IOC-31
Items 3.2, 4.1, 4.2

3.2 Report of Executive Secretary
4.1 IOC Medium-Term Strategy
4.2 IOC Program and Budget

Dr Vladimir Ryabinin, Executive Secretary, and IOC team
15 June 2021
IOC-30 (July 2019)
Outline

1. IOC in UNESCO, UN, world
2. IOC developments
3. Decade
4. Ocean management perspectives
5. IOC MTS 2022-2029
6. IOC Program and Budget
7. Summary/conclusions
Outline

1. IOC - in UNESCO, UN, world

2. IOC developments (largest part of report)

3. Decade

4. Ocean management perspectives

5. IOC MTS 2022-2029

6. IOC Program and Budget

(large scale issues, please only refer to IOC/A-31/3.2.Doc(1), Add, Doc(2), Doc (3), 4.1 Doc, 4.2 (Doc) and many INF documents)
IOC-30 (July 2019) – IOC-31 (May 2021): Key IOC Influencers

Decade
High-Level Panel for a Sustainable Ocean Economy

Covid-19
Remedial actions and course correction

UNESCO planning, budgeting, reporting, preparing for GC-41
UNESCO

• General Conference - 41 – November 2021
• Medium Term Strategy (C4) – 2022-2029
• Strategic transformation including field network optimization
• Budget (C5) discussions, same envelope expected, for UNESCO & IOC
• Global Priorities of Africa and Gender Equality remaining, focus on SIDS strengthening

IOC in UNESCO

• Growing interest by UNESCO Member States, especially in the Decade
• Cooperation with UNESCO Sectors: SC (climate, hydrology, biodiversity, SIDS); CLT (UCH), SHS (Ethics, AI), ED (OL)
• New SIDS Unit in Science Sector + post in Kingston
• Strategic Positioning – IOS review by OpenCities
• Corporate approach to be followed, e.g. in communication, logos
IOC in United Nations

- 2030 Agenda and UN Decade of Action for Sustainable Development
- UN Decade of Ecosystem Restauration (UNEP/FAO)
- UN – Oceans
- UN Conference of the Ocean – now 2022
- UN Agencies: CBD, DOALOS, FAO, GEF, IAEA, IMO (WMU), ISA, UNDP, UNEP, UNU, WHO, WMO …

Expanding circle of partners

- IGOs: EC (DGs), ICES, PICES, IUCN, IHO, CPPS, SPC, IPCC, OECD…
- International Organizations: SCOR, ICSU->ISC, …
- NGOs: GOF, Suez, The Economist, UN Global Compact, WOC, RevOcean, several foundations, …
- Associations, Institutes, Projects: POGO, EMB, VLIZ, JPI, Communities for Ocean Action, Friends of Ocean Action, OKAN of Future Earth, …
1. IOC in UNESCO, UN, world

2. IOC developments (by far largest part of report)

3. Decade

4. Ocean management perspectives

5. IOC MTS 2022-2029

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Existing and Emerging Components of IOC Work

Science for Integrated Ocean Management

These factors will keep shaping the future of IOC work
IOC work on Functions – highlights only

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

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

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

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

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

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

E: Sustainable management and governance

C: Early warning and Services

D: Assessment / information for policy

A: Ocean research

B: Observing system / data management

F: Capacity development
IOC work in the regions
(IOCINDIO transformation process)
**Function A: Research (1)**

**HL Review of marine proposed geoengineering techniques (to remove CO₂ from the atmosphere, GESAMP WG 41)**

**Integrated Ocean Carbon Research Consortium:**
(Fate of Ocean Carbon Sink)

**Blue Carbon**

2020: IOC - part of the Coordinator Team of the International Partnership of Blue Carbon together with the Australian Government.

Shared coordination of the Blue Carbon Initiative and the International Partnership for Blue Carbon.
Function A: Research (2) - stressors

Guidelines for monitoring and assessment of plastic litter (GESAMP WG 40)

Global Harmful Algal Blooms Status Report
*(the first global statistical analysis of HABS)*

The Harmful Algal Information System – HAIS, also as Function C – services/warnings

GOOD

**GO2NE**
Global Ocean Oxygen NEtwork
Declining oxygen in the global ocean and coastal waters

**GOA-ON**
Global Ocean Acidification Observing Network
Ocean Acidification Research for Sustainability (OARS)
Function A: Research - MoU between Sponsors

Implementation Plan:
1. Foster and deliver the **scientific advances** and future technologies WRT:
   - multi-scale dynamics of Earth’s climate system
   - climate risks/opportunities

2. Develop new institutional and scientific approaches WRT:
   - climate information for decision support and adaptation
   - mitigation strategies
IOC - Custodian Agency for SDG Targets 14.3.1 and 14.a.1

14.3.1: “Average pH measured at agreed suite of representative sampling stations”

SDG 14.3.1 Indicator Methodology upgraded to Tier II
IOC Manual and Guidelines and online data submission portal

14.a.1: “Proportion of total research budget allocated to research in the field of marine technology” (1.7%)

SDG 14.a.1 Indicator Methodology upgraded to Tier II

Global Ocean Science Report (GOSR2020)
Launch December 2020
Portal, seminal report, initial condition for Decade

Assessment of on ocean research funding planned
Function B: Observing System (1)

Briefing Note: Covid-19’s impact on the ocean observing system and our ability to forecast weather and predict climate change
Function B: Observing System (2)

Stations reporting:
- December 2019: 85% stations (250/294)
- May 2020: 84% stations (247/294)

V. 5: Manual on sea-level measurements/interpretation
V. 1 of in-situ sea-level observations QC

Review with Sponsors
Function B: Data Management (1)

On the rise. Several key activities started in 2020.

- Development of **ODIS** (Ocean Data and Information System, e-environment for discovery of and access to data, information, products or services)
- **World Ocean Database (WOD) Cloud** upgrade for submission and extraction of data to WOD (cooperation with RevOcean/ODF/C4IRO)

Funded by Government of Flanders, Kingdom of Belgium:

- **IOC Ocean InfoHub Project** 2020-2023, interoperable access to marine and coastal data and information (focus on LAC, Africa, P-SIDS)
- **CD: OceanTeacher Global Academy 2** project (to further improve the flagship IOC-OTGA initiative (focus on all regions, and facilitating training with other IOC programmes)
- **Pacific Islands Marine bioinvasions Alert Network 2020-2023**

Data Community Building for the Decade.
A Decade data conference planned for February 2022.
Function B: Data Management (2)

- 20th Anniversary in 2020
- Biogeographic -> Biodiversity
- 2020: Record of new records: 6 M!
- ±65M distribution records/68M measurements

- 5-Y Strategy released
- 180,000 downloads
Function C: Warning Services (1) - Tsunami

- ICG sessions by ICG/NEAMTWS 2019 and ICG/CARIBE EWS 2021, + TOWS-WG 13 & 14
- CARIBE WAVE 20 & 21, IOWave20, NEAMWave21 and PACWAVE20
- Central American Tsunami Advisory Center - in trial mode from August 2019
- South China Sea Tsunami Advisory Center - operational since November 2019
- IPMA (Portugal) accredited as Tsunami Service Provider (TSP) in NEAMTWS region
- World Tsunami Awareness Day (WTAD) – 5th November 2020: a 30-day campaign with UNDRR
- Major upgrade under Decade foreseen
Function C: Warning Services (2) - Tsunami

COVID19
Short-term and long-term assessments

School as COVID19 Isolation Centre, Barbados
IOC @ UNFCCC CoP-25
(Madrid/Santiago, December 2019):
• Ocean Day
• UN-Oceans side event
• SDG 14 Community of Ocean Actions

UNFCCC Ocean – Climate Dialogue under SBSTA:
• Written contribution
• IOC Executive Secretary - a plenary keynote

Climate Working Group, 2020

CoP-26!
Glasgow, November 2021
Function D: Assessments/Information for Policy (2)

BBNJ

• Revised draft of ILBI (Nov 2019) refers to potential for IOC to manage the Clearing House Mechanism for science Capacity Development

• 4th meeting of IG Conference suspended, likely to 2022

• Involvement in development of the post-2020 global biodiversity framework (GBF):
  • Input to definition of GBF targets and indicators
  • Coordination with OBIS and GOOS
  • Exploring opportunities for synergies between GBF and Ocean Decade
    o Monitoring and evaluation framework
    o Joint analysis of ocean science priorities
Function D: Assessments/Information for Policy (3)

- IOC contributed technical data and information to the 2nd WOA Edition, 2 workshops (IOCARIBE and WESTPAC)
- IOC recommends that UN agencies have ability to review the draft report of the 3rd Cycle
- Exploring options to strengthen links between the 3rd Cycle and the Ocean Decade
Function D: Assessments/Information for Policy (4)

GEBCO

Congratulations to IHO on 100-year jubilee!

Global Mapping Progress:
- 1903 –> 2014 – 5%
- 2019 –> 2020 – 19%
- 2021 –> 20.5%

Need new ideas!

- Hosting of GEBCO Symposium/ Guiding Committee – Focus on Ocean Decade (January 2021)
- Proposal development for a new GEBCO Sub-Committee on Education and Training
- Seabed 2030 guidance through IHO, Nippon Foundation, GEBCO GC
- Endorsement of Seabed 2030 as Decade Programme
- IOC GEBCO User Requirement Working Group established (Chair – IOC Officer – F. Nogueira)
State of the Ocean Report (StOR)

- In April 2021, views of Member States requested through IOC Circular Letter No. 2843. 25 Member States from all IOC electoral groups contributed.
- In May 2021, Ocean Sciences Sections organized an online informal expert consultation on StOR. 15 independent (top) experts provided their advice/input on: periodicity, indicators, scope/volume, focus, relevance, value
- It is proposed that the IOC Secretariat undertakes a pilot State of the Ocean Report, for presentation to the IOC Executive Council at its 55th session in 2022.
- It will build on relevant IOC programmes and activities, benefit from other relevant processes, and be guided by a small group of independent experts, and will be presented for prior informal review by Member States.

“Transparent and accessible” ocean – precondition for being safe, resilient, clean, healthy, productive, and even engaging and inspiring

You love only what you know and understand!
Function D: Sustainable Management/Governance: MSP(1)

Joint Roadmap on accelerating MSP implementation globally (2017-2022)

Guiding MSP Processes

2006: Measuring integrated coastal and ocean management

2009: MSP step-by-step approach

2014: Evaluating MSP plans

2018: LME:LEARN MSP toolkit

2021: International MSP Guidance (under development)

Decision support tools

Policy briefs and flyers on MSP related topics:

Recommendations to promote knowledge exchange on MSP:

Technical reports on MSP, ICAM and Blue Economy:

Different languages https://ioc.unesco.org/ https://www.mspglobal2030.org/
Keeping track of MSP Status worldwide today

~76 countries have MSP initiatives

~100 plans in various stages of development and implementation

~15% of the world's maritime territories covered by MSP

Objective: cover 30% of the world's maritime territories by 2030 through MSP

Accessing technical resources

- Contact IOC Secretariat (mspglobal@unesco.org)
- Contact your IOC National focal points/IOCRegional Bodies
- Take part in IOC activities on MSP and access resources at www.mspglobal2030.org

Building Capacities

Conferences, forums, trainings, seminars: over 5,000 stakeholders involved in the last 3 years!
Function D: Sustainable Management/Governance: MSP(3)

Pilot Projects

**Western Mediterranean**
- Direct beneficiary countries: Algeria, France, Italy, Malta, Morocco, Spain, Tunisie
- Technical reports on current and future conditions (EN/FR):
- Regional recommendations on MSP and Blue Economy (June 2021)

**Southeast Pacific**
- Direct beneficiary countries: Colombia, Ecuador, Panama, Peru
- Binational mapping exercise in the Gulf of Guayaquil (Ecuador/Peru) as an example for the region
- Technical reports on current and future conditions (EN/ES):
- Regional recommendations on MSP and Blue Economy (June 2021)

**Storytelling tool**
- Multilingual storytelling tool to present the data and information collected in the pilot project areas in a simplified and interactive way:
Function D: Sustainable Management/Governance: LMEs
Function E: Capacity Development (1)

- IOC Capacity Development Strategy (2015-2021) – extend to 2023 and then revise
- September 2020: Launch of the second IOC Capacity Development Needs Assessment Survey
- October 2020: Second Session of the IOC Group of Experts on Capacity Development
- Very good work of UNESCO C2C Centres in I.R. Iran, India, emerging C2C in Philippines
- Chairs in Marine Sciences
- Very good work of WESTPAC RTRCs, network expansion
- OTGA - 2
Function E: Capacity Development (2)

September 2020: Second IOC Capacity Development Needs Assessment Survey

9100 emails sent to 118 developing country Member States: (11% response rate – below average (29%) for online surveys.

From 25 IOC Focal Points 10 CD FPs submitted official responses

TOP CD NEEDS

1. Funding and investment
2. Access to communities of practice
3. Increased awareness, ocean literacy and public outreach
4. Ocean observation equipment
5. Access to remotely sensed satellite data
Function E: Capacity Development (3)

- CHM/TMT Prototype for LAC
Function E: Ocean Literacy

"Far and away, the greatest threat to the ocean, and thus to ourselves, is ignorance."

Sylvia Earle, President of Mission Blue

Intergovernmental Oceanographic Commission

Ocean Literacy Portal

Enter the Portal

oceanliteracy.unesco.org

Ocean Literacy for All
A toolkit

UNESCO
United Nations Educational, Scientific and Cultural Organization

International Conference
Communication/Outreach Development

*IOC is highly visible in the world now*

- Continued to develop Communications based on Advisory Report (2016)
- Launched new IOC website ([ioc.unesco.org](http://ioc.unesco.org), but more work needed)
- Expanded IOC Newsletter subscriber base (~4’000 subscribers), many other Newsletters
- Campaign on Decade launch ([oceandecade.org](http://oceandecade.org))
- IOC – provider of the UN World Oceans Day Portal: ([unworldoceansday.org](http://unworldoceansday.org))
- Expanded social media presence:
  - LinkedIn (+760%), Instagram (+450%), Facebook (+190%), Twitter (+190%)
- Campaign Generation Ocean (“GenO”) approaching
IOC work in the regions
(Think globally – act locally)
All Regional Bodies had a workshop or several on the Decade

IOCAFRICA – VI, 13-15 April
WESTPAC – XIII, 27-29 April
IOCARIBE – XVI, 3-6 May
IOCINDIO – VIII, 17-19 May
IOC Sub-Commission (IOCAFRICA)

- **Research and training cruises:** SA Agulhas II in 2017 & 2018
- Climate and Biological Productivity (CCLME/AECID, ASCLME, with WIOMSA)
- **African node** for Ocean Data portal, African Coastal and Marine Atlas
- **Training:** Research Data Management, Hydrodynamic & Environmental Modeling, Marine Biodiversity, Remote Sensing & Marine GIS
- **MSP workshops:** Seychelles, Cape Verde, Senegal, Kenya & Mauritius
- Potential initiative on Equatorial Africa (6/7 countries), after the Libreville workshop
- **Open Days, Information Sessions,** and World and Africa Oceans Day activities
- **African week event in May 2021,** thank you Gabon and Africa Group!
- **New, 2021, NORAD funding, focus on Africa:**
  1) CD for expanding ocean acidification research and observation;
  2) CD for detection and early warning systems for harmful algae; and
  3) OceanInfoHub Africa: Database of Training Opportunities

**IOCAFRICA-VI (13-15 April 2021, online):**
- Pan-African Conference "Ocean Science for Sustainable Development", 2021, Egypt
- Establishment of a Regional Planning Group for the Ocean Decade
- Extension of the mandate of the IOCAFRICA Strategic Planning Group
- IOCAFRICA work programme for 2021-2023
- Strengthening Collaboration with the African Union Commission
IOC Sub-Commission WESTPAC

WESTPAC - XIII (24-26 April 2021, online, host Bangladesh)
Decade Kick-off and Regional Conference, Thailand, August 2021
IOC Sub-Commission (IOCARIBE)

An IOCARIBE-GOOS pilot project on Improvement of Hurricane Observing and Forecasting Capacity
Development of an operational region-wide information and forecasting system for Sargassum and oil spills
Development of a guide on best management practices for Sargassum events in the coastal environment
HAB-ANCA: IOC Ciguatera Strategy
CMA2: Hosting at IOCARIBE Office - Caribbean Marine Atlas + CLME - Caribbean & North Brazil Shelf LMEs - 20Ys
IBCCA: International Bathymetric Chart - Caribbean and the Gulf of Mexico (GEBCO) CARIBE-EWS
Tsunami & Other Coastal Hazards Warning System - 25Ys
OTGA and CHM hub (at INVEMAR)
CIFDP-C (WMO, JCOMM)
WOA-2 Workshop: IOCARIBE/Brazil;

IOCARIBE - XVI (3-6 May April 2021, online, host Panama)
Decade Kick-off Conference in planning
IOC Regional Committee IOCINDIO

- Workshop on Coastal Vulnerability Assessment and Monitoring for Sea-Level Rise and Storm Surges in the Indian Ocean Region, May 2019, Hyderabad, India
- Regional Decade Workshop for the Northern/Central Indian Ocean countries as well as ROPME sea area, 8-10 January 2020, Chennai, India
- Indian Ocean Blue Economy Summit towards United Nations Decade of Ocean Science for Sustainability, 6 May 2021, online

IOCINDIO – VIII, 17-19 May 2021, online, host I. R. of Iran

Anticipated programme of work envisions activities related to coastal vulnerability, networking, ocean observations, coastal zone management, circulations and fisheries, oil spill monitoring and response, human induced changes in Northern Indian Ocean, policy advice toward ocean management, creation of ocean economy opportunities

Transformation of IOCINDIO into an IOC Sub-Commission to be reviewed by this Assembly
Outline

1. IOC - in UNESCO, UN, world
2. IOC developments (largest part of report)
3. Decade
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5. IOC MTS 2022-2029
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The United Nations
Decade of Ocean Science
for Sustainable Development
(2021-2030)

The science we need for the ocean we want
Transformative ocean science solutions for sustainable development, connecting people and our ocean
Decade and IOC

• Massive additional workload of the Secretariat with same RP budget
• Decade Coordination Unit – no Regular Staff, XB, sustained by MPR Section
• XB funding: decade successfully competes with core programmes of IOC

• A mechanism for engaging with stakeholders and end-users to develop policy relevant knowledge and solutions for 2030 Agenda
• Furthering the impact and scope of existing programmes, connecting them
• Leveraging resources for IOC programmes and ocean science
• Enhance visibility
• Institutional umbrella for Decade actions where IOC is a leader
• Strengthen national coordination on ocean science, e.g. IOC National Focal Points and networks
• Once-a-life-time opportunity to make the ocean sustainably managed!

More on Thursday...
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Towards Ocean Management

- IOC - in Advisory Network, Peter Haugan – Expert Group Co-Chair
- 14 Countries at the level of Presidents or Prime-Ministers
- Blue Papers, reports, coalitions for action

Five cross-cutting enablers for a sustainable ocean economy:

A) Data reform
B) Goal-oriented ocean planning
C) Innovative finance and de-risking
D) Stopping land-based pollution
E) Upgrading ocean accounting

Five key sectors to be transformed towards a sustainable ocean economy:

- Sustainable ocean food production
- Clean ocean energy
- Low carbon transportation and ports
- Ocean restoration and protection
- Tourism

- $x6$
- $x40$
- 20% -> $1.5$
- 15T$
WE COMMIT to sustainably manage 100% of the ocean area under national jurisdiction, by 2025.

- **IOC Report:** Synergies between the Ocean Panel and the Ocean Decade
  Set out a process to develop joint initiatives so that ocean knowledge can underpin sustainable and equitable development
Key Ocean Management Domains

- Coastal zone management and adaptation
- Marine Spatial Planning/Sustainable ocean economy
- BBNJ, Marine Protected Areas, LMEs
- Management of fisheries and aquaculture
- Adaptation to and mitigation of climate change
- Development of national R&D strategies & ocean policies
- Real-time oceanographic, weather/climate services
- Regional and national capacity development
- Early warning systems
A major contribution of the Ocean to sustainability is possible in integrated ocean management based on science.

**Mainstream**
- Carbon policies
- Adaptation measures
- Biodiversity conservation
- Ecosystem restoration

**Areas of Benefit:**
- Climate
- Biodiversity
- Ocean Economy
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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.

IOC Vision

To bring together governments and science community in achieving the ‘Ocean We Need for the Future We Want’
Intersessional Financial Advisory Group (IFAG) made valuable comments

Sessional Financial Committee to finalize the MTS for Resolution
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40 C/5 Budget implementation as at 31.12.2020

- Reference document IOC/A-31/3.2.Doc(2)
- Implementation according to adopted workplans – total RP expenditure $9.6M

![Pie chart and bar chart showing budget implementation]
40 C/5 Resource Mobilization 2020 Main Donors
Draft Programme and Budget 2022-2025 Main Focus

IOC CORE MANDATE: SIX FUNCTIONS
(incl. CAPACITY DEVELOPMENT)

COORDINATING UN DECADE OF OCEAN SCIENCE

LEAVING NO ONE BEHIND – PRIORITY AFRICA & SIDS
Draft Programme and Budget 2022-2025 First biennium 2022-2023

5 HLOs & 6 Functions of the MTS

Investment in staff = ambitious resource mobilisation around the UN Ocean Decade as unifying framework

Increased priority to AFR, GE & SIDS
Budgetary situation

• Implementation in compliance with IOC Governing Bodies’ decisions

• Dual challenge for Secretariat: need to raise XB funds to maintain core operational programmes and resources to lead and coordinate the Decade preparation

• Very little non-earmarked support

• A new approach to fund-raising and outreach needed, based on highlighting the societal benefits of IOC’s work and demonstrating the return on investment in ocean science and observation

• Key role of outreach and communication
Internal Oversight Service: Strategic Evaluation of IOC

“How confident are you in IOC's capability to ensure the Decade makes a difference?”

- Finalisation of the report during June 2021
- Management response and quality assurance by mid-July 2021
- Final draft of the report by end-July
- Circulation and presentation of the final report to governing bodies of IOC and UNESCO later in 2021-2022
Vision of the “Optimal IOC” at the start of the third age (60 years)

Statutes Article 11.3: possibility for IOC to act as a joint specialized mechanism in the UN system

Statutes Article 10.4: IOC can establish additional financial arrangements for implementation of its programme of work
Summary

• Active and generally successful implementation of the Programme
• Large volume of work undertaken; many high-level and high-impact events/activities organized
• Programmatic work done according to decisions of Assembly
• Activities are becoming more integrated: (Research – Observations – Data – Services – Assessments – Policy)
• IOC enjoys leadership position on many arenas, including in UN
• IOC is the smallest but one of most successful parts/sectors of UNESCO
• Major work on RP implementation, Decade, and raising XB resources
• True leadership/commitment by Chair and Officers, hardest work by Staff