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Oostende, 17 March 2022

English only

**INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION**

(of UNESCO)

**2022 Meeting of the IODE Management Group**

IOC Project Office for IODE, Oostende, Belgium (and online)

21-22 March 2022

**ANNOTATED AGENDA/ DRAFT REPORT**

**Table of Contents**

[1. OPENING OF THE MEETING/ ADOPTION OF AGENDA AND TIMETABLE 4](#_Toc98403462)

[2. REVIEW OF THE IODE-XXVI ACTION SHEET 4](#_Toc98403463)

[3. MATTERS ARISEN SINCE IODE-XXVI THAT REQUIRE ACTION BY THE MANAGEMENT GROUP 5](#_Toc98403464)

[3.1. Outcome of IOC-XXXI 5](#_Toc98403465)

[3.2. Renewal of the IOC-VLIZ MoU: changes 8](#_Toc98403466)

[4. REPORTS OF IODE PROJECTS 9](#_Toc98403467)

[4.1. AquaDocs 10](#_Toc98403468)

[4.2. GODAR/WOD 10](#_Toc98403469)

[4.3. GOSUD 10](#_Toc98403470)

[4.4. GTSPP 11](#_Toc98403471)

[4.5. ICAN 11](#_Toc98403472)

[4.6. IQuOD 11](#_Toc98403473)

[4.7. ODP 11](#_Toc98403474)

[4.8. OBIS (including training video project and e-DNA project) 12](#_Toc98403475)

[4.9. OBPS (IODE/GOOS) 12](#_Toc98403476)

[4.10. Ocean InfoHub (including OIH extension project) 12](#_Toc98403477)

[4.11. ODIS (including ODISCat) 12](#_Toc98403478)

[4.12. OceanExpert 13](#_Toc98403479)

[4.13. OceanTeacher Global Academy (including Alumni project) 13](#_Toc98403480)

[4.14. PacMAN 13](#_Toc98403481)

[4.15. IODE QMF 13](#_Toc98403482)

[4.16. Regional activities 13](#_Toc98403483)

[4.16.1 ODINBlackSea 15](#_Toc98403484)

[4.16.2 ODINECET 15](#_Toc98403485)

[4.16.3 ODINAFRICA 15](#_Toc98403486)

[4.16.4 ODINCARSA 16](#_Toc98403487)

[4.16.5 ODINWESTPAC 16](#_Toc98403488)

[4.16.6 ODINCINDIO 16](#_Toc98403489)

[4.16.7 Pacific SIDS 16](#_Toc98403490)

[5. STRATEGIC ISSUES 16](#_Toc98403491)

[5.1. Ocean Data and Information System 16](#_Toc98403492)

[5.2. Outcome of the “International Ocean Data Conference 2022 - The Data We Need for the Ocean We Want” 17](#_Toc98403493)

[5.3. Role of IODE in the UN Decade 19](#_Toc98403494)

[5.3.1 IWG-SODIS 19](#_Toc98403495)

[5.3.2 Submitted IODE decade actions 20](#_Toc98403496)

[5.3.3 Submission of IODE DCO proposal 21](#_Toc98403497)

[5.4. Revision of the IOC Strategic plan for Oceanographic Data and Information Management (status of the IWG – Decision IODE-XXVI.6.3) 22](#_Toc98403498)

[5.5. Revision of the IOC Oceanographic Data Exchange Policy 22](#_Toc98403499)

[5.6. New NODCs, Accredited NODCs, ADUs, AIUs since IODE-XXVI 25](#_Toc98403500)

[6. REVISED WORK PLAN AND BUDGET 2022-2023 26](#_Toc98403501)

[6.1. Overview of revenue 2022-2023 26](#_Toc98403502)

[6.2. Revision of work plan and budget 2022 (and preliminary version for 2023, pre-IODE-XXVII) 27](#_Toc98403503)

[6.3. New initiatives 27](#_Toc98403504)

[6.3.1 MARCO-BOLO (new EU proposal) 27](#_Toc98403505)

[7. PLANNING FOR IODE-XXVII 28](#_Toc98403506)

[7.1. Candidate hosts, dates 28](#_Toc98403507)

[7.2. Required administrative and practical arrangements for IODE-XXVII 29](#_Toc98403508)

[7.3. Election of new IODE Co-Chairs at IODE-XXVII 29](#_Toc98403509)

[8. ANY OTHER BUSINESS 29](#_Toc98403510)

[9. ADOPTION OF THE REPORT 29](#_Toc98403511)

[10. CLOSING OF THE MEETING 29](#_Toc98403512)

# OPENING OF THE MEETING/ ADOPTION OF AGENDA AND TIMETABLE

The meeting was opened on 21 March 2022 at 14h00 CET by Dr Sergey Belov, Co-Chair. Dr Belov invited the Management Group to review the Provisional Agenda for the meeting (Document IOC/IODE-MG-2022/1) available online, provide amendments and its adoption.

Dr Belov noted that the meetings of the IODE Management Group are attended by project leaders and SG chairs (non-executive members) and invited the meeting to be productive and fruitful.

Dr Belov invited the Management Group to identify any additional topics that need to be added to the agenda and would be discussed under agenda item 8.

**The Management Group adopted** the Agenda for the meeting. It is attached to this report as [Annex I](#annex1). The list of participants is attached as [Annex II](#annex2).

# REVIEW OF THE IODE-XXVI ACTION SHEET

This agenda item was introduced by Mr Taco De Bruin. He informed the meeting that the Action Sheet has been made available online at <https://www.iode.org/index.php?option=com_content&view=article&id=652&Itemid=100421> and is also available as [Annex III](#annex3) to this report.

Action items for which no progress was reported: (paragraph numbers in IODE-XXVI report).

25, 26, 27, 41, 56, 57, 58, 59, 60, 66, 73, 80, 99, 100, 149, 150, 186, 187, 195, 236,

Dec. 6.1.2, 6.2, 6.1.1,

The Management Group was invited to review the above action items and recommend further action as needed.

Regarding 99: “:“***The Committee recommended*** *to allocate funds in the 2021 budget for the redesign of the IODE web site, taking into account the recommendations of the review”*

Mr Reed invited the Management Group to take this into consideration under agenda item 6.

A list of all meetings (steering groups, workshops, training courses, technical meetings) implemented between May 2021 and 1 March 2022 is available as [Annex V](#annex5).

# MATTERS ARISEN SINCE IODE-XXVI THAT REQUIRE ACTION BY THE MANAGEMENT GROUP

## Outcome of IOC-XXXI

Dr Sergey Belov, IODE Co-Chair referred to IOC Decision A-31/3.4.2. (International Oceanographic Data and Information Exchange):

**International Oceanographic Data and Information Exchange**

The Assembly,

**I – 26th Session of IODE, 20–23 April 2021**

Having examined the Executive Summary Report of the 26th session of the IOC Committee on International Oceanographic Data and Information Exchange (IODE-XXVI, 20–23 April 2021) ([IOC/IODE-XXVI/3s](https://unesdoc.unesco.org/ark:/48223/pf0000368027.locale=en)),

Endorses the report of the 26th session of the IOC Committee on International Oceanographic Data and Information Exchange including the recommendations and workplan for 2021–2022 contained therein;

Agrees that the regular budget for these activities will be identified as part of the Resolution on Governance, Programming and Budgeting Matters of the Commission (IOC Resolution A-31/2);

**II – Establishment of the IOC Ocean Data   
and Information System Project (ODIS)**

Having examined the proposal contained in document IOC/A-31/3.4.2.Doc and document IOC/IODE-XXVI/6.1.1,

Recalling Decision IODE-XXIV.4 on the Ocean Data and Information System,

Recognizing that a significant fraction of the work on ocean data and information system takes place outside IOC and that there is a need to collaborate with those communities/systems in order to achieve improved accessibility, unrestricted use and interoperability of data and information,

Recognizing also the key role that distributed and interoperable data, information, and digitized knowledge resources will have during the UN Decade of Ocean Science for Sustainable Development,

Recalling further that the IOC decided that IODE will work with existing stakeholders, linked and not linked to the IOC, to improve the accessibility and interoperability of existing data and information and to contribute to the development of a global ocean data and information system, to be referred to as the IOC Ocean Data and Information System, leveraging established solutions where possible, including existing IODE systems and others,

Noting with appreciation that IODE has:

1. established the IOC Ocean Data and Information System Catalogue of Sources Project (ODISCat) in 2019,
2. started the implementation of the Ocean InfoHub project as a three-year project (2020–2023) funded by the Government of Flanders (Kingdom of Belgium),

Decides to establish the “IOC Ocean Data and Information System (ODIS) project” with the terms of reference as attached in Annex 1, and terms of reference of the Steering Group as attached in Annex 2 to this decision;

Invites all IOC programmes, IOC regional subsidiary bodies and partner organizations to collaborate by mobilizing their stakeholder communities to enter information into the ODIS-Cat system, and to participate in the OIH and ODIS Projects.

Annex 1 to Dec. A-31/3.4.2

**Terms of Reference of the IOC Ocean Data   
and Information System (ODIS) project**

The objectives of this project are to:

1. develop the IOC Ocean Data and Information System (ODIS) as an e-environment where users can discover data, data products, data services, information, information products and services provided by Member States, projects and other partners associated with IOC;
2. work with partners, linked and not linked to the IOC, to improve the accessibility and interoperability of existing data and information. It will contribute to the development of a global ocean data and information system, to be referred to as the IOC Ocean Data and Information System, leveraging established solutions where possible;
3. start its development using existing “ecosystem components” such as, inter alia, the ODIS Catalogue of Sources (ODISCat), the Ocean InfoHub project, and all IODE data and information products and services, and to add components within and outside the IODE programme as these become available to and interoperable with the ODIS ecosystem.

Annex 2 to Dec. A-31/3.4.2

**Terms of Reference of the IODE Steering Group   
for the IOC Ocean Data and Information System (ODIS)**

Objectives:

1. Propose the vision, strategy, workplan and timetable for the ODIS Project;
2. Advise on technical aspects;
3. Establish a stakeholder forum to ensure active participation of representatives from ODIS nodes and other contributors;
4. Report to the IOC and to other partners on the progress of the ODIS Project;
5. Provide guidance to the project manager and project technical manager;
6. Identify funding sources to further develop the ODIS.

Membership: The Steering Group will be composed, inter alia, of:

* Representatives from IOC Programmes;
* Project Manager;
* Project Technical Manager;
* Invited Experts;
* Representatives of major stakeholder (user) groups including regional/international organizations;
* Representative of the IODE Secretariat;
* Representative of the Decade Coordination Unit.

**III – Revision of the IOC Oceanographic Data Exchange Policy (2003, 2019)**

Having examined the proposed arrangements contained in document IOC/A-31/3.4.2.Doc(2),

Recalling IOC [Resolution XXII-6](https://unesdoc.unesco.org/ark:/48223/pf0000372654.locale=en) that established the IOC Oceanographic Data Exchange Policy in 2003 and [Decision IOC-XXX/7.2.1(II)](https://unesdoc.unesco.org/ark:/48223/pf0000372267.page=114) that amended Clause 5 in 2019,

Noting that partner and sister organizations are changing their data policies, which can serve as a model for updating the IOC data policy,

Noting further that principles of data sharing and licensing are becoming globally recognized and adopted, e.g., FAIR Principles and Creative Commons licences,

Decides to establish the IOC inter-sessional working group on the Revision of the IOC Oceanographic Data Exchange Policy (2003, 2019) with terms of reference as included in Annex 3 to this decision;

Annex 3 to Dec. A-31/3.4.2

**Terms of Reference of the IOC Inter-sessional Working Group on the Revision   
of the IOC Oceanographic Data Exchange Policy (IWG-DATAPOLICY)**

Objectives: This working group will:

1. create an inventory of existing international, national and organizational data policies,
2. review and compare existing international, national and organizational data policies,
3. develop a glossary with clear definitions (e.g. open vs free and unrestricted; data vs metadata vs information, licence options),
4. investigate the expansion of scope and name of the IOC Oceanographic Data Exchange Policy,
5. gather advice from partner/sister organizations and recognized data provider/manager organizations,
6. organize a broad consultation on the proposed revised IOC Ocean Data Policy with Member States, IOC global and regional programmes,
7. submit a revised IOC Oceanographic Data Exchange Policy to the IOC Assembly at its 32nd Session in 2023.

Modalities: The IWG-DATAPOLICY aims to have at least three meetings (second half 2021, first half 2022). The group may meet online, face-to-face or mixed as appropriate. For face-to-face meetings participation will be self-funded.

Membership: The IWG-DATAPOLICY will be composed, inter alia, of:

* Chair of the working group (to be designated by the group)
* Invited experts from the global data and information communities including UN agencies
* Representatives of IOC programmes and projects
* IOC (including IODE) Secretariat

**IV – The UNESCO/IOC Project Office for IODE**

Having examined the Proposal to renew the MoU between VLIZ and the IOC regarding the IOC Project Office for IODE contained in document IOC/A-31/3.4.2.Doc(3),

Recalling:

1. IOC Resolution XXII-7 which accepted the offer of the Government of Flanders (Kingdom of Belgium) and the city of Ostend to host the IODE Project Office,
2. IOC Resolution XXII-1 which adopted the Guidelines for the Establishment of IOC Decentralized Offices, subsequently published in Document [IOC/INF-1193](https://unesdoc.unesco.org/ark:/48223/pf0000182574.locale=en),

Noting with appreciation:

1. the positive results of the review the IOC Project Office for IODE (2020 presented in document is IOC/A-31/3.4.2.Doc(3)),
2. that the IOC Project Office for IODE has been successfully implementing its objectives:

* the successful development and hosting of data/information products/services such as web sites and databases,
* the successful development and hosting of the training system OceanTeacher Global Academy,
* the continued management of an excellent international meeting and conference centre,

1. the considerable financial support provided by the Government of Flanders (Kingdom of Belgium) to the IOC in general and to the IOC Project Office for IODE in particular, and the excellent in-kind support provided by the Flanders Marine Institute (VLIZ),
2. the complementary nature of the activities carried out at the Project Office and the financial support provided by the Government of Flanders (Kingdom of Belgium) through the UNESCO/Flanders Fund-in-Trust for the support of UNESCO's activities in the field of Science (FUST),
3. the contribution by the IOC Project Office for IODE (as the IODE secretariat and Meeting & Training Facility) to the further development of Ocean Data and Information Networks in developing regions,
4. the efficient and effective management of the Project Office and the professionalism of its Staff,

Expressing its profound gratitude to the Government of Flanders (Kingdom of Belgium) and the Flanders Marine Institute (VLIZ) for the considerable support provided, both financially and by hosting the Project Office since April 2005,

Invites the Government of Flanders to continue hosting the IOC Project Office for IODE as well as its considerable financial and in-kind contributions and support;

Agrees to

1. the continuation of the IOC Project Office for IODE; and
2. the renewal of the Memorandum of Understanding between UNESCO/IOC and the Government of Flanders (Kingdom of Belgium) through the Flanders Marine Institute (VLIZ) that establishes the IOC Project Office for IODE in Ostend, Belgium.

Dr Belov referred to

* agenda item 4.11 and 5.1 for ”II – Establishment of the IOC Ocean Data and Information System Project (ODIS)”
* to agenda item 5.5 for “III – Revision of the IOC Oceanographic Data Exchange Policy (2003, 2019)”
* to agenda item 3.2 for “IV – The UNESCO/IOC Project Office for IODE”

## Renewal of the IOC-VLIZ MoU: changes

Mr Pissierssens recalled that in 2005, in response to the offer made by the Government of Flanders to host the IOC Project Office for IODE in Oostende, Belgium a Host Agreement was established between UNESCO and the Kingdom of Belgium on the establishment of a project office of the International Oceanographic Data and Information Exchange programme as well as a MoU between UNESCO and the Flanders Marine Institute which would host the Office. The most recent revision was signed between both parties in 2017 covering the period 2017-2021. This agreement expired on 31 December 2021.

In accordance with the MoU a review was carried out (by Adam Leadbetter and Loic Petit de la Villéon) ([Document IOC/IODE-XXVI/6.5 - Performance Review of the IOC Project Office for IODE 2020](https://oceanexpert.org/document/27804)) and submitted to IODE-XVI. The Committee adopted Recommendation IODE-XXVI.6.5 (THE UNESCO/IOC PROJECT OFFICE FOR IODE IN OOSTENDE, BELGIUM) through which it:

**“Invites** the Government of Flanders to continue hosting the IOC Project Office for IODE as well as its considerable financial and in-kind contributions and support,

**Recommends** that:

1. the IOC Project Office for IODE in Oostende, Belgium be continued,
2. the Memorandum of Understanding between UNESCO/IOC and the Government of Flanders (Kingdom of Belgium) through the Flanders Marine Institute (VLIZ) be renewed. “

The IOC Assembly, at its 31st Session (June 2021), through IOC Decision A-31/3.4.2. (International Oceanographic Data and Information Exchange), sub-section IV, re-iterated (i) and (ii) above.

A formal letter inviting the renewal of the MoU was received by the IOC Executive Secretary on 20 November 2021. Whereas the previous offers provided for a direct financial contribution of approx. $200,000/year (made available through the Flanders Marine Institute) for operational expenses of the Office, this contribution has been removed from the offer for 2022-2026.

Discussions and negotiations on the new MoU were held between VLIZ and IOC/IODE in January and February 2022. A more detailed offer is expected but was not available at the time of drafting of the annotated agenda for this meeting.

**The Management Group, noting** with regret that the new offer provides substantially less than what was offered between 2005 - 2021 **stated** that it is still beneficial to IODE as it will provide office space, meeting and training facilities as well as three (in-kind seconded) staff who have become essential to maintain the IODE programme. It is added that the Office is also providing the coordination and secretariat support for the various projects funded under FUST (as well as other donor supported activities in the area of IODE and IOC Capacity Development).

**The Management Group thanked** the Government of Flanders for its long-term support since 2005 and **called** on the Government of Flanders to continue its support.

# REPORTS OF IODE PROJECTS

This agenda item was introduced by Mr Greg Reed. He explained that all IODE projects must meet the specified evaluation criteria and are evaluated by the IODE-MG Executive annually, based on the reports provided by each project. The criteria for evaluation ongoing project performance are described in IOC Manuals and Guides No. 81 (Procedures for Proposing and Evaluating IODE Projects and Activities (Revised edition)). Ongoing projects that do not receive a positive evaluation (<60% of maximum score) will be notified of what actions need to be taken to improve performance and given an appropriate time frame for improvement. An overall score “satisfactory” indicates that the project’s performance is satisfactory and should continue. A “Not satisfactory” overall score indicates that the project should be closed.

The Management Group discussed the results of the evaluation of IODE projects. The Management group was requested to identify any issues related to the project and to consider their continuation or recommendation to close, taking into account resources available. It was noted that these comments and recommendations will be submitted to IODE-XXVII for its decision.

## AquaDocs

Mr Reed reported that this project obtained a “satisfactory” score and should continue.

Ms Jennifer Walton, Co-Chair SG -AquaDocs was invited to comment.

**The Management Group recommended/decided …**

## GODAR/WOD

Mr Reed reported that these projects obtained a “satisfactory” score and should continue.

Mr Tim Boyer, GODAR and WOD project leader was invited to comment.

**The Management Group** **recommended/decided**

Further discussion was referred to agenda item 6.2

## GOSUD

Mr Reed noted that no report had been received for GOSUD.

Mr Reed noted further that no replacement had been identified (no volunteers came forward) for Mr Loic Petit de la Villéon since he stepped down as Chair in 2019, followed by his retirement. In that regard IODE-XXVI had urged the SG-GOSUD to elect a new Chair by the end of 2019. At IODE-XXV the Committee had also recommended a closer relationship with the JCOMM/ OCG and the SOT. No progress was reported in this regard. Mr Reed referred to the membership of the steering group listed on <https://www.oceanexpert.org/group/350>.

Mr Reed referred to Document IOC/IODE-MG-2022/4.3 and invited Mr Tim Boyer to report further.

**The Management Group recommended/decided …**

## GTSPP

Mr Reed reported that this project obtained a “satisfactory” score and should continue.

Mr Peter Chu, Chair SG-GTSPP was invited to mcomment.

**The Management Group recommended/decided …**

## ICAN

Mr Reed reported that this project obtained a “satisfactory” score and should continue.

Ms Tanya Haddad, Co-Chair SG-ICAN was invited to comment.

**The Management Group recommended/decided …**

## IQuOD

Mr Reed reported that this project obtained a “satisfactory” score and should continue.

Mr Simon Good, Co-Chair SG-IQUOD was invited to comment.

**The Management Group** **recommended** …

## ODP

Mr Reed noted that no report had been received for ODP.

Mr Reed recalled that development of a global data system had refocused to the development of the Ocean Data and Information System (ODIS), specifically through the Ocean InfoHub project. At IODE-XXV (2019) the Committee had expressed its appreciation to the Partnership Centre for IODE Ocean Data Portal for the progress in implementation and maintaining of the IODE Ocean Data Portal project. The Committee had recommended to renew the MoU of the Partnership Centre for IODE Ocean Data Portal and requested the IOC Secretariat to inform Roshydromet about this decision. At its 26th Session the IODE Committee, recalling the recommendations from IODE-XXV, and noting the requirement to revise the Terms of Reference as well as name of the Partnership Centre adopted Decision IODE-XXVI.6.1.2. In that Decision the Committee had invited the Secretariat to establish a new partnership agreement between IOC and Roshydromet, Russian Federation. On 17 September 2021 a letter was sent by the IOC Executive Secretary to the Head of the Federal Service for Hydrometeorology and Environmental Monitoring (Roshydromet) inviting Roshydromet to start discussions on required arrangements (new MoU, funding & staff, etc.) with the IOC/IODE Secretariat at his earliest convenience. To date no reply to this letter was received.

Dr Sergey Belov was invited to comment.

**The Management Group recommended/decided …**

## OBIS (including training video project and e-DNA project)

Mr Reed reported that this project obtained a score of …

Mr Ward Appeltans, speaking on behalf of the OBIS was invited to comment.

**The Management Group recommended/decided …**

## OBPS (IODE/GOOS)

Mr Reed reported that this project obtained a “satisfactory” score and should continue.

Mr Johannes Karstensen, Co-Chair SG-OBPS, was invited to comment.

**The Management Group recommended/decided …**

## Ocean InfoHub (including OIH extension project)

Mr Reed reported that this project obtained a “satisfactory” score and should continue.

Mr Harrison Ong’anda, Chair SG-OIH, was invited to comment.

**The Management Group recommended/decided …**

## ODIS (including ODISCat)

Mr Reed reported that the ODISCat project obtained a “satisfactory” score and should continue.

It was noted that the steering group for ODIS (established formally at IOC-31) has not yet met. It was recalled that development of ODIS has so far been implemented under OIH as its underpinning architecture.

Mr Arno Lambert was invited to comment on ODISCat.

**The Management Group** **recommended** …

## OceanExpert

Mr Reed reported that this project obtained a “satisfactory” score and should continue.

Ms Sofie De Baenst, OceanExpert project manager was invited to comment.

**The Management Group recommended/decided …**

## OceanTeacher Global Academy (including Alumni project)

Mr Reed reported that this project obtained a “satisfactory” score and should continue.

Mr VS Udaya Bhaskar Tata, Chair SG-OTGA, was invited to comment.

**The Management Group recommended/decided …**

## PacMAN

Mr Reed reported that this project obtained a “satisfactory” score and should continue.

Mr Ward Appeltans, Pacman project manager, was invited to comment.

**The Management Group recommended/decided …**

## IODE QMF

Mr Reed reported that this project obtained a “satisfactory” score and should continue.

Mr Reed, QMF project manager, provided additional comments.

**The Management Group recommended/decided …**

## Regional activities

This agenda item was introduced by Mr Mika Odido. He recalled that IODE-XXVI had noted the limited and declining financial resources available from UNESCO RP to fund each ODIN. IODE-XXVI had adopted Recommendation IODE-XXVI.4.1.2 “IODE Ocean Data and Information Networks (ODINs)”:

“The IODE Committee,

**Recalling** the Ocean Data and Information Networks (ODINs) established for Africa (ODINAFRICA, 2004), Latin America and the Caribbean (ODINCARSA, 2004), Central Indian Ocean (ODINCINDIO, 2005), European Countries in Economic Transition (ODINECET, 2007), WESTPAC region (ODINWESTPAC, 2007) and Black Sea region (ODINBlackSea, 2007),

**Noting** the development of IODE projects covering one or more regions such as OceanTeacher Global Academy (all regions), Ocean Biodiversity Information System (all regions), Ocean InfoHub (Latin America and the Caribbean, Africa, Pacific SIDS), PacMAN (Pacific SIDS),

**Noting further** the limited level of activities in some of the ODINs,

**Recognizing** the importance of developing ocean data and information management capacity in IOC Member States across all regions,

**Recognizing** further the importance of addressing data and information as an important element in the value chain from observations to policymaking,

**Decides**:

1. to continue ODINs as IODE projects,
2. to link ODINs more closely to IOC regional subsidiary bodies (IOCARIBE, IOCAFRICA, IOCINDIO, WESTPAC),
3. to continue the governance of ODINs fully as IODE projects in cases where no IOC subsidiary body exists,
4. that ODINs are encouraged to collaborate with and strengthen the regional implementation of IODE projects (e.g., OBIS, OTGA, OIH),
5. to establish an inter-ODIN forum to provide closer connections between the ODINs and with other IOC global programmes and facilitate the sharing of best practices,

**Invites** IOC regional subsidiary bodies to include representatives of ODIN projects (through their Steering Group Chair(s)) in their respective “board of officers”,

**Instructs** the IODE Co-Chairs to discuss this IODE decision with the respective regional subsidiary body Chairs.

**Instructs** each ODIN to submit a detailed project proposal including a work plan and budget to IODE-XXVII, following the instructions for projects provided in IOC Manual and Guides Nr 81 and to take into account opportunities offered by the UN Decade of Ocean Science for Sustainable Development,

**Establishes** an inter-sessional working group to revise the terms of reference of IODE Ocean Data and Information Networks (ODINs) and develop a strategy for sustainability of the ODINs and to submit its report to the next meeting of the IODE Management Group (2022).

Initial membership will include:

* Chairs of ODIN steering groups
* Representatives of the IOC Regional Subsidiary Bodies
* IODE Co-Chairs
* IODE Secretariat
* Turkey (Mr Murat Elge) (\*)
* Malaysia – ADU (Mr Aidy M Muslim)
* Tunisia – AIU (Ms Saida Messaoudi)

(\*) Mr Murat Elge changed employment after IODE-XXVI and has therefore stepped down as member of the inter-sessional working group.”

Mr Odido then reported on progress of the inter0sessional working group.

**The Management Group recommended/decided …**

**The Management Group noted** that financial implications of ODIN projects would be discussed under Agenda item 6.2.

### ODINBlackSea

Mr Oleksandr Neprokin, who took over from Mr Elge as Chair of the SG-ODINBlackSea was invited to briefly report on activities carried out through ODINABlackSea.

**The Management Group recommended/decided …**

### ODINECET

Mr Pissierssens reported that the activities of ODINECET were now carried out within the framework of AquaDocs.

**The Management Group recommended/decided …**

### ODINAFRICA

Mr Odido was invited to briefly report on activities carried out through ODINAFRICA.

**The Management Group recommended/decided …**

### ODINCARSA

Mr Troisi was invited to briefly report on activities carried out through ODINCARSA.

**The Management Group recommended/decided …**

### ODINWESTPAC

Ms Yu Ting was invited to briefly report on activities carried out through ODINWESTPAC.

**The Management Group recommended/decided …**

### ODINCINDIO

Mr Pissierssens informed the management group that Mr Justin Ahanhanzo (IOC Secretariat member responsible for IOCINDIO) had informed him that no actions had been undertaken by ODINCINDIO.

**The Management Group recommended/decided …**

### Pacific SIDS

Mr Ward Appeltans referred to the PacMAN project while Ms Lucy Scott referred to the Ocean InfoHub project for activities in that region.

**The Management Group recommended/decided …**

# STRATEGIC ISSUES

## Ocean Data and Information System

This agenda item was introduced by Ms Lucy Scott.

She recalled that IODE-XXVI adopted recommendation **IODE-XXVI/6.1.1** on the establishment of the Ocean Data and Information System Project.

Objectives: The objectives of this project are to:

1. develop the IOC Ocean Data and Information System (ODIS) as an e-environment where users can discover data, data products, data services, information, information products and services provided by Member States, projects and other partners associated with IOC;
2. work with partners, linked and not linked to the IOC, to improve the accessibility and interoperability of existing data and information. It will contribute to the development of a global ocean data and information system, to be referred to as the IOC Ocean Data and Information System, leveraging established solutions where possible;
3. start its development using already existing “ecosystem component” such as, *inter alia*, the ODIS Catalogue of Sources (ODISCat), the Ocean InfoHub project, and all IODE data and information products and services, and to add components within and outside the IODE programme as these become available to and interoperable with the ODIS ecosystem.

Membership: The Steering Group will be composed, *inter alia*, of:

1. Representatives from IOC Programmes;
2. Project Manager;
3. Project Technical Manager;
4. Invited Experts;
5. Representatives of major stakeholder (user) groups including regional/international organizations;
6. Representative of the IODE Secretariat;
7. Representative of the Decade Coordination Unit.

Objectives: The SG-ODIS will have the following Terms of Reference:

1. Propose the vision, strategy, work plan and timetable for the ODIS Project;
2. Advise on technical aspects;
3. Establish a stakeholder forum to ensure active participation of representatives from ODIS nodes and other contributors;
4. Report to the IOC and to other partners on the progress of the ODIS Project;
5. Provide guidance to the project manager and project technical manager;
6. Identify funding sources to further develop the ODIS.

An initial Steering Group meeting has not yet been held, but it is proposed that it be back-to-back with the Ocean InfoHub Project Steering Group meeting in Q3/Q4 2022, as a hybrid event.

**The Management Group recommended/decided …**

## Outcome of the “International Ocean Data Conference 2022 - The Data We Need for the Ocean We Want”

This agenda item was introduced by Mr Taco De Bruin. He referred to the web site of the Conference available from <https://oceandataconference.org>.

The conference (the first in a planned series) was held in Sopot, Poland, between 14-16 February 2022 as a hybrid event. It was organized jointly by the Government of Poland through the Institute of Oceanology, Polish Academy of Sciences (IOPAN), the IODE Programme of the IOC and the Decade Coordination Unit. It was attended by 591 online and 60 on-site participants. The main objectives of this Conference were to consider regional and global strategies and policies needed to achieve the digital ecosystem, to discuss existing and required technological developments and their implementation, and to identify future directions in ocean data and information management. The mentioned objectives will furthermore be considered within the multi-sectoral vision of the Ocean Decade.

The conference made several recommendations to be acted upon mainly by the global ocean data and information management community:

* need for increased efforts in standardisation, best practices and harmonization as well as wider application of FAIR and CARE principles
* increase the widest community engagement including citizen science, indigenous knowledge and improving data literacy
* need to increase efforts in global data and information system interoperability and networking to achieve a global ocean digital commons and data ecosystem, also achieving interconnection and integration of data systems (digital twins) from different disciplines and sectors (including private sector) related to the ocean
* foster integrated multi-hazard warning systems within Earth System Observation, Research, and Prediction programmes, not only aiming on ocean health, but manifesting the 7 Decade's societal outcomes underlining the qualities of the ocean and of the people

In the context of the UN Ocean Decade, the global ocean data and marine value chain community will have collectively enabled a ‘living’ digital ocean data ecosystem:

* data provenance will be fully traceable via a common set of metadata enriched with thematic/sector/uptake relevant tagging information e.g., relevance to EOVs, SDGs;
* The ocean data ecosystem will be fully machine-machine searchable and actionable, meaning that when data or metadata are updated these are automatically updated throughout the data pipeline and when new data are made available these are automatically harvested and made available through the global digital commons;
* Networks of information are needed that are globally distributed to achieve the harmonisation of standards;
* Science-based quality requirements are also needed – co-developed by the marine data community – so that data and information are fit for multiple use.

Extensive news reporting was carried out by the IOC and IODE Secretariats on the outcome of the conference (e.g. <https://ioc.unesco.org/news/international-ocean-data-conference-2022-concludes-new-commitments-achieving-global-ocean>)

Nearly all presentations together with abstracts are available on <https://oceandataconference.org/programme/> . A summary of the outcomes has be prepared as well as the Sopot Declaration drafted.

Mr De Bruin further informed the Management Committee that a short survey had been organized after the Conference to obtain feedback from the participants. The results of the survey are available from Document IOC/IODE-MG-2022-5.2. Mr De Bruin briefly summarized the outcome.

The Management Group was invited to comment on the outcome of the Conference and to consider whether such event should be organized again in the future. If so, then the Management Group was invited to comment whether it should be organized back-to-back with IODE Sessions or separate.

**The Management Group recommended/decided …**

## Role of IODE in the UN Decade

### IWG-SODIS

This agenda was introduced by Dr Hernan Garcia. He recalled that IODE-XXV adopted recommendation IODE-XXV.5.3 on the establishment of the inter-sessional working group (Chaired by Dr Hernan Garcia) to propose a strategy on ocean data and information stewardship for the UN Ocean Decade (IWG-SODIS) which, inter alia, was instructed to “Prepare a proposed Ocean Data and Information Stewardship Strategy”. The IWG-SODIS has elaborated a data and information strategy for the Ocean Decade. Reference was made to [Document IOC/IODE-MG-2021/5.1](https://iode.org/index.php?option=com_oe&task=viewDocumentRecord&docID=27573) (Proposed Data and Information Strategy for the Ocean Decade (prepared by IWG-SODIS)). He recalled that IODE-XXVI had adopted Decision IODE-XXVI.6.2 “IODE contributions to the UN Decade of Ocean Science for Sustainable Development (2021-2030) and establishment of an IODE inter-sessional working group”.

This Decision included:

**“Decides to** establish the IODE Intersessional Working Group (IWG) to identify the IODE contribution to the UN Decade of Ocean Science for Sustainable Development (2021-2030) with the following terms of reference:

1. develop an inventory of IODE data and information management assets and tools that could help serve the needs of the Ocean Decade data and information access needs;
2. collaborate and coordinate with the Decade Coordination Unit (DCU) to identify gaps and scope;
3. submit its report with recommendations for further action to the IODE XXVII Session.

Membership: The membership of the group will be composed, *inter alia*, of:

1. IWG Lead (to be designated by the IWG),
2. members of the IODE community
3. invited Experts from the global ocean data and information communities
4. members of the IODE Secretariat
5. representative(s) of the Decade Coordination Unit.

Initial membership will include:

1. OBIS - Anton Van de Putte
2. United States of America - Hernan Garcia
3. Mexico – Mr Carlos Torres
4. Expert- Pier Luigi Buttigieg
5. GOOS OCG (Kevin O’Brien) 2021 – (tentative: will confirm name of participant after next OCG executive meeting)
6. United Kingdom ADU (OBIS-UK) – Mr Dan Lear
7. OBPS - Jay Pearlman”

Mr Garcia further reported as follows: ….

**The Management Group recommended/decided …**

### Submitted IODE decade actions

Dr Garcia reported that the following decade actions have been submitted by IODE, as a follow-up to the recommendations from IODE-XXVI.

* [E-DNA expeditions in marine World Heritage sites](https://forum.oceandecade.org/ventures/86618) (Ward Appeltans)
* [Ocean Practices for the Decade](https://forum.oceandecade.org/ventures/85910) (Peter Pissierssens)
* [OceanTeacher Global Academy: Building Capacity and Accelerated Technology Transfer for the Ocean Decade](https://forum.oceandecade.org/ventures?p=true&ventures_venture=86821&block-filters%5blocation%5d%5blocation%5d=) (Claudia Delgado, Greg Reed, Sofie De Baenst)
* [Pacific Islands Marine Bioinvasions Alert Network (PacMAN)](https://forum.oceandecade.org/ventures/86822) (Ward Appeltans, Pieter Provoost)

Proposals submitted in cooperation with IODE:

* [The World Ocean Database Programme (WODP): Openly discoverable, accessible, adaptable, and comprehensive digital global profile oceanographic data of known quality](https://forum.oceandecade.org/ventures/85904) (Hernan Garcia, United States)
* [CoastPredict - Observing and Predicting the Global Coastal Ocean](https://forum.oceandecade.org/ventures/85681) (Nadia Pinardi, Italy)

Dr Garcia noted that while the above projects had been included in the Decade action list this does not imply funding. Each Decade action will need to seek funding separately. Nevertheless, it is hoped that projects identified as Decade actions will have a higher chance of obtaining funding than if they were not so identified.

**The Management Group welcomed** the submission of the above-mentioned projects as Decade actions. It urged IODE NODCs, ADUs and AIUs to also submit projects, preferably as IODE actions or including IODE as a “partner” in projects.

**The Management Group recommended/decided …**

### Submission of IODE DCO proposal

This agenda item was introduced by Dr Sergey Belov. He provided a brief introduction on Decade Coordination Offices. He referred to Figure 2 available in “The Ocean Decade Series 23” (April 2021):

Diagram

Description automatically generatedThe figure shows that the DCO is hierarchically positioned just below the DCU. It oversees the work of the Decade Collaboration Centres and links with the Decade Implementing Partners. It should be hosted by a UN entity and/or UN Member State acting as a host of a UN Secretariat.

The **main roles** of the DCO: “Acts as sub-unit of the central Decade Coordination Unit. Catalysis and coordination of Decade Actions including of Calls for Decade Actions, organise and coordinate Decade review processes, promote cooperation amongst UN and Member State partners, communications, monitoring, and resource mobilisation. “

The DCO has a geographic or thematic scope which can be an ocean basis or related to one or more Ocean Decade Challenges.

In terms of expected resource commitments, the DCO should have a small team of dedicated UN staff, premises and office operational costs.

Dr Belov informed the Management Group that a proposal for the IODE Project Office to host a Decade Coordination Office (DCO) has been prepared. The IODE Co-Chairs recommended that IODE should host such an office considering the 60+ years of experience by the IODE programme and its community of oceanographic data centres in the joint management and sharing of oceanographic data. They considered that this experience can be extremely useful and beneficial towards reaching the goals of the data in the area of oceanographic data.

The proposal was submitted to the Decade Coordination Unit (DCU) on 21 February. Comments and suggestions were received from the DCU and a final version was prepared for the consideration of the IODE MG after a consultation meeting with the DCU on March 4, 2022 (which has been circulated to the MG members by email)

Dr Belov provided a brief introduction on the proposal and costing.

The Management Group was invited to approve the proposal for formal submission to the DCU, on behalf of the IODE Committee.

**The Management Group recommended/decided …**

## Revision of the IOC Strategic plan for Oceanographic Data and Information Management (status of the IWG – Decision IODE-XXVI.6.3)

Mr Pissierssens recalled that IODE-XVVI had decided to close the inter-sessional group established by IODE-XXV. He invited the Management Group to consider whether further action was needed.

The Management was invited to recommend any further action needed.

**The Management Group recommended/decided …**

## Revision of the IOC Oceanographic Data Exchange Policy

This agenda item was introduced by Dr Hernan Garcia. He recalled that the 2021 IODE Management Group had recommended the following: (i) The Management Group requested for IODE-XXVI to recommend to the IOC Assembly that a working group on the IOC data policy is established, composed of Member States and partner organizations to discuss the revision of the policy; (ii) The Management Group decided that a pre-Committee working group needs to be established to draft the terms of reference of the data policy working group (and draft decision) and to add the policy as an agenda item for IODE-XXVI. The 2021 meeting of the IODE Management Group further recommended the establishment of a pre-committee (IODE-XXVI) working group. The membership of the group can be found on <http://www.iode.org/iode26>. The group met on 17 February 2021. Its main objective was to discuss the need for a revision of the IOC Oceanographic Data Exchange Policy and, if the group agreed, to draft a recommendation, including objectives and terms of reference, to establish a new IOC intersessional working group on the revision of the IOC Oceanographic data exchange policy, to be submitted to IODE-XXVI.

The working group agreed that there are enough elements that warrant a revision of the IOC data policy. The result should be an ambitious new data policy that further promotes and supports free and open exchange of data. However, concerns were raised to carefully consider what needed to change, taking into account the amount of effort that went into building consensus on the current policy, especially with respect to acknowledging the rights of countries and the non-binding nature of the policy. Suggestions were made to build on other models such as the data policy of WMO that has a main policy with core principles, and modular extensions pertaining to specific data types or applications and products. This way the scope of the policy could be further expanded more easily if needed without opening a debate on the core elements. The Committee had adopted Recommendation IODE-XXVI.6.4 (Revision of the IOC Oceanographic Data Exchange Policy (2003, 2019)) that established the IOC inter-sessional working group on the revision of the IOC Oceanographic Data Exchange Policy 2003 (2019) (IWG-DATAPOLICY) with the following terms of reference:

**“Terms of Reference of the IOC inter-sessional working group on the revision of the IOC Oceanographic Data Exchange Policy 2003 (2019) (IWG-DATAPOLICY)**

Objectives: This working group will:

1. Create an inventory of existing international, national and organizational data policies,
2. Review and compare existing international, national and organizational data policies
3. Develop a glossary with clear definitions (e.g., open vs free and unrestricted; data vs metadata vs information, licence options),
4. Investigate the expansion of scope and name of the IOC Oceanographic Data Exchange Policy,
5. Gather advice from partner/sister organizations and recognized data provider/manager organizations,
6. Organize a broad consultation on the proposed revised IOC Ocean Data Policy with Member States, IOC global and regional programmes,
7. Submit a revised IOC Oceanographic Data Exchange Policy to the 32nd Session of the IOC Assembly (2023).

Modalities: The IWG-DATAPOLICY aims to have at least 3 meetings (second half 2021, first half 2022). The group may meet online, face-to-face or mixed as appropriate. For face-to-face meetings participation will be self-funded.

Membership: The IOC intersessional working group on the revision of the IOC Oceanographic Data Exchange Policy 2003 (2019) will be composed, *inter alia*, of:

1. Chair of the working group (to be designated by the group)
2. Invited experts from the global data and information communities including UN agencies
3. Representatives of IOC programmes and projects
4. IOC (including IODE) Secretariat

The initial membership will include:

1. WMO
2. United States of America – Mr Hernan Garcia
3. Expert - Pier Luigi Buttigieg
4. GOOS OCG (Kevin O’Brien) – (tentatively volunteered: will confirm name of participant after next OCG executive meeting)
5. OBPS – Pauline Simpson
6. Canada ADU (OBIS) – Ms Lenore Bajona
7. IOC/Tsunami Unit – Mr Bernardo Aliaga
8. Frederico Antonio Saraiva Nogueira”

This recommendation was subsequently included in IOC Decision A-31/3.4.2. (International Oceanographic Data and Information Exchange) included under agenda item 3.1 above.

Dr Garcia then invited Mr Taco De Bruin to inform the Management Group on steps taken.

Mr De Bruin informed the Management Group that the tasks of the Working Group had been split into 3 parts:

PART1: fact finding/report preparation

1. Create an inventory of existing international, national and organizational data policies,
2. Review and compare existing international, national and organizational data policies
3. Develop a glossary with clear definitions (e.g., open vs free and unrestricted; data vs metadata vs information, licence options),
4. Investigate the expansion of scope and name of the IOC Oceanographic Data Exchange Policy,
5. Gather advice from partner/sister organizations and recognized data provider/manager organizations,

PART 2:

Organize a broad consultation on the proposed revised IOC Ocean Data Policy with Member States, IOC global and regional programmes,

PART 3:

Submit a revised IOC Oceanographic Data Exchange Policy to the 32nd Session of the IOC Assembly (2023).

Mr Greg Reed, taking into account his long experience in IODE, was invited to complete Part 1. This work resulted in [Document IOC/IWG-DATAPOLICY-I/5 (Desk Study on existing data policies (IOC, UN, non-UN))](https://oceanexpert.org/downloadFile/50077).

To start Part 2 it was decided to populate the working group with 1-3 representatives of all IOC global and regional programmes including Ocean Science (HAB, ocean acidification, GOSR), IODE, GOOS, Marine policy and Regional Coordination, Tsunami (including GLOSS), IOCAFRICA, IOCARIBE, IOCINDIO, WESTPAC. Member States were informed of the proposed process through IOC Circular Letter 2864 (9 November 2021). All contacted programmes designated representatives except IOCARIBE and IOCINDIO. The list of the current membership is available from <https://www.oceanexpert.org/event/3406#participants>.

The next steps that will be taken are:

* STEP 3: (March–May 2022): The IWG-DATAPOLICY will be invited to discuss the issue and draft a first version of the new policy

The first meeting of the group will be held on 5-6 April 2022 as a hybrid event with some participants on site in Oostende or Paris and others participating online. The aforementioned document IOC/IWG-DATAPOLICY-I/5.5 will be made available prior to the meeting.

* STEP 4: (May–July 2022): The IWG-DATAPOLICY will share the draft with selected UN and non-UN organizations and partners and seek their comments

The first meeting of the group (5-6 April) will be invited to identify UN and non-UN organizations and partners that should be invited to the group. The organizations mentioned in document IOC/IWG-DATAPOLICY-I/5.5 can be used as a basis.

* STEP 5: (August/September 2022): An information session will be organized (online) for IOC Member States (national focal points) to collect feedback
* STEP 6: (September–November 2022): The IWG-DATAPOLICY will revise the first draft of the new IOC data policy based on input from steps 4 and 5.
* STEP 7: (February/March 2023): The IWG-DATAPOLICY will submit the first draft of the new IOC data policy to the IODE Committee at its 27th session
* STEP 8: (May/June 2023): The IWG-DATAPOLICY will submit the final draft of the new proposed policy to the IOC Assembly at its 32nd session for adoption.

The Management Group was invited to comment on the proposed way forward.

**The Management Group recommended/decided …**

## New NODCs, Accredited NODCs, ADUs, AIUs since IODE-XXVI

This agenda item was introduced by Mr Peter Pissierssens, Head IOC Project Office for IODE. He informed the Management Group that an email was sent to 78 IOC Member States that had not established an NODC or ADU.

The results of this “call for membership” are available in [Annex IV](#annex4): Results of the IODE promotional campaign 2021.

Out of 150 IOC Member States 90 designated an IOC National Coordinator for Data Management.

Member states without coastline were excluded at this stage. Also excluded was Syria.

Summary of results:

* for 14 member states no valid IOC focal points contact information is available (9%)
* 39 member states received the email but did not respond (60%)
* in 3 cases we established contact but there was no further communication
* we were able to establish contact with 22 member states and there was expression of interest to join the network (18%)

Mr Pissierssens summarized that:

* 68 Member States now have established one or more National Oceanographic Data Centres (NODC) or Associate Data Units (ADU)
* The total number of NODCs collaborating in IODE is 60
* The total number of data centres (NODC or ADU) collaborating in IODE is 93, of which 18 in Africa, 10 in Latin America and 9 in the WESTPAC region
* The network includes 9 accredited NODCs and 1 accredited ADU
* The network includes 5 Associate Information Units (AIU)
* IODE has 90 IODE national coordinators for Data Management in 83 countries

**The Management Committee requested** the Secretariat to continue contacting member states in order for them to designate IODE national coordinators data management and/or to establish NODCs or ADUs.

# REVISED WORK PLAN AND BUDGET 2022-2023

## Overview of revenue 2022-2023

This agenda item was introduced by Mr Peter Pissierssens. He informed the Management Group that, whereas the annual revenue from the UNESCO regular programme budget was US$117,000/year during the biennium 2020-2021 this has now been cut to approx. $70,000/year for the biennium 2022-2023. In addition, the Government of Flanders (as mentioned in agenda item 3.2 had decided to cease the annual contribution (for operational expenses) of approx. $200,000/year as from 2022. Some residual (Flanders) funds from the previous year (approx. €70,000) will be available in 2022.

Mr Pissierssens reported that a new funding source has become available from NORAD. A first series of projects were successfully submitted in 2021:

1. OIH Africa – database of training opportunities (4/2021-11/2021) – Ocean Infohub (leads: Mika Odido, Lucy Scott, Claudia Delgado): $50,000
2. Development of 50 short tutorials relevant to OBIS topics (1/1/2022-31/12/2022) – OBIS (lead: Ward Appeltans): $66,000
3. Establishment of new nodes in the Ocean Data and Information System, supported by the Ocean InfoHub Project.(2/2022-11/22) (leads: Lucy Scott, Peter Pissierssens): $95,000

New project can be submitted in 2022 to be funded from this new source.

The Management Group was invited to inform the group on any additional sources of funding that IODE could benefit from to support its ongoing and possibly new projects.

**The Management Group recommended/decided …**

**[should we try to quantify inkind contributions by MS? eg membership of WGs, SGs,…)]**

## Revision of work plan and budget 2022 (and preliminary version for 2023, pre-IODE-XXVII)

This agenda item was introduced by Mr Taco De Bruin. He referred to the spreadsheet file distributed by email to the Management Group members. The proposed budget had attempted to maintain most budget items but has converted most meetings into online events (as they have no direct budgetary cost implication). This applies to GTSPP, OBPS.

The SG-OBIS is proposed to be held as a hybrid meeting with partial funding by UNESCO RP and Flanders PO (remaining funds 2021) in Oostende. The same applies for ODIS.

Some training activities can be organized in 2022 in Oostende for the Europe region, depending on the availability of funds.

The Management Group was invited to review and revise the proposed work plan and budget for 2022, taking into account the funds available.

**The Management Group approved** the work plan and budget for 2022.

## New initiatives

### MARCO-BOLO (new EU proposal)

This agenda item was introduced by Mr Ward Appeltans. He explained that if selected, IODE/OBIS will play a major role in a new EU project proposal: MARine COastal BiOdiversity Long-term Observations (MARCO-BOLO) submitted under call HORIZON-CL6-2022-BIODIV-01-01. The MARCO-BOLO project aims to structure and strengthen European coastal and marine biodiversity observation capabilities, linking them to global efforts (e.g. MBON, GOOS, OBIS and UN Ocean Decade Programmes Marine Life 2030, OBON, ODIS, Ocean Practices for the Decade) to understand and restore ocean health, and ensuring outputs respond to explicit stakeholder needs from policy, planning, and industry. OBIS will lead the task on Essential Ocean Variable (EOV) data delivery and will contribute to other tasks e.g., setting up data flows into long term archives, and the creation of data and metadata specifications. OBIS will summarise and optimise current data resources, including assessing the robustness of genetic reference databases, bioinformatic pipelines and eDNA data integration into databases such as OBIS. OBIS will also coordinate the development of a Community of Practice (CoP) and support the project with co-design/co-creation and knowledge transfer events. We will organise two major CoP meetings, which are planned in the beginning and end of the project where we will measure the impact of MARCO-BOLO on improving the effectiveness of the current marine biological observing system.

**The Management Group recommended/decided …**

# PLANNING FOR IODE-XXVII

## Candidate hosts, dates

This agenda item was introduced by Mr Taco De Bruin.

He explained that the next Session of the IODE Committee will need to be organized in February or March 2023 so the report and draft decision to be considered by the 32nd Session of the IOC Assembly can be submitted in time (needed in April 2023).

The Management Group was requested to consider whether the next Session should be organized back-to-back with a 2nd “International Ocean Data Conference 2022 - The Data We Need for the Ocean We Want”. In this regard it was noted that the 1st conference had a duration of 2.5 days. The previous in-person Session of the IODE Committee (IODE-XXV, Tokyo, 20-22 February 2019) had a duration of 2.5 days (Wednesday 20 February 0900 until Friday 22 February 12:30). Accordingly, at least on paper, it would be possible to have the 2nd International Ocean Data Conference on Monday from 0900 to Wednesday 1230 after which the IODE Session would be held between Wednesday 1400 until Friday 1800. Alternatively (taking into account that most participants try to leave the afternoon of the last day of the meeting) the conference could be shortened to 2 days (Monday, Tuesday) after which the IODE Session would start on Wednesday 0900 until Friday 1230. Mr De Bruin informed the Management Group that the second option (2+2.5) would be preferred as the room setup for the Conference (theatre configuration) and IODE Session (U configuration) would be different.

The Management Group was invited to decide on (i) whether the “2nd International Ocean Data Conference 2022 - The Data We Need for the Ocean We Want” should be held prior to the IODE-XXVII Session; (ii) what should be the duration of the Conference and the Session; and (iii) on date and place of the Session/Conference.

**The Management Group recommended/decided …**

## Required administrative and practical arrangements for IODE-XXVII

This agenda item was introduced by Mr Peter Pissierssens. He explained that a MoU would need to be established with the host organization offering to host IODE-XXVII.

## Election of new IODE Co-Chairs at IODE-XXVII

This agenda item was introduced by Mr Peter Pissierssens. He recalled that Dr Sergey Belov and Mr Taco De Bruin had been elected at IODE-XXV and re-elected for second term at IODE-XXVI. According to the IOC Rules of Procedure they cannot be re-elected again so new Co-Chairs will need to be elected at IODE-XXVII.

**The Management Group requested** the Secretariat to send out an email to all IODE national coordinators inviting them to send in their candidature for the two Co-Chair positions. In this regard it was recalled that IODE should aim at geographic as well as gender balance.

# ANY OTHER BUSINESS

# ADOPTION OF THE REPORT

Mr Pissierssens explained that due to the short duration of this Management Group meeting it was not possible to adopt the report of the meeting but suggested that a draft report would be circulated by email the week after the meeting for possible edits/corrections and then to adopt the report by email.

**The Management Group instructed** the Secretariat to finalize the report, send out a draft for possible edits/corrections and decided that the report would be adopted by email.

# CLOSING OF THE MEETING

ANNEX 1. AGENDA AND TIMETABLE

**21 March (1400-1600 CET) (10 min break at 15h00)**

1. **OPENING OF THE MEETING/ ADOPTION OF AGENDA AND TIMETABLE** (5’)
2. **REVIEW OF THE IODE-XXVI ACTION SHEET** (30‘)
3. **MATTERS ARISEN SINCE IODE-XXVI THAT REQUIRE ACTION BY THE MANAGEMENT GROUP** (15’)

3.1 Outcome of IOC-XXXI (5 min)

3.2 Renewal of the IOC-VLIZ MoU: changes (10 min)

1. **REPORTS OF IODE PROJECTS** (20’)

4.1 AquaDocs

4.2 GODAR/ WOD

4.3 GOSUD

4.4 GTSPP

4.5 ICAN

4.6 IQuOD

4.7 ODP

4.8 OBIS (incl training videos project and e-DNA project)

4.9 OBPS (IODE/GOOS)

4.10 Ocean InfoHub (incl OIH extension project)

4.11 ODIS (incl ODISCat)

4.11.1 Establishment of the ODIS project and associated Partnership Centre

4.12 OceanExpert

4.13 OceanTeacher Global Academy (including Alumni) project

4.14 PacMAN

4.15 IODE QMF

4.16 Regional activities

4.16.1 ODINBlackSea

4.16.2 ODINECET

4.16.3 ODINAFRICA

4.16.4 ODINCARSA

4.16.5 ODINWESTPAC

4.16.6 ODINCINDIO

4.16.7 Pacific SIDS

4.16.8 Status of Decision IODE-XXVI.4.1.2

1. **STRATEGIC ISSUES part 1** (45’)

5.1 Ocean Data and Information System (15’)

5.2 Outcome of the data conference (10’)

5.3 Role of IODE in the UN Decade (20’)

5.3.1 Submitted IODE decade actions (10’)

5.3.2 Submission of IODE DCO proposal (10’)

**22 March (1400-1600 CET)**

**5. STRATEGIC ISSUES part 2** (35’)

5.4 Revision of the IOC Strategic plan for Oceanographic Data and Information Management (status of the IWG – Decision IODE-XXVI.6.3) (15’)

5.5 Revision of the IOC Oceanographic Data Exchange Policy (15’)

5.6 New NODCs, Accredited NODCs, ADUs, AIUs since IODE-XXVI (5’)

1. **REVISED WORK PLAN AND BUDGET 2022-2023** (40’)

6.1 Overview of revenue 2022-2023 (5’)

6.2 Revision of work plan and budget 2022 (and preliminary version for 2023,   
pre-IODE-XXVII) (35’)

6.3 New initiatives

6.3.1 MARCO-BOLO, new EU proposal

1. **PLANNING FOR IODE-XXVII** (15’)

7.1 Candidate hosts, dates (10’)

7.2 Required administrative and practical arrangements for IODE-XXVII (5’)

1. **ANY OTHER BUSINESS** (20’)
2. **ADOPTION OF THE REPORT** (5’)
3. **CLOSING OF THE MEETING** (5’)

ANNEX 2: LIST OF PARTICIPANTS

**Executive Members**  
  
Mr. Sergey BELOV

deputy director

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Annex III: IODE-XXVI Updated Action Sheet

Last update: 11 February 2022

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Para number** | **Action item** | **Deadline** | **Implemented by** | **Current status** |
| 8 | **The Committee**, taking into account the limited size of most delegations, **decided**not to designate a Rapporteur, and **tasked**the Secretariat and Co-Chairs with the reporting of the Meeting. | 10/5/2021 | Secretariat | Done (6/5/2021) |
| 25 | **The**Committee, noting the restructuring of WMO, **recommended** that further discussions on this topic [GDACS] would be needed with the Joint WMO-IOC Collaborative Board (JCB) and **requested** Dr Sergey Belov, IODE Co-Chair, to start those discussions. | n/a | Sergey Belov | No progress reported |
| 26 | The Committee, **noting** the abolishment of JCOMM, **decided** to abolish the ETDMP and **invited** IOC to discuss with WMO through the Joint WMO-IOC Collaborative Board (JCB) the form of future collaborations on data and formation management and ocean best practices aspects via the joint projects, ETs, other forms. (action by Dr Sergey Belov, IODE Co-Chair). | n/a | Sergey Belov | No progress reported |
| 27 | **The Committee invited** IODE experts to join the IODE Steering Group for the ODISCat project by contacting the IODE Secretariat. | n/a | n/a | No progress reported |
| 33 | **The Committee invited**  Estonia (Tallinn University of Technology); (ii) Finland (Finnish Meteorological Institute); (iii) Portugal (Instituto Hidrografico); and (iv)Trinidad and Tobago (Institute of Marine Affairs) to join the IODE network as NODC or ADU | n/a | Secretariat to contact Estonia (Tallinn University of Technology); (ii) Finland (Finnish Meteorological Institute); (iii) Portugal (Instituto Hidrografico); and (iv)Trinidad and Tobago (Institute of Marine Affairs) | DONE Contact was made with both countries but no action was taken to establish NODC or ADU (see also Annex IV) |
| 41 | **The Committee, noting with regret** the lack of progress, **decided** to extend the Inter-sessional working group on the review of NODC health status within the IODE network and**instructed** it to provide   * a revision of IOC Manuals and Guides No. 5 (Guide for Establishing a National Oceanographic Data Centre); * a revision of IOC Manuals and Guides No. 67 (IODE Quality Management Framework for National Oceanographic Data Centres and Associate Data Units (Revised edition)); and * finalise IODE data centre health check procedures, for submission to the IODE Management Group for its January 2022 meeting. | IODE-XXVII | Inter-sessional working group on the review of NODC health status within the IODE network | 1. Dr Lesley Rickards (UK)volunteered to undertake the revision of M&G5 2. no progress 3. no progress |
| 42 | **The Committee instructed** the Secretariat to publish and circulate the documents subsequent to their approval by the IODE Management Group. | Feb 2022 | Secretariat | n/a |
| 48 | **The Committee instructed** the Secretariat to **contact** the IOC focal points of IOC Member States that have not established NODC or ADU and **invite** them to consider establishing such as facility, and to **offer** to meet with the contact to discuss in more detail. Expanding the network requires an understanding the challenges interested member states are facing in terms of resourcing, national buy-in, etc. If the representative is interested but not in a position to participate through full NODCs/ADUs, IODE should work with the member state in an outreach capacity, working with the member state to seek opportunities to participate in a sustainable way, possibly through partnership with other regions, etc. It is strongly recommended that the NODC and ADU Community Surveys be used as a supporting resource in this work. | asap | Secretariat | DONE. Email messages were sent to all IOC MS that have not established an NODC or ADU or have not established IODE NC. Results in Annex IV. |
| 56 | **The Committee called** on the IODE NODCs, ADUs and AIUs to apply for accreditation | 2021-2022 | IODE NODCs, ADUs and AIUs | No new applications received in 2020 and 2021 |
| 57 | **The Committee called** on the Secretariat to contact NODCs, ADUs and AIUs through a simple survey to determine the root causes for lack of submissions for accreditation | 2021 | Secretariat | No progress reported |
| 58 | **The Committee called** on the NODCs, ADUs and AIUs to respond to the survey from the Secretariat and to also consider applying for accreditation | 2021 | IODE NODCs, ADUs and AIUs | See 57 |
| 59 | **The Committee requested** the Secretariat to contact each of the 21 NODCs/ADUs who state in the NODC survey that they will implement the IODE QMF accreditation process during the next inter-sessional period and ask how they are progressing and do they require any assistance. It would be good to use the information from NODCs/ADUs that we already have. This could be extended to asking those who attended the training course last October. It was proposed that the QMF Steering Group undertakes this follow-up task | 2021 | 21 NODCs/ADUs who state in the NODC survey that they will implement the IODE QMF accreditation process during the next inter-sessional period | No progress reported |
| 60 | **The Committee invited** NODCs/ADUs/AIUs that require training in QMF to contact Ms Claudia Delgado (OceanTeacher Global Academy) to plan such courses as soon as possible | 2021 | NODCs/ADUs/AIUs that require training | No progress reported. (there have been no requests) |
| 64 | **The IODE Committee welcomed** the proposed revision of IOC Manual and Guides No. 81, rev2, available from  <http://www.iode.org/mg81> and **requested**all project leaders/managers to use the new reporting form, included in the revised MG81 as Annex 2. | 2021 | secretariat to inform data centres | Reporting made using the revised version: **DONE** |
| 66 | **The Committee welcomed** the continued and expanding cooperation of IODE with other IOC programmes and other partners and **invited** these programmes and partners to invite IODE and its projects as partners in their activities. | 2021-2022 | IODE Co-Chairs to contact IOC programmes and other partners | No progress reported |
| 73 | **The Committee welcomed** the continued and expanding cooperation of IODE with the HAB programme and **urged**IODE experts to actively participate in the work of the Task Teams on HAIS and GHSR | 2021-2022 | IODE experts | No progress reported |
| 80 | **The Committee welcomed** the continued and expanding cooperation of IODE with the ocean acidification activities of the IOC Ocean Sciences Section programme and **urged** IODE experts and IODE data centres to actively participate in the programme. | 2021-2022 | IODE experts/ IODE data centres | No progress reported |
| 99 | **The Committee recommended** to allocate funds in the 2021 budget for the redesign of the IODE web site, taking into account the recommendations of the review | 2022 | IODE Management Group January 2022 to address who revising budget 2022 | TO BE DISCUSSED |
| 100 | **The Committee instructed**  the IODE Secretariat and Co-Chairs to establish a small working group of volunteers to draft the new structure of the IODE web site, prior to contracting the redesign and other technical tasks | 2021/ 2022 | Secretariat, Co-Chairs / Initial membership of the working group will include: (i) Expert- Mr Pier Luigi Buttigieg; (ii) Turkey-NODC-Mr Murat Elge; (iii) ICAN-Ms Tanya Haddad; (iv) IODESec – Ms Pauline Simpson (v) OBIS COTT – Mr John Nicholls; (vi) IOCAFRICA – Mr Mika Odido; (vii) IODESec – Mr Arno Lambert; (viii) IODESec – Ms Lucy Scott; (ix) EMODnetSec – Mr Jan-Bart Calewaert; (x) INVEMAR-Colombia as an ADU name to be confirmed by Ms Paula Sierra-Correa | no progress reported |
| 118 | **The Committee approved** Document IOC/IODE-XXVI/6.1.1 and **instructed** the Secretariat to submit the document as a working document for the 31st Session of the IOC Assembly (June 2021). | 24/4/2021 | Secretariat | **Done** |
| 149 | **The Committee invited** the leads of Decade Actions to discuss cooperation with IODE and **requested** the IODE Co-Chairs to establish contact with the Decade Action leads. | 2021-2022 | IODE Co-Chairs | No progress reported |
| 150 | **The Committee requested** that in addition to the Decade Action proposals where IODE is already engaged the IODE Co-Chairs seek IODE involvement in other relevant Decade Actions, both current and future, and to regularly report back to the IODE Management Group | 2021-2022 | IODE Co-Chairs | No progress reported |
| 157 | **The Committee, expressing** its regret over the lack of progress, **decided** to **close**the inter-sessional working group to update the Strategic Plan established at IODE-XXV through Decision IODE-XXV.5.4 | n/a | Secretariat to update IODE web site marking closure former group | **DONE** |
| 176 | **The Committee requested** the Government of Flanders (Kingdom of Belgium) to continue its support and invited other Member States to complement the support to allow further development of the IODE, its activities, products and services. | 2021 | Member States | See agenda item 3.2 |
| 186 | **The Committee**, while noting the difficulty to establish new regular positions within IOC and the similar needs of other programmes within IOC, both old and new, **called on the Executive Secretary** to consider the long-term sustainability of the IODE programme when preparing the IOC staffing plan for the next biennia | 2021 | IODE Co-Chairs | No action taken by IOC Executive Secretary |
| 187 | **The Committee called on Member States**to consider seconding, either at the IOC Project Office for IODE, in Oostende, Belgium or in-kind (working from their usual place of work) in order to strengthen the IODE Secretariat. | 2021-2022 | Member States | Informal secondment offered by Germany for Pier Luigi Buttigieg |
| 188 | **The Committee thanked the Government of Flanders (Kingdom of Belgium)**  for continuing to provide three full-time staff members to the IOC Project Office for IODE, and invited the Government of Flanders (Kingdom of Belgium) to continue this support (see also Agenda Item 6.5) | 2021-2022 | Government of Flanders (through MoU) | See agenda item 3.2 |
| 194 | **The Committee noted with appreciation**  the in-kind support provided by all IODE NODCs, ADUs and AIUs, through their individual and joint activities, to the sharing and exchange of data and information, and **suggested t**hat these should also be taken into account when calculating IODE revenue | 2022 | Secretariat and IODE data centres (through survey) | To be taken into account for IOC-XXXII |
| 195 | **The Committee recommended**  that the value of IODE’s activities through its NODCS, ADUs, AIUs, experts and projects be recognized and possibly expressed in monetary and societal value and **requested**the IODE Management Group to study this issue | 2022 | IODE Management Group (Jan 2022) | No action reported |
| 206 | **The Committee invited** its Members to join the Planning Committee or Scientific Committee or, as appropriate, recommend additional members, and to **inform** the Secretariat | 2021 | Member States | **DONE** |
| 213 | **The Committee considered** the need to change the name of the Conference as “First” does not apply very well. **The Committee recommended** to consider ‘First International Ocean Decade Data Conference” or a title that relates to the Ocean Decade statement “The Data We Need for the Ocean We Want”. **The Committee requested** the Co-Chairs to discuss the revised title with the Decade Coordination Unit. | May 2021 | Co-Chairs | **DONE** |
| 214 | Concern was expressed over potential overlaps with topics presented at IMDIS. **The Committee instructed**the Planning Committee to take this into account as well as the Scientific Committee when reviewing submitted papers. | 2021 | Planning Committee | **DONE** |
| 215 | **The Committee requested** the IODE Management Group and the IMDIS organizing committee to discuss timing of future events to avoid having the IMDIS conference and Conference organized by IODE during the same year. | 2022-2023 | IODE Management Group | To be done prior to future IMDIS and ODC |
| 217 | **The Committee instructed** the Secretariat to start all necessary practical arrangements with the local host. | May 2021 | Secretariat | **DONE** |
| 218 | **The Committee urged** all Member States, IODE NODCs, ADUs, AIUs and other interested experts to actively participate in the Conference by coming to Sopot or by participating online. | November 2021 | Member States, IODE NODCs, ADUs, AIUs and other interested experts | **DONE** |
| 219 | **The Committee instructed** the Secretariat to undertake a poll to obtain an estimate of the expected number of participants who will participate in the conference in person | May 2021 | Secretariat | **DONE** |
| 236 | **The Committee invited** participants representing an NODC or ADU to contact their national representatives to the 2021 IOC Assembly to brief them on the critical status of IODE’s budget which is leading to the inability of IODE to actively implement its activities, especially taking into account the expected contribution to global initiatives (such as Agenda 2030, Ocean Decade, etc.) as well as capacity development. | May/June 2021 | Participants IODE-XXVI | No action reported |
| 256 | **The Committee requested**  its Co-Chairs and the IOC Secretariat to make editorial corrections as necessary, taking into account the discussions held during the session | April 2021 | IODE Co-Chairs/ Secretariat | **DONE** |
| 257 | **The Committee requested**  the IODE Co-Chairs to present the Executive Summary to the Thirty First Session of the IOC Assembly that would take place in June 2021 as an online event. | June 2021 | IODE Co-Chairs | **DONE** |

**Decisions and Recommendations**

|  |  |  |
| --- | --- | --- |
|  | **Action to be taken** | **Status** |
| **Decision IODE-XXVI.4.1.2**: IODE OCEAN DATA AND INFORMATION NETWORKS (ODINs) | IWG-ODIS | Reporting under 4.16.8 |
| **Decision IODE-XXVI.6.1**.2: REVISION OF THE TERMS OF REFERENCE OF THE PARTNERSHIP CENTRE FOR THE IODE OCEAN DATA PORTAL | Roshydromet, Russian Federation, Secretariat and Roshydromet, Russian Federation: agreement | Letter was sent to Roshydromet. No response received yet |
| **Decision IODE-XXVI.6.2**: IODE CONTRIBUTIONS TO THE UN DECADE OF OCEAN SCIENCE FOR SUSTAINABLE DEVELOPMENT (2021-2030) AND ESTABLISHMENT OF AN IODE INTER-SESSIONAL WORKING GROUP | IWG to identify the IODE contribution to the UN Decade of Ocean Science for Sustainable Development (2021-2030) | No action from IWG. See also agenda item 5.3 |
| **Decision IODE-XXVI.6.3**: ESTABLISHMENT OF AN INTER-SESSIONAL WORKING GROUP TO REVISE THE IOC STRATEGIC PLAN FOR OCEANOGRAPHIC DATA AND INFORMATION MANAGEMENT | IWG to revise the IOC Strategic Plan for Oceanographic Data and Information Management (2017-2021) | See agenda item 5.4 |
| **Decision IODE-XXVI.8.2**: ESTABLISHMENT OF THE AQUADOCS PROJECT | IODE Steering Group for the AquaDocs project | SG-AquaDocs-I planned |
| Recommendation IODE-XXVI/6.1.1: ESTABLISHMENT OF THE IOC OCEAN DATA AND INFORMATION SYSTEM PROJECT (ODIS) | IODE Steering Group for the IOC Ocean Data and Information System | Membership established June 2021.  No meeting of SG-ODIS held so far |
| Recommendation IODE-XXVI.6.4: REVISION OF THE IOC OCEANOGRAPHIC DATA EXCHANGE POLICY (2003, 2019) | IOC inter-sessional working group on the revision of the IOC Oceanographic Data Exchange Policy 2003 (2019) | See agenda item 5.5 |
| Recommendation IODE-XXVI.6.5: THE UNESCO/IOC PROJECT OFFICE FOR IODE IN OOSTENDE, BELGIUM | IODE Secretariat and Government of Flanders | See agenda item 3.2 |
| Recommendation IODE-XXVI. 8.3: IODE WORK PLAN AND BUDGET FOR 2021-2022 | All projects/ IODE Secretariat/ IODE Management Group 2022 | See agenda item 6 |

Annex IV: Results of the   
IODE promotional campaign 2021

Last update: **29/11/2021**

Responses received:

Total number of NC DM: **90** out of 150 member states

Total number of member states contacted: 78 out of 150 member states

Member states without coastline have been excluded at this stage. also excluded: Syria

Color coding:

* no color indicates that email did not bounce but no response was received
* red indicates all emails tried bounced so there is no valid IOC focal point contact
* yellow indicates new focal point information was obtained but no response was received
* green indicates contact was made and there is some progress

Summary of results:

* for 14 member states no valid IOC focal points contact information is available (9%)
* 39 member states received the email but did not respond (60%)
* in 3 cases we established contact but there was no further communication
* we were able to establish contact with 22 member states and there was expression of interest to join the network (18%)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Country** | **Language** | **NC DM** | **Comment** | **People to contact** | **Contacted on** | **Response received on** |
| 1 | Algeria | F | - |  | FP IOC | 26/5/21 | Reminder 23/8/2021 |
| 2 | Angola | E | - |  | FP IOC | 25/5/21 | Reminder 23/8/2021  Francisca retired. no new contact (mika info 23/8)  NEW FOCAL POINT EXPECTED TO BE NOMINATED SEPTEMBER 2021 |
| 3 | Bahamas | E | - |  | FP IOC | 25/5/21 | Reminder 23/8/2021 |
| 4 | Bangladesh | E | - |  | FP IOC | 25/5/21 | Reminder 23/8/2021 |
| 5 | Barbados | E | X (new 6/2021) | ADU est 2014 but inactive | L. Brewster | 27/5/21 | Contacted Leo Brewster. response 1/6/2021. designated Suckoo and Howell. Asked for training |
| 6 | Belize | E | - |  | FP IOC | 25/5/21 | Response received from Arlene Young, 29/ |
| 7 | Cabo Verde | F | - |  | FP IOC | 26/5/21 | [ambassade-cap-vert@wanadoo.fr](mailto:ambassade-cap-vert@wanadoo.fr) failed  mika provided new name 23/8 – mail sent  1st response received from Carla palavra, ref to Malik Duarte |
| 8 | Congo (Democratic Republic of) | F | - |  | FP IOC | 26/5/21 | Response received Bope –28/6 needs training |
| 9 | Congo (Republic of) | F | - |  |  |  | NO focal point available  Asked Mika for contact 23/8  Mika suggested |
| 10 | Cook Islands | E | - |  | FP IOC | 25/5/21 | [angari@oyster.net.ck](mailto:angari@oyster.net.ck)  returned undeliverable  response from Arona Ngari on 16/7/2021 |
| 11 | Costa Rica | S | - |  | FP IOC | 26/5/21 | Designated Mr Monge (14/6/4021) |
| 12 | Cuba | S | - |  | FP IOC | 26/5 | [marys@acuarionacional.cu](mailto:marys@acuarionacional.cu)  reminder sent 23/8 |
| 13 | Djibouti | F | - |  |  |  | dl.djibouti@unesco.org failed  new contact from mika: M. Mohamed Moussa YABEH  Secrétaire général  Commission nationale de Djibouti pour l'UNESCO  DJIBOUTI  Email: [ahmed\_kamilo@yahoo.fr](mailto:ahmed_kamilo@yahoo.fr); [natcomdjib@gmail.com](mailto:natcomdjib@gmail.com)  **Email sent 23/8** |
| 14 | Dominica | E | - |  | FP IOC | 25/5/21 | hguist@hotmail.com cfra@tod.dm  [cfra@cwdom.dm](mailto:cfra@cwdom.dm) could not be delivered  used additional addresses IOCARIBE  reminder 23/8 |
| 15 | Dominican Republic | S | X (new) |  | FP IOC | 26/5/21 | Added Juan Luis Gonzalez Minaya |
| 16 | El Salvador | S | - |  | FP IOC | 26/5/21 | Reminder 23/8  Francisco José Gavidia Medina [fgavidia@marn.gob.sv](mailto:fgavidia@marn.gob.sv) added tp IODE NCs |
| 17 | Eritrea | E | - |  | FP IOC | 25/5/21 | [natcomeri@yahoo.com](mailto:natcomeri@yahoo.com) could not be delivered  used [weyninatcomeri@gmail.com](mailto:weyninatcomeri@gmail.com) suggested by Mika  reminder 23/8 (natcomeri failed again) |
| 18 | Estonia | E | X |  | IODE NC DM | 25/5/21 | Sent to Urmas Lips. Response received 13/7 from Rene Reisner |
| 19 | Ethiopia | E | - |  | FP IOC | 25/5/21 | [guguye03@yahoo.com](mailto:guguye03@yahoo.com) [ESTC@ethionet.et](mailto:ESTC@ethionet.et) failed  used: Mr. Fekade Desalegn Fetene Deputy Secretary-General Ethiopia National Commission for UNESCO Addis Ababa, Ethiopia Email: [gasay2020@yahoo.com](mailto:gasay2020@yahoo.com)  reminder 23/8 - [guguye03@yahoo.com](mailto:guguye03@yahoo.com) failed ; [ESTC@ethionet.et](mailto:ESTC@ethionet.et)  failed |
| 20 | Fiji | E | - |  |  |  | ???no contact |
| 21 | Finland | E | X | DNA since 1960 but not active | FP IOC + IOC NC DM | 25/5/21 | Response Jari Hapaala 27/5/2021 |
| 22 | Gabon | F | X |  | FP IOC + IODE NC DM | 26/5/21 | Reminder 23/8 |
| 23 | Gambia | E | - |  | FP IOC | 25/5/21 | Reminder 23/8 |
| 24 | Grenada | E | - |  | FP IOC | 25/5/21 | Reminder 23/8 |
| 25 | Guatemala | S | - |  | FP IOC | 26/5/21 | Reminder 23/8 |
| 26 | Guinee-Bissau | F | - |  | FP IOC | 26/5/21 | Reminder 23/8 |
| 27 | Guyana | E | - |  | FP IOC | 25/5/21 | [vipnats@yahoo.com](mailto:vipnats@yahoo.com) failed  reminder 23/8 - [vipnats@yahoo.com](mailto:vipnats@yahoo.com)  failed |
| 28 | Haiti | F | - |  | FP IOC | 26/5/21 | No reminder sent |
| 29 | Honduras | S | - |  | FP IOC | 26/5/21 | Reminder 23/8 |
| 30 | Iceland | E | X | Have ADU at CAFF but no national centre |  |  |  |
| 31 | Jamaica | E | - |  | FP IOC | 25/5/21 | Reminder 23/8  Acknowledgement received 24/8 |
| 32 | Jordan | E | - |  | FP IOC | 25/5/21 | [Science@yu.edu.jo](mailto:Science@yu.edu.jo) [jounesco@orange.jo](mailto:jounesco@orange.jo)  Not delivered  Reminder 23/8 - [Science@yu.edu.jo](mailto:Science@yu.edu.jo)  Failed [jounesco@orange.jo](mailto:jounesco@orange.jo)  failed |
| 33 | Kiribati | E | - |  | FP IOC | 25/5/21 | Reminder 23/8  [mfa@tskl.net.ki (mfa@tskl.net.ki)](mailto:mfa@tskl.net.ki)  failed  mtekanen failed |
| 34 | Korea (Dem Republic of) | E | - | NODC est in 1987 but inactve | FP IOC | 25/5/21 | [ri.kyong.il@undp.org](mailto:ri.kyong.il@undp.org) could not be delivered |
| 35 | Kuwait | E | X |  | FP IOC/ NC DM | 25/5/21 | 1/6/2021 (Faiza Yamani). requesting training in June 2021; I sent her ADU form |
| 36 | Lebanon | E | - |  | FP IOC | 25/5/21 | Reminder 23/8  Response from Milad Fakhry. – expecting more |
| 37 | Libya | E | - |  | FP IOC | 25/5/21 | Want to designate NC and establish NODC (7/6/2021) |
| 38 | Maldives | E | - |  | FP IOC | 25/5/21 | [mlutfi@moe.gov.mv](mailto:mlutfi@moe.gov.mv) could not be delivered  reminder 23/8 - [mlutfi@moe.gov.mv](mailto:mlutfi@moe.gov.mv) not delivered |
| 39 | Malta | E | X |  | FP IOC + IODE NC DM | 25/5/21 | joseph.licari@gov.mt could not be delivered  reminder 23/8 - [joseph.licari@gov.mt](mailto:joseph.licari@gov.mt)  failed  EMAIL RECEIVED 14/9 |
| 40 | Monaco | F | - |  | FP IOC | 26/5/21 | Reminder 23/8 |
| 41 | Montenegro | E | - |  | FP IOC | 25/5/21 | Reminder 23/8  [marija.raznatovic@gov.me](mailto:marija.raznatovic@gov.me)  failed/ [milena.mijajlovic@mrt.gov.me](mailto:milena.mijajlovic@mrt.gov.me)  failed |
| 42 | Morocco | F | - |  | FP IOC | 26/5/21 | Response received from Karim Hilmi 21/6 |
| 43 | Myanmar | E | - |  | FP IOC | 25/5/21 | Reminder 23/8 |
| 44 | Namibia | E | - |  | FP IOC | 25/5/21 | Reminder 23/8 |
| 45 | Nauru | E | - |  | FP IOC | 25/5/21 | michael.aroi@naurugov.nr, [roy.harris@naurugov.nr](mailto:roy.harris@naurugov.nr) did not deliver |
| 46 | New Zealand | E | X |  | FP IOC IODE NC DM | 25/5/21 | Reminder 23/8 |
| 47 | Nicaragua | S | - |  | FP IOC | 26/5/21 | Reminder 23/8 |
| 48 | Niue | E | - |  | FP IOC | 25/5/21 | Richard.Hipa@mail.gov.nu  Janet.Tasmania@mail.gov.nu Did not deliver |
| 49 | Oman | E | X |  | FP IOC | 25/5/21 | Initial response received; formal response expected |
| 50 | Palau | E | - |  | FP IOC | 25/5/21 | Reminder 23/8 |
| 51 | Panama | S | - |  | FP IOC | 26/5/21 | Reminder 23/8  [administrador@amp.gob.pa](mailto:administrador@amp.gob.pa)  failed |
| 52 | Papua New Guinea | E | - |  | FP IOC | 25/5/21 | Reminder 23/8 |
| 53 | Poland | E | X |  | IODE NC DM | 25/5/21 | Wants to establish NODC (9/6/2021) |
| 54 | Portugal | E | X | NODC est 1986, no longer operational | FP IOC IODE NC DM |  | Reminder 23/8/ Luis saidthey are working on it |
| 55 | Qatar | E | X |  | FP IOC | 25/5/21 | Reminder 23/8 |
| 56 | Romania | E | X | Status unclear. DNA 1970 | IODE NC DM | 25/5/21 | Reminder 23/8 |
| 57 | Saint Kitts and Nevis | E | - |  | FP IOC | 25/5/21 | Reminder 23/8 |
| 58 | Saint Lucia | E | - |  | FP IOC | 25/5/21 | [ps@slumaffe.org](mailto:ps@slumaffe.org) could not be delivered  [info@agriculture.govt.lc](mailto:info@agriculture.govt.lc) could not be delivered  no reminder sent |
| 59 | Saint Vincent and the Grenadines | E | - |  | FP IOC | 25/5/21 | [nemosvg@gmail.com](mailto:nemosvg@gmail.com) could not be delivered  reminder 23/8 |
| 60 | Samoa | E | - |  | FP IOC | 25/5/21 |  |
| 61 | Saudi Arabia | E | - |  | FP IOC | 25/5/21 | Reminder 23/8 sent to [falsaaq@kau.edu.sa](mailto:falsaaq@kau.edu.sa) |
| 62 | Sierra Leone | E | - |  |  |  | New contact from mika:  Mr Lahai O. Seisay  Ministry of Fisheries and Marine Resources  7TH FLOOR YOUYI BUILDING, BROOKFIELDS,  FREETOWN SIERRA LEONE  Tel: +232 76379778  Email: [lahaisesay@yahoo.com](mailto:lahaisesay@yahoo.com)  Email sent 23/8 |
| 63 | Singapore | E | - |  | FP IOC | 25/5/21 | Response from Benjamin Wong: need to follow up  ([jamie\_chen@mpa.gov.sg](mailto:jamie_chen@mpa.gov.sg), [TAN\_Lian\_Choo@mfa.gov.sg](mailto:TAN_Lian_Choo@mfa.gov.sg) could not be delivered)  delegation de Singapor ([SG\_Unesco@sgmfa.gov.sg](mailto:SG_Unesco@sgmfa.gov.sg)) could not be delivered |
| 64 | Solomon Islands | E | - |  | FP IOC | 25/5/21 |  |
| 65 | Somalia | E | - |  | FP IOC | 25/5/21 | Reminder 23/8 |
| 66 | Sri Lanka | E | X | NODC est in 1996. no longer operational | FP IOC and IODE NC DM | 25/5/21 | Reminder 23/8 |
| 67 | Sudan | E | - |  | FP IOC | 25/5/21 | [info@ncr.gov.sd](mailto:info@ncr.gov.sd) failed  new email contact from Mika – reminder sent 23/8 |
| 68 | Suriname | E | - |  | FP IOC | 25/5/21 | Reminder 23/8 |
| 69 | Thailand | E | X |  | FP IOC and IODE NC DM | 25/5/21 | Reminder 23/8 |
| 70 | Timor-Leste | E | X |  | FP IOC | 25/5/21 | Reminder 23/8 |
| 71 | Tonga | E | - |  | FP IOC | 25/5/21 |  |
| 72 | Trinidad & Tobago | E | X |  | FP IOC | 25/5/21 | Response paul nerlson 13/7/2021 |
| 73 | Tuvalu | E | - |  | FP IOC | 25/5/21 |  |
| 74 | United Arab Emirates | E | - |  | FP IOC | 25/5/21 | [minister@moccae.gov.ae](mailto:minister@moccae.gov.ae) , [minister@moew.gov.ae](mailto:minister@moew.gov.ae) failed |
| 75 | Uruguay | S | - | NODC est 1986, inactive | FP IOC | 26/5/21 | Reminder 23/8 |
| 76 | Venezuela | S | - | NODC est 1985, inactive | FP IOC | 26/5/21 | [oac@ivic.ve (oac@ivic.ve)](mailto:oac@ivic.ve) failed; [jquintero@mppeuct.gob.ve](mailto:jquintero@mppeuct.gob.ve) failed  reminder 23/8 with new addreses from Patricia.  [ml.medina-carrasco.ve@unesco-delegations.or](mailto:ml.medina-carrasco.ve@unesco-delegations.or)  failed  ssilva failed  added Juan Carrera on 8/9/2021 |
| 77 | Viet Nam | E | X (new 6/2021) |  | FP IOC | 25/5/21 | [haiduong@dng.vnn.vn](mailto:haiduong@dng.vnn.vn) failed  Dr. Dao Viet Ha, the current Director of the Institute of Oceanography, is the chairperson of IOC Viet Nam.  You can contact her by email [daovietha@gmail.com](mailto:daovietha@gmail.com), or by the account of the Institute of Oceanography ([vanthu@vnio.vast.vn](mailto:vanthu@vnio.vast.vn)), or my email [btminhha@gmail.com](mailto:btminhha@gmail.com) (I am now the secretary of IOC Viet Nam). |
| 78 | Yemen | E | - |  | FP IOC | 25/5/21 |  |
|  |  |  |  |  |  |  |  |

Annex V: List of events organized between 1 May 2021 and 1 March 2022

(to be added: will be extracted from the OceanExpert calendar)

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