

1. Summary of the Integrated annual meetings of IOGOOS and its allied Programs

Integrated Annual Meetings of IOGOOS and its allied programs—Indian Ocean Regional Panel (IORP), Sustained Indian Ocean Biogeochemistry and Ecosystem Research (SIBER), IndOOS Resource Forum (IRF), and the International Indian Ocean Expedition-2 (IIOE-2) Steering Group—along with KUDOS were held at Labourdonnais Waterfront Hotel, Port Louis, Mauritius during May 5 – 9, 2025. The Integrated meetings were hosted by the “Department for Continental Shelf, Maritime Zones Administration & Exploration of the Prime Minister’s Office, Republic of Mauritius”. The event brought together approximately 30 international delegates representing member states of the Indian Ocean Global Ocean Observing System (IOGOOS) and the leads and members of its projects and programs. Of these, 10 participants were extended full financial sponsorship through the IOGOOS budgetary provisions, under the generous support of the Intergovernmental Oceanographic Commission (IOC) of UNESCO. The funds were administered in coordination and with the support of GOOS Project Office, France. These integrated meetings aimed to review the progress and scientific knowledge gained through the concerted efforts of these regional bodies and to formulate action plans addressing key issues in line with the goals of the UN Decade of Ocean Science for Sustainable Development (2021–2030). A brief report on the day-to-day proceedings is given below. A detailed agenda of the programme is enclosed as an Annexure to this document.

These integrated meetings were formally commenced on May 05, 2025, with an inaugural session graced by dignitaries, including Dr. Rezah Badal (Republic of Mauritius), Dr. Brett Molony (IOGOOS Interim Chair), Dr. Balakrishnan Nair (Director, INCOIS), and Dr. Hon’ble. Arvin Boolell (Minister of Agro-Industry and Blue Economy, Mauritius). Their addresses underscored regional priorities in maritime security, blue economy development, and scientific cooperation. Plenary science sessions covered GOOS governance, marine spatial planning, satellite data applications, and the Ocean Decade Tsunami Programme. Notable presentations included: Marine spatial planning initiatives in Mauritius and the Western Indian Ocean, Ocean acidification research and SMART FAD deployment & ENSO impacts and regional upwelling research initiatives (WIOURI, EIOURI).

The second day of the meeting commenced with a plenary session focusing on the Second International Indian Ocean Expedition (IIOE-2). The session opened with presentations on IIOE-2 progress reports and thematic scientific priorities. Subsequently, national IIOE-2 committees from participating countries presented updates on their respective contributions, highlighting achievements and ongoing research efforts. Reports from IIOE-2 Working Groups and Science Theme leaders underscored significant progress in areas such as boundary current dynamics, monsoon variability, and the occurrence and impacts of extreme climatic events.

The third day was dedicated to the IIOE-2 Steering Committee Meeting, where deliberations centered on the proposed extension of the IIOE-2 initiative through 2030, along with the revision of its implementation strategy to align with emerging regional and global priorities. The session also included initial discussions and planning for the upcoming Indian Ocean Science Conference (IIOSC-2025). The day concluded with a joint session between the Indian Ocean Regional Panel (IORP) and the Sustained Indian Ocean Biogeochemistry and

Ecosystem Research (SIBER) project, focusing on collaborative approaches and scientific synergies.

The fourth day featured parallel business meetings of the IORP and SIBER groups. These sessions covered programmatic updates, strategic planning, and membership considerations. The 17th session of the Indian Ocean Region Forum (IRF-17) provided a platform for reviewing the status of ocean observing systems and discussing governance frameworks to support effective regional coordination. The day culminated in the General Body Meeting of the Indian Ocean Global Ocean Observing System (IOGOOS), where administrative matters, the progress of ongoing projects, the proposal of new initiatives, and the election of key positions were addressed. The detailed report of AGM is given below at Sl. No.2.

The final day featured two dedicated workshops: the KUDOS Workshop and the Early Career Scientist Network (ECSN) Workshop. The KUDOS Workshop focused on advancing scientific knowledge and research capabilities within the Indian Ocean region, fostering discussions on current scientific gaps and priorities. Following this, the ECSN Workshop emphasized the importance of early-career engagement in ocean science. It included interactive panel discussions and collaborative brainstorming sessions.

2. IOGOOS Annual General Body Meeting

2.1. Welcome by Chair IOGOOS

Dr. Brett Molony, Interim chair, IOGOOS welcomed all the members and experts to the IOGOOS 20th Annual General Body Meeting and requested to make the secretariat report

2.2. Remarks by IOGOOS Officers

Dr. Jenny Huggett, IOGOOS officer emphasized the importance of strengthening regional collaboration to enhance ocean observations across the Indian Ocean region. It was highlighted that greater involvement of early-career scientists should be encouraged, enabling them to actively participate in observational activities and collaborate with national and regional institutions. The officer also stressed the need to promote the adoption of Essential Ocean Variables (EOVs) and to improve the systematic collection and sharing of standardized observations. Such efforts will contribute to strengthening regional databases and advancing effective ocean monitoring and research in the region.

2.3. Presentation of Secretariat Report and Accounts and Financial Summary of IOGOOS by Secretariat by Mr. Nagaraja Kumar

Mr. Nagaraja Kumar, Secretary of IOGOOS, provided an update on the action take report and presented the financial summary of IOGOOS. The detailed action take report is attached at **Annexure 1** below.

Mr. Nagaraja Kumar also addressed the issue of IRF leadership, noting that Dr. David Legler was approached for the role based on the recommendation of the retiring IRF Chair and discussions held during IR meetings. However, he was unable to accept the position due to prevailing circumstances and policy constraints in the United States. The Secretary

further highlighted ongoing IOGOOS programmes, stating that member institutes continue to sustain and enhance ocean observing platforms across the region. He noted that the Modelling for Ocean Forecasting and Process Studies (MOFPS) initiative was strengthened through the organization of a major IO Predict Workshop, while remote sensing products are being disseminated under the Indian Ocean Core Remote Sensing Project to support regional ocean observations and research.

The talk also focused on capacity building and service efforts linked to Indian Ocean forecasting. An Indian Ocean Prediction Training-cum-Workshop was held to improve the skills of rising scientists and practitioners in ocean prediction. It was highlighted that INCOIS supplies RIMES member countries with 3-day ocean forecasts. The web portal also featured updates on ocean forecast and remote sensing goods and services, such as Marine Heatwave (MHW) advisory services. High-pressure systems, reduced cloud cover, increased solar radiation, suppressed latent and sensible heat fluxes, changes in ocean advection and convection, reduced coastal upwelling, and large-scale climate drivers such as Rossby and Kelvin waves, as well as teleconnections such as ENSO, IODM, and MJO on different time scales, all have an impact on marine heatwaves. Furthermore, IOGOOS capacity-building initiatives funded more than 10 training programmes, allowing member institutions to participate in regional meetings and workshops. The financial report covers a full audit from April 2023 to March 2024, as well as financial accounting from April 1, 2024 to March 31, 2025. The statement of accounts was submitted for verification and approval, and the Chair was asked to choose an officer to evaluate and certify the accounts. The accounts verification was done and accepted by the AGM.

2.4. Amendment of IOGOOS MoU Proposal by Mr. Nagaraja Kumar

Mr. Nagaraja Kumar put forth the amendments that need to be made in IOGOOS MoU. He highlighted that during previous annual meetings; it is proposed to make the Annual membership fees of UD500 as a voluntary contribution rather than a fixed fee so as to encourage many member institutions to join and continue their association with IOGOOS. However, a formal adaptation of this change was not made and hence led to the amendment of the MoU. The amendment was proposed in the clauses of 4.1, 12.1, and 12.2. The AGM has agreed to these amendments and the amended MoU is attached at **Annexure 2**.

2.5. Confirmation of new memberships, if any

It was brought to the notice of the AGM that Department for Continental Shelf, Maritime Zones Administration & Exploration of Prime Minister's Office of Mauritius showing interest to join IOGOOS. The AGM appreciated and welcomed the same. Tasked the Secretariat to pursue and complete the procedures as stipulated in the MoU.

2.6. Elections of chair, IOGOOS and officers if any

Under the Governance structure the present officers have been elected in between the sessions (in 2019 / 2020 / 2021) and with a gap of almost one year, their tenure is continued and their present tenure is up to October 2025. As the Chair stepped down, Dr. Brett Molony has been requested to act as an Interim Chair, and this AGM was requested to

select a Chair. Keeping in view of this, Dr. Brett Molony was requested to continue as the regular chair for a term of two years. The Officer position representing Central Indian Ocean is vacant and was advised to seek nominations out of session.

2.7. Hosting of the IOGOOS Secretariat Post November 2026

The tenure of the Secretariat at INCOIS is coming to an end by October 2026 and Secretary IOGOOS informed that he will send a formal notification to all member institutes seeking their interest to host the secretariat Post 2026.

2.8. Discussion on taking up of new projects of Interest to the region, if any (in the content of IOCINDIO Sub Commission and linkages to GOOS Strategy)

As there are no specific requests for taking up of the new projects, the agenda point is treated as completed

2.9. Next meeting date, venue, and hosting – to be considered with joint input from IOGOOS, IORP, SIBER, IRF, IIOE-2 Co-Chairs and other leads from KUDOS, ECSN, IOCNDIO, etc.

The decision regarding the location and dates of the subsequent annual meeting will be made in collaboration with all of the leads of IORP, SIBER, IRF, and IIOE-2. The Chair noted that the Korea Institute of Ocean Science and Technology (KIOST), which is located in Busan, South Korea, expressed interest and offered to host these integrated meetings in Busan. The AGM accepted the offer and tasked the Secretariat to coordinate with all leads to finalize the dates.

2.10. Any other final items

No other agenda items were put forth by the members. In conclusion, the Chair expressed gratitude to all of the attendees and members for their active involvement and thanked the host for facilitating the meetings.

3. List of Participants:

Sno	Participant Name	Organisation/Designation
1	Mrs. Huggett Jenny	Specialist Scientist, DFFE, South Africa
2	Mr. Menon Puthenveetil, Narayan Vinayachandran	Professor and chairman, IISC, Bangalore, India
3	Ms. Morris Tamaryn	Ocean and polar coordinator, SAEON, South Africa
4	Mrs. Beckley Lynath	Senior Lecturer, MURDOCH University, Australia
5	Dr. D' Adamo Nick	Adjacent Research Fellow, UWA, Australia
6	Mr. Gaye Birgit	Hamburg University

7	Prof Hermes Juliet	NRF-SAEON, South Africa
8	Prof Hood Raleigh R	Professor, University of Maryland center for environmental Science, USA
9	Prof Victoriz Coks	USA
10	Dr. Kobryn Halina Teresa	Senior Lecturer, MURDOCH University, Australia
11	Mr. Kiran Kumar	Scientist, INCOIS, India
12	Mr. Nagaraja Kumar	Secretary, IOGOOS and Scientist, INCOIS, India
13	Dr. Aneesh Lotliker	IIOE-2 JPO Coordinator, SIBER ED, IRF Convener, Scientist, INCOIS, India
14	Mr. Masumoto Yukio	University of Tokyo, Japan
15	Dr. Molony Brett	CSIRO, Australia
16	Nurhati, Intan Suci	BRIN, Indonesia
17	Dr. Phillips Helen	Professor, University of Tasmania, Australia
18	Pinn, Woo Sau	CEMACS, Malaysia
19	Prof Porri Francesca	NRF-SAIAB, South Africa
20	Mr. Rama Rao Patabhi	IIOE-2 Working Group-2, Scientist, INCOIS, India
21	Prof Reason Chris	University Cape town, South Africa
22	Dr. Singh Shikha	Scientist, IITM, India
23	Tummala Srinivasa Kumar	Head, UNESCO IOC /IOTWMS, Australia
24	Prof Uddin, Sheikh Aftab	Professor, University of Chittagong, Bangladesh
25	Mr. Yoo Sinjae	Korea Institute of ocean Science And Technology, South Korea
26	Dr. Koll Roxy Mathew	Scientist, IITM, India
27	Dr. Balakrishnan Nair	Director, INCOIS, India
28	Dr Danceja Mawren	SAEON, South Africa
29	Dr. Dong-Jin Kang	KIOST, South Korea
30	Dr Taekeun RHO	KIOST, South Korea
31	D. Eric Raes	MINDEROO
32	Eunsun Lee	Seoul Natt University, South Korea
33	Somang Song	Seoul Natt University, South Korea

34	Saranya. JS.	Seoul Natt University, South Korea
35	Suyun Noh	KIOST, South Korea
36	Soyun Kim.	KIOST, South Korea
37	Sujin Kang.	KIOST, South Korea
38	Jung Hoon Kang	KIOST, South Korea
39	Minju Kim	KIOST, South Korea
40	Si Hyeong Kim	Seoul Natt University, South Korea
41	Jong Hun Han	Seoul Natt University, South Korea
42	JOAQUIM GOES	Lamont Research Professor, Columbia Climate School, Columbia
43	Dr Aditi Modi	ECOP, Scientist, IITM, India

**IOGOOS Workshop and integrated annual meetings May 5-9, 2025 at Port Louis,
Mauritius, India**

Venue: Labourdonnais Waterfront Hotel, Port Louis, Mauritius

**Host: Department for Continental Shelf, Maritime Zones Administration & Exploration
of Prime Minister's Office, Republic of Mauritius**

<p>Microsoft Teams</p> <p><u>Join the meeting now</u></p> <p>Meeting ID: 457 679 935 399 9</p> <p>Passcode: Wf2xz2dW</p>	
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IOGOOS Annual General Body Meeting	
1.1	Welcome by Chair, IOGOOS Dr. Brett Molony
1.2	Remarks by IOGOOS Officers
1.3	Presentation of Secretariat Report and Accounts and Financial Summary of IOGOOS by Secretariat– Mr. Nagaraja Kumar
1.4	Amendment of IOGOOS MoU – Proposal by Mr. Nagaraja Kumar
1.5	Confirmation of new memberships, if any
1.6	Elections of Chair, IOGOOS and Officers if any
1.7	Hosting of the IOGOOS Secretariat Post November 2026
1.8	Discussions on taking up of new projects of Interest to the region, if any (in the context of IOCINDIO Sub Commission and linkages to GOOS Strategy)
1.9	Next meeting date, venue, and hosting - to be considered with joint input from IOGOOS, IORP, SIBER, IRF, IIOE-2 Co-Chairs and other leads from KUDOS, ECSN, IOCINDIO, etc.
1.10	Any other final items

INDIAN OCEAN GLOBAL OCEAN OBSERVING SYSTEM (IOGOOS)
 INCOIS, "OCEAN VALLEY", PRAGATHINAGAR (BO), NIZAMPET(SO), HYDERABAD-500090, INDIA
 Phone:+91 40 23896031, 040 23895013; email:logos@incois.gov.in

Receipts and payments Account for the period from April 1, 2024 to March 31, 2025

Receipts	Amount (Rs.)	Payments	Amount (Rs.)
Opening Balances:			
i) Union Bank of India, Pragathi Nagar Branch, Hyderabad, Account No.171410100022355	9,52,435.70	Bank charges	1.48
ii) Union Bank of India, Pragathi Nagar Branch, Hyderabad, Account No.171410100022346	55,03,288.13		
Interest received from savings accounts at banks	1,92,061.00		
Cash transaction dated 06.04.2024	1.00		
Inward remittance from UNESCO-contract No.4500498623	3,06,655.78		
IMPSAB/431300024903/PERFIOS SOFTWARE SO/0000000091	1.00		
Inward remittance from UNESCO-Contract No.4500521098	4,56,361.94		
Advance received from UNESCO Contract No.4500525367 (USD 23,720)	20,03,154.00		
		Closing Balances:	
		i) Union Bank of India, Pragathi Nagar Branch, Hyderabad, Account No.171410100022355	9,78,971.70
		ii) Union Bank of India, Pragathi Nagar Branch, Hyderabad, Account No.171410100022346	84,34,985.37
	94,13,958.55		94,13,958.55



IOGOOS 20TH ANNUAL MEETING

Action Taken Report by
IOGOOS Secretariat
M. Nagaraja Kumar
Secretary, IOGOOS

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IOGOOS ANNUAL MEETING

IOGOOS 19th Annual Report

- Prepared and uploaded the report to IOGOOS website.

IOGOOS 20th Meeting

- Coordinated with host institute PM Office, Mauritius and circulated the meeting information to members.
- The meeting agenda is prepared in consultation with Chair and Officers and circulated to IOGOOS Members

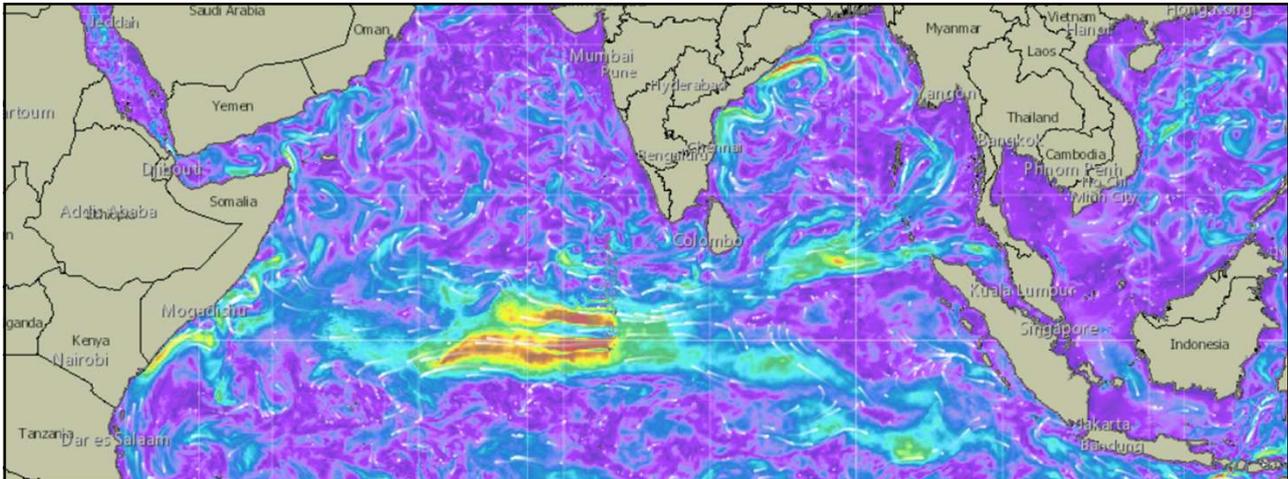
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IOGOOS 19 MEETING ACTION ITEMS AND POST ANNUAL ACTIVITIES

- IOGOOS Budgetary allocations by IOC
 - IOGOOS submitted its biennial Work plans and budget requirements to IOC
 - IOC agreed to allocated 70000 USD towards the same
 - Proposed three major activities (i) IO Predict Workshop (ii) Integrated Meetings of IOGOOS and (iii) IIOSC 2025 in December 2025
 - Thanks to the efforts of Dr. Marie and Dr. Srinivasa Kumar
- IOGOOS Trainings / Meeting participation
 - Several Capacity Building opportunities to IOGOOS Member institutes and financial supports
- IRF Leadership
 - Contacted, based on the suggestion by retiring IRF Chair and discussions at IR meetings, Dr. David Legler. But unable to join due to existing situations and policies in USA.
 - Will contact other potential IRF Members
- IOGOOS Projects
 - Sustained and enhanced ocean observing platforms by Member institutes
 - Modelling for Ocean Forecasting and Process Studies (MOFPS) – had a major IO Predict Workshop
 - Remote Sensing products dissemination as part of Indian Ocean Core Remote Sensing Project

3



MODELLING FOR OCEAN FORECASTING AND PROCESS STUDIES (MOFPS)



4



INDIAN OCEAN PREDICTION TRAINING CUM WORKSHOP

Empowering the Next Wave of Indian Ocean Prediction: IOPredict-2024

- December 04-13, 2024
- Member countries: India, Malaysia, South Africa
- Other countries: Brazil
- Sponsors: IOGOOS, ITCOOcean / INCOIS.
- 123 Participants from 04 countries
- Funds: 15,982 USD for 05 International Participants



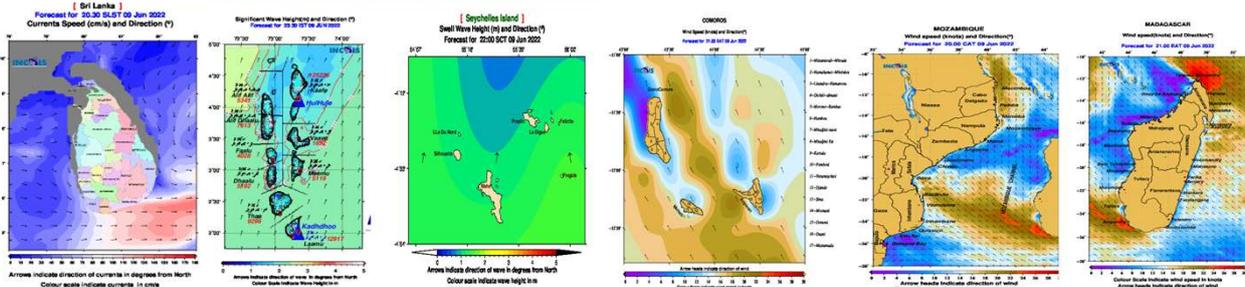
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Ocean Services for RIMES Member States



INCOIS provides Ocean Services to Regional Integrated Multi-Hazard Early Warning System for Africa and Asia (RIMES) countries (Maldives, Seychelles, Sri Lanka, Comoros, Madagascar and Mozambique) – 3-day forecast

Country	Parameters									
	Wave	Wave period	Swell	Swell period	Wind	Sea Surface Temperature	Mixed Layer Depth	Surface Currents	Location Specific stations	High Wave Alert
Maldives (3 regions separately)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	21	Yes
Seychelles	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	18	Yes
Sri Lanka	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	22	Yes
Comoros	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	15	Yes
Madagascar	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	15	Yes
Mozambique	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	16	Yes



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WEB PORTAL FOR OCEAN PREDICTION



Regional Specialized Meteorological Centre (RSMC)
for Numerical Ocean Wave Prediction
and Global Numerical Ocean Prediction
Indian National Centre for Ocean Information Services (INCOIS)



[Home](#) | [Publications](#) | [Waves](#) | [Ocean Prediction](#)

The Indian Ocean is a vast stretch of seavasser and a source of sustenance and livelihood for millions of people in the countries that border it. The marine resources of the Indian Ocean and the concept of the blue economy play a significant role in supporting the socioeconomic development and well-being of the populations living in this region.

Indian National Centre for Ocean Information Services (INCOIS) is an autonomous organization under the Ministry of Earth Sciences, Government of India. It was established in 1999 and has provided various ocean-related services since then. INCOIS started its wave forecast services from (25-05-2006) and augmented it with essential ocean variables from ocean general circulation models from (03-03-2015). INCOIS generates early warning advisories based on the state of the seas surrounding the Indian subcontinent and serves several island countries. These services are critical for the operational activities of offshore sea goers and onshore activities such as coastal tourism, ports and harbors etc.

INCOIS operationally runs a suite of wave and ocean general circulation models at different resolutions to provide early warning services to maritime stakeholders. Users of forecasts are equipped to take informed decisions based on the sea state conditions, avoiding loss of life and property. Thus, INCOIS services extensively contribute to the development of the blue economy in the region through its forecasts and advisory services. Forecasts of essential ocean variables at different time scales are thus crucial for a broad spectrum of users ranging from fishermen to offshore industries. Recognizing the role played by INCOIS in issuing forecasts for the region, the WMO Executive Council at its seventy-sixth session (EC-76) adopted the designation of RSMC Indian National Centre for Ocean Information Services (INCOIS) (India) for numerical ocean wave prediction and global numerical ocean prediction.

Waves



[View](#) | [Data Download](#)

Ocean Prediction



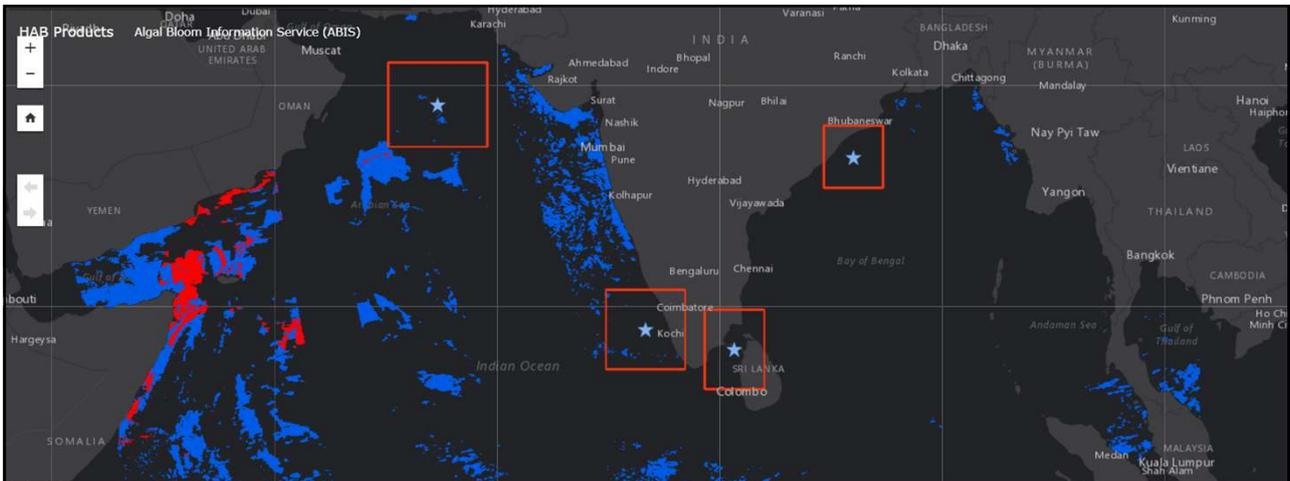
[View](#) | [Data Download](#)

Model Name	Domain	Resolution	Forcing	Mixing/DA	Model Name	Domain	Resolution	Forcing	Mixing	DA	
WAVEWATCH-III	Four nested grids covering Global Ocean	Global Ocean (1 x1 deg), Indian Ocean (0.5 x0.5 deg), Northern Indian Ocean (0.25 x0.25 deg) and coastal (10 Km x10 Km)	ECMWF forecast winds (0.25x0.25deg)	NA	Optimal Interpolation method: Assimilates Sig. Wave Height (SWH) from SARAL/AltiKa, Jason-2, Sentinel-3a and Sentinel-3b and all available in-situ SWH observations in the Indian Ocean	Hybrid Coordinate Ocean Model (HYCOM) version-2.35	20E-120E & 45S-30N	6.9 km (1/16) degree nested to a 25 km (1/4) Global Hycom	Atmospheric forcing: GFS Rivers: NRL climatology	KPP mixing	Method: Tendral Statistical Interpolation (Reduced Order Kalman Filter) Variables: AHNRS-SST, + L2 & L3 Along Track altimeter data, Argo profiles of Temperature & Salinity

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<https://incois.gov.in/oceanservices/rsmc.jsp>

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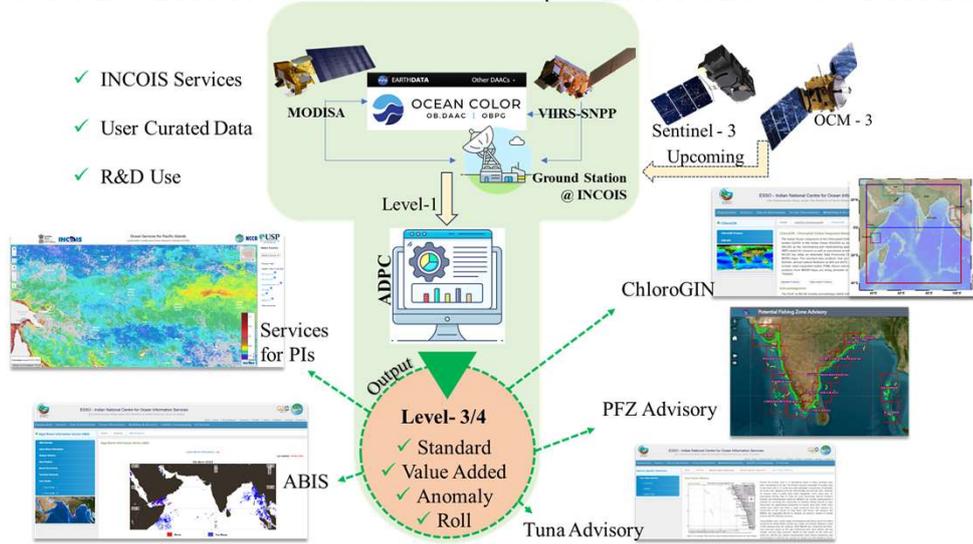
INDIAN OCEAN CORE REMOTE SENSING PROJECT



8

REMOTE SENSING PRODUCTS / SERVICES - UPDATES

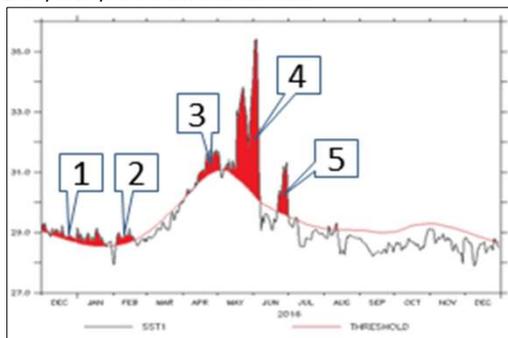
- ✓ INCOIS Services
- ✓ User Curated Data
- ✓ R&D Use



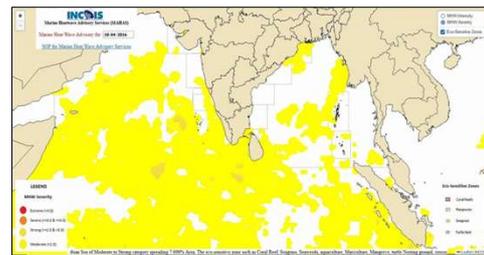
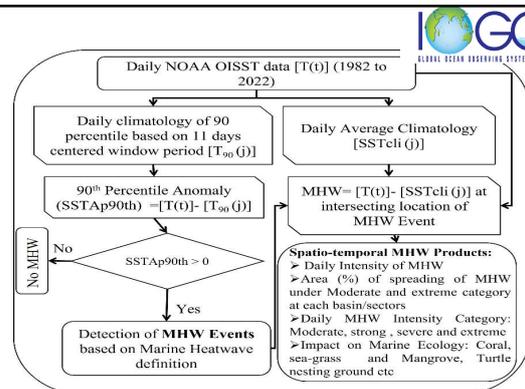
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MARINE HEAT WAVE ADVISORY SERVICES

- Marine Heatwaves (MHWs) are prolonged extreme oceanic warm water events.
- **Mechanisms of Genesis of MHW:**
High pressure zone, reduce the cloud coverage, Solar insulation, suppress the LHF and SHF, increase the advection and reduce the convection, reduce the coastal upwelling, Rossby and Kelvin planetary wave, teleconnection of ENSO, IODM, MJO in different time scale

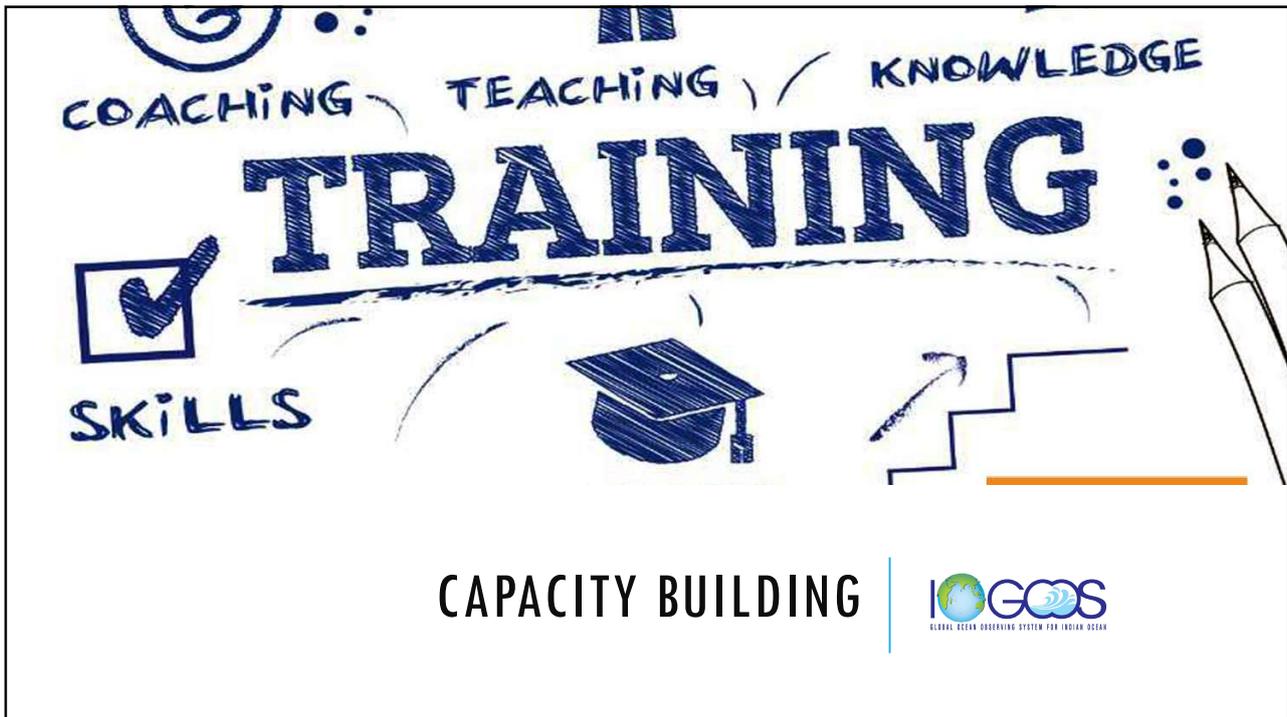


Identification of MHW window period based on Threshold limits



Mahanty et. al., 2021. Persistence of marine heat waves for coral bleaching and their spectral characteristics around Andaman coral reef. *Environmental monitoring and assessment*

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IOGOOS TRAININGS / MEETING PARTICIPATION

□ Training/Workshop on Tsunami Evacuation Maps, Plans, and Procedures and UNESCO-IOC Tsunami Ready Recognition Programme(TEMPP)

- 15 - 23 April 2025
- Member countries: Australia, Bangladesh, India, Indonesia, Iran, Kenya, Madagascar, Malaysia, Maldives, Mauritius, South Africa, Srilanka.
- Other countries: Comoros, Mozambique, Oman, Seychelles, Timor-Leste, UAE, UK.
- Sponsors: UNESCO-IOC , ITCOOcean / INCOIS.
- 41 Participants from 19 countries.



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IOGOOS TRAININGS / MEETING PARTICIPATION

Empowering the Next Wave of Indian Ocean Prediction: IOPredict-2024

- December 04-13, 2024
- Member countries: India, Malaysia, South Africa
- Other countries: Brazil
- Sponsors: IOGOOS, ITCOOcean / INCOIS.
- 123 Participants from 04 countries.



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IOGOOS TRAININGS / MEETING PARTICIPATION

OTGA-INCOIS Course: Coastal Vulnerability Mapping and analysis using QGIS

- November 25-29, 2024
- Member countries: Bangladesh, India, Indonesia, Malaysia.
- Sponsors: OTGA, ITCOOcean / INCOIS.
- 25 Participants from 04 countries.



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IOGOOS TRAININGS / MEETING PARTICIPATION

IOCCG - ITCOOcean Program : 2024 Summer Lecture Series Frontiers in Ocean Optics and Ocean Colour Science

- November 04 – 16, 2024
- Member countries: Bangladesh, France, India, Indonesia, South Africa, USA.
- Other countries: Brazil, Canada, Croatia, Italy, Lebanon, Lithuania, Peru, Russia, Spain, Uganda, Vietnam.
- Sponsors: POGO, ITCOOcean / INCOIS.
- 28 Participants from 16 countries.



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IOGOOS TRAININGS / MEETING PARTICIPATION

Training in operational Oceanography for ISBA trainees

- October 28- November 01, 2024
- Member countries: Kenya, Madagascar, Sri Lanka and Tanzania.
- Other Countries :Ghana, Jamaica, Nigeria.
- Sponsors: MoES, ITCOOcean / INCOIS.
- 21 Participants from 7 countries.



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IOGOOS TRAININGS / MEETING PARTICIPATION

□ OTGA-INCOIS Training Course: "Ocean Color Remote Sensing - Data, Processing and Analysis"

- October 21 – 25, 2024
- Member countries: India, Mozambique, Sri Lanka and Tanzania .
- Sponsors: OTGA, ITCOOcean / INCOIS.
- 21 Participants from 4 countries.



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IOGOOS TRAININGS / MEETING PARTICIPATION

□ Training Course on "Early Warning Systems of Tsunami & Ocean Related Hazards"

- September 02 – 06, 2024
- Member countries: 0
- Other countries: Oman
- Sponsors: ITCOOcean / INCOIS.
- 4 Participants from 1 country.



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IOGOOS TRAININGS / MEETING PARTICIPATION

□ On job training to officials from Mauritius on PFZ Services

- July 29 – August 02, 2024
- Member countries: Mauritius
- Sponsors: ITCOOcean / INCOIS.
- 2 Participants from 1 country.



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IOGOOS TRAININGS / MEETING PARTICIPATION

□ Customization of Ocean State Forecast Products

- May 20 – 24, 2024
- Member countries : Bangladesh, Maldives Myanmar and Sri Lanka.
- Other Countries : Myanmar
- Sponsors: RIMES, ITCOOcean / INCOIS.
- 11 Participants from 4 countries.



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IOGOOS TRAININGS / MEETING PARTICIPATION

▣ Ocean Observations to Coastal Applications

- January 29 – February 07, 2024
- Member countries: Bangladesh, India, Indonesia, Madagascar, Maldives Sri Lanka and Tanzania .
- Sponsors: POGO, ITCOOcean / INCOIS.
- 28 Participants from 7 countries.



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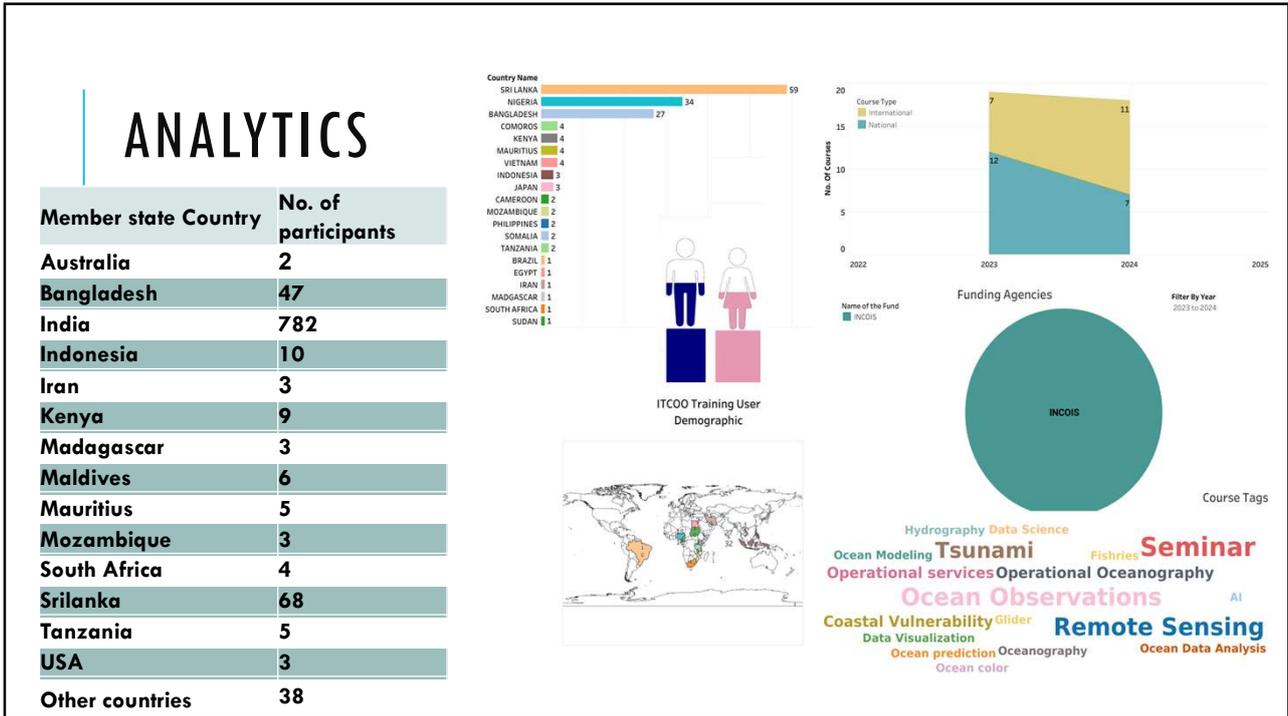
IOGOOS TRAININGS/ MEETING PARTICIPATION

▣ Fishery Oceanography for the Ocean Decade (F.O.O.D.)

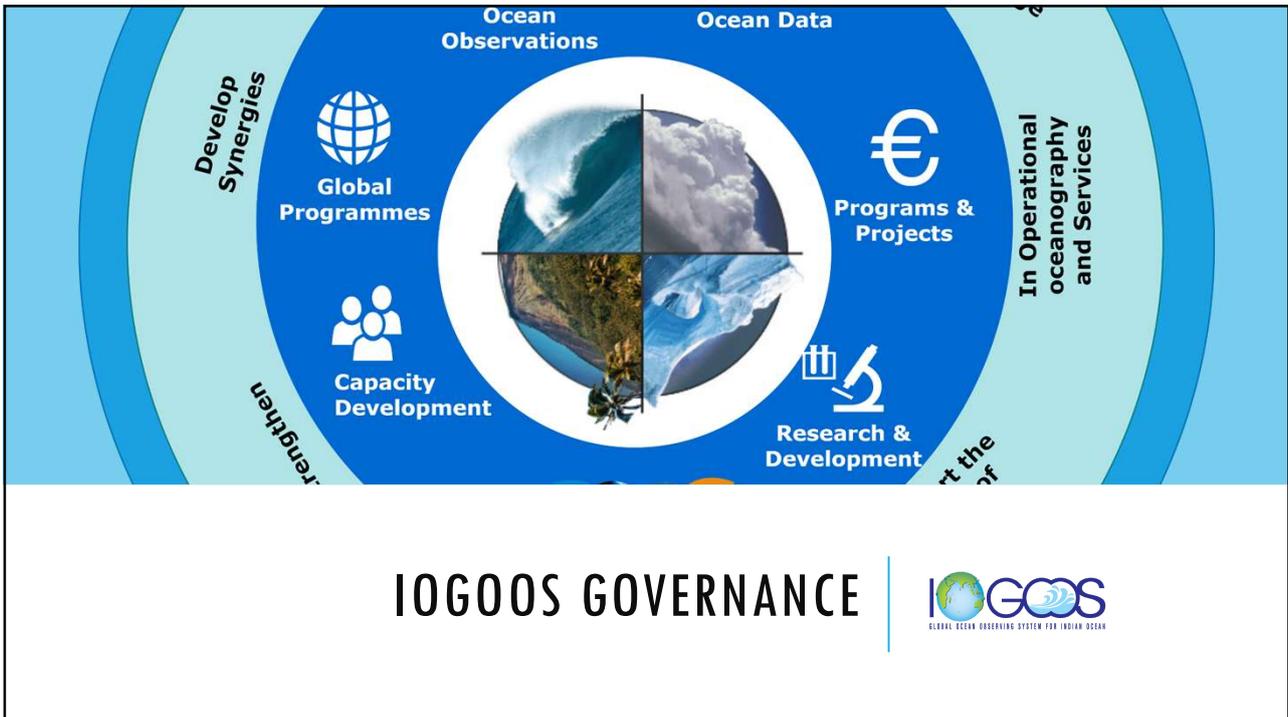
- January 18 – February 07, 2024.
- Member countries: Bangladesh, Indonesia, Kenya, Madagascar and Sri Lanka.
- Other Countries: Oman, Philippines.
- Sponsors: ITEC and ITCOOcean / INCOIS
- 11 Participants from 07 countries



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GOVERNANCE

- Elections of IOGOOS Officers
 - Present positions up to October 2025
 - IOGOOS Chair Stepped down and Vacant
- Memberships
 - Department for Continental Shelf, Maritime Zones Administration & Exploration of Prime Minister's Office of Mauritius showing interest
- Finance
 - Membership Fees
 - Now the membership is voluntarily, no membership requests were sent. The modalities for obtaining the voluntary contributions need to be framed.
 - The IOGOOS MoU need to amended. An amendment is proposed herewith.
 - Finance and Accounts Statement
 - Completed Auditing for the Period April 2023 – March 2024 and Financial Accounting for April 1, 2024 to March 31, 2025.
 - Statement of Account is being submitted for verification and approval.
 - Request Chair to nominate an officer to verify them and certify

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GOVERNANCE – PROPOSED MOU AMENDMENT

12.1. The primary source of funding for IOGOOS will be through **Annual subscriptions from Members and Voluntary contributions from Members**, GOOS or its Sponsors to a 'IOGOOS Central Fund' that will be used to support activities and operations of IOGOOS such as hosting meetings, organising workshops, adhoc study groups or pilot projects, hosting of Website, consulting services to national and multilateral bodies, employing consultants, financing publications, providing for their own costs of communications, and other items as agreed upon by Members at the Annual Meeting

12.1. The primary source of funding for IOGOOS will be through **Voluntary contributions from Members**, GOOS or its Sponsors to a 'IOGOOS Central Fund' that will be used to support activities and operations of IOGOOS such as hosting meetings, organising workshops, adhoc study groups or pilot projects, hosting of Website, consulting services to national and multilateral bodies, employing consultants, financing publications, providing for their own costs of communications, and other items as agreed upon by Members at the Annual Meeting

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GOVERNANCE – PROPOSED MOU AMENDMENT

12.2. The Annual Subscription is fixed, initially, as USD 500/- per Member. The Annual Meeting shall revise the Annual Subscription, as necessary.

Memberships:

4.1. IOGOOS Members will be national organizations (authorities, agencies, ministries, institutes) from the region who are willing to advance GOOS in their country and actively contribute to its extension in the Indian Ocean region

12.2. The Annual Subscription is **voluntary**, and the annual meeting shall revise the annual subscription, as necessary

4.1. IOGOOS Members will be national organisations (authorities, agencies, ministries, institutes) from the region who are willing to advance GOOS in their country and actively contribute to its extension in the Indian Ocean region. **The institutions of the leaders of IOG00 project / programmes such as SIBER, IORP, IRF, IIOE-2 and other partners from the region such as IOCINDIO, GRA Council and leaderships/ Secretariat heads of collaborating patrons and major sponsors of these groups (eg IOC-GOOS, ICPO, IMBER) may be invited to become standing members of IOGOOS.**

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INDIAN OCEAN GLOBAL OCEAN OBSERVING SYSTEM (IOGOOS)
 INCOIS, "OCEAN VALLEY", PRAGATHI NAGAR (BO), NIZAMPET (SO), HYDERABAD-500090, INDIA
 Phone: +91 40 23896031, 040 23895013; e-mail: iogoods@incois.gov.in

Receipts and payments Account for the period from April 1, 2024 to March 31, 2025

Receipts	Amount (Rs.)	Payments	Amount (Rs.)
Opening Balances:			
i) Union Bank of India, Pragathi Nagar Branch, Hyderabad, Account no 171410100022355	9,52,435.70	Bank charges	1.48
ii) Union Bank of India, Pragathi Nagar Branch, Hyderabad, Account no 171410100022346	55,03,288.13		
Interest received from savings accounts at banks	1,92,061.00		
Cash transaction dated 06.04.2024	1.00		
Inward remittance from UNESCO-contract No.4500498623	3,06,655.78		
IMPSAB/431300024903/PERFIOS SOFTWARE SO/0000000091	1.00		
Inward remittance from UNESCO -Contract No. 4500521098	4,56,361.94		
Advance received from UNESCO contract No: 4500525367 (USD 23,720)	20,03,154.00		
		Closing Balances:	
		i) Union Bank of India, Pragathi Nagar Branch, Hyderabad, Account no 171410100022355	9,78,971.70
		ii) Union Bank of India, Pragathi Nagar Branch, Hyderabad, Account no 171410100022346	84,34,985.37
	94,13,958.55		94,13,958.55

Asst. Manager
 F&A



Finance & Accounts Officer
 (Devendra Kumar)

देवेंद्र कुमार / Devendra Kumar
 वित्त एवं लेखा अधिकारी / Finance & Accounts Officer

(S. NAGSWARA RAO)
 Sr Accounts Officer &
 Head-ESG (Addl. Charge)

INCOIS
 S Nagaswara Rao
 Senior Accounts Officer &
 Head-ESS (Addl. Charge)

M. Nagaraja Kumar
 (M. NAGARAJA KUMAR)
 Secretary, IOGOOS

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THANK YOU

<https://incois.gov.in/iogoos/home.jsp>

iogoos@incois.gov.in



Global Ocean Observing System for Indian Ocean

IOGOOS Memorandum of Understanding

Memorandum of Understanding on the creation of an Association of marine operational and research agencies/institutions/ministries/authorities in the Indian Ocean Region, hereinafter referred to as IOGOOS, whose Members seek to foster cooperation on the Global Ocean Observing System

NOTING that the lives of at least 1.5 billion people on this planet Earth are profoundly influenced by the Indian Ocean characterised by a fragile living environment that is sensitive to climate changes, natural disasters and human impact,

REALISING the imperative need to take a pro-active role and concerted actions to understand the Ocean and Coasts for making informed decisions that save lives and protect living habitats and resources in the Indian Ocean region,

INTENDING to contribute, collectively, to the progress of ocean observations, ocean science and operational oceanography, focussing on these imperative needs of the Indian Ocean region,

RECOGNISING the important role taken by the Global Ocean Observing System (GOOS) sponsored by United Nations Agencies (Intergovernmental Oceanographic Commission of UNESCO; World Meteorological Organisation; and United Nations Environment Programme) and the International Council Science, to facilitate a global coordination of ocean and coastal observing systems and to catalyse formation of alliances between nations to focus effort on their pressing regional concerns,

NOTING the other programmes of IOC such as IODE and ODINAFRICA

DESIRING to establish IOGOOS to provide an organizational framework for planning, coordination and effective implementation of appropriate regional and sub-regional ocean and coastal observing systems and services,

FURTHERING the efforts of the High level Consultations at the Indian Ocean Principals' Meeting held on November 8-9, 2001 at New Delhi that established the IOGOOS Development Committee to lead the process of an Indian Ocean GOOS Regional Alliance,

the undersigned agree to the following Articles:

Article 1: Creation of IOGOOS

By signing this Memorandum of Understanding, the Agencies/Institutions/Ministries/Authorities agree to (a) establish IOGOOS, an Association of marine operational and research agencies in the Indian Ocean region, (b) to become Members of IOGOOS and (c) to co-operate in promoting GOOS in the Indian Ocean region.

Article 2: Aims and Objectives of IOGOOS

Members of IOGOOS will collaborate and work together for developing programmes for the implementation of GOOS in the Indian Ocean and for promoting activities of common interest for the development of operational oceanography in the Indian Ocean region, broadly to:

- (i) Enhance the Ocean Observing System in the region,
- (ii) Promote and facilitate efficient and effective management, exchange and utilisation of oceanographic data,
- (iii) Promote programmes and projects in operational oceanography and ocean services in the region meeting the requirements of end-users,
- (iv) Strengthen capacity building for enhancing the capabilities in the region,
- (v) Encourage research to support the needs of Users,
- (vi) Develop synergies with other ocean programmes and regional GOOS bodies, and
- (vii) Contribute to international planning and promotion of GOOS.

Article 3: Activities of IOGOOS

The activities of IOGOOS, accordingly, would include the following:

3.1 Enhancement of Ocean Observing System

- (i) Identify gaps and deficiencies in the existing/planned ocean and coastal observing system (in-situ and remote sensing) and develop a programme for realising a well-designed Ocean Observation System for the region, adhering to the 'GOOS principles'
- (ii) Promote the development of low cost and efficient instrumentation and observing systems

3.2 Data Management, Data Exchange and Communication

In accordance to the GOOS principles on data:

- (i) Promote the development of low cost and efficient systems for acquisition, management, processing and interpretation of data
- (ii) Expand and strengthen networking of countries using modern technology including internet for real and near real time exchange of data and products
- (iii) Promote the development of standardized operational data procedures, including data quality control and data management
- (iv) Provide high quality data and time series for a better understanding and improved management of the Indian Ocean ecosystem,
- (v) Collaborate with other programme and bodies in the field of data collection and data management
- (vi) Co-ordinate GOOS data acquisition with existing regional and national data gathering systems under the agreements and conventions (e.g. relating to pollution monitoring, marine meteorology, navigation, safety at sea etc.)
- (vii) Publish findings of meetings, workshops, studies and other documents commissioned by the IOGOOS members, submit documents to international meetings related to GOOS and assure collective representation of GOOS to regional and national agencies when requested by members.

3.3 Ocean Services

- (i) Identify priorities for operational oceanography and ocean services in the Indian Ocean region, based on evaluation of social and economic benefits,
- (ii) Promote the development of regional and local operational oceanography, taking into account the components of GOOS, for realising services and products of maximum value to the countries of the region
- (iii) Support operational oceanography and services in collaboration with marine-related public and private sector organizations and programmes

3.4 Capacity Building

- (i) Identify the training needs of countries in the region and promote organisation of training courses, workshops and seminars
- (ii) Promote the development of common infrastructure, major systems or capital installations required to support operational oceanography in Indian Ocean,
- (iii) Promote and aid capacity building, exchange of know-how, technology and personnel as well as collaboration, within the framework of GOOS;
- (iv) Promote pilot projects and studies in the countries of the region to demonstrate the economic benefits of GOOS, and
- (v) Strengthen collaboration with GOOS and JCOMM capacity building panels and IOC-TEMA including IOCINWIO and IOCINDIO capacity building programmes.

3.5 Research

- (i) Promote research and pre-operational research for solving problems relating to operational oceanography in the Indian Ocean,

3.6 Co-operation with other programmes and bodies

- (i) Contribute to international planning and implementation of GOOS,
- (ii) Assist in developing policies for the furtherance of GOOS and co-ordinate the best regional participation in GOOS, identifying where greatest value is added by collaboration
- (iii) Promote collaboration between existing regional multi-national Agencies/Institutions/Ministries/Authorities, programmes, organisations, and initiatives having expertise in oceanography, operational systems, and remote sensing of the ocean,
- (iv) Collaborate, as appropriate, with GOOS-Africa, NEAR-GOOS, SEA-GOOS, WAGOOS and WIOMAP through joint projects and activities,
- (v) Cooperate, as appropriate, with organisations concerned with the assessment of climate change, global environmental research, and the impacts of climate variability and climate change,
- (vi) Promote collaboration with space agencies/institutions/ministries/authorities and remote sensing scientists and engineers so as to ensure optimum integration of both in situ and remote sensing data in operational oceanography;
- (vii) Promote collaboration between institutes and agencies in providing/attracting aid and assistance to developing countries for operational oceanography, and the necessary capacity building, and
- (viii) Provide as appropriate, expertise, consultants, etc., to the GOOS Steering Committee (GSC), IOC WMO UNEP Committee for GOOS (I-GOOS), and to the international sponsoring agencies/institutions/ministries/authorities of GOOS

Article 4: Membership

- 4.1 IOGOOS Members will be national organisations (authorities, agencies, ministries, institutes) from the region who are willing to advance GOOS in their country and actively contribute to its extension in the Indian Ocean region. The institutions of the leaders of IOGOOS project / programmes such as SIBER, IORP, IRF, IIOE-2 and other partners from the region such as IOCINDIO, GRA Council and leaderships/ Secretariat heads of collaborating patrons and major sponsors of these groups (eg IOC-GOOS, ICPO, IMBER) may be invited to become standing members of IOGOOS.
- 4.2 All members of IOGOOS shall register a contact point and a Representative with the Secretary of IOGOOS. IOGOOS communications shall be sent to both the contact point and the Representative. The Representative shall participate in Annual Meetings and be eligible for election as an Officer. The Representative should have an authority, or have a delegated authority, to take decisions and vote at the Annual Meeting. A member may change the Representative for the Annual meeting by notifying the Secretary in writing or by email prior to the Annual Meeting.
- 4.3 Multi-national organisations of the Indian Ocean region and Agencies or Institutes from outside the Indian Ocean region with an interest in Indian Ocean operational oceanography or research may be admitted as Associate Members of the Association at its discretion. Associate Members of IOGOOS will not have the right to vote at Annual and General Meetings but shall have all other rights, privileges and obligations as given to Members including the payment of an annual subscription.
- 4.4 The signatories to this MoU have been admitted as the initial Members of IOGOOS.

- 4.5 Admission of a new Member to IOGOOS shall be done by the Annual meeting, based on written application made to the Secretariat of IOGOOS. Such application shall be made by the Head of the Agency and seconded by at least two Members.
- 4.6 When any Agency from a country wishes to join IOGOOS and there is already one or more Member(s) from that country, the applicant shall include a written statement that the existing Member(s) agree(s) to the Membership of the new Member and that the agencies/institutions/authorities from the same country will work in collaboration.
- 4.7 A Member may withdraw from IOGOOS by giving at least six months notice to the Secretariat. Its departure takes effect on the 31st December of the year in which it notified its decision. A Member remains liable for its commitments made prior to the decision to leave unless agreed differently by the remaining Members acting unanimously.
- 4.8 In the event of a Member not meeting its obligations, financial or otherwise, an Annual Meeting acting by a two-thirds majority (not counting the concerned Member), may decide to exclude that Member and relieve it of the commitments made prior to the decision to expel.

Article 5: Annual Meetings and General Meeting

- 5.1 The Association shall, in each calendar year, hold an Annual Meeting in addition to any other general meetings in that year and shall specify the meeting as such in the notices calling it. The Association shall hold its first Annual Meeting within fifteen months of this MoU entering into force. Not more than fifteen months shall elapse between the date of one Annual Meeting of the Association and that of the next. The Annual Meeting shall be held at such time and place as decided by the Officers at the previous meeting.
- 5.2 Major items of policy shall be discussed and decided at the Annual Meeting, including the establishment of projects, formation of subsidiary bodies, review of work, and modification of the Rules, with instructions and guidance for the Officers for the coming year. The Secretariat will provide an agenda to all Members, approved by the Officers, at least two months before the meeting.
- 5.3 The Annual Meeting shall receive reports from the Chairperson of IOGOOS and the Chairpersons of the principle Subsidiary bodies. The accounts and financial summary for the previous year and the budget for the following year shall be submitted for approval.
- 5.4 The subscription required from Members shall be fixed by the Annual Meeting from time to time.
- 5.5 Appointment of Officers and the recognition of new Members shall be made at Annual Meetings,.

Article 6: Officers

- 6.1 A notice shall be circulated to all Members notifying vacancies among the Officers and requesting nominations from members for the position of Chair of IOGOOS and for other Officers three months prior to the Annual Meeting. The Officers should be broadly representative of the regions of the Indian Ocean. At the annual meeting a member shall be appointed to manage nominations (the Nominations officer), to ensure representation of all regions as appropriate, to manage and encourage rotation of Officer positions among members of IOGOOS, and as far as possible reach consensus prior to the annual meeting. In the event there are more nominations than vacant Officer Positions, an Election Return Officer, who is not a voting Member, shall be appointed, to oversee the election. Each member shall have a number of votes equal to the number of vacancies. The position of Chair shall be decided first, as appropriate, and the Chair shall be considered one of the five Officers.
- 6.2 Officers shall be appointed for a term of 2 years, up to a maximum of two terms. With the unanimous agreement of all members, in exceptional cases, an Officer can be extended for a further term of 2 years.
- 6.3 The Chairperson and the Officers will select a Secretary who will be responsible for ensuring the satisfactory implementation of all decisions made by the Annual Meeting and between

Annual Meetings by the Officers, for the IOGOOS Office, and for the management of IOGOOS funds. The Secretary will report to the Chairperson and to the Officers. He/she will prepare papers for the Annual and other meetings and may represent IOGOOS at international organisations as required by the Officers.

- 6.4 The Officers may exercise the powers of the Association in accordance with this MoU and the policies and directions agreed by the Members at the Annual Meeting from time to time. Any acts or decisions of the Officers not so authorized in advance shall be subject to the approval of the Members at the next Annual Meeting following such act or decision.
- 6.5 The Head of IOC Regional Programme Office in Perth, as well as the Chairpersons of IOCINCWIO and IOCINDIO, will be invited to attend the IOGOOS Officers' meetings.
- 6.6 Officers serve in an individual capacity and shall not nominate substitutes. If an Officer does not attend two consecutive Annual Meetings, the position of that Officer will be considered vacant and an election will be conducted for the position. If an Officer resigns, the position shall remain vacant until the next Annual Meeting. However, if the Chair is unable to serve, one of the Officers will be nominated by the Officers, to act as a Chair, till next Annual Meeting.
- 6.7 The Association may by ordinary resolution appoint a person who is willing to act as an Officer either to fill a vacancy or as an additional Officer and may also determine the rotation in which any additional Officers are to retire.

Article 7: IOGOOS Secretariat

- 7.1 The IOGOOS Secretariat will be established at a leading oceanographic research establishment in the Indian Ocean region. The Secretary and staff will be based at the Secretariat. The cost of running of IOGOOS Secretariat i.e. providing accommodation, support services, and/or professional staff, shall be met by the host Agency. Members may second additional staff to the IOGOOS Secretariat. The day-to-day functioning of the Office will follow the practice of the host Agency.
- 7.2 The location of the Office may be rotated after six years from one Member to another by agreement of Members at an Annual Meeting at least one year in advance of the date of transfer.
- 7.3 Members will be requested to submit proposals to host the Secretariat. The host institution for the Secretariat will be decided at the first annual meeting.

Article 8: Subsidiary Bodies and Projects

- 8.1 The Members at an Annual Meeting, or the Officers between Annual Meetings acting within the powers defined in Article 6, may create or abolish any committee, working group, project team or task team consisting of one or more Officers or other nominated representatives of Members. Representatives of Agencies/institutions/ministries/authorities not being Members may be invited to join any committee, working group, project, or task team with the approval of the Officers. Any such committee, working group, project, or task team may be made subject to any terms of reference the Officers may impose in accordance with the Rules.
- 8.2 The Officers may appoint any person as an Associate Officer who may represent any committee, working group or task team at meetings of the Officers for the purpose of liaising with and reporting the actions of such committees to the Officers. The Associate Officers shall not by virtue of their appointment as such be Officers of the Association and they shall not have a right to attend and vote at the meetings of Officers.

Article 9: Rules of Procedure

- 9.1 The Association may from time to time make such Rules as it shall deem necessary, expedient or convenient for the proper conduct and management of the Association and for the purposes of prescribing conditions of Members.
- 9.2 The Association, in its general meeting, shall have the power to alter, add to or repeal the Rules. The Secretariat shall circulate any such information to all Members.

Article 10: Decision-making at Annual and General Meetings

- 10.1 All issues raised at any meeting of the Association shall, if possible, be decided with the unanimous consent of all Members present at such meeting and all Members shall use their respective reasonable endeavours to reach consensus in relation to all issues at each meeting. If any matter relating to the affairs of the Association has been considered by a meeting of the Members and no decision or resolution has been arrived at the meeting in relation to the matter by reason of the non-unanimous consent of all Members present, then the matter shall be carried over to a further meeting of Members to be held within three months of the date of the meeting at which the matter was first raised ("the Adjourned Meeting").
- 10.2 Pending the Adjourned Meeting the Members shall continue to use their reasonable endeavours to liaise with each other to obtain a common consensus with a view to agreeing the matter to be decided at the Adjourned Meeting.
- 10.3 If, at an Adjourned Meeting and following an appropriate period of debate, a matter cannot be agreed upon by all Members present and voting then the matter shall be decided by a majority of 75% of those Members present and voting.
- 10.4 Each Member has the right to appoint an authorized representative to attend Annual Meetings and has the right to vote.
- 10.5 An instrument appointing a duly authorized representative shall be in writing, executed by or on behalf of the appointing Member and shall be in the following form (or in a form as near thereto as circumstances allow or in any other form which is usual or which the Members may approve): The Secretariat will keep an up to date list of all representatives which will be made available to any Member on request.

Article 11: Management of Subsidiary Bodies

- 11.1 Subsidiary bodies of IOGOOS created in accordance with Article 8 shall be established with written terms of reference and outline work tasks which shall be confirmed or altered at regular intervals specified in their Terms of Reference. The number of standing bodies or committees shall be kept to a minimum. Subsidiary bodies or panels should be created for a specific task and disbanded after a fixed time.
- 11.2 Subsidiary bodies of IOGOOS shall report to the Annual Meeting with a summary of their achievements, meetings held, and forthcoming plans, if any.
- 11.3 When a Subsidiary body deems it necessary to create a further subsidiary or panel this shall only be done with agreement of the Officers, and the status and terms of reference of the new body shall be submitted to the next Annual Meeting for approval or disbanding.
- 11.4 Subsidiary bodies may initiate projects and set up project organising groups seeking grants to fund projects. In all cases where projects are considered or planned, the Subsidiary body shall seek approval from the Officers, and inform the IOGOOS Secretariat.
- 11.5 The leaders of all Subsidiary bodies and projects shall meet collectively from time to time under the Chairpersonship of an Officer to review the range of work and projects being undertaken by IOGOOS. This meeting shall usually be conducted in conjunction with the Annual Meeting.

Article 12: Funding IOGOOS

- 12.1 The primary source of funding for IOGOOS will be through Voluntary contributions from Members, GOOS or its Sponsors to a 'IOGOOS Central Fund' that will be used to support activities and operations of IOGOOS such as hosting meetings, organising workshops, adhoc study groups or pilot projects, hosting of Website, consulting services to national and multilateral bodies, employing consultants, financing publications, providing for their own costs of communications, and other items as agreed upon by Members at the Annual Meeting.
- 12.2 The Annual Subscription is voluntary and the Annual Meeting shall revise the Annual Subscription, as necessary.

- 12.3 IOGOOS may solicit in-kind contributions from Members, including seconding of Officials to support operations and activities of IOGOOS as well as contribution to the funds of the Association in the shape of donations, subscriptions, grants, funds from other agencies.
- 12.4 Members and other participants shall mobilise subvention on their own, to cover the costs for attending meetings of IOGOOS

Article 13: Financial Management

- 13.1 Financial transactions of IOGOOS shall be conducted through the financial services office of the host agency, including invoicing for subscriptions or services provided management and acknowledgement of receipts, payment of bills due, payment of honorarium, where relevant.
- 13.2 In Accordance with Article 5.3 the Secretary shall present a report of the financial state of the Association to the Annual Meeting. The report shall be approved prior to distribution by the Officers, and shall be scrutinised in particular by one Officer appointed for the task.
- 13.3 The Association shall have the following powers exercisable in furtherance of its aims, objectives and activities but not otherwise, viz.
 - (i) to issue appeals, hold public meetings and take such other steps as may be required for the purpose of procuring contributions to the funds of the Association in the shape of donations, subscriptions, grants, funds from other agencies,
 - (ii) to engage and pay any person or persons whether on a full-time or part-time basis or whether as consultant or employee to supervise, organize, carry on the work of and advise the Association. The income and property utilized by the Association shall be applied solely to the promotion of its objectives as set forth in this MoU and no portion thereof shall be paid or transferred directly or indirectly by way of dividend, bonus or otherwise howsoever by way of profit, to Members of the Association and no Officer of the Association shall be appointed to any office of the Association paid by salary or fees, or receive any remunerations or other benefit in money or money's worth from the Association.

Article 14: Collaboration with other organisations

- 14.1 In accordance with the objectives of the Association set out in Article 3 IOGOOS will work closely with other organisations to promote operational oceanography.
- 14.2 The Annual Meeting may invite representatives of other organisations to establish a link with the Association, or may arrange exchange of observers or cross-membership, in accordance with classes of Membership.
- 14.3 The Association is a regional Subsidiary of the Global Ocean Observing System (GOOS) and as such will seek to develop GOOS objectives in Indian Ocean region in collaboration with the governing body of GOOS, and in collaboration with other regional GOOS organisations.

Article 15: Duration

IOGOOS will continue until such time as an Annual Meeting of Members decides that it should end.

Signatories to the IOGOOS MoU

Agency	Country	Signature	Name