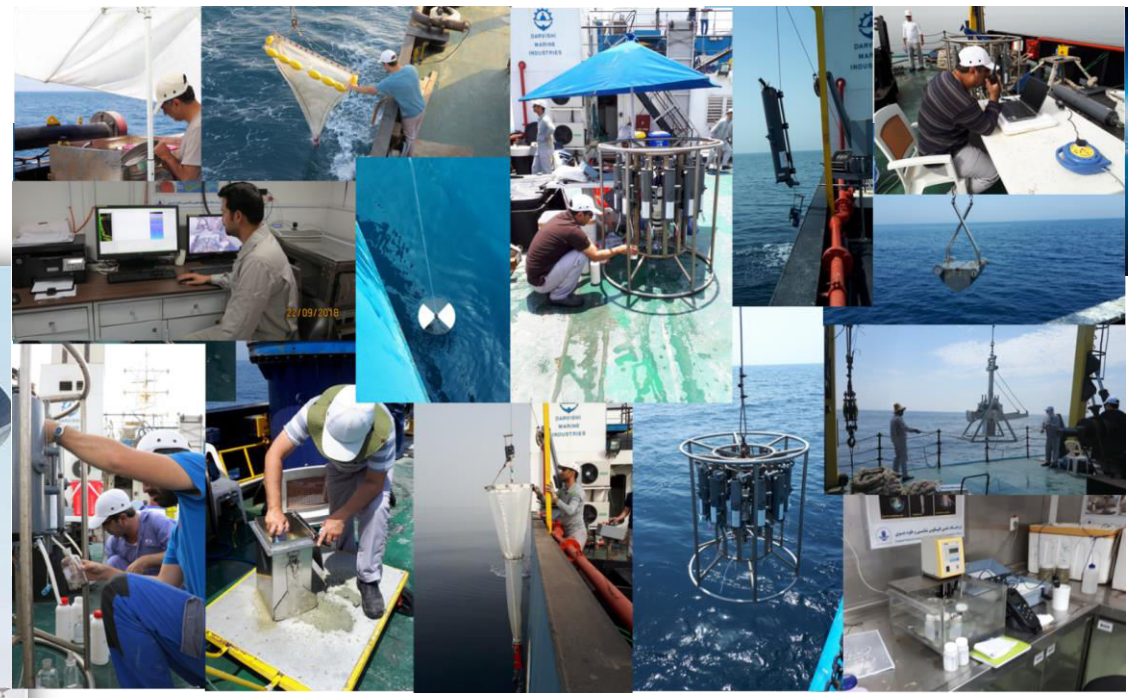
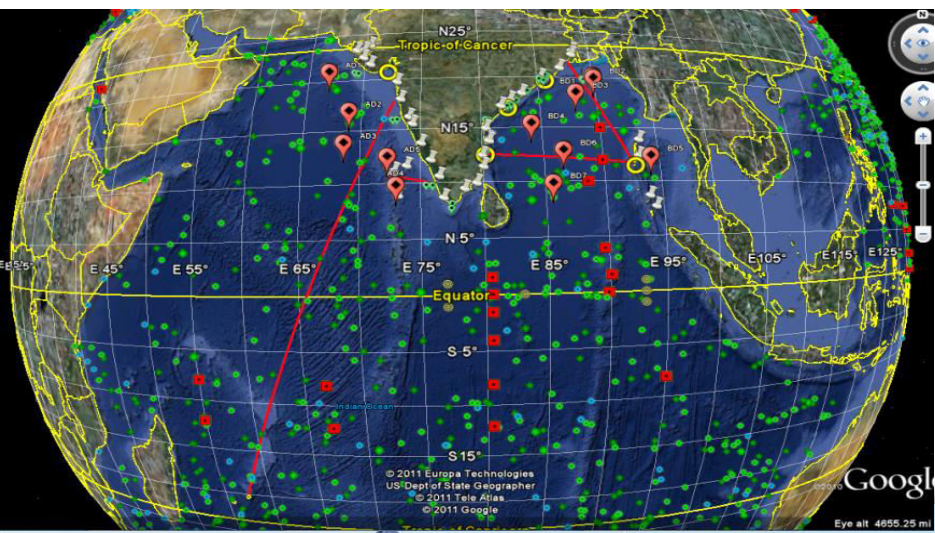
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Key pillars for the success in IOCINDIO are in place:

1. The science base traditions and foundations.
2. National research, academic, institutional and operational infrastructures & manpower in ocean and climate sciences, technologies, innovation, and governance
3. A clear understanding of the needs and engagement of MS & Governments with a strong will to Advance TOGETHER. It is urgent and imperative in the face of ocean degradation and climate change, amplifying sea-level rise intensification of tropical cyclones, monsoons, and climatic instabilities,



Long-term ocean observing & monitoring programs (applying advanced measurement and sampling equipment , specialized staffs in various oceanographic sciences, well-equipped laboratories and research vessel (Persian Gulf Explorer) to study and monitor the biotic and abiotic factors in the Persian Gulf, the Strait of Hormuz and the Gulf of Oman in the field of oceanography. Regular studies in various fields including physical, chemical and biological oceanography, marine geology, satellite oceanography and atmospheric science are programmed in a specified monitoring network with a defined timetable.

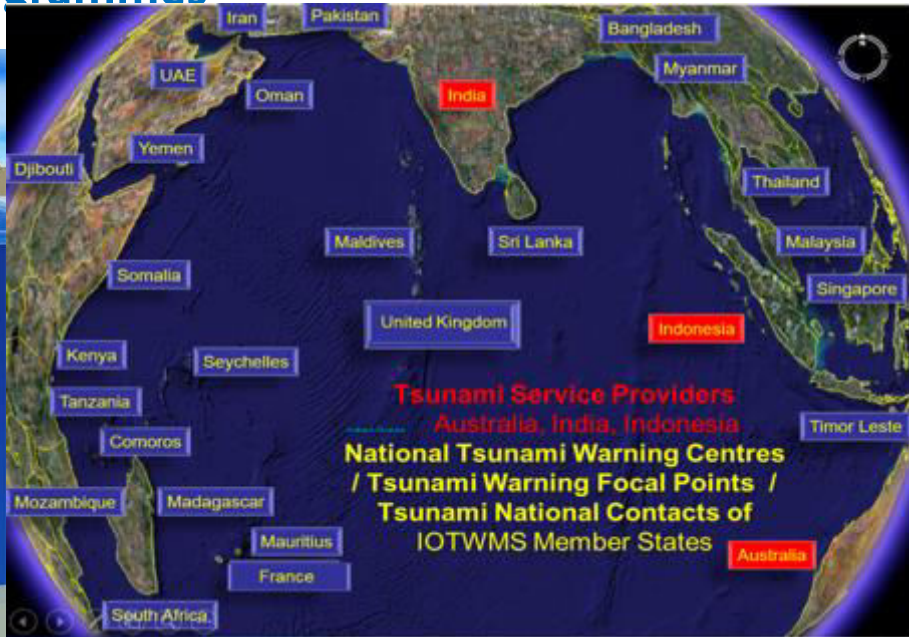
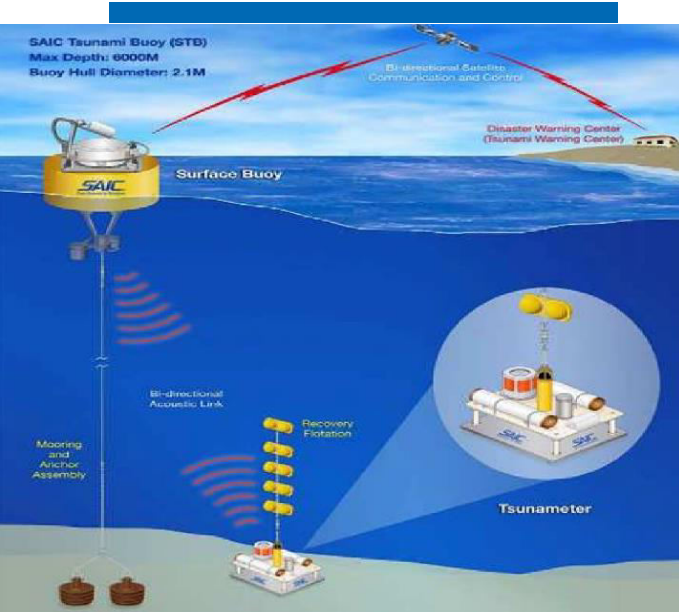


Tsunami Early Warning Systems in the Indian Ocean: State of Art: Sound Science base, Innovative technologies, fully operational and entirely funded by IOCINDIO Member States as Contributions to the IOC Global Tsunami Programmes



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Regional: Australia India, Indonesia National Centers in the IOCINDIO Member States countries



Training workshop on the Indian Ocean Tsunami, Iran

National & Regional Contributions to **IOCINDIO** Work Plan and **IOC Global Programmes** (National Reports available)

The UAE National Carbon Sequestration programme



Regional Planning for the Northern/Central Indian Ocean countries as well as ROPME sea area **towards the UN Decade of Ocean Science for Sustainable Development (2021-2030)**

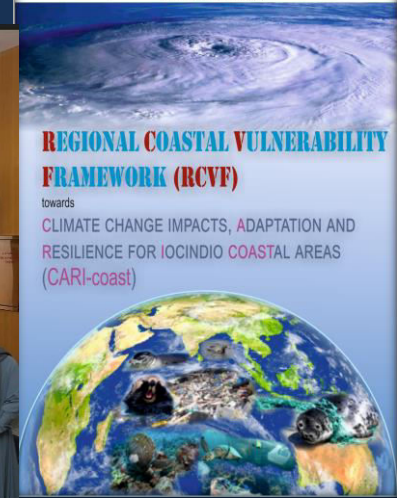


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Regional Framework for Coastal Vulnerability towards the Safety, Security and Sustainable Development of Member States in the Indian Ocean.

Indian Ocean Blue Economy Summit towards **United Nations Decade of Ocean Science for Sustainability (2021-2030), May 6, 2021, online**



Bangladesh intergeneration programme on ocean and coastal education



First Gulf Regional Whale Shark Forum
Qatar, 22 May 2023

National & Regional Contributions to IOCINDIO Work Plan and IOC Global Programmes (National Reports available)



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Regional Training Courses for the Northern/Central Indian Ocean and West Asia countries towards the UN Decade of Ocean Science for Sustainable Development (2021-2030),

The First Webinar on **Effect of Climate Change** on the **Indian Ocean Marine Environment** for the **Northern/Central Indian Ocean and West Asia** towards **United Nations Decade of Ocean Science for Sustainability (2021-2030), May 10, 2021, online**

**The First Webinar on
Effects of Climate Change on
the Indian Ocean Marine Environment
(Online)**

May 10, 2021 at 11:00-16:00 Tehran time (GMT +4:30)
<https://www.iora-rcstt.org/node/129>

**Third Workshop on
Effects of Climate Change on
the Indian Ocean Marine Environment**

20-22 February 2023 Tehran, Islamic Republic of Iran

Organizers:
IIRL Regional Centre for Science & Technology Frontier (IRSTI)
Iranian Research Organization for Science and Technology (IROST)
The United Nations Institute for Oceanography and Technology Science (UNIOS)
UNESCO Category 2 Regional Education and Research Centre on Oceanography for West Asia (RCOWA)
<https://ecoc2023.conf.irost.ir/en>

Target Participants:
Experts from the Science Based/Policy Process (SBPP) on climate change and marine resources in coastal, deep-sea and open ocean areas.

Registration:
The SBPP Science Based and Policy Process will be held in a hybrid mode (online and face-to-face).
For registration, please fill the registration form and send it to: info@ecoc2023.org
Registration deadline: 15 February 2023

**Third Workshop on
Effect of Climate Change on the
Indian Ocean Marine Environment
for the Northern/Central Indian
Ocean and West Asia towards United
Nations Decade of Ocean Science for
Sustainability (2021-2030), February
20-22, 2023, Iran**

**Regional Training Course on
Data Analysis and Ocean Observing Instruments (Online)**

29-31 August 2021 - 11:00 am - 13:00
Tehran time (+4:30 GMT)

Organizer: UNESCO Category 2 Regional Education and Research Centre on Oceanography for West Asia (RCOWA)

Lecturer:
Dr. Seyed Mostafa Siadatmousavi
Assistant Professor, Institute of Civil Engineering,
Iran University of Science and Technology, Iran

Headlines:
A quick review of different instruments with their basic/techniques involved to measure real ocean parameters, the applications of each instrument and their inherent limitation.
A review of available remote sensing data for different remote applications by highlighting on their data.
A quick review of basic MATLAB commands required for data processing.
The basic data analysis techniques and modules to be used for processing the data from these instruments in MATLAB.
Available software course packages for applying data analysis techniques.

Registration:
For registration, please fill the following registration form and send it to the email: info@rcoww.org

Title (Mr./Ms./Prof./Dr.)	Full Name	Major/Field	Academic Degree and Field of study	Institution/University	Country	Email
*	*	*	*	*	*	*

Registration Deadline: 16 August 2021

**REGIONAL TRAINING COURSE ON:
COASTAL DESALINATION INTAKE AND
BRINE DISPOSAL SYSTEM- PLANNING
DESIGN AND IMPLEMENTATION**

Headlines:
• Environmental impact of coastal desalination plants
• Sea water intakes and the design standards
• Brine discharge in coastal desalination plants
• Discharge modeling and water quality standards
• Integral models and numerical modeling
• Turbulent flow and CFD simulation

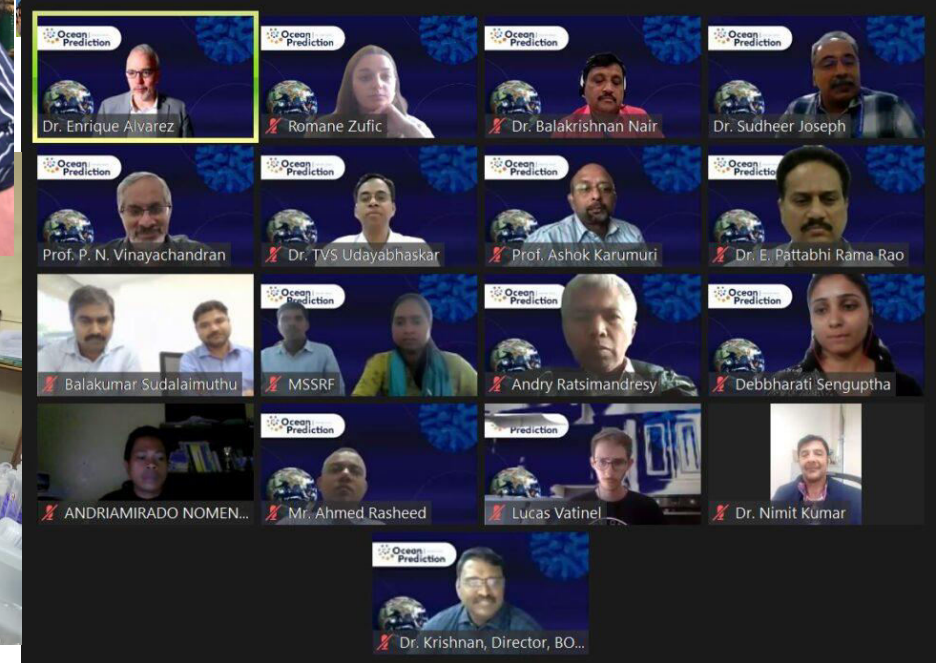
Lecturer:
Dr. Ozeair Abessi,
Assistant Professor,
Babol Noshirvani University of
Technology, Babol, Iran

Tehran time
11:00 AM-13:30 PM
27-29 OCTOBER 2021
ONLINE - EVERY DAY

Registration Deadline: 16 October 2021
The link of the training course will be sent to the email of the eligible participants on 21 October.
Email address: info@nioa.ia.ac.ir

Capacity Development: The ONLY 2 UNESCO Category 2 Centres in Ocean Sciences & Observations owned & funded by IOC/INDIO MS (Iran and India)

- **Regional education and research Centre on Oceanography for West Asia, Iranian National Institute for Oceanography and Atmospheric, Iran.**
- **International Training Centre for Operational Oceanography (ITCOOcean) at the Indian National Centre for Ocean Information Services in India.**
- **Ocean Teacher Global Academy, UNESCO Chairs: Iran, Oman, Qatar, Iran.**

2nd International Conference on Oceanography for West Asia (RCOWA-2020), 16-17 September 2020, Tehran, Iran

Trainees analyzing the water samples, ITCOOcean

Ocean Predict meeting on 3rd May 2023



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IOCINDIO-IX took an innovative approach with the exceptional organization of three unique high events including the following: The session organized three unique events to ensure regional ownership and leadership in ocean science for sustainable Development, namely the Senior Governmental and Regional Officials' Forum, the IOCINDIO Youth Forum and the IOCINDIO Symposium on Capacity Development.

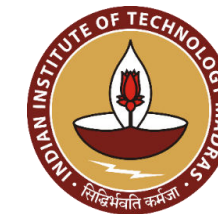
- **The Senior Governmental and Regional Officials' Forum** which brought together high-ranking policy-making dignitaries including Ministers, High-Commissioners and Plenipotentiary Ambassadors and Diplomats who expressed high-level governmental commitments of Member States to the work of the IOC, the Ocean Decade and to the IOCINDIO with regard to its reinforcement and enhancement in view of its transformation into an IOC Sub-commission for the central Indian Ocean.
- **The IOCINDIO Youth Forum** which fostered involvement of students and early careers ocean scientists in the work of IOCINDIO, promoting networking, mentoring and enhancement of national and regional capacity development.
- **The IOCINDIO Symposium on Capacity Development** which brought together UNESCO Category 2 Centres, Chairs, Ocean Teacher Academy, and partner academic and research institutions in ocean science, enabling exchanges of best practices and brainstorming on further possibilities to share research facilities.

Power & Strengths in Synergies, Partnerships & Cooperation



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Funding is challenging... Resources mobilisation



Ministry of Foreign Affairs
Bangladesh



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राष्ट्रीय तटीय अनुसंधान केन्द्र
पृथ्वी विज्ञान मंत्रालय, भारत सरकार
NATIONAL CENTRE FOR COASTAL RESEARCH
MINISTRY OF EARTH SCIENCES, GOVERNMENT OF INDIA

IOCINDIO Work plan based on the IOC Functions

- IOC Function A: Ocean Science and Research
 - Effects of human induced changes: Ocean acidification, eutrophication, hypoxia, harmful algal blooms (HABs) in coastal waters of the North-western Indian Ocean.
- IOC Function B: Observing Systems & Data
 - Ocean observations, coastal zone management, circulations and fisheries.
- IOC Function C: Ocean Hazards
 - Coastal vulnerability assessment for sea level rise and storm surges.
 - Monitoring with Responsible Response of Oil Spill in inner ROPME Sea.
- IOC Function D: Assessments & information for Policy
 - 2050 Integrated Ocean Policy Advice for Proactive Planning and Managements for IOCINCIO Member States.
- IOC Function E: Governance
 - Blue Economy Business opportunities in the context of climate change adaptation and Disaster Risk Reduction.
- IOC Function F: Capacity Development
 - “IOCINDIO Networking Research Infrastructures, Facilities and Human Resources” project proposal is a direct contribution to this function taking into account specificities in needs and capacities of Member States.
- IOCINDIO-MTS/IEEE/IIT partnership for Oceans-2022 Chennai.
 - Engagement with the UN Decade of Ocean Science for Sustainable Development (2021–2030)

The IOC Open-ended intersessional Working Group (OEIWG) on the Status of IOCINDIO



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- ♣ **7 good enthusiastic sessions, online from January 2022 to April 2023**
- ♣ **Progress Report to the 55th Session of the Executive Council, Paris, 14–17 June 2022: IOC/EC-55/3.5.2.Doc(1).**
- ♣ **Working Group adopted Unanimously the draft Resolution for the transformation of the Committee into an IOC Sub-Commission for the central Indian Ocean submitted to the 32nd Session of IOC, 21-20 June 2023.**

Election of officers, Place and date of the IOCINDIO-X

The session re-elected with acclamation the outgoing Officers of the Committee for a new intersessional period of two years from April 2023 to the next session in 2025.



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Chairperson: *Rear Admiral (retd) Khurshed Alam* (Bangladesh)

**Secretary, Maritime Affairs Unit
Ministry of Foreign Affairs, Dhaka**



Vice-Chairpersons

Dr Maryam Ghaemi (Iran)

Director of Persian Gulf Oceanography Center, Iran



Dr Saif AlGhais (United Arab Emirates)

**Director General, Environment Protection &
Development Authority**



Session expressed gratitude to the UAE for its offer to host the next session (IOCINDIO-X) which should be held in the first quarter of 2025 prior to the Ramadan.

RECOMMENDATIONS

IOCINDIO-IX expressed a deep gratitude to the Government of the People's Republic of Bangladesh for the generous hospitality with significant in-kind contributions, allowing the successful organisation of the session in Dhaka, 28-30 March 2023.

IOCINDIO-IX also expressed gratitude to IOCINDIO MS for their significant national resources to maintain, reinforce and build on the national capacities in ocean and climate sciences and technologies, in particular India, Kuwait, Iran, Pakistan for constant contributions allowing the full reactivation of IOCINDIO since 2016.

The Committee,

1. Adopted the IOCINDIO Work plan 2023-2025, and

2. Decided:

UN Decade

- To mobilize IOCINDIO Member States towards the establishment of UN Decade National and Regional Committees to foster implementation
- To organize a follow up Regional UN Decade Conference towards the Second UN Decade Conference. This conference should help to review and consolidate the national and regional plans.
- To submit a programme to the call for Decade Actions on Ocean Decade Challenge 1 – Marine Pollution, with a focus on sub-themes of plastic pollution and nutrient pollution, and/or Challenge 2 – Ecosystem Restoration and Management, with a focus on sub-themes of area-based management, restoration and multiple ocean stressors.

UN FCCC/COP28, United Arab Emirates, 30 November–23 December 2023

- To organize IOCINDIO Conference on Global Warming, Climate Change and Ocean Sciences upon the offer of the IOCINDIO Vice-Chair, Dr Saif Al Ghais (UAE)

Coastal Vulnerability

- **To organize a Global Conference on Coastal Vulnerability in 2024.**



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THANK YOU

