

IOC 55th Executive Council

3.1 Report of Executive Secretary on the work since IOC-31

2022-Super Year for the Ocean, but a Stormy One

Dr Vladimir Ryabinin

14 June 2022

Outline



1. UN, UNESCO, Partners

2. IOC in more detail, by functions and regions

3. Decade

4. Needs and Perspectives

(Massive work is going on, multiple key events are taking place. Because of that this report will be more factual this year at the expense of considerations.)

IOC/EC-55/3.1.Doc(1)
& Addendum

Report of the IOC Executive Secretary on the work accomplished since the Thirty-first session of the Assembly (July 2021–May 2022)

IOC/EC-55/3.1.Doc(2)

Report on 2020–2021 (40 C/5) Budget Implementations as at 31 December 2021 and outline of the 2022–2023 Integrated Budgetary Framework

IOC/EC-55/3.1.Doc(3)

Financial situation of the IOC Special Account as at year end 2021 and forecast for 2022–2023

IOC/EC-55/3.1.Doc(4)

GEBSCO Developments: New Sub-Committee on Education and Training (SCET) and launch of GEBSCO Governance review



United Nations

- **UN 2022 Ocean Conference:**
 - **IOC is the only organization to be mentioned in the final Political Declaration in relation to the Ocean Decade**
 - **Key events on the level of Heads of State**
 - **Unprecedented interest in having IOC in meeting of partners (50+)**
 - **Panellist in the Interactive Dialogue**
- **UN High - Level Political Forum, including on SDG 14**
- **UN Informal Consultative Process focussed on Ocean Observations (June 2022)**
- **UN Convention on Biological Diversity (Kunming 2022) – Post-2020 GBF**
- **UNFCCC CoP– 26, Glasgow, November 2021 (large contribution)**
- **UNFCCC SBSTA-56, 1st official dialogue on ocean and climate (June 2022)**
- **UNFCCC CoP – 27, Sharm – El – Sheikh, November 2022**
- **UNEA-5 (Feb-Mar 2022) – resolution on stopping plastic pollution for 2024**
- **IGC – 5 in BBNJ, 15-26 August 2022, UN HQs, New York, CHM - TBD**

UNESCO



- **41st General Conference (Nov 2021):**
 - Plan and budget, IOC Medium-Term Strategy 2022-2029
 - Intersectoral Programmes – or IOC focus on Ocean Literacy
 - Africa, SIDS
 - GC-41 Recommendation on Open Science
- **UNESCO integrated work on ocean:**
 - communication priority for 1st half of 2022
 - “UNESCO ocean programmes”
- UNESCO Executive Board – 214 (April 2022), decision on the ocean and IOC, major interest of UNESCO in the work of IOC
- **Monitoring the situation in Ukraine with a view to help where possible**
- Dialogue with major sponsor Member States and their groupings
- **Closer connection and cooperation with SIDS, SIDS Unit in Science Sector**
- UNESCO Structural Financial Dialogue – April 2022, search for sponsors
- **IOC Evaluation of IOC Strategic Positioning, item 3.2 of today**

United Nations Partners



- **2030 Agenda and UN Decade of Action for Sustainable Development**
- **UN Decade of Ecosystem Restoration (UNEP/FAO)**
- **UN – Oceans**
- **UN Agencies: CBD, DOALOS, FAO, GEF, IAEA, IMO (WMU), ISA, UNDP, UNEP, UNU, WHO, WMO, ...**
- **GEF and UNDP – Continuation International Waters Programmatic Activities**
- **New WMO Unified Data Policy, 2021: Ocean Data and GOOS EoVs included**
A call for action to share ocean data beyond the meteorological community



Other highlights

- **President Macron's Ocean Summit, Brest, France, 9-11 Feb 2022:**
 - **Intervention of Director General in the High-Level Segment**
 - **Strong participation at the level of Heads of State or Government**
 - **Great events by IOC and Education Sector**
- **Our Ocean Conference, Palau, 13 and 14 April 2022**
 - **1st of its kind in SIDS**
 - **Commitments for the ocean, SIDS, Pacific**
- **30x30, its ocean dimension, as a way to better protect the ocean**

Active cooperation with other valuable partners

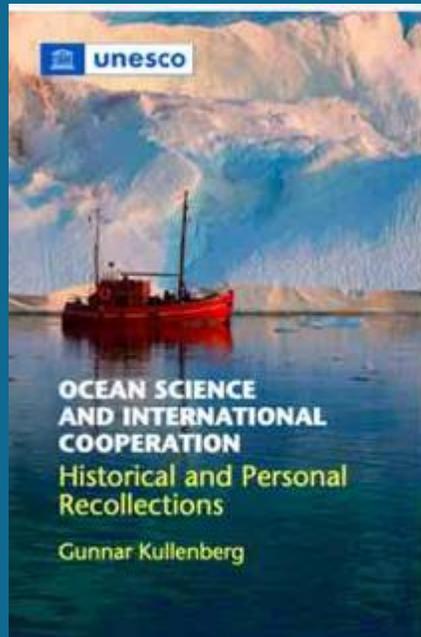


- **IGOs: EC (DGs), ICES, PICES, IUCN, IHO, SPC (MoU), IORA (MoU), IPCC, OECD...**
- **International Organizations: SCOR, ISC, ...**
- **NGOs and Private Sector: GOF, The Economist, UN Global Compact, HubOcean + RevOcean, Fugro, philanthropic foundations, ...**
- **Associations, Institutes, Projects: POGO, EMB, VLIZ, JPI, Communities for Ocean Action, Friends of Ocean Action, OKAN of Future Earth, ...**

New IOC Executive Secretary from 1.1.2024



- I am leaving on 31 December 2023
- New, 10th, IOC Executive Secretary will be appointed by Director-General of UNESCO, to start work on 1 January 2024
- Please expect a vacancy notice in due course
- Key milestone: voting for the list of 6 preferential candidates at EC-56 in June-July 2023 preceding IOC-32 with results to be presented for consideration by Director General



**Ocean science and international cooperation:
historical and personal recollections,
Gunnar Kullenberg, 6th (Executive) Secretary
UNESCO, 2021**

Outline



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IOC work through Functions



E: contributions to 2030 Agenda and SDG 14, UN, UNFCCC + Paris Agreement, BBNJ, CBD, Sendai; Coastal zones, LME, ...

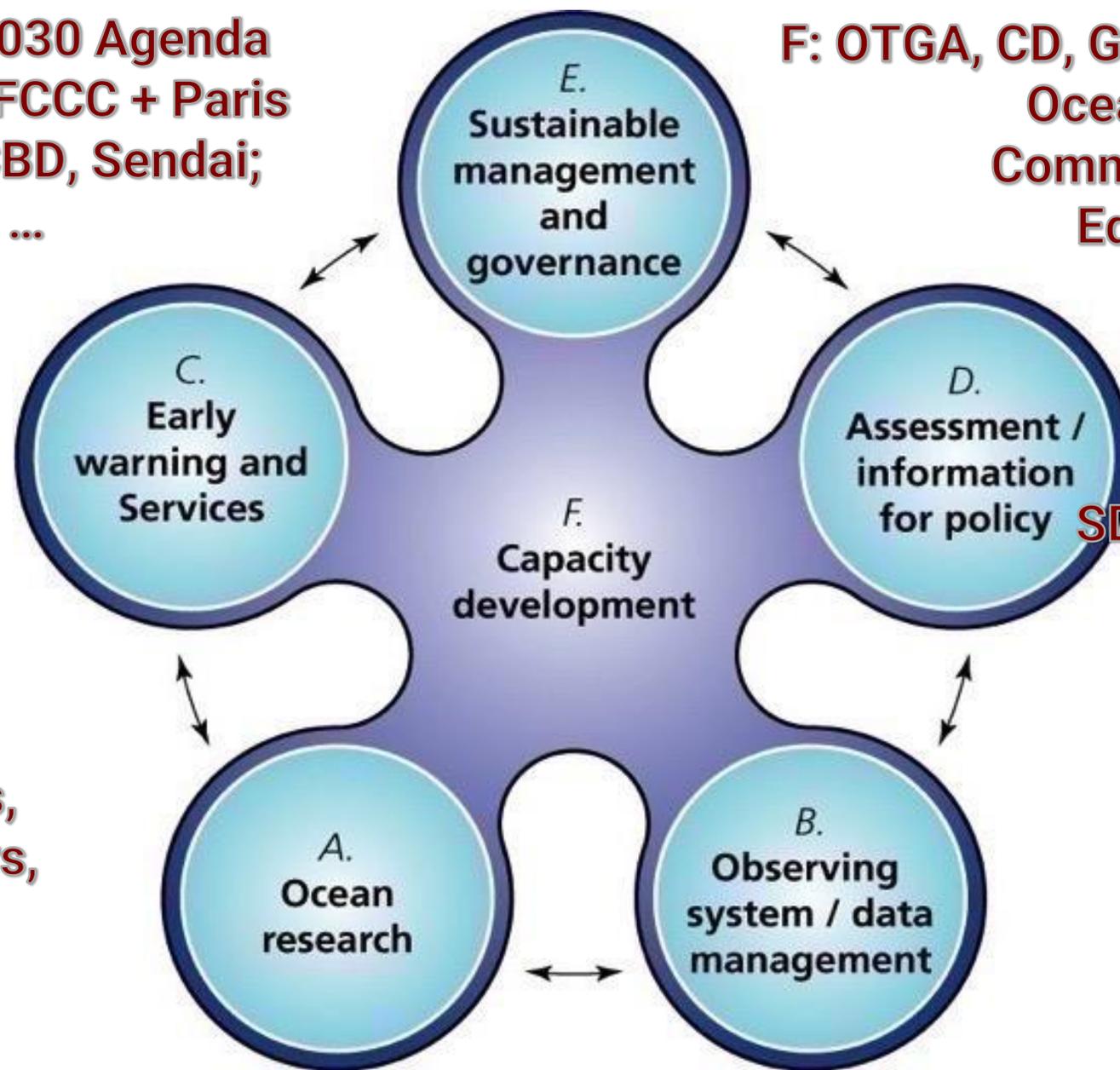
F: OTGA, CD, GOSR, TMT, Ocean literacy, Communication, Education, ...

C: Tsunami, HABs, Ocean Prediction and Services, WMO/IOC JCB, ...

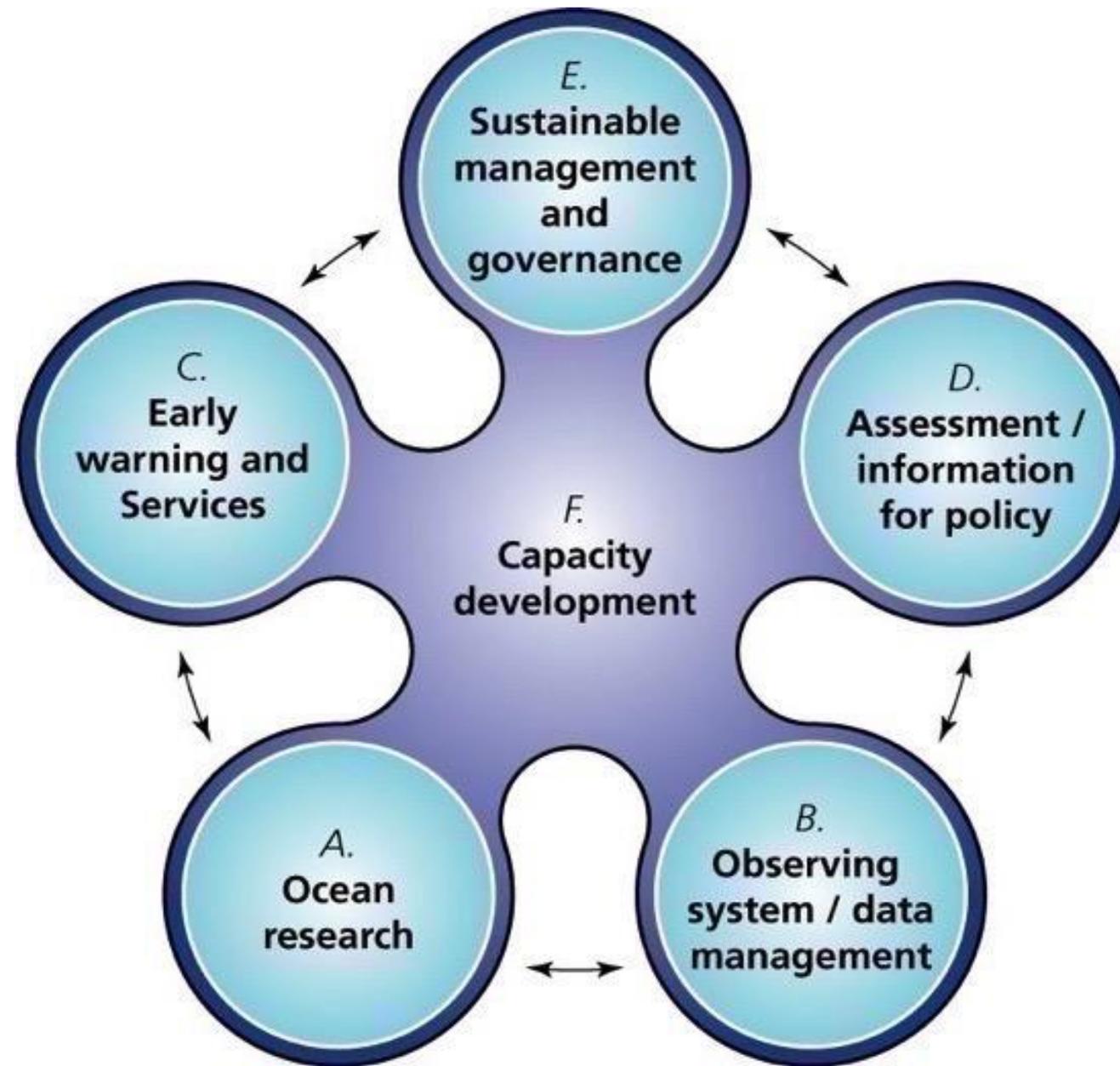
D: IPCC, WOA, IPBES, SDG 14.3, SDG 14.a, GEBCO, ...

A: IIOE-2, GOAON, GO₂NE, Time Series, TrendsPO, Stressors, Carbon, GESAMP, WCRP, ...

B: GOOS, GLOSS, IODE, OBIS, ...



IOC work through Functions – highlights only



Function A: Large Portfolio



MOS - Multiple Ocean Stressors



TrendsPO



Non indigenous invasive species – CCLME ; WGBOSV

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



Input to SDG, CBD and UNFCCC

GO₂NE Global Ocean Oxygen Network



Ocean Acidification



Recent achievements:

- Webinars continued
- Annual meeting in October 2021 and May 2022 – planning of **GOOD – a Decade endorsed programme**
- Publication of Global Ocean Oxygen Data Atlas (GO2DAT) in Frontiers (December 2022)
- Liege Colloquium 2022 - 3rd international GO2NE conference
- GO2DAT hackathon

Coming up:

- implementation of GO2DAT
- participation in Ocean Hackathon
- GOOD newsletter
- sessions at ECCWO and EBUS conference
- Development of 3 best practices papers

Recent achievements:

- Annual GOA-ON EC meeting, **outlining OARS - Decade programme, its 7 Outcomes and Working Groups, development of OARS white paper**
- 3rd annual data collection towards SDG 14.3.1, data analysis and reporting to UN DESA
- SDG 14.3.1 – federated system to exchange relevant data with multiple databases in development
- OA data contributed to WMO Statement of the State of the Climate November 2021
- First training delivered through the newly developed OTGA Ocean Acidification online course
- New 14.3.1 information submitted to UN DESA February 2022

Coming up:

- Support to 5th Ocean in a High CO₂ World Symposium September 2022 in Lima, Peru, and in-person GOA-ON annual EC meeting

CCLM	CC - UNESCO	Comm	Blue Carbon	EBUS	ECCWO	Gender	GESAMP	GloFouling	GOSR	GO2NE	HAB	ICEP	IOE	Ind Knowledge	IOC-R	MOS	OA	OL	StoR	TrendsPo	WCRP
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Function A: Stressors

MOS Multiple Ocean Stressors

GO₂NE Global Ocean Oxygen Network

CCLME alien species and stressors



GESAMP
Joint Group of Experts on the
Scientific Aspects of Marine
Environmental Protection

Plastic Impacts – WG 40

Pollutants – WG 45



Ocean Acidification

**- Successful work as UN Custodian
Agency for Indicator 14.3.1**



Harmful Algae incl GlobalHAB

**IOC-FAO IPHAB
IOC-SCOR GlobalHAB (Sargassum)**

**1st Global HAB Status Report:
9500 events over 33 years**

Function A: Climate



Blue Carbon



IOCR

Ocean Carbon



GESAMP
Joint Group of Experts on the
Scientific Aspects of Marine
Environmental Protection

Climate change Mitigation – WG41

TrendsPO Global Trends



New Core Project 'Earth System Modelling and Observation'
Open Conference – March 2023, Kigali, Rwanda



eccw05
17-21 April, 2023
BERGEN NORWAY



ICES
CIEM



Effects of Climate Change on the World's Ocean

Function A: Overall Support to Ocean Research



GOSR / SDG 14.a.1

- Successful work as UN Custodian Agency for Indicator 14.a.1



State of the Ocean Report – Pilot, Agenda Item 3.2 for tomorrow

Emerging work: Indigenous Knowledge

Function A: Regional Research

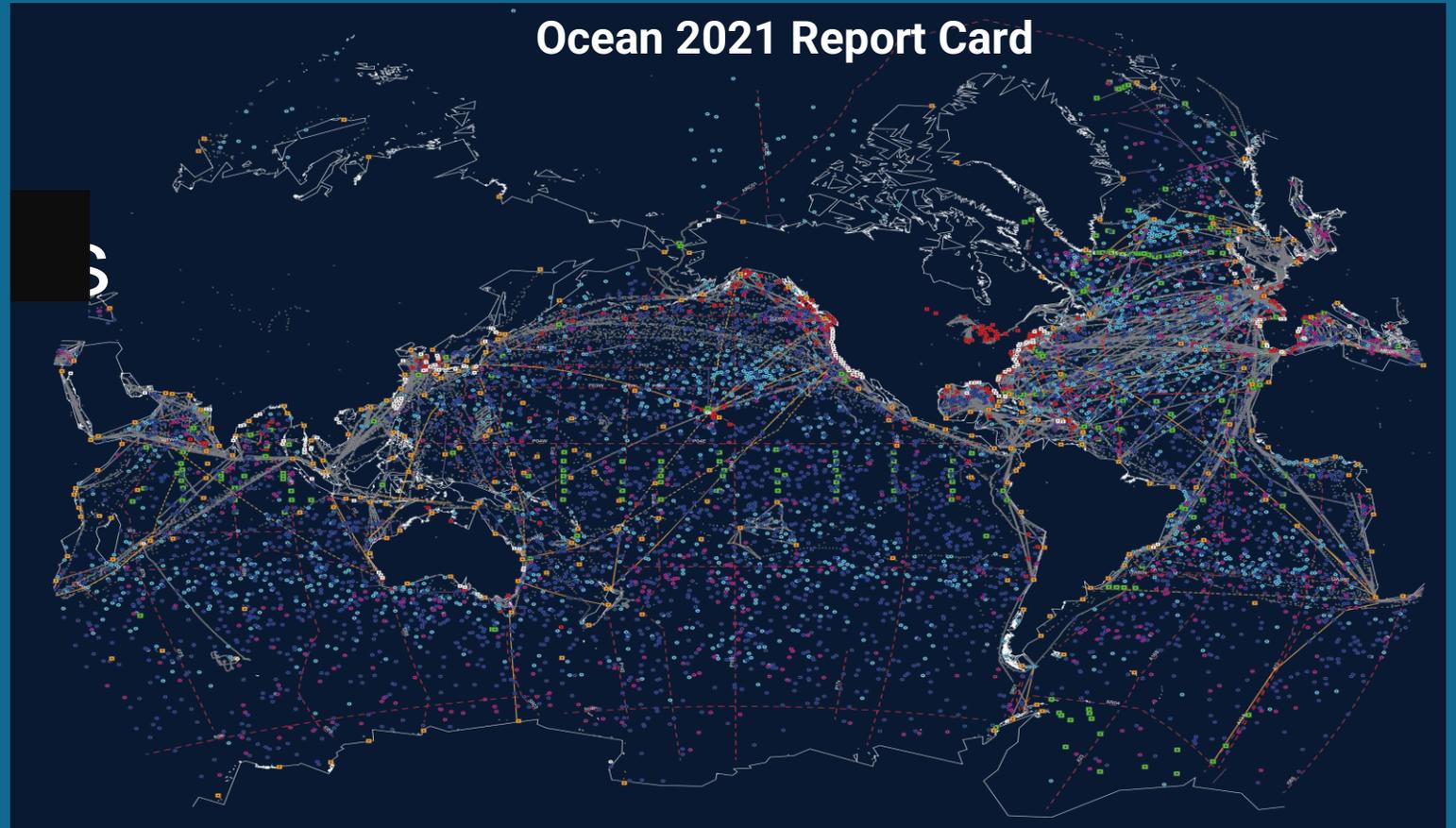


- Most representative and successful conference for the Indian Ocean
- Future of IIOE-2, transformation to fit the 2030 Agenda, how to support from IOC
- Thank you INCOIS for holding the fort after retirement of Nick D'Adamo!

Open Science Conference on Eastern Boundary Upwelling Systems: Past, Present and Future. 19-23 September 2023

Function B: Observing System

- 12 global networks, 86 countries, 8900+ platforms
- Climate and operational services – more mature
- BGC – in progress, more work needed, e.g. on carbon, reference materials, data.
- BioEco – many gaps, 12 EOVS networks developing
- Major gaps in deep, polar ocean



Function B: Observing System

- Key to sustainability and adaptation to climate change
- GOOS supported by IOC, WMO, SCOR, Member States
- OceanOPS additional support from WMO
- Ocean Observing Report Card increasingly used – 2022
- Covid -19: initial resilience, but the scar in climate data sets will remain forever, many arrays suffered, RAMA – critically
- GOOS 2030 Strategy, GOOS Steering Committee – 11, Apr-May 2022
- Observations Coordination Group Data Implementation Plan
- Ocean Observing in EEZs – item 3.4
- Decade Coordination Office for ocean observations, Decade Collaborative Centre for Coastal Resilience in a Changing Climate
- UN ICP on Ocean Observing (6-10 June 2022) – visibility within UN

Three Transformational Ocean Decade Programmes



Ocean Observing Co-Design

Transforming our ocean observing system assessment and design processes. Co-design system with observers, modelling, satellite, and users in critical areas to lift ocean observing



CoastPredict

Revolutionising Global Coastal Ocean observing and forecasting, co-designing the needed infrastructure and offering open and free access to coastal information.

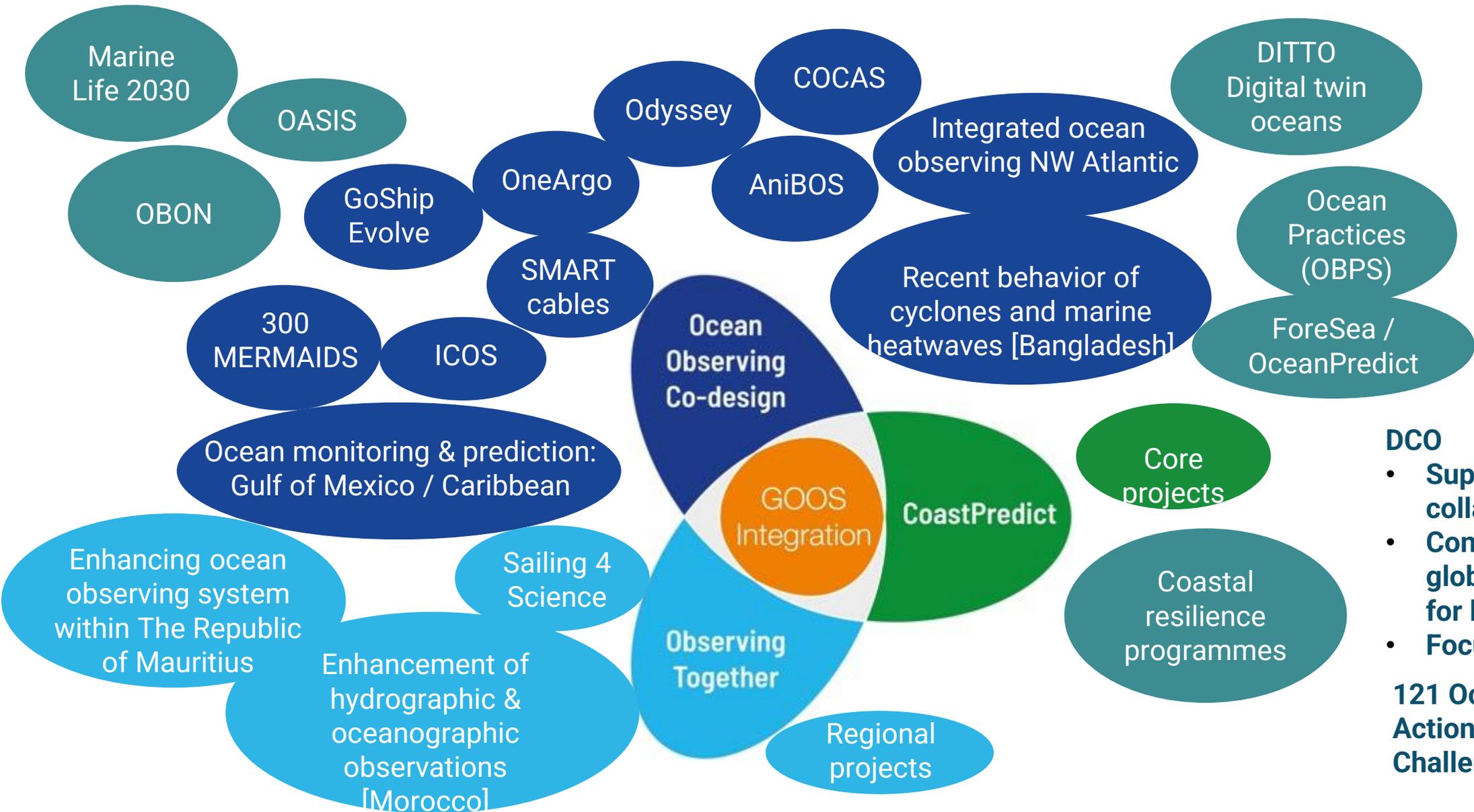


Observing Together

Meeting stakeholder needs and make every observation count through enhanced support to community-scale projects. Transforming capacity. Transforming observing capacity and ocean data access at community level



Decade Coordination Office (DCO) for Ocean Observing



- DCO**
- Support enhanced collaboration
 - Connection to global systems for legacy
 - Focus data flow
- 121 Ocean Decade Actions – 56% target Challenge 7**

Function B: Data Management



**International Ocean Data Conference 2022:
The Data We Need for the Ocean We Want
14- 16 February 2022, Sopot, Poland**



- 93 Data Centres, 32 (+1) ADUs, 5 AIUs
- First meeting of inter- sessional working group on the Revision of the IOC Oceanographic Data Exchange Policy, April 2022
- New MoU with Flanders Marine Institute (VLIZ)
- Oostende Office moving to new building: InnovOcean Campus
- IODE MAN meeting, March 2022
- Development of the Ocean Best Practices System (IODE/GOOS)
- Data – central tenet for sustainability, Decade, need for a strong and well-resourced Ocean Decade **Data Coordination Office**

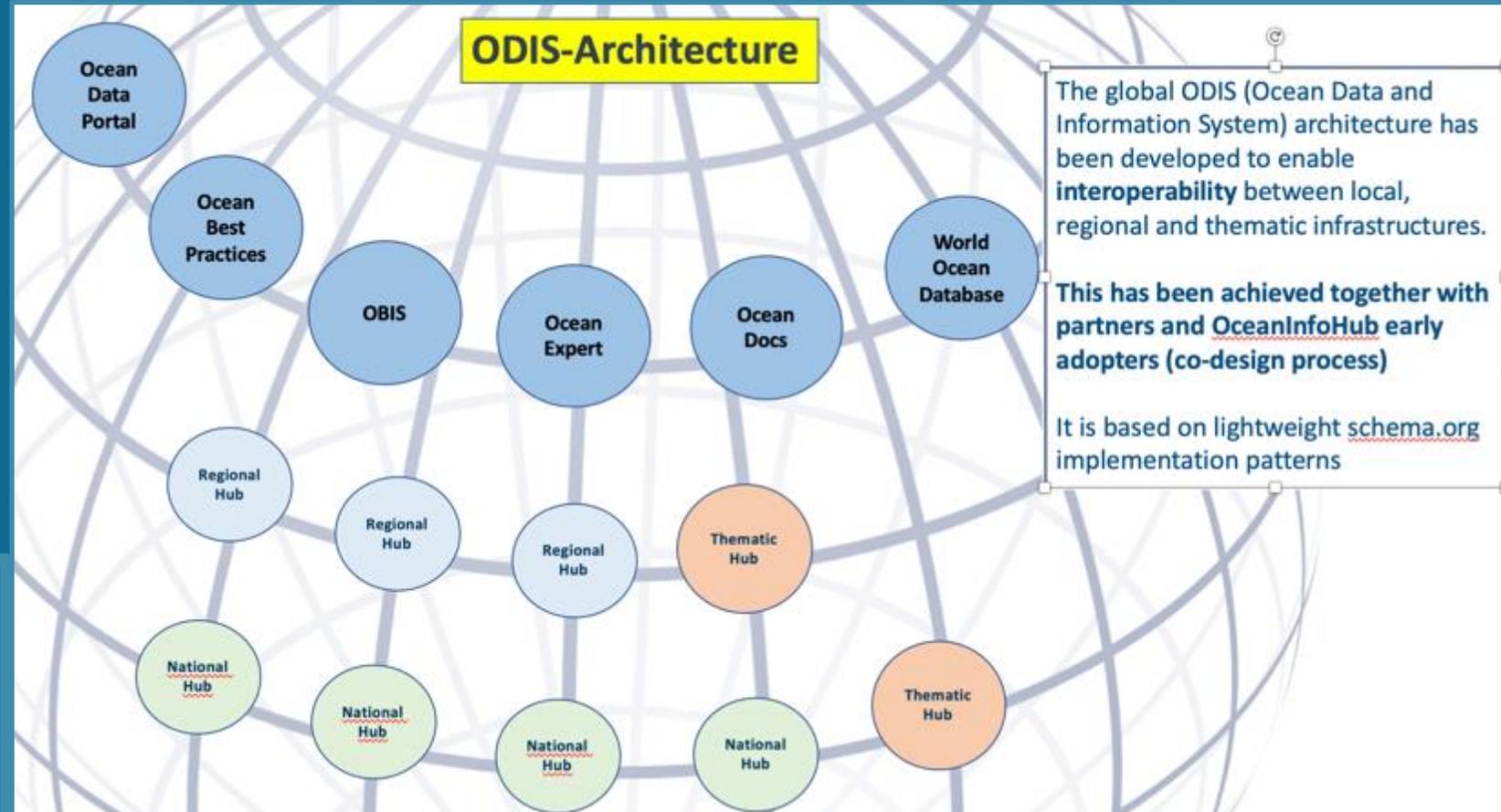
Function B: Data Management towards ODIS: Ocean Data & Information System

Goal: improve access to marine and coastal data and information, thus improving the flow of information to end users.

Approach: develop interoperability between existing information systems.

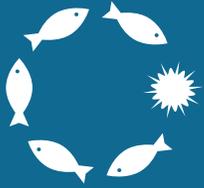
Pilot regions

1. Africa region,
2. Latin America and Caribbean region, and the
3. Pacific Small Island Developing States





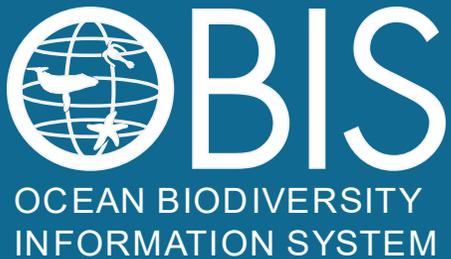
Function A,B,C: Research, Observations, Data, Services



PacMAN

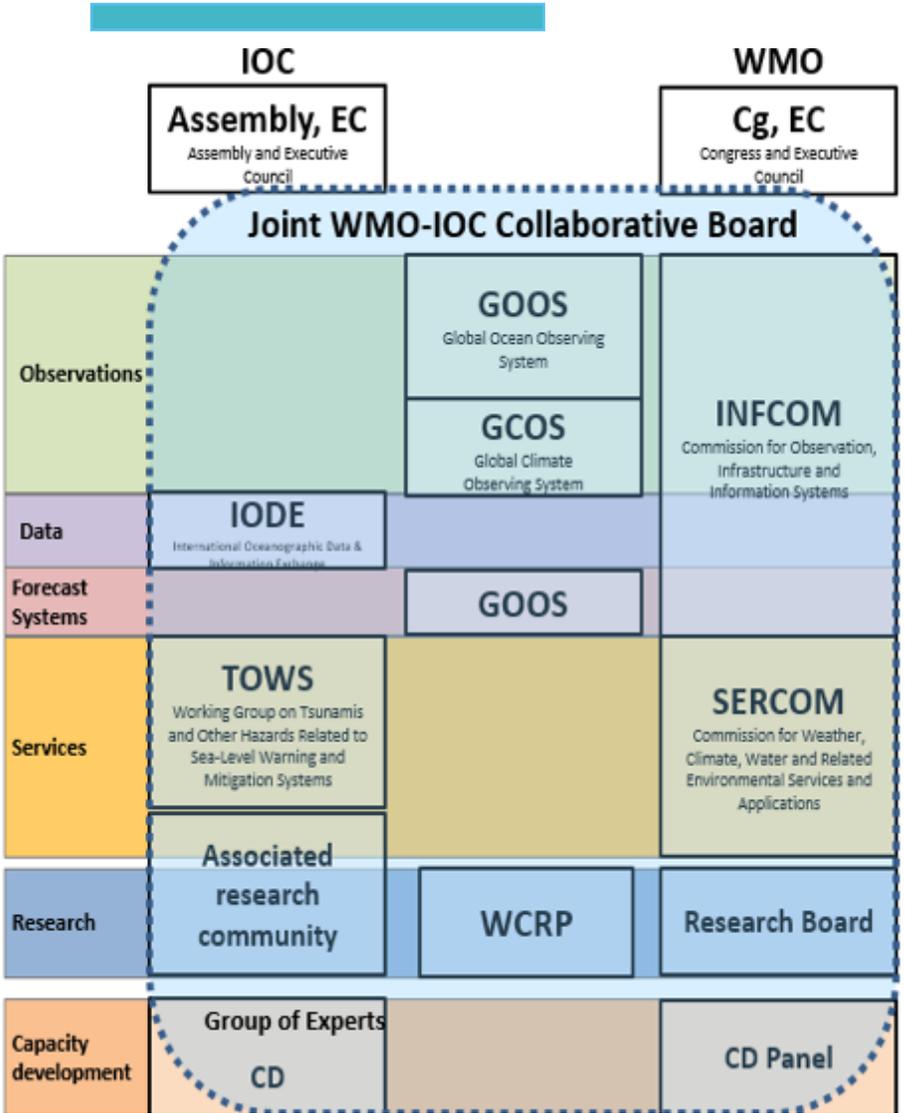
Pacific Islands Marine
Bioinvasions Alert Network

***Invasive species monitoring system and
early-warning decision-support tool for
Pacific Island States***

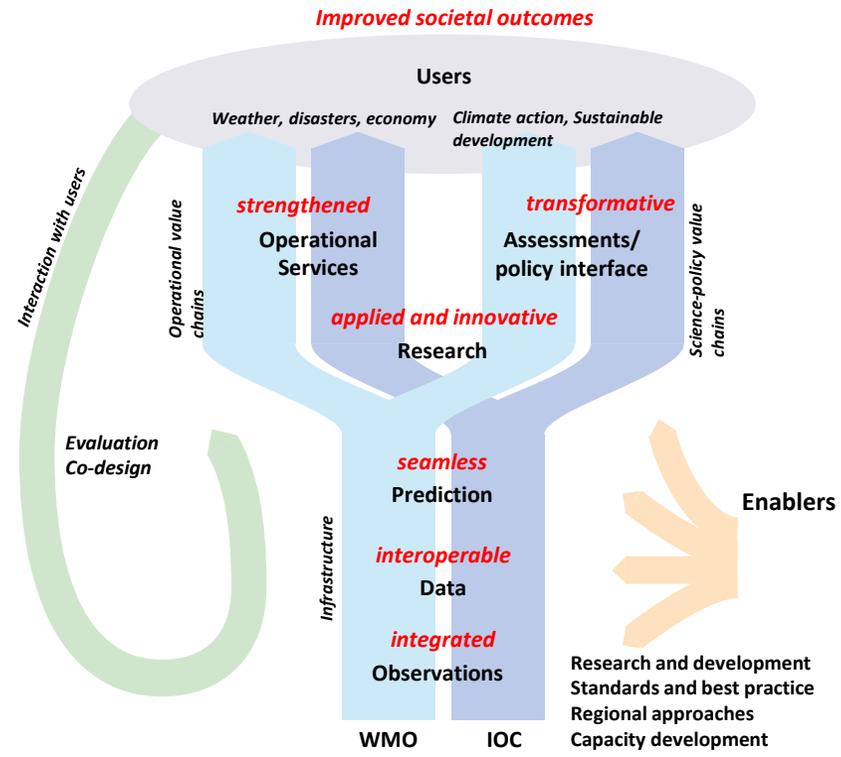


- **New level of capacity to manage biodiversity data from molecular methods, published 20+ million eDNA records.**
- **With New technologies (eDNA, acoustics - tracking animals, optics - imaging), OBIS is now publishing 10x more data, e.g. in 2021 – as many as in the previous decade**

Functions A,B,C+: WMO-IOC Joint Collaborative Board



Collaborative Strategy



JCB: 1,2 March 2022



- Observations, Data, Forecasting, Services, Research, Regional Activities and Capacity Development
- Gaps
- 15 areas of collaboration

Value chains (blue), feedback cycles (green), & enablers (orange) across meteorological & oceanographic infrastructure, service delivery & science-policy interfaces

Function C: Tsunami, item 3.5.1

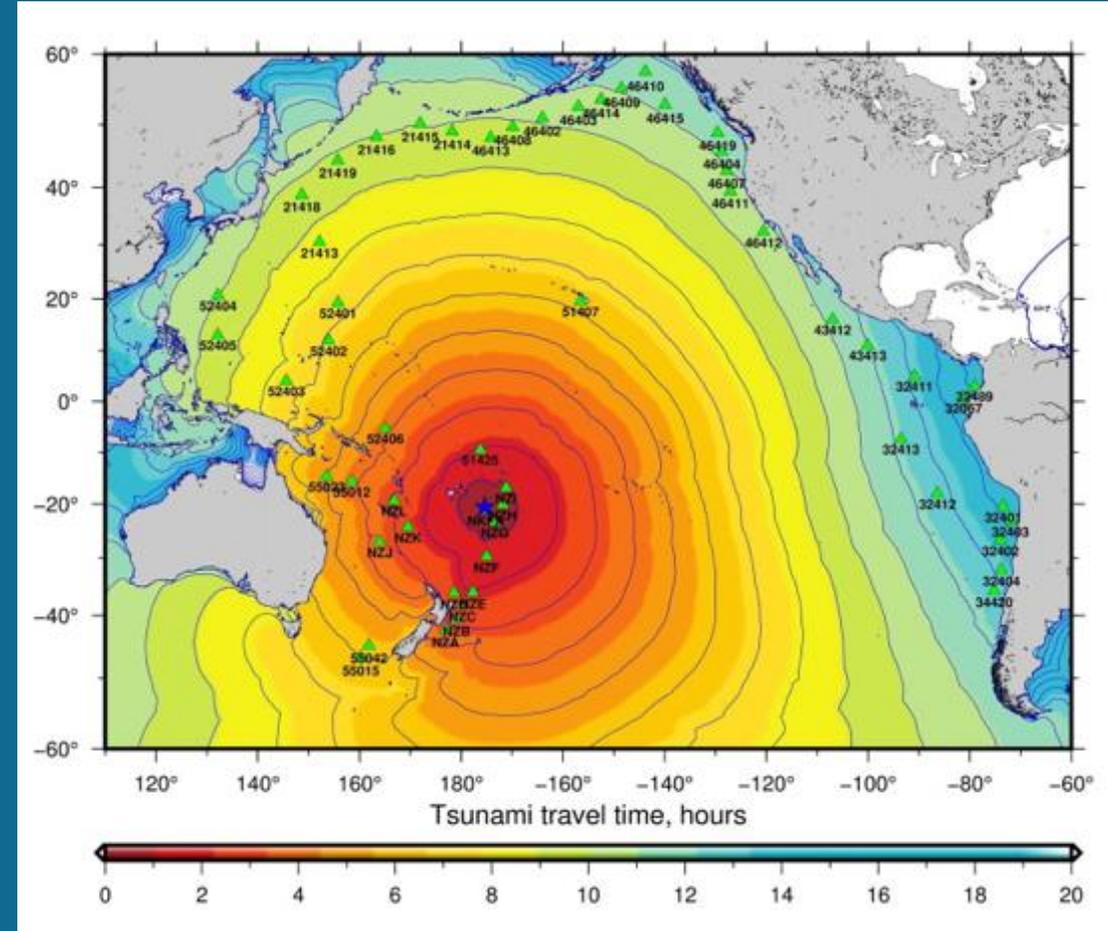


- **Positive development overall including 4 regional systems and TOWS Working Group**
- **Funding and support by Member States continues – thank you!**
- **New funded projects, e.g. with European Commission**
- **Wave exercises**
- **Build-up of the Tsunami Ready Programme and its Coalition**
- **Active and Productive Cooperation with UN DRR including at the Third Multi-Hazard Early Warning Conference and 7th Global Platform for Disaster Risk Reduction, 23-28 May 2022, Bali, Indonesia**
- **Growing impact of the World Tsunami Awareness Day**
- **Development of IOC Ocean Decade Tsunami Programme**

Function C: Tsunami



Hunga Tonga - Hunga Ha'apai Volcano Eruption, 15 January 2022



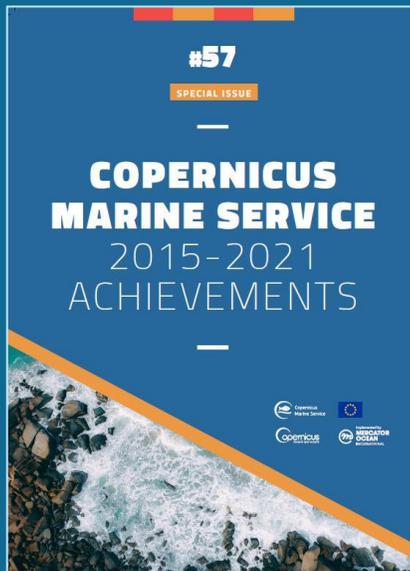
Pacific Tsunami Warning Center (PTWC)
Pacific Tsunami Warning and Mitigation System
(PTWS) Task Team on Tsunami Hazard Response

DART: Deep-ocean Assessment
and Reporting of Tsunami

PTWS HTHH Interim Volcano Tsunami Procedures Implementation Plan

Function C: Services

- Expert Team on Operational Ocean Forecasting Systems (ETOOFS)
Guide: *Implementing Operational Ocean Monitoring & Forecasting Systems*
3 trainings on Ocean Forecasting (hundreds of participants), 2 with OTGA
- Harmful Algal Blooms – big work and progress
- Copernicus Marine Service conversion into an intergovernmental non-profit organization **Mercator Ocean International** (Moi - France, Italy, Norway, Portugal, Spain, UK)



Function D: Assessment, Information for Policy

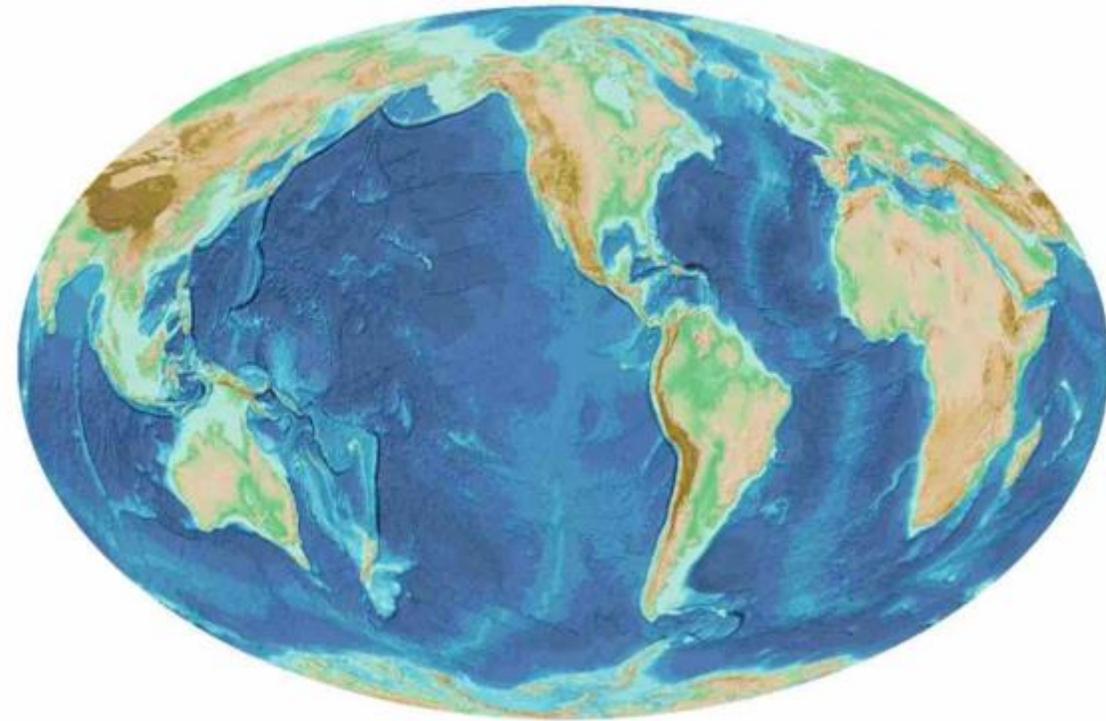


- **Reporting on SDGs as Custodian:**
 - 14.3 - Tier 2 - Portal with help of IODE – data growth, training**
 - 14.a - Tier 2 - Portal with help of IODE - GOSR – 1.7%**
- **Responsible for development, UNEP being Custodian:**
 - 14.1 – Index for Coastal Eutrophication Potential**
- **WOA-3, 2021-2025, helping with CD**
- **StOR, item 3.2**

Function D: Assessment, Information for Policy



- **GEBCO Grid 2021**
- **Symposium “Map the Gaps”,
Nov-Dec 2021**
- **GEBCO Guiding Committee**
- **SCUFN meetings nos. 34 and 35**



New Sub-Committee on Education and Training (SCET)



- **SCET** cooperates with

4 existing Sub-Committees

- TSCOM (Technical Sub-Committee on Ocean Mapping)
- SCRUM (Sub-Committee on Regional Undersea Mapping)
- SCUFN (Sub-Committee on Undersea Feature Names)
- SCOPE (Sub-Committee on Communications, Outreach, and Public Engagement)

- The New Sub-committee, **SCET**: Sub-Committee on Education and Training, to develop and coordinate the education and training strategy of the GEBCO Programme
- ToRs presented in document document IOC/EC-55/3.1.Doc(4)

GEBCO Developments - GEBCO Governance Review



1. Recognising the need to periodically review the governance of organizational frameworks and acknowledging recent important new developments with the two parent organizations

- new strategic frameworks (e.g. IOC MTS)
- the Ocean Decade

2. GEBCO work have never been so relevant or visible.

- Need for GEBCO to evolve in the changing environment in order to remain relevant, with organizational structure that has grown in recent years, several WGs, and the donor driven project Seabed 2030
- A review of the programmes governance should be undertaken to streamline the way GEBCO delivers its mandate
- Governance Review, together with the intended scope, methodology and timeline was produced by the GEGCO Guiding Committee (GGC) (document IOC/EC-55/3.1.Doc(4))
- Establishment of a Governance Review Team (GGC Members, IOC and IHO Secretariat, External advisers)

3. **The outcome of the Governance review will be reported to the 32nd IOC Assembly as well as IHO Assembly in 2023 which could have potential impact on the revision of RoP/ToR of GEBCO**



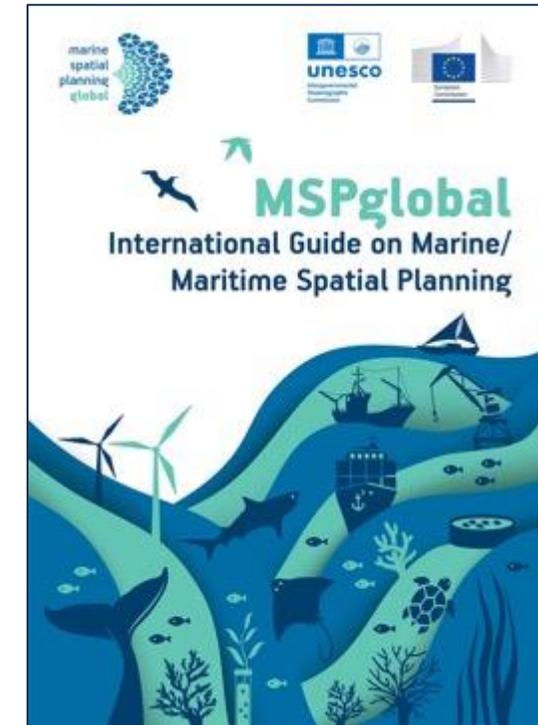
Function E: Sustainable Management and Governance



Conclusion of MSPglobal Initiative (Nov 2018 - Oct 2021)



- ✓ About 5,000 stakeholders (+140 countries)
- ✓ About 150 activities
- ✓ 2 regional roadmaps on MSP
 - *Western Mediterranean*
 - *Southeast Pacific*
- ✓ 10 technical reports
- ✓ 6 policy briefs
- ✓ **New International Guide on MSP (EN, ES, FR, AR)**



Other MSP-related activities since Jun 2021

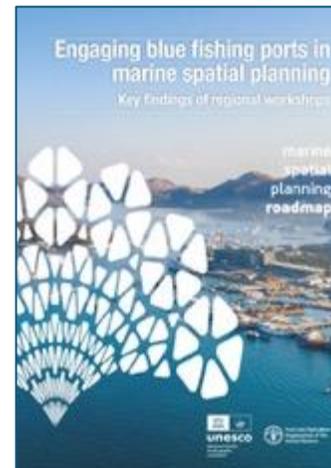
Co-funded by the Government of Sweden

- National and regional MSP Dialogues
- Regional workshops on MSP & Blue Fishing Ports (partnership with FAO)
- IOCAFRICA activities on MSP



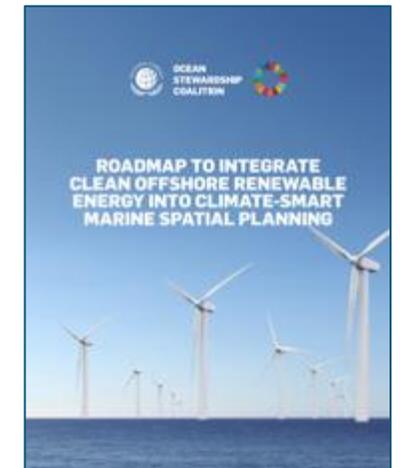
Partnership with UN Global Compact

- Climate-smart MSP roadmap
- Working group on MSP and offshore wind



Tracking National MSP implementation

- 2022 MSP Survey



Updated MSP Roadmap (2022-2027) + new MSP project (2023-2024)



- New Ocean Commitments under preparation
- With the European Commission

Updated Joint Roadmap to accelerate MSP processes worldwide

To be officially launched during the 3rd International Conference on MSP
(save the date - Nov 2022)

Actions to be implemented through **new MSP project** (starting in 2023)
co-funded by the European Commission

- With the Government of The Netherlands + the European Commission + 12 partners
- MSP Challenge/MSP global training network on Marine Spatial Planning***

To be officially launched during the UN Ocean Conference in Lisbon
Capacity building material on MSP donated by The Netherlands as a
contribution to the MSP Roadmap



Function F: Capacity Development

**Third Session of the IOC Group of Experts on Capacity Development
Online: 1, 2 December 2021**

Working Group on the revision of IOC CD Strategy (3 meetings in 2022)

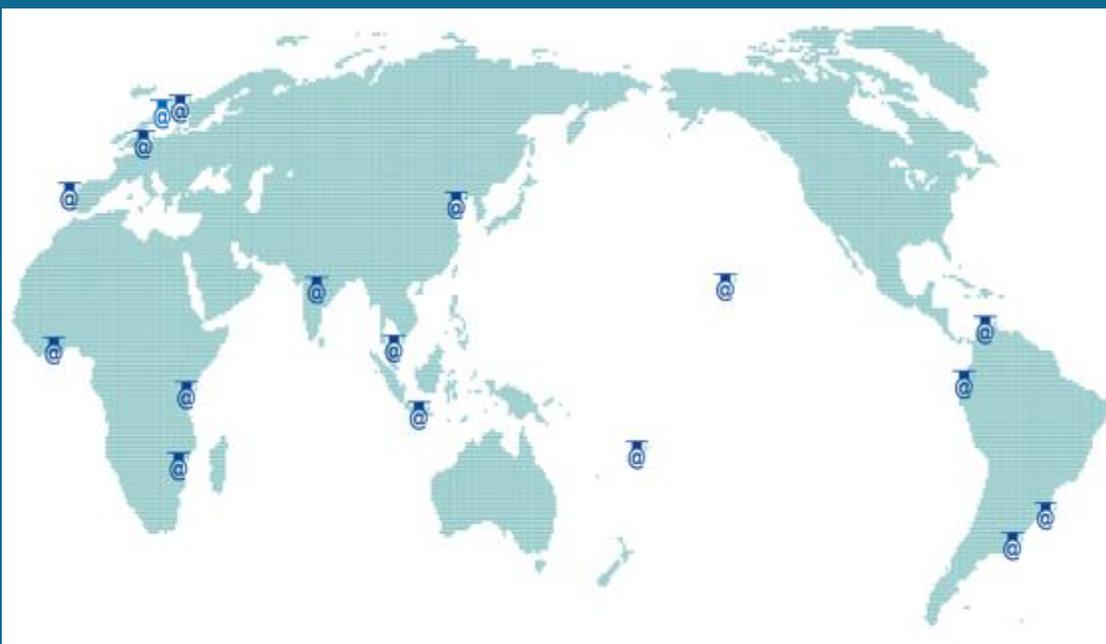
IOC Decision A-31/3.5.3 Revision of the IOC Capacity Development Strategy

vii) revise the IOC CD Strategy and prepare a proposal for submission to IOC-32;

viii) prepare a proposal to promote visibility and reach of the revised IOC CD Strategy so that its target audience will read through and appreciate the document as a guide in implementing CD activities for submission and submit it to IOC-32



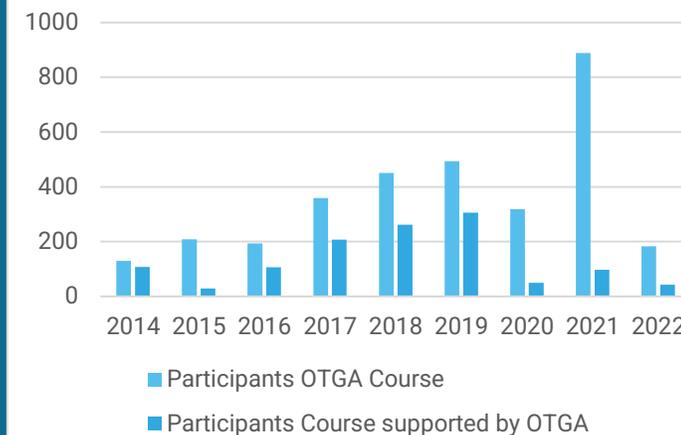
Function F: Capacity Development and its key IOC Tool:



Courses 2014-2022



Course participants 2014-2022



IOC Sub-Commission for the Western Pacific (WESTPAC)



- Regional Network of Training and Research Centers on Marine Sciences (RTRCs)-SDG 14.a

RTRC specialized trainings and research for SDGs

- ❖ Marine biodiversity and ecosystem health (Jakarta, Indonesia)
- ❖ Ocean dynamics and climate (Qingdao, China)
- ❖ Coral reef conservation and restoration (Bolinao, the Philippines)
- ❖ Marine toxins and seafood safety (Nha Trang, Vietnam)
- ❖ Marine plastic debris and microplastic (Shanghai, China)



Ocean Dynamics and Climate
First Institute of Oceanography, MNR, China



Marine Biodiversity and Ecosystem Health
Indonesian Institute of Sciences



Marine Toxins and Seafood Safety
Institute of Oceanography, Vietnam



Reef Management and Restoration
University of the Philippines Diliman



Phuket Marine Biological Center, Thailand



Marine Plastic Debris and Microplastics
East China Normal University

More RTRCs under establishment based on "demand driven" and willingness.

- Tailored national trainings held on a rotational basis



National training on Remote sensing for Coastal Habitat Conservation, 16-18 Dec 2021, Thailand



A Harmful Jellyfish Sampling Protocol training Workshop, April 2022, Penang, Malaysia



Accelerating the transfer of marine technology for the conservation and sustainable use of oceans, seas and marine resources, June 2019-June 2023



Enhance the Capacity for Species Identification and Genetic Analysis on Marine Organisms in the Coral Reef Ecosystems in the Western Pacific", June 2019- June 2023



National training on Ocean acidification and molecular techniques, April- Oct 2022, Vietnam, Thailand, Malaysia





Function F: Capacity Development, C2Cs

Regional Education and Research Centre on Oceanography for West Asia (RCOWA), I.R. of Iran (renewal in progress):

5th Session of the Governing Board, 14 February 2022

Recent Regional Training Courses:

Data Analysis and Ocean Observing Instruments

Coastal Desalination Intake and Brine Disposal System Planning

International Training Centre for Operational Oceanography

(ITCOOcean), India (renewal preparations to start):

28 international training courses for 924 national and foreign experts

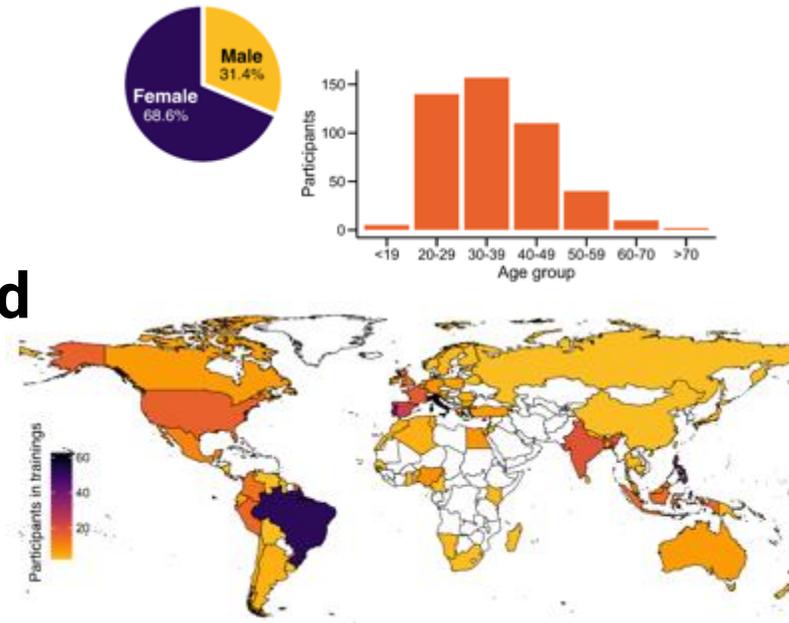
International Centre for Capacity Development: Sustainable Use of Natural Resources and Societal Change (GRO), Iceland:

first UNESCO cross-sectorial C2C with a training programme on 'Science for sustainable fisheries'

Function F: Ocean Literacy

Six IOC OL Action Plan Priorities:

- Ocean in formal education curricula
- Inclusion of diverse stakeholders
- Products/resources accessible
- Capacity of stakeholders strengthened
- Use of science of human behavioral change and communication
- Resource mobilization



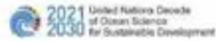
The IOC Group of Experts on Ocean Literacy about to be established

Communication



- IOC highly visible as leading the **UN Ocean Decade 2021-2030**
- **#GenOcean Campaign** launched February 2022: <http://genocean.org>
- Expanding **IOC Newsletter** (~4'500 subscribers) + establishment of thematic newsletters (Ocean Literacy, MSP, etc.)
- IOC – co-organizer of the **UN World Oceans Day** (unworldoceansday.org)
- Expanded social media presence:
LinkedIn **(10.9K)**, Instagram **(9.3K)**, Facebook **(25.7K)**, Twitter **(19.2K)**
- IOC set to be highly visible at the **2022 UN Ocean Conference**

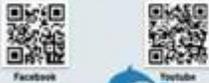




UN Ocean Decade Kickoff Conference for the Western Pacific and its Adjacent Areas

Watch the Opening on November 25 at 1300-1520 Bangkok (UTC+7)

Watch the conference livestream



Participant logging in

Opening

Introduction to the Ocean Decade – "The Ocean Science We Need for the Ocean We Want"

- More than 3,000 participants
- High Level Commitments & Stakeholder Roundtable Dialogue
- Voice from the Youth
- **17 UN Ocean Decade Incubators**



Four proposals registered as UN Decade Actions (Programme/Project)

1330-1420 High-Level Segment – The ocean sustains lives and livelihoods, we must "think globally and act locally" to "make peace with nature to deliver a prosperous and equitable world for all, leaving no one behind".

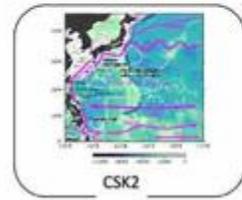
H.E. Hong Wang, H.E. Laksana Tri Handoko, H.E. Takashi Yanagi, H.E. Dato' Mansor Bin Haji Osman, H.E. Ambassador Ma Theresa Parrero Lazaro, H.E. Armida Salimah Aljabana, H.E. Shigeru Aoyagi

1420-1515 Stakeholder Roundtable Dialogue – The ocean and ocean science hold answers to many defining challenges plaguing humanity. How could we unlock these solutions to sustainable development challenges in the region?

Panelists

Renato U. Solidum, Jr., Minhan Dai, Hide Sakaguchi, Montri Rawanchaikul, Maeve Nightingale, Seung-Tae Yoon

- **UN 24**—Explore the strongest ocean current in the Western Pacific: the 2nd Cooperative Study of Kuroshio and Adjacent Regions – from its sciences to human well beings
- **UN 23**—Accelerating capacity development transformations in the Western Pacific - Regional Network of Training and Research Centers (RTRCs) on Marine Science
- **UN 22**—Stem the tide of Asia's riverine plastic emission into the ocean
- **UN 21**—Accelerate Marine Spatial Planning in the Western Pacific and its



Decade DCO extending WESTPAC office with help of Thailand!



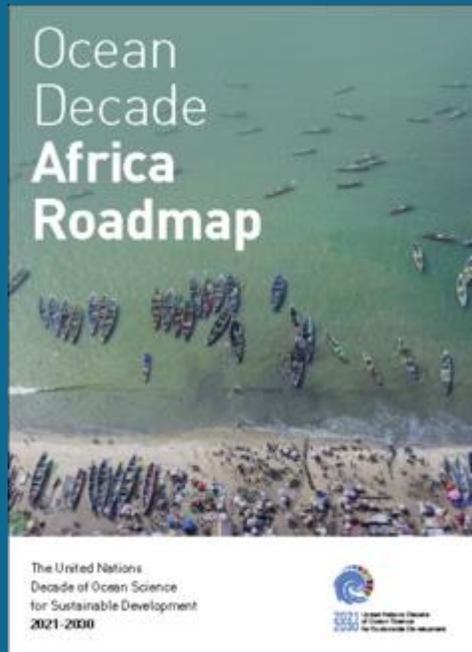
IOCAFRICA

- **Marine Spatial Planning (National Consultations, Case studies on Gender and Poverty perspectives of MSP in Kenya, Madagascar, Tanzania)**
- **Ocean Acidification baseline surveys (Cote d'Ivoire, Madagascar, Nigeria)**
- **Harmful Algal Bloom surveys (Namibia, Morocco)**
- **Regional node for Ocean Information Hub (with WIOMSA, UNEP, CORDIO, etc.)**
- **Vessel-based ocean monitoring, R/V Dr Fridtjof Nansen surveys (with FAO)**
- **Survey of status of ocean observations along the African coastline**
- **Consultations on mapping the sea floor along the African coastline**
- **OTGA workshops in Ghana, Kenya and Mozambique**

IOCAFRICA: moving forward with Decade



- Establishment of Regional Task Force
- Awareness creation
- Codesign of Regional Actions
- Resource Mobilization
- Implementation



The Ocean Decade Africa Roadmap needs to be quickly and broadly distributed both in Africa and globally to engage nations!



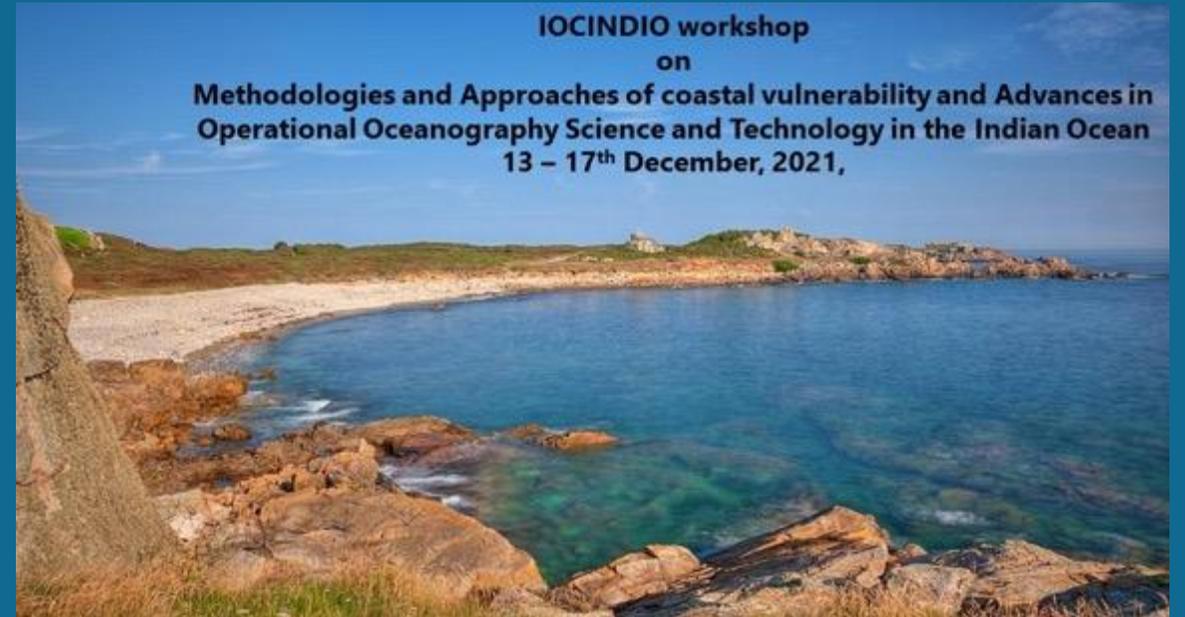


IOCARIBE (40 years!)

- Decade: 7 Webinars -> 16–17 Dec 2021 Kick-off Conference, 3(8) proposals
- Update to IOCARIBE MTS Strategy Science Plan
- Regional Planning Group to advance and coordinate strategic partnerships and actions for the Tropical Americas and Caribbean (TAC) Region
- **HAB ANCA Group: trainings and book on Ciguatera**
- **OTGA Centre at INVEMAR (Colombia), 239 trainees July-December 2021.**
- **IODE Ocean InfoHub LAC component progressing**
- **Caribbean Marine Atlas (CMA)**
- **Sargassum Information Hub and best management practices**
- **CLME+ project successfully ended Oct 2021 with a Coordination Mechanism for the Management of the CLME+ Transboundary Marine Resources. A new Project Proposal (the PROCARIBE+ Project) approved in September 2021**
- **Vacancy for Head of IOCARIBE Office open**

IOCINDIO

- **Workshop “Methodologies and Approaches of coastal vulnerability and Advances in Operational oceanography science and technology in the Indian Ocean”, 13–17 December 2021**



- **OCEANS'2022 Chennai, 21–24 February 2022, contribution by IOCINDIO**
- **IOCINDIO Transformation process and Open-Ended Intersessional Working Group (3 sessions held online), Item 3.5.2**

Outline



1. UN, UNESCO, Partners
2. IOC in more detail, by functions and regions
3. Decade
4. Needs and Perspectives

Ocean Decade, Item 4.1

Excellent progress, 3 considerations:

1. Bottom-up proposed and subsequently endorsed Decade Actions should eventually lead to sustainable ocean management routed in planning and science. This calls for a structured process for setting priorities and targets.
2. The Ocean Decade and IOC should go hand in hand, reinforcing each other. The Decade should help IOC to grow and start delivering along its value chain. Without investment in IOC, Decade will suffer.
3. There is a need for an *overarching* Decade programme enabling science-based ocean planning and management, as advocated by the High-Level Panel for a Sustainable Ocean Economy (see point 1).

The **Ocean Action 2030** Coalition, with IOC, intends to seed **SOP**



Outline



1. **UN, UNESCO, Partners**
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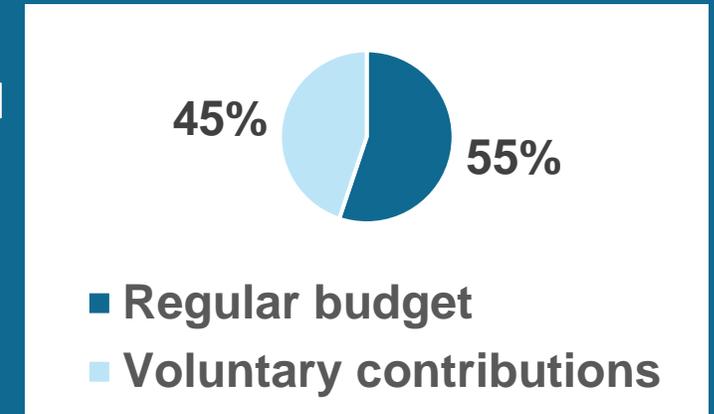
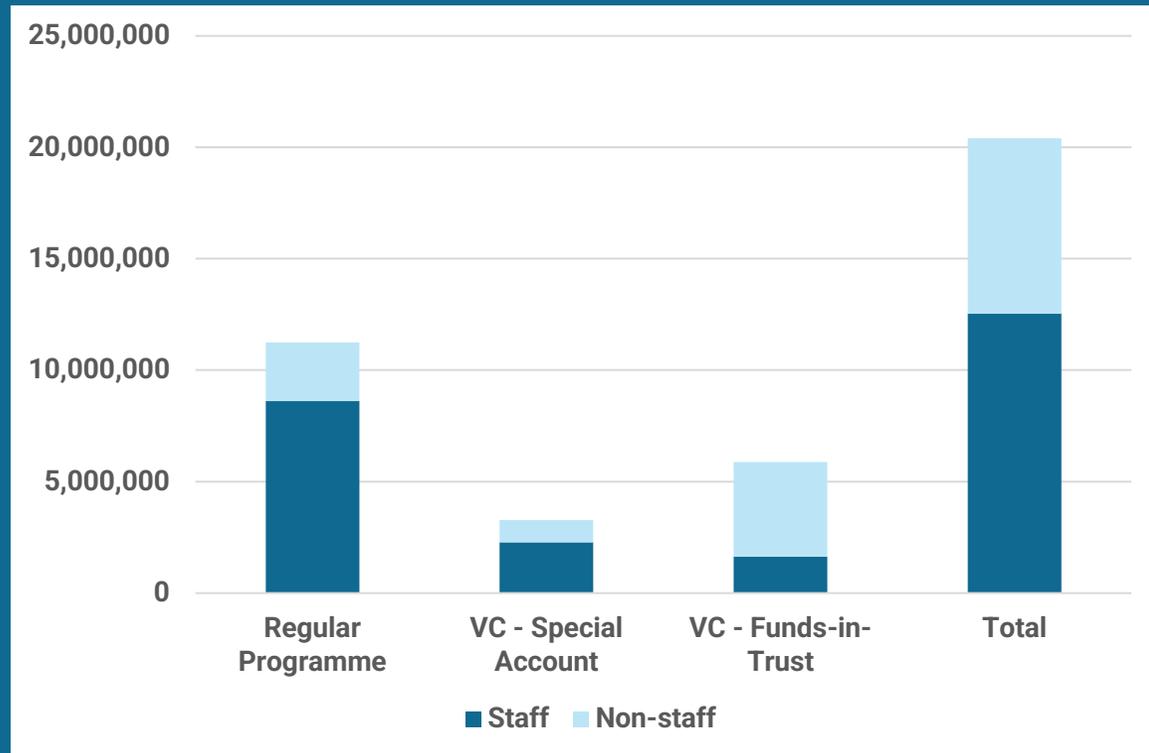
Budget / Resources

Overall implementation rate for Regular budget 2020-2021 = 100%

Total Expenditure under Integrated Budgetary Framework \$20,395,476.

Overall resource mobilization rate 92%, with variances across functions

Lower expenditure on XB – pandemic, project-based and tightly earmarked



Integrated Budgetary Framework for 2022-2023 adopted by UNESCO GC-41 and reviewed by IOC-31

Ambitious resource mobilization target – looking forward to Member States support

Summary



- Active and successful implementation of the Programme
- Large volume of work; many high-level and high-impact events
- IOC is the smallest but one of most successful parts/sectors of UNESCO
- IOC achieved leadership position on many arenas, including in UN
- IOC Resources do not correspond to the importance, scope and scale of activities. IOC needs to grow
- Respect and big thanks to
Chair and Officers for leadership, guidance and commitment;
Secretariat Team for hardest work, dedication and professionalism,
Member States for support and being notre raison d'être

