IOC Officers 2024



Item 3 Introduction to IOC (on an Insider Level) and Strategic Perspectives

by IOC Executive Secretary and Heads of Sections

22 January 2024



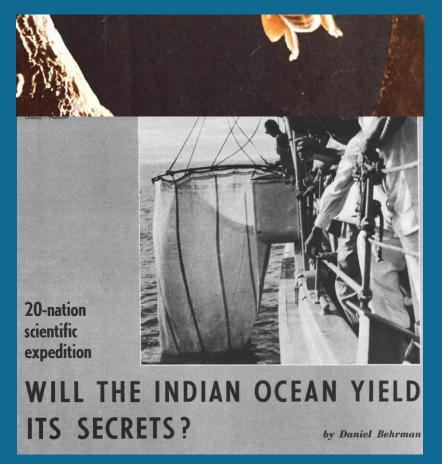
When I go in December 2023, I hope to leave IOC

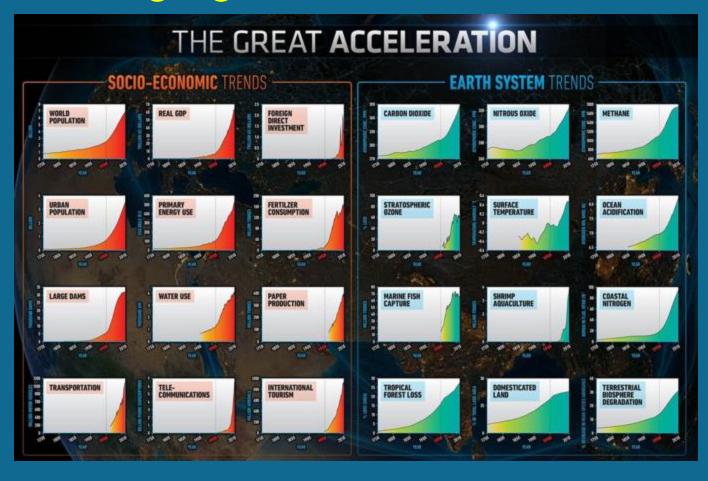
- leading the world's oceanography (Decade)
- with good perspectives to initiate sustainable ocean management (concept of climate-smart SOP for a healthy and sustainably used ocean)
- with increased budget (UNESCO GC-42, core voluntary funding),
- with a strong, healthy and motivated team in HQs and in the field,
- with a stronger than me Executive Secretary & new excellent Chair
- with even more important role in the UN system (UNOC 2025 to decide on a common plan of ocean action in the UN system)
- working through the whole value chain (again, SOP -> Functions)

1960s

IOC Evolving Agenda

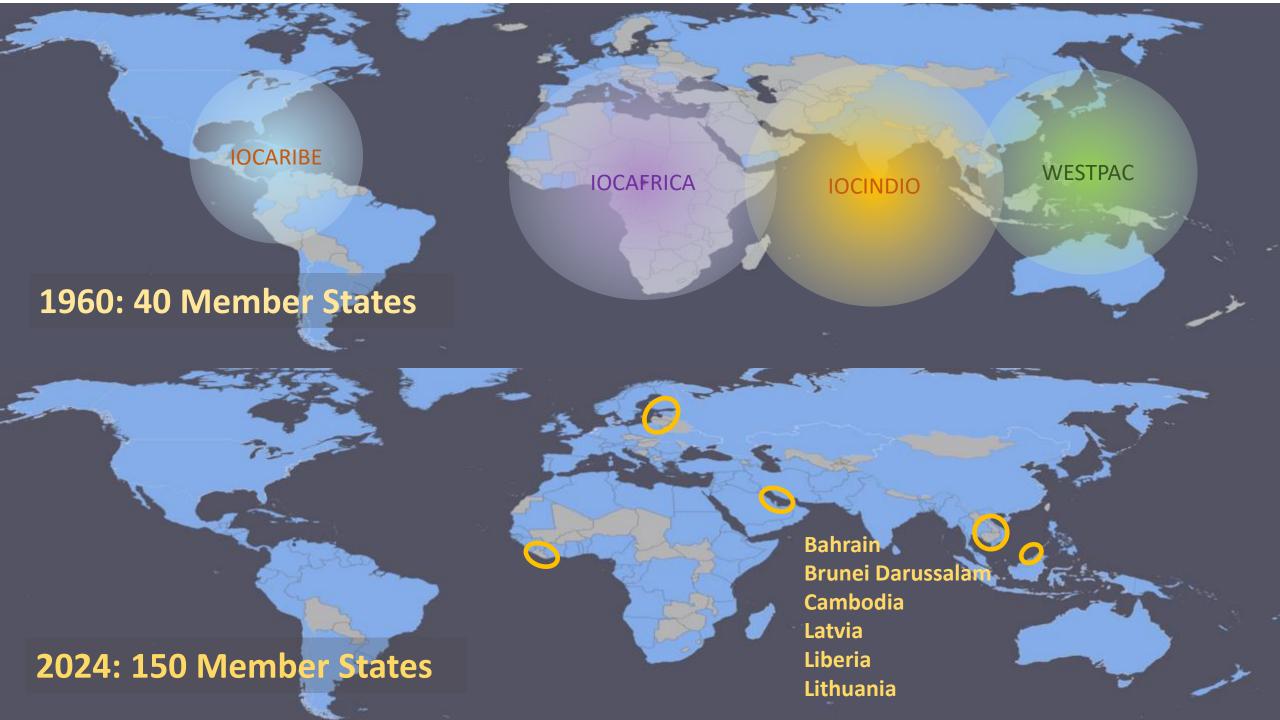
Now





Intergovernmental UN platform for dialogue and cooperation in ocean science

Intergovernmental UN Platform to enable ocean science for addressing existential issues



IOC MEDIUM-TERM STRATEGY 2022-2029



Mission: to bring together governments and science community in achieving 'the Ocean We Need for the Future We Want'



IOC High-Level Objectives:

- Healthy ocean and sustained ocean ecosystem services;
- Effective warning systems and preparedness for tsunamis and other ocean-related hazards;
- Resilience to climate change and contribution to its mitigation;
- Scientifically-founded services for the sustainable ocean economy; and
- Foresight on emerging ocean science issues.



High-Level Objectives vs Functions



- Healthy ocean and sustained ocean ecosystem services;
- Effective warning systems and preparedness for tsunamis and other ocean-related hazards;
- Resilience to climate change and contribution to its mitigation;
- Scientifically-founded services for the sustainable ocean economy; and
- Foresight on emerging ocean science issues.





+ Working regionally

The science we need for the ocean we want

Issues

Solutions (infrastructure)

Enabling environment

OCEAN DECADE CHALLENGES



Pollutants



Ecosystems



Food from the Ocean



Ocean economy



Ocean-climate nexus



Ocean-related risks



Ocean observing system



Ocean digital representation



Capacity development



Behaviour change





Healthy and resilient

Productive

Safe

Predicted

Accessible

Inspiring and engaging

STATUTES

STATUTS

E S T A T U T O S

У став

Article 1 - The Commission

- 1. The Intergovernmental Oceanographic Commission, hereafter called the Commission, is established as a body with functional autonomy within the United Nations Educational, Scientific and Cultural Organization (UNESCO).
- 2. The Commission defines and implements its programme according to its stated purposes and functions and within the framework of the budget adopted by its Assembly and the General Conference of UNESCO.

Major Programme I – Education
Major Programme II – Natural sciences
Intergovernmental Oceanographic Commission
Major Programme III – Social and human sciences
Major Programme IV – Culture
Major Programme V – Communication and Information
UNESCO Institute for Statistics (UIS)
Intersectoral Programmes

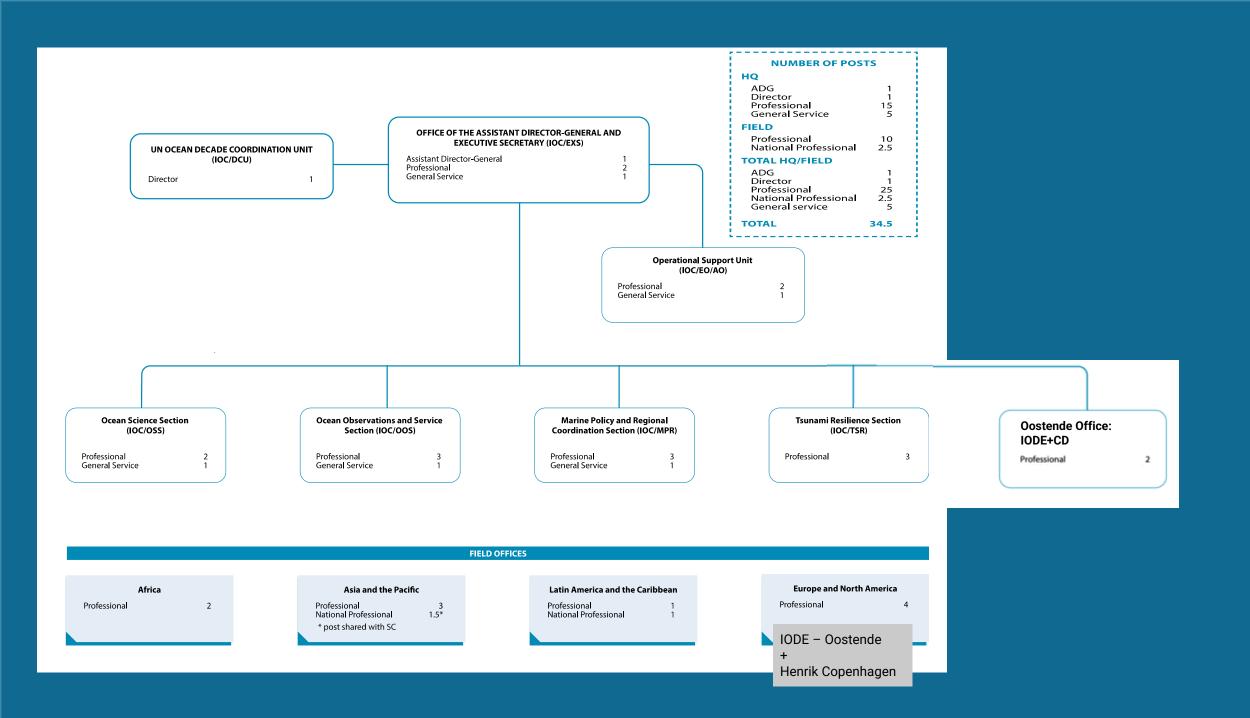
Intergovernmental Oceanographic Commission - Results Framework

UNESCO Outcome 3 – Enhance knowledge for climate action, biodiversity, water and ocean management, and disaster risk reduction

Output 3.IOC1 – Member States critically supported in strengthening their capacity to conduct marine scientific research, generate knowledge, and develop and implement science-based tools, services, and policies in order to reverse the decline in ocean health and accelerate the transition towards sustainable management of ocean-related risks and

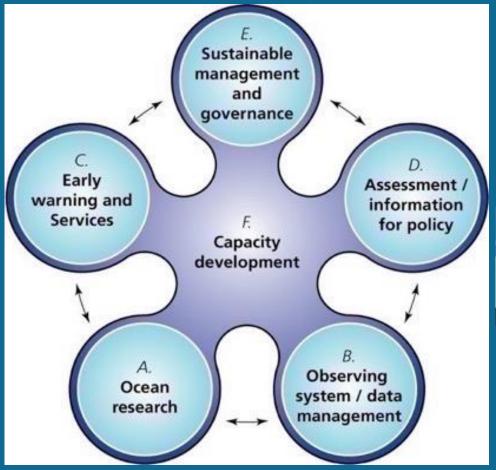
opportunities

Results Fram	Results Framework – Draft 42 C/5 Base Case								
Performance Indicator	Baseline 2023	Target 2025	Revised Target 2025						
1. Number of Member States with experts actively engaged in the design and implementation of ocean research, generating	(i) 98 (Africa 22, SIDS 19, 37% women among experts)	(i) 106 (Africa 24, SIDS 22) (ii) SDG 14.3.1: 45	(i) 108 (Africa 25, SIDS 23) [+2, Africa +1, SIDS +1]						
knowledge to address key sustainability issues	(ii) SDG 14.3.1: 40 (Africa 8, SIDS 3)	(Africa 12, SIDS 6)	(ii) SDG 14.3.1: 47 (Africa 13, SIDS 7) [+2, Africa +1, SIDS +1]						



IOC Functions, Sections, and Their Heads





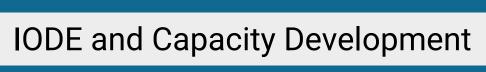
Ocean Sciences



Ocean Observations and Services



Tsunami Resilience







Decade Coordination Unit



Operational Support Unit



Introduction to IOC & strategic perspectives

Introduction by the Executive Secretary

Ocean Science

Ocean Observations

Data & Information Exchange

Tsunami Resilience

Marine Policy & Regional Coordination

Capacity development

Ocean Decade



The OSS portfolio - a diverse number of topics and programmes <u>defined by and</u> <u>fitting into a value chain – each with specific missions and objectives</u>





SDG 14 indicators: 14.3.1 OA, 14.a.1 GOSR, 14.1.1 ICEP

















Group of Experts TrendsPO

mCDR Plastics

CC and pollutants



Charting Capacity for

Ocean Sustainability









MOS - Multiple Ocean Stressors

Non indigenous invasive species – CCLME; ICES-IOC WGBOSV

Input to SDG and UNFCCC



Nutrient

pollution.

The OSS portfolio – the drivers that defines it



1. Ocean issues (+++)





2. MS, UN, SDGs / Decade priorities (++)

Where the drivers 1,2 and 3 coincide are the niches for IOC OSS / Function A

Reflecting a mechanism



3. Funding options (+)

The OSS portfolio – diverse rooting in the global research and management community



- + 30 experts groups / task teams / boards / committees /regional groups
- Extensive global networks in the research community

- 95% pro bono
- Long term (+30 years) to ad hoc

OSS staff and tasks (alpha order)



Aude le Bourhis GOSR / CCLME



Elisabetta
Bonotto
Blue
Carbon, OSS
Comm.



Francesca
Santoro
Ocean
Literacy,
Youth



Henrik Enevoldsen HAB, ICEP, GESAMP, TrendsPO



Itahisa Katherina Déniz González Schoo CCLME OA

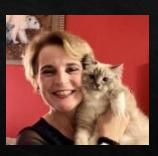




Kirsten Isensee GO2NE,OA, GOSR, StOR, IOC-R, Gender



Pia Haecky GloFouling



Simonetta Secco General staff



Yun Jie Lee StOR, GOSR



Yun Sun HAB, OL, Docs

Jeremy Sterling OA

The OSS portfolio – examples of recent main achievements



- GOOD Decade programme and publication of a Global Ocean Oxygen Data Atlas.
- OARS Decade programme and an SDG 14.3.1 federated system to obtain relevant OA data from multiple sources.
- Decade Programme for Blue Carbon, IPBC coordination and launch of HILAG
- Decade IOC-R community of practice and update of vision document underway.
- Decade Programme on HAB Solutions and FAO back as co-sponsor of IPHAB.
- Decade Clean and Healthy Ocean Integrated Program (FAO/GEF)
- Risk assessment methods for marine litter and microplastics (GESAMP)
- Ocean Interventions for Climate Change Mitigation assessment framework
- (GESAMP)
- WCRP synergy with the Decade and its Challenge 5 (the Ocean-Climate nexus).
- IOC Guidelines Indigenous and Local Knowledge (ILK) in IOC programs.
- Best practices and guidelines for biofouling management in 4 non-shipping sectors (GEF/GESAMP)
- Scientific knowledge and capacity in the Canary Current Large Marine Ecosystem on invasive alien species and other ocean stressors.
- GOSR Capacity tracker –regular reporting towards SDG 14.a.1
- Drafting of 2nd Ed of the StOR

CCLM	CC - UNESCO	Comm	Blue Carbon	EBUS	ECCWO	Gender	GESAMP	GloFouling	GOSR	GO2NE	НАВ	ICEP	IOE	ILK	IOC-R	MOS	OA	OL	StoR	TrendsPo	WCRP	
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The OSS portfolio – Ocean Literacy



Vision statement

Through international collaboration, exchange of good practices and creation of partnerships, IOC assists its Member States to reinforce the work on ocean literacy, so that ocean knowledge is fully leveraged to advance ocean sustainability.

2023 Outcomes

- Establishment of the Ocean Literacy Group of Experts
- Circular Letter to Member States as a call to support Blue Curriculum
- Establishment of the Kindergarten of the Lagoon
- Lorenzo Bertelli (Prada) as Patron of the UN Ocean Decade
- Establishment of the Decade Coordination Office Challenge 10

The OSS portfolio – Ocean Literacy



IOC OL 2024-2025 and beyond:

- Advance on the blue curriculum. A global congress (Cat IV) on ocean literacy will be held in Venice in 2024.
- Advance on regional work through a closer collaboration with regional subcommissions, in particular IOCARIBE, IOCAFRICA, and WESTPAC.
- Expand the transdisplinary approaches for OL strengthening the collaboration with other sectors CLT, ED and SC.
- Funding from Prada for 2 years (3M EUR to support DCO, Development of Ocean Literacy Programmes and actions.

IOC Ocean Science – strategic directions



Staying relevant:

- Topics addressed should always fit in the value chain of the UN system as a whole and where IOC can deliver substantive science input on clearly defined topics.
- This implies that the OSS portfolio can never be a marine science text book, cannot address everything that is scientifically important.
- Inertia in addressing and delivering science takes time.

Timely delivery of the required science:

- Even if a meaningful priority, clear IOC niche and a demand,
 IOC will only deliver if a donor see IOC as the right agent to deliver or facilitate delivery, we are not alone.
- IOC Ocean Science topics are close to, or is, research and obtaining competitive research funds is challenging as peer reviews may not agree to UN process defined priorities.

Challenge:

• A reasonable focus in order to keep the capacity to deliver substantially and, at the same time, stay responsive.

LK IOC-R MOS OA OL StoR TrendsPo	ILK IOC-	IOE	ICEP	НАВ	GO2NE	GOSR	GloFouling	GESAMP	Gender	ECCWO	EBUS	Blue Carbon	Comm	CC - UNESCO	CCLM
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IOC Observation and Services Section Global Ocean Observing System (GOOS) Update

Dr Joanna Post IOC/GOOS

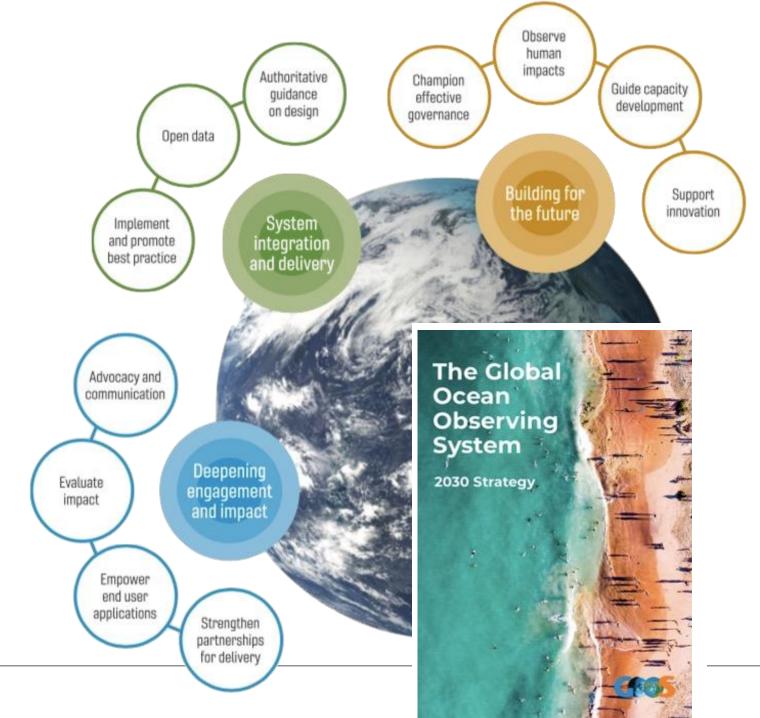
GOOS 2030 Strategy

Vision

A truly global ocean observing system that delivers the essential information needed for our sustainable development, safety, wellbeing and prosperity

Mission

To lead the ocean observing community and create the partnerships to grow an integrated, responsive and sustained observing system





Delivery across 3 target application areas

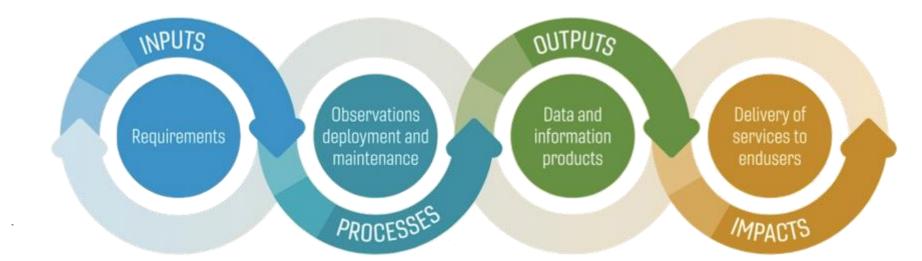
Climate Forecasting Ocean health



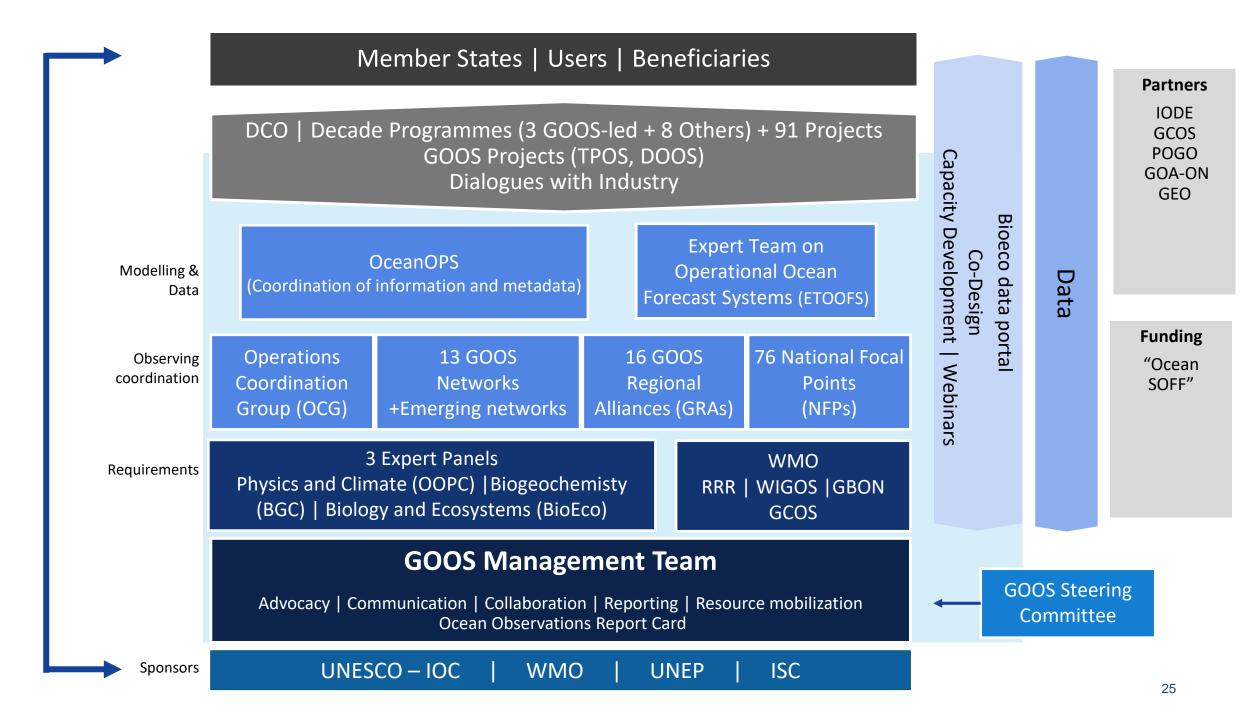
mitigation and adaptation, seasonal forecasts

supporting the marine economy and reducing risk

sustainability of ocean ecosystem services







GOOS Management Team

Orens De Fommervault



Ann-Christine Zinkann, OCG / Networks NOAA, **US**



Laura Stukonyte, GOOS communication, Barcelona, **Spain**



Maciej Telszewski BGC Panel IOCCP, Sopot, **Poland**



Belen Martin Miguez, and Champika Gallage OOPC Panel Networks/ Standards WMO headquarter in Geneva, **Switzerland**











Joanna Post, Emma Heslop, Emily Smith Yu Ting, Denis Chang Seng, Forest Collins GOOS headquarter in Paris, **France**



OceanOPS team, Brest, **France**From left: Martin Kramp, Long Jiang, Magali Krieger,
Mathieu Belbeoch, Anthonin Lize, Victor Turpin,
Emanuela Rusciano and
Orens de Fommervault. Monaco. France



Ana Lara-Lopez BioEco Panel Hobart, **Australia**

Deepening engagement and impact

1. Partnerships: Strengthening Regional alliances

National focal points – first meeting

2. Advocacy: COP28 good outcomes on ocean observations

Strong collaboration with WMO including on Global GHG Watch

3. Evaluate system: Observation report card 2023

4. Empower enduser applications: Operational Ocean Forecasting Guide

System integration and delivery 5. Design: Strengthened structure and standards

EOV paper in process

6. Implementation: Continued coordination across GOOS

Ocean observations within National jurisdiction (2 meetings, co-

chairs chosen)

Decade Coordination Office Ocean Observing

7. Open Data: Data implementation strategy by OCG

BioEco Portal

Building for the future

8. Innovation: Dialogues with Industry

Webinars including on Ocean Decade

9. Develop capacity: Evolving marine cables network

10. Extend/Evolve Decade Programmes system: Marine Debris Observ

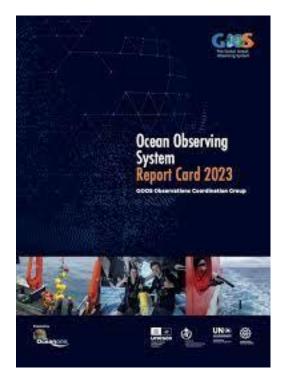
Marine Debris Observing system (IMDOS)

11. Governance: Supporting Steering Committee (CL for new members) & JCB

Laying groundwork for evolving governance

In-situ observing system status

	GOOS	Implementation	D	Data & metadat	:a	Best	GOOS delivery areas 7				
	in situ networks	STATUS ²	REAL TIME ³	ARCHIVED DELAYED MODE 4	META-DATA ⁵	practices ⁶	OPERATIONAL SERVICES	CLIMATE	OCEAN HEALTH		
4	Ship based meteorologica - SOT	★★ ☆	★★ ☆	★★ ☆	★★ ☆	★★ ☆					
	Ship based oceanographic - SOT	***	***	***	★☆☆	★★☆					
_	Repeated transects - GO-SHIP	***	Not applicable	***	★☆☆	***			W.		
•	Sea level gauges - GLOSS	***	**	***	★☆☆	★★ ☆					
•	Time series sites - OceanSITES	★★ ☆	Not applicable	★★☆	**	★★ ☆			***		
	Moored buoys - DBCP	***	***	***	★★ ☆	***			W.		
\triangle	Tsunami buoys - DBCP	**	***	***	★☆☆	***					
•	HF radars	★☆☆ Emerging	★☆☆	★☆☆	★☆☆	***					
	Drifting buoys - DBCP	***	***	***	★☆☆	***					
•	Profiling floats - Argo	***	***	***	***	★★ ☆					
•	Deep & biogeochemistry floats - Argo	★☆☆ Emerging	***	***	***	★★☆			*		
•	OceanGliders	★☆☆ Emerging	★★☆	★☆☆	★☆☆	★★ ☆			* Partie		
•	Animal borne sensors - AniBOS	★☆☆ Emerging	★☆☆	★★☆	★☆☆	★★☆			V		



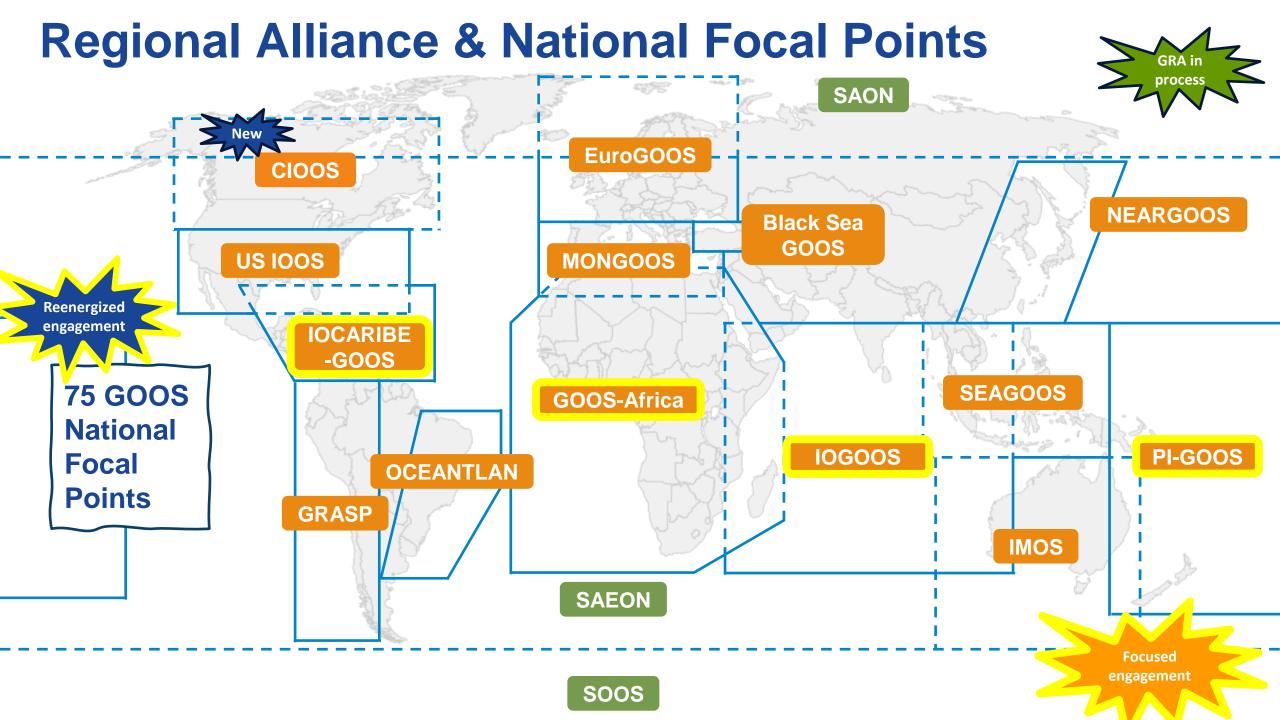
Status: status of the implementation compared to the community widely adopted target when it exists; network self-assessed status when target doesn't exist.

Real time: data freely available, without any restriction, on Global Telecommunication System of WMO and internet.

Archived delayed mode: data of the highest quality available for scientific analysis (e.g. climate studies)

Metadata: information required by OceanOPS **Best Practices**: community reviewed and easily accessible documentation encompassing the observations lifecycle





Strategic direction 2024 - 2025

- Strengthen GOOS office support <u>and</u> system components
- Respond to IOC Assembly mandates
 - including OONJ, JCB, GCOS, governance
- Continue to strengthen relationship with sponsors and relevant organizations such as GEO, satellite community ...
- Respond to MLAs and other policy needs
 - including UNFCCC, CBD, BBNJ
- Evolve GOOS
- Administer GOOS actions in the GCOS Implementation Plan
 - including implementation plan for ocean C
- Build engagement and advocacy
 - including positioning IOC/GOOS as global voice on ocean observation needs in response to policy (e.g. 30x30, indicators, mCDR, new technologies etc)
- Further develop regional coordination and build capacity at regional and national level
- Synergize GOOS and UN Ocean Decade activities



Strategic Direction 2024-2025 Linkages...

IOC section/programme	Cooperation
Ocean Science	Ocean Carbon (IOC-R, Blue Carbon, OARS)StOR
IODE	IODE/GOOS Ocean Best Practices System (OBPS)BioEco Portal
Tsunami resilience	• GLOSS
Marine Policy & Regions	 Coordinate to provide a fit for purpose observing system to support policy needs Strengthened understanding of cost/benefit
Capacity Development	 Regional and national capacity development (substantive and technical) to support strengthening of GOOS at national and regional level





Thank you

goosocean.org



















IODE 2024-2025

IOC Officers Meeting
UNESCO HQ, 23-25 January 2024



IODE 1961



- Established in 1961
- "to enhance marine research, exploitation and development, by facilitating the exchange of oceanographic data and information between participating Member States, and by meeting the needs of users for data and information products"

https://www.iode.org

IODE transformation 2023



Global Ocean Data and Information System Network of 100 standalone data centres (ODIS) including marine biodiversity (OBIS) in 68 member states Easy discovery and access Data/information difficult to find and use Digital divide N/S with limited access by Easy and equitable sharing LDCs, SIDS CD across ass IOC programmes (OTGA) Training limited to IODE operations and through global network of self-driven training ad hoc centres Easy development and sharing of products and services, operational methods and technology Limited integration with other IOC and UNESCO programmes Support science informed solutions/ reinforced DM support across IOC progs High dependence on extra-budgetary Operational and sustained data systems funding for core systems supported by UNESCO/IOC

IODE transformation 2023



ODIS

Federated digital ecosystem

- 28 partners
- World Ocean Database
- GODAR
- GTSPP
- GOSUD
- IQuOD
- AquaDocs
- OceanExpert
- ICAN
- OBPS (jointly with GOOS)
- QMF

OBIS

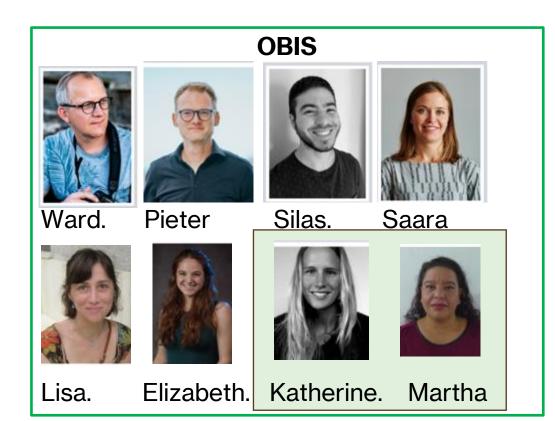
Global open-access data and information clearing-house on marine biodiversity for science, conservation and sustainable development

- 33 OBIS nodes
- PacMAN
- eDNA Expeditions
- MARCO-BOLO
- DTO-BioFlow
- MPA Europe
- eDNAquaPlan
- BioEcoOcean
- GOOS BioEco Portal
- HAB portal

OTGA

Federated training ecosystem with joint content platform and network of training centres

- 17 regional and specialized training centres
- Close cooperation with IOC Capacity development Unit





IODE core team



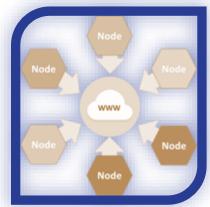
+ >100 members of SGs + >100 NODC, ADU, AIU colleagues + >100s experts



The Ocean InfoHub and ODIS



Mission: To build a sustainable, interoperable, and inclusive digital ecosystem for all ocean stakeholders



- Improve discovery and interoperability of existing information systems across sectors (private, public, etc) for sustainable ocean management
- Provide capacity building to support contributors and end-users of the global OIH and regional nodes
- Connect independent digital initiatives to form a diverse, but interoperable and inclusive, Ocean Data and Information System

2021-2023 Proof of concept demonstrated with 28 partners from around the world

2024-2025

- Begin implementation of ODIS as an IODE Programme
- ODIS offers a long-term solution for NODCs, ADUs, scientific infrastructures, and new partners to co-implement FAIR
- The "ocean digital ecosystem" aligned to the "Data & Information Strategy for the UN





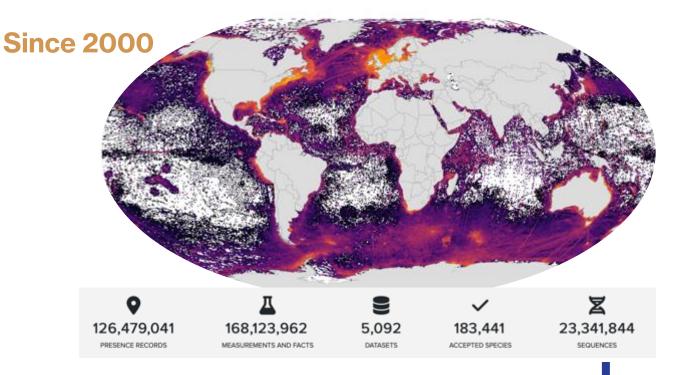
The internet of ocean data and information?



Ocean Biodiversity



To be the most comprehensive gateway to the world's ocean biodiversity and biogeographic data and information required to address pressing coastal and world ocean concerns.



Highlights

- x10 data contributions
- x2 scientific papers
- ±5M US\$ in projects (5 EU + 2 FUST)
- Increase from 2 to 6 staff
- eDNA focus, UNESCO DG priority

Priorities 2024 beyond Data Mobilization
Data Products (CBD, IPBES, WOA, ...)
Partnerships

How?

- Two OBIS coordination groups (data & products)
- Cooperation with GOOS and OCG
- Shared workspace for products
- Training and local field projects

OTGA – strategic objectives and action



VISION

To build equitable capacity related to ocean research, observations, and services in all IOC Member States by delivering training courses on a range of topics addressing the priority areas of the UN Decade of Ocean Science for Sustainable Development and the 2030 Agenda and its SDGs as well as supporting the implementation of the IOC Capacity Development Strategy.

Sharing training resources and expertise in a coordinated framework



Regional and Specialized Training Centres

Languages used for teaching: English, Spanish, French, Portuguese

Outcome No 1 Increased capacity and skills by ocean specialists to use standards and best practices tools towards achieving SDG 14.

Outcome Nº 2 Regional and Specialized Training Centres efficiently developed and managing the training programme

https://oceanteacher.org



Priorities 2024 beyond + face-to-face training

international internship

education innovation

resource mobilizatior

How?

- Training courses (online, F2F, blended)
- Network of RTC/STC
- Common e-Learning platform
- Quality procedures ISO certification

Linkages...



IOC section/programme	Cooperation
Ocean Science	 Harmful Algal Information System (HAIS) Global Ocean Oxygen Database and Atlas (GO2DAT) SDG 14.3.1 data portal
Ocean Observations (GOOS)	 IODE/GOOS Ocean Best Practices System (OBPS)
Tsunami resilience	1. Training courses through OTGA
Marine Policy & Regions	-
Capacity Development	 OceanTeacher Global Academy CD-Hub

IODE strategic objectives In simple terms...



- Further develop the IOC Ocean Data and Information System (ODIS) into a global ocean data and information ecosystem making available data and information sources of all member states and to all member states
- Further develop the Ocean Biodiversity Information System (OBIS) into a globally interconnected community of practice, facilitating seamless and near-real-time data flows, from biological observations to practical applications.
- Ensure that all IOC Member States have the necessary capacity to manage ocean data and information (as part of the IOC value chain) and to develop products, services and policy advice for sustainable ocean planning and management

360

Confirmed tsunamis were observed worldwide between 1992 and 2022. Thirty-eight of these resulted in the loss of life.

We do not know when and where the next tsunami will hit, but we know the impacts can be devastating.

- Overview
- What has happened in 2023
- What is strategic direction 2024-25
- Links to Decade

B. Aliaga
Head IOC Tsunami Resilience Section

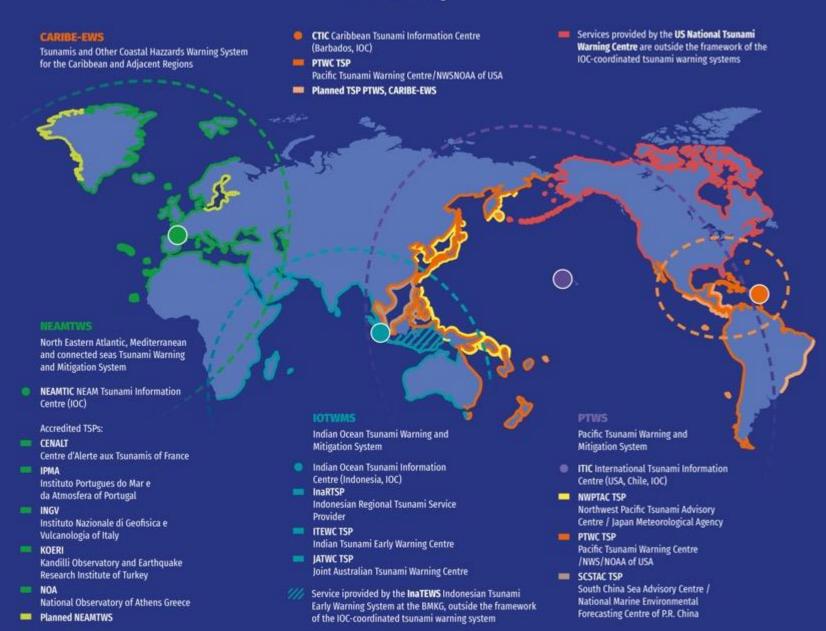


These events call for enhanced coordinated national and international efforts for the Tsunami Warning Systems to account for all tsunamis and to prepare people to respond to all tsunamis. The Intergovernmental Oceanographic Commission of UNESCO (IOC-UNESCO) was given the United Nations (UN) mandate to establish global tsunami warning services operating in different ocean basins.

Each service is coordinated by a regional Intergovernmental Coordination Group (ICG). The ICGs primary role is to organize and coordinate regional tsunami mitigation activities, including tsunami monitoring, the issuance of timely tsunami warnings, and community response.

GLOBAL TSUNAMI WARNING AND MITIGATION SYSTEMS

Intergovernmental Oceanographic Commission of UNESCO 2021 www.ioc-tsunami.org

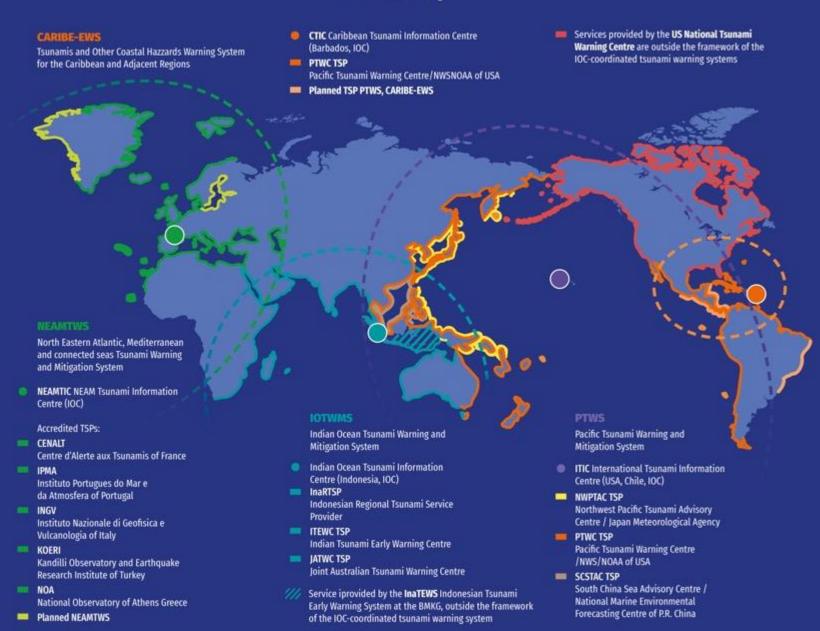


Within each region, Tsunami Service Providers (TSPs) monitor seismic and sea-level activity and issue tsunami threat information to National Tsunami Warning Centres (NTWC) and Tsunami Warning Focal Points (TWFP).

Tsunami Information Centres (TICs) have been established in each region to provide education, outreach, technical and capacity building assistance to the countries and the general public in preventing, preparing and mitigating measures for tsunamis.

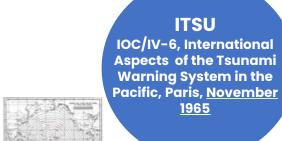
GLOBAL TSUNAMI WARNING AND MITIGATION SYSTEMS

Intergovernmental Oceanographic Commission of UNESCO 2021 www.ioc-tsunami.org



We have gone a long way...

1948 the **Honolulu Magnetic Observatory**, under the US Coast and Geodetic Survey (USCGS)established



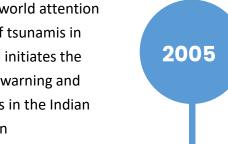
ITSU development



The tragedy brings world attention to the dangers of tsunamis in every nation and initiates the development of warning and mitigation systems in the Indian Ocean



September 2005, Vina del Mar, Chile The 20th Session of the ICG/PTWS-XX decides to change its name to the Intergovernmental Coordination Group for the Pacific Tsunami Warning and Mitigation System



1965

The Honolulu Observatory renamed Pacific Tsunami Warning Center **PTWC**

First Master Plan



3 ICGs established

1952. The Japan Meteorological Agency started its national tsunami warning center



1965 - IOC Working Group on the International Aspects of the Tsunami Warning System in the Pacific, organized by the USCGS on behalf of the IOC, Honolulu, 27-30 April 1965



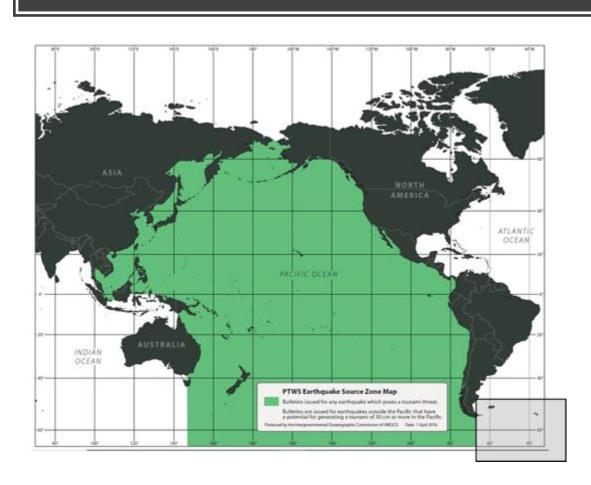
2004

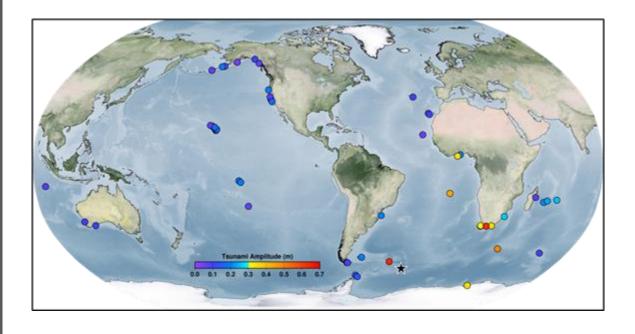
Indian Ocean (ICG/IOTWS), Caribbean and Adjacent Seas (ICG/CARIBE-EWS), Mediterranean and North Atlantic (ICG/NEAMTWS) (IOC/XXIII-11, 12, 13, <u>June 2005</u>)

Governance



Expanding borders – regions non-covered



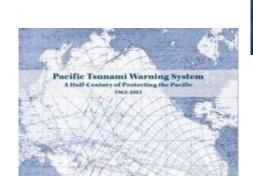




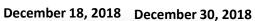
Expanding borders -including other sources

Minamisoma, Fukushima prefecture, Japan. 2011 March 11, Mw 9.0, Honshu, Japan earthquake and tsunami. (Credit: AFP/AFP/Getty Images.)

> 2011 Tōhoku earthquake and tsunami



2018







2011

50th anniversary of TSU/PWTS

Palu, Indonesia

Sunda strait, Indonesia

UN Ocean Decade
Tsunami Programme

Inter-ICG Task Team on Hazard Assessment Related to Highest Potential Tsunami Source Areas



2015

2016 -> Recent case studies demonstrated complexity and variability, as well as importance of other types of tsunami sources and that earthquake generated Tsunamis can happen in any subduction zones.



2018



TOWS Task Teams

The Group decided to establish a specific Ad Hoc Team on Meteotsunamis &Ad Hoc Team on Tsunamis

Generated by Volcanoes

OCEAN DECADE TSUNAMI PROGRAMME:

THE MAIN SOCIAL OUTCOME

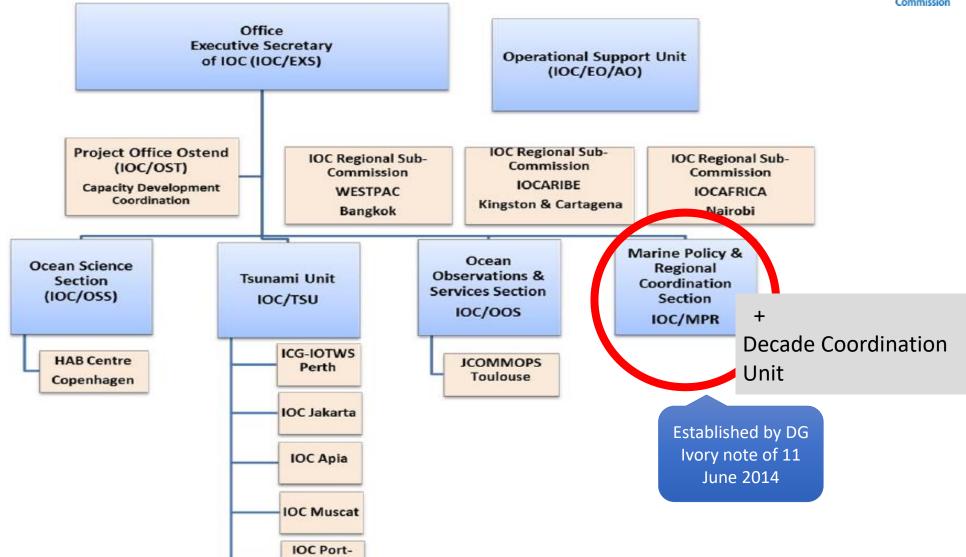
TO MAKE **100%**

OF COMMUNITIES AT RISK OF TSUNAMIS PREPARED FOR AND RESILIENT TO TSUNAMIS

BY 2030

Where does MPR seat





au-Prince

Marine Policy and Regional Coordination Section – 3 functions





communication and

multi-agency partnership







2. Translating science into ocean / marine management Tools (ICAM, MSP, SOP, LME)

3. Regional coordination

IOCARIBE

IOCAFRICA

IOCINDIO

4. Ocean mapping



1. IOC external policy coordination function

- Provide coordinated inputs to relevant UN processes resulting in higher level of visibility for IOC:
 - UN SG reporting on Oceans / Omnibus annual resolution on oceans
 - Informal Consultative Process (ICP)
 - World Ocean Assessment (WOA)
 - BBNJ Agreement/implementation
 - Agenda 2030/ Sustainable Development Goals, but also UNFCCC, CBD, etc.
- Act as IOC focal point for interaction with UNCLOS (especially regarding MSR /TMT provisions)
- Facilitate the development of inter-agency partnerships in support of IOC programmes /Act as IOC focal point in UN-Oceans
- Provide guidance on IOC communication aspects and formulation/delivery of relevant policy messages as they relate to IOC contribution
- Facilitate resource mobilization with multilateral sources of funding (ie GEF/ Adaptation Fund)
- Coordination with UNESCO on Ocean matters (UNESCO Executive Board on ocean)













2. Work on Ecosystem-based management /MSP/LMEs



- Lead the development of science-based marine management tools/ guidelines related to Integrated Coastal Management, Marine Spatial Planning, coastal hazard mitigation and adaptation and document best practices
- Develop and manage **regional coastal management projects** and provide technical secretariat to Community of Large Marine Ecosystem projects (GEF IW/LME: Learn), advancement of the ecosystem science and management, through Annual LME Consultation
- Implement regional training in relevant EBM areas
- Working with IOC Sub-commissions in development of ICAM and MSP related activities
- **Building partnership** with other institutions (European Commission, UNDP, GEF, WB, Ocean Action Coalition)

Marine Spatial Planning: A pillar to build on



FRAMEWORK



2017-2022

2022-2027

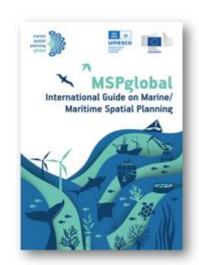
MSProadmap target:

Support the achievement of covering at least 1/3 of the global maritime areas under national jurisdictions with marine spatial plans by 2030.



PROJECT





- Science
- Indigenous LK
- Transboundary coop.
- Climate Change
- MPA
- Blue Economy







Africa

LAC

SE Asia

+ tracking of national MSP practice (eg StOR)

Why IOC must advance Integrated Coastal Area Management/MSP to Sustainable Ocean Planning and management





Bringing together IOC's work in other areas of ocean management and planning into a coherent whole

Allowing IOC to address the specific needs of SIDS, create deeper links with regional technical organisations, and operate regionally





Channelling IOC's unique position to providing technical support & scientific advice for developing sustainable ocean planning and management-related policie

Leveraging IOC's goodwill, global appeal & expertise towards broader cross-boundary & transboundary sustainable ocean planning.





Increasing IOC's influence and reach beyond the current MSP framework into broader blue economy discussions

Enabling the mapping & consultation of IOC's initiatives that contribute to national and transboundary MSP and sustainable ocean management.



Preliminary areas of potential interest for the IOC-wide strategy on Sustainable Ocean Planning & Management building on existing work



8. Increased Financial Support

Assisting countries in accessing existing mechanisms and promoting the integration of ocean planning into national and regional blue economy development plans.

7. Cross-sector collaboration

Fostering partnerships with different ocean sectors, ensuring their active involvement in planning processes.

6. Technology innovation & digital tools

Creating user-friendly software and tools, decision support systems, and online platforms that facilitate stakeholder engagement, spatial analysis, and scenario planning.

5. Collaboration with indigenous peoples and local communities

Promoting the establishment of meaningful mechanisms for engagement, consultation, and co-management with communities.

1. Strengthning policy frameworks

Supporting the development of legally binding instruments or frameworks that facilitate the integration of planning into national legislation and policies.

2. Enhanced data collection and sharing

Defining standard ocean observation variables for ocean planning coupled with improved data sharing mechanisms.

3. Capacity development and training

Targeted capacity development initiatives for specific regions and country groupings, addressing their unique challenges, needs and gaps

4. Integration of climate change adaptation, mitigation and coastal resilience aspects

Developing tools & guidelines that help decision-makers identify and incorporate climate resilience measures & the protection of blue carbon habitats.



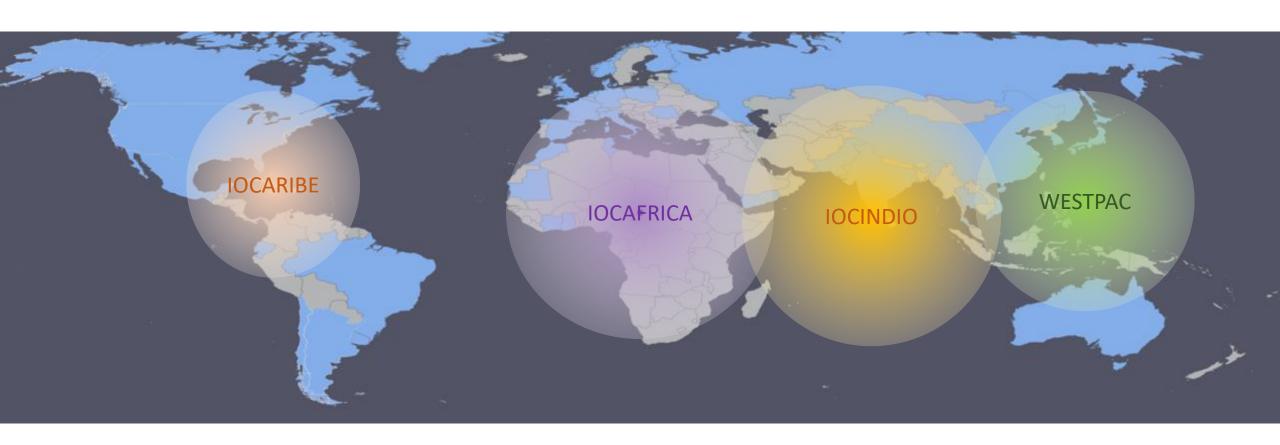






3. IOC regional coordination





3. Regional Coordination function (4 regional Sub-Commissions)



- Ensure programmatic coherence betw Sub-Commissions and Global Programmes
- Facilitate preparation of regional workplans/C5 biannual programme and budget
- Monitor implementation of regional programmes and coordinate reporting to IOC governing bodies
- Promote the participation of IOC Sub-Commissions in the development of extrabudgetary projects
- Follow up on programmatic activities of Category II centers
- Development of regional partnerships with Regional entities (eg SPC, IORA...)
- Support Decade coordinating role of IOC RSBs

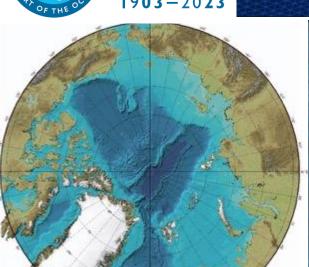


GEBC0

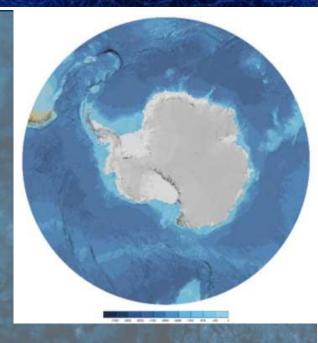












- Strong partnership with Nippon Foundation/IHO through Seabed 2030: 25% of seabed mapped
- Interconnection with many IOC programmes (science, Obs, Tsu, MSP, etc)
- New GEBCO stategy and Governance Review process on-going

Celebrating 120 years of Ocean Discovery

Communications: New brand, New Ambitions

Retrospective 2023:

New Public Brand: **UNESCO Ocean**



A growing Community

	X (formerly Twitter)	Facebook	Instagram	LinkedIn
Followers and Growth* *(comparison to last six months)	25,364 +4k new followers	24,474 +1.3k new followers	12,900 +778 new followers	27,835 +9,5k new followers

Priorities 2024:

- Develop a Communications Strategy 2024-2029
- Systematically promote flagship publications (StoR)
- Launch public communications campaign (via UNESCO Ocean)
- Reinforce links with the Ocean Decade (Barcelona & more)





Diverse Partnerships







In Summary... Strategic Direction 2024-2025



UN Process

- IOC engagement in BBNJ New Treaty, potential role in CHM and CD, with support of EU
- Positioning IOC within the UN Ocean Conference (events, declaration, specialized events)
- Stronger articulation of IOC programmes within CBD and UNFCCC processes
- New plastic treaty?
- Regional aspects IOC RSBs vs Regional Ocean governance

SOP/MSP

- Developement of IOC Strategy + IOC contribution to SOP Decade programme, Ocean Action 2030 Coalition
- Potential new areas work (ecosystem services accounting, ocean capital, digital tools, blue economy services)
- Leveraging UNESCO expertise (ILK, Heritage, UNESCO sites)

Expending partnerships/resource mobilisation

- Further building pipeline of GEF projects (UNDP, FAO), in regions
- Developing direct access partnership with EC (build on MSP roadmap experience)
- Expend partnership with private sector (so far Prada, Fugro, Panerai) and philanthropy (leverage Decade Foundations network)

Communication/Outreach

- Need new Medium Term Comms Startegy, IOC vs UNESCO
- Develop systematic communications about the impact of IOC work on stakeholders and beneficiaries
- Reinforce links with the Ocean Decade (Barcelona and beyond, focusing on IOC-led Ocean Decade Actions)



Peter Pissierssens



Johanna Diwa



Alan Evans, Chair

CD national focal points

40 members from 34 Member States

RSBs

IOCARIBE, IOCAFRICA, IOCINDIO, WESTPAC

Global Programmes

OTGA





artnership

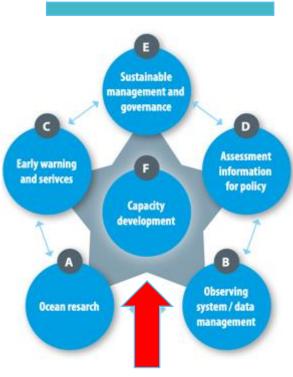
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IOC Capacity Development Strategy 2023-2030







Vision and Mission:

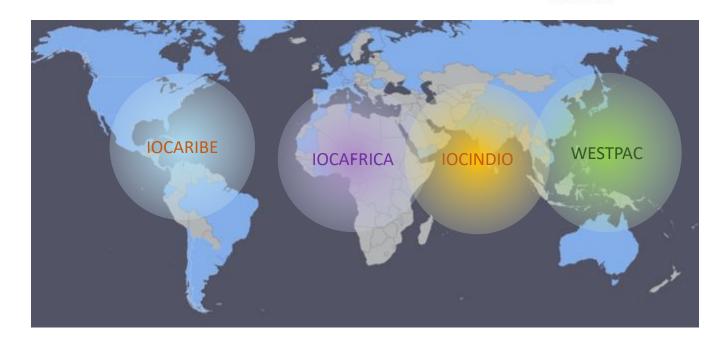
Through international cooperation, IOC will assist its Member States to collectively achieve the IOC'S high-level objectives (HLOs), and in doing so support the delivery of the societal outcomes of the United Nations Decade of Ocean Science for Sustainable Development (2021-2030), with particular attention to ensuring that all Member States have the capacity to meet them

Output	Activity			
1. Human resources developed at Individual and institutional levels	1.1 Academic and higher education 1.2 Continuous professional development: OTGA and WESTPAC RTRCs 1.3 Sharing of knowledge and expertise including through community building			
	1.4 Integration of ocean science in basic education			
	1.5 Improving gender, generational and geographic diversity			
Access to technology, physical infrastructure, data and information established or improved Global, regional and sub-regional	2.1 Facilitating access to technology and infrastructure			
	2.2 Facilitating equitable access to and sharing of ocean data and information: ODIS/OIH			
	3.1 Further strengthening and supporting secretariats of regional commissions			
mechanisms strengthened	3.2 Enhancing effective communication between regional sub-commission secretariats and global programmes as well as other communities of practice (incl. other organisations)			
	3.3 Identifying specific national and regional capacity development needs through regular needs assessment: ongoing			
	3.4 Encouraging regional and sub-regional organisations to be leaders in, and amplifiers of capacity development			
4. Development of ocean research policies in support of sustainable development objectives promoted	4.1 Fostering the development of ocean research policies			
5. Visibility, awareness and understanding on the roles and values of the ocean and ocean research in relation to human wellbeing and sustainable development increased	5.1 Fostering the development of ocean related public information and communication services			
	5.2 Fostering the development of ocean literacy (as presented under 3.1)			
6. Sustained resource mobilization reinforced	6.1 Enhancing sustained support (in-kind and financial) to the IOC for its international coordination role			
	6.2 Promoting sustained bilateral and multilateral support among Member States			

Capacity Development through the IOC Regional Subsidiary Bodies



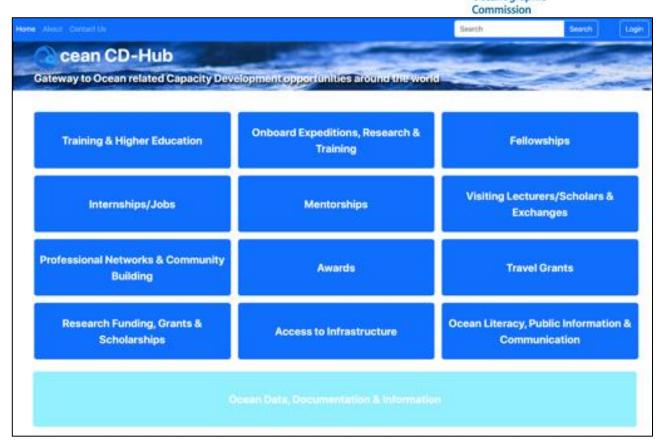
- > IOC CD: cross-cuts all other IOC functions:
 - all functions should adopt and deliver IOC CD Strategy as a key output
 - all RSBs should adopt and deliver IOC CD Strategy as a key output
- Regions are all different and have varying CD needs and societal priorities
- Informed by regional needs assessments
- RSBs are key in the successful delivery and implementation of a cohesive and inclusive capacity development in the regions
- ➤ 2024-2025: develop regional workplans and implementation plans in cooperation with RSBs that responds to the IOC capacity development strategy (e.g. IOCARIBE, soon with WESTPAC, IOCAFRICA and IOCINDIO)



IOC CD 2024-2025 and beyond

Unesco
Intergovernmental
Oceanographic

- Promote and implement the 2023-2030 IOC Capacity Development Strategy globally and regionally
- Expand the Ocean Capacity Development Hub list of CD opportunities offered globally and regionally
- Matchmaking exercises with existing expertise and resources vis-a-vis identified regional priorities for capacity development
- Start up IOC OceanTraining internship programme (and fund)
- Collaborate and contribute to capacity development ambitions of the Decade through the CD Facility
- Identify CD strategy outputs/activities that can be addressed by IOC and establish partnerships to address others.
- Contribute to capacity development components of other emerging initiatives such as to BBNJ CHM and Sustainable Ocean Planning & Management



https://oceancd.org



THE OCEAN DECADE

in a snapshot

As of November 2023

ENDORSED OCEAN DECADE ACTIONS



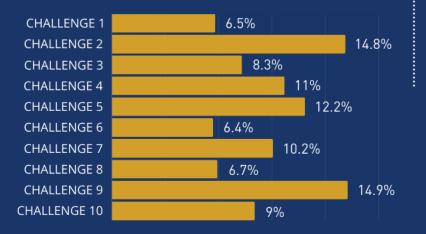
47 PROGRAMMES **88** CONTRIBUTIONS **291** PROJECTS **609** ACTIVITIES



DECADE ACTIONS LED 58 COUNTRIES BY PARTNERS FROM

ENDORSED ACTIONS PER CHALLENGE

.........



REGIONAL AND NATIONAL COORDINATION

12
DECADE
COLLABORATIVE
CENTRES/
COORDINATION
OFFICES

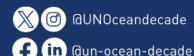
13 DECADE IMPLEMENTING PARTNERS



37 NATIONAL DECADE COMMITTEES



OCEANDECADE.ORG



ENGAGEMENT AND OUTREACH

7 INFORMAL WORKING GROUPS

11 PATRONS AND
18 INSTITUTIONAL
MEMBERS OF
THE OCEAN
DECADE
ALLIANCE



.........

OVER 20 MEMBERS OF THE FOUNDATIONS DIALOGUE



7,300

MEMBERS

FROM 173 COUNTRIES
ON THE OCEAN DECADE
NETWORK



Key Statistics from Ocean Decade Progress Report

July 2022 - June 2023



- 77,000 individuals
- 4,000 institutes
- 4,500 ECOPs
- 56% female

Outcomes of Decade Actions:

- 25,000 knowledge products
- 12,000 datasets
- 21,000 incidences of 'uptake'
- 4,000 capacity development initiatives = > 200,000 beneficiaries

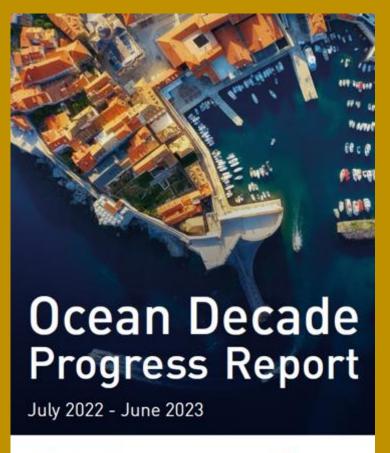
Communication & Outreach:

- 45,000 Ocean Decade followers
- Combined reach > 6 million

Decade Action leads:

- 39% North America
- 30% Europe
- 14% Asia-Pacific
- 4% Africa
- 3% SIDS





The United Nations
Decade of Ocean Science
for Sustainable Development
[2021–2030]





IOC Contribution to Ocean Decade

- IOC remains leading UN agency in terms of number of endorsed Decade Actions:
 - Leading 6 endorsed Programmes
 - Leading 10 endorsed Projects
 - Leading 4 Decade Coordination Offices
 - Key partner in 5 other endorsed programmes
- Unique opportunity to use Decade to reinforce IOC globally and regionally inc. post-Decade:
 - Leading preparation of new Sustainable Ocean Planning programme
 - Reinforcement of sub-commissions as regional ocean science hubs via DCO creation in IOCAFRICA, IOCARIBE and WESTPAC (already established)
 - Positioning of IOC in 2025 UN Ocean Conference

Resource Needs for IOC Contributions in next 12 month period

16 Decade Programmes & Projects

- USD 7.3 million secured
- USD 9.3 million gap

3 Decade Coordination Offices

- USD 439,000 secured
- USD 1,250,000 gap

Decentralised Coordination Structures



- Growing network of Decade Coordination Offices (DCOs) and Decade Collaborative Centres (DCCs)
- Tailored but similar mandates including:
 - i. Coordination of Decade Actions & catalysis of new Actions
 - ii. Gap analyses and priority setting
 - iii. Resource mobilisation
 - iv. Communications and outreach
 - v. Monitoring and reporting
- Primary / secondary attachments of Decade Actions operational and peer – peer collaboration emerging

Regional Coordination Structures (existing)

Pacific Islands Region of the Pacific Ocean

Northeast Pacific

Indian Ocean

Southern Ocean

West Pacific (IOC)

Southern Ocean

Thematic Coordination Structures (planned / being resourced)

Data Sharing (IOC)

Ocean Observations (IOC)

Ocean Literacy & Cultural Values (IOC)

Regional Coordination Structures (planned)

Africa (IOC)

Caribbean (IOC)

Arctic

Thematic Coordination Structures (existing)

Ocean Prediction

Coastal Resilience

Ocean Climate Nexus

Ocean Climate Solutions

2024 Ocean Decade Conference Barcelona, Spain: 8 - 12 April 2024



Milestone event to convene Decade
Actions and Decade partners to
celebrate achievements, take stock
and set collective vision for coming
years...

> 2000 individuals pre-registered to attend



Conference Structure and Objectives

- i. Showcase and <u>celebrate achievements</u> of the Ocean Decade
- ii. Generate <u>consensus on science policy –</u>
 <u>society priorities</u> for the Ocean Decade over the next 3 to 5 years
- iii. Create <u>opportunities for networking</u> to catalyse new partnerships and initiatives
- iv. Provide a global platform for **announcements and commitments**
- v. Prepare for a visible and **meaningful role in the 2025 UN Ocean Conference** and related events
- vi. Highlight <u>initiatives led by local partners</u> relevant to the Ocean Decade
- vii. Raise <u>visibility and awareness of the Ocean</u>

 <u>Decade</u> and the role of ocean science in sustainable development amongst the general public in Barcelona



Ocean Decade Week

8 – 12 April 2024

8 - 9 April 2024:

Partner-led
Satellite Events in various venues

10 - 12 April 2024:

2024 Ocean
Decade
Conference



Status of National Decade Committees



37 committees officially established to date



Charting a course for the Ocean Decade to the 2025 United Nations Ocean Conference



SDG Summit,
New York,
September
2023

2024 Ocean Decade Conference, Barcelona, April 2024

UN 4th
International
SIDS
Conference,
May 2024

Costa Rica Pre-UNOC June 2024 COP16 CBD, Turkiye 2024 & CO29 UNFCCC, 2024 One Ocean
Science
Conference:
Science for
Action,
Nice June

2025

United
Nations
Ocean
Conference
2025, Nice
June 2025

Priorities identified via the Vision 2030 process translated to action through:

- Alignment of existing and new Decade Actions
- Development of partnerships and initiatives
- Targeted resource mobilisation

Ocean Decade Coordination Unit





Julian BarbièreGlobal Coordinator



Niccolo' Bassan Science Officer



Madina Begmatova Programme Assistant



Alison ClausenDeputy Coordinator



Louis Demargne
Data Officer



Olivier Dufourneaud

NDC Focal Point & Coastal
Cities Initiative Coordinator



Hajar El Oumrassi Intern



Aude FlamandJunior Science Officer



Shinji Hida
Resource Mobilisation 8
Partnerships Officer



Ying Jin Trainee



Aya Khalil
Communications
Manager



Rosita La Rosa Intern



Amanda Lima Web and Social Media



Monique LimaOperations Officer



Carol Micheletti
Assistant Operations Officer



Emma Needham Ocean Decade Network Manager



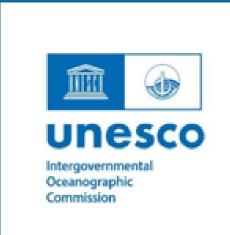
Deborah Ramalho Intern



Mandimby Ramilison Grants Manager



Polina SavinaCommunications Officer



Thank You!