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IOC/IODE-MG-2022/3
Oostende, 31 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

SUMMARY REPORT

IOC/IODE-MG-2022/3
Oostende, 28 March 2022
Original English



For bibliographic purposes this document should be cited as follows:
Intergovernmental Oceanographic Commission of UNESCO (2022) *2022 Meeting of the IODE Management Group, IOC Project Office for IODE, Oostende, Belgium, 21-22 March 2022* Paris, Unesco/IOC, 61 pp. (Reports of Meetings of Groups of Experts and Equivalent Bodies), (IOC/IODE-MG-2022/3) (English)

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1. 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. He 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. He noted that the DCU had requested to swap agenda items 5.3 and 5.4 so 5.3 would be discussed on day 2.

Dr Sergey 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 Sergey 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. None were proposed.

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

2. 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](#) 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 reviewed the above action items and recommended further actions as needed (see [Annex III](#)).

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**”

The Management Group decided 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](#).

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

3.1. 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](#)),

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:

- (i) established the IOC Ocean Data and Information System Catalogue of Sources Project (ODISCat) in 2019,
- (ii) 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:

- (i) 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;
- (ii) 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;
- (iii) 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:

- (i) Propose the vision, strategy, workplan and timetable for the ODIS Project;
- (ii) Advise on technical aspects;
- (iii) Establish a stakeholder forum to ensure active participation of representatives from ODIS nodes and other contributors;
- (iv) Report to the IOC and to other partners on the progress of the ODIS Project;
- (v) Provide guidance to the project manager and project technical manager;
- (vi) 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](#) that established the IOC Oceanographic Data Exchange Policy in 2003

and [Decision IOC-XXX/7.2.1\(II\)](#) 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:

- (i) create an inventory of existing international, national and organizational data policies,
- (ii) review and compare existing international, national and organizational data policies,
- (iii) develop a glossary with clear definitions (e.g. open vs free and unrestricted; data vs metadata vs information, licence options),
- (iv) investigate the expansion of scope and name of the IOC Oceanographic Data Exchange Policy,
- (v) gather advice from partner/sister organizations and recognized data provider/manager organizations,
- (vi) organize a broad consultation on the proposed revised IOC Ocean Data Policy with Member States, IOC global and regional programmes,
- (vii) 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:

- (i) 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,
- (ii) IOC Resolution XXII-1 which adopted the Guidelines for the Establishment of IOC Decentralized Offices, subsequently published in Document [IOC/INF-1193](#),

Noting with appreciation:

- (i) 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)),
- (ii) 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,
- (iii) 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),
- (iv) 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),
- (v) 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,
- (vi) 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

- (i) the continuation of the IOC Project Office for IODE; and
- (ii) 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.

Mr Taco De Bruin 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"

3.2. 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](#)) 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:

- (i) the IOC Project Office for IODE in Oostende, Belgium be continued,
- (ii) 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 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, expressed its gratitude and stated that the offered support will be very 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.

The Management Group noted 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, including support to assist IODE's role in the Decade.

4. REPORTS OF IODE PROJECTS

This agenda item was introduced by Mr Greg Reed. He referred to Document [IOC/IODE-MG-2022/4](#). 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 of 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.

4.1. AquaDocs

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

The project had been established through Decision IODE-XXVI.8.2: ESTABLISHMENT OF THE AQUADOCS PROJECT at IODE-XXVI (2021). Ms Jennifer Walton, Co-Chair SG -AquaDocs was unable to attend the meeting when this project was discussed. Ms Pauline Simpson, IODE Consultant and AquaDocs SG-AquaDocs Co-Chair intervened briefly. She informed the Management Group that the first [SG-AquaDocs](#) took place on 17 February 2022. A membership of 13 experts has been established and will be posted on the IODE web site shortly.

The Management Group decided to continue the AquaDocs project

4.2. GODAR/WOD

Mr Reed reported that these projects obtained a “satisfactory” score and should continue. Reports were received for both projects. Mr Hernan Garcia was unable to attend the meeting when these projects were discussed.

Mr Tim Boyer, WOD project leader recalled that support will be required to place WOD in the cloud. It was planned to undertake this work in 2021 but it was not possible to find a contractor/consultant. Mr Boyer expressed the desire to continue this work.

The Management Group decided to continue the GODAR and WOD projects.

Further discussion was referred to agenda item 6.2

4.3. 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 (Chair SG-GOSUD) 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. Mr Boyer explained that a second meeting was held on Friday 18 March whereby the SOOPIP (under SOT) have offered to take on the oversight of GOSUD. The second recommendation was to reconstitute the SG-GOSUD. There were some interested parties. The third recommendation was that the new leader of GOSUD should be elected from the SG members.

The Management Group thanked Mr Boyer for his initiative to organize discussions on the future of GOSUD and also expressed its appreciation for the offer by SOOPIP.

The Management Group requested Mr Boyer to take the next steps towards the reconstitution of the SG-GOSUD and instructed the Secretariat to plan for a meeting of the SG as soon as possible.

4.4. GTSP

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

Mr Peter Chu, Chair SG-GTSP reported that the next SG would be held during the week of 28 March to 1 April.

The Management Group decided to continue the GTSP project

4.5. ICAN

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

Ms Tanya Haddad, Co-Chair SG-ICAN informed the Management Group that ICAN has applied for Sea Grant summer scholars and two have been provided. They will start work end of May to mid-August 2022. They will help with tasks related to outreach products (web site, email & social media communications, writing of profiles of ICAN members and projects they work on).

The Management Group decided to continue the ICAN project.

4.6. IQuOD

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

The Management Group decided to continue the IQuOD project.

4.7. ODP

Mr Reed noted that no report had been received for the IODE Ocean Data Portal. 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. He noted that Tobias Spears had left the ODP project after he left his position in Canada. In order to refocus the activities of ODP to ODIS there was a proposal to set up a Partnership Centre for ODIS. A letter was sent to Roshydromet and was requested to submit a proposal. Unfortunately, there was no further response from Roshydromet. He also recommended further discussions with KMFRI (Kenya).

The Management Group decided to consider this issue again at IODE-XXVII.

4.8. OBIS (including training video project and e-DNA project)

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

Mr Ward Appeltans, speaking on behalf of the OBIS was invited to comment. He informed the IODE Management Group that after submitting the project progress report, OBIS published another 14 million records, which means that with 35 million new records in about a year, OBIS published the same amount of records it normally publishes in a decade. OBIS is also pleased to report that Elizabeth Lawrence (Canada) has been recruited (one year consultancy) to support OBIS in the development of training resources thanks to support received from NORAD. Mr Appeltans reported that OBIS was asked to support the GOOS Biology and Ecosystems (BioEco)

panel and with funding from GOOS has developed the GOOS BioEco metadata portal to monitor the status of the biological monitoring system (portal will be launched in 2022). Meetings between OBIS secretariat and the OceanOPS team at Brest are currently taking place to ensure interoperability and delivery of information on the status of the BioEco Essential Ocean Variables observing system, to be incorporated in the annual GOOS report card.

The Management Group recommended closer collaboration between OBIS and OceanOps and the GOOS OCG to manage biodiversity data and metadata, and jointly contribute the coordinated biological ocean observing system.

The Management Group decided to continue the OBIS project.

4.9. OBPS (IODE/GOOS)

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

Jay Pearlman, Co-Chair SG-OBPS, informed the Management Group that the OBPS recognizes the need to facilitate use of best practices in countries with limited infrastructure. OBPS has approved a task team led by SAEON (South Africa) and Ifremer (France) for adapting best practices for use in developing countries. OBPS User Interface software will be updated in the first half of 2022 to improve user access to the repository. The OBPS Workshop VI will be held October 5-18 2022.

The Management Group decided to continue the OBPS project.

4.10. 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 unable to attend. Ms Lucy Scott, project manager provided a brief update. She explained that at present the following nine sources are being integrated into the Ocean InfoHub Knowledge Graph (an update to the seven mentioned in the report).

- AquaDocs; domain: <https://oih.aquadocs.org/aquadocs.json>
- Ocean Best Practices; domain: <https://oih.oceanbestpractices.org/obps.json>
- Marine Training EU; domain: <https://marinetraining.eu/>
- Marine Institute Data Catalogue (1); domain: <http://data.marine.ie>
- OceanExpert UNESCO/IOC Project Office for IODE; domain: <https://oceanexpert.org/>
- Ocean Biodiversity Information System; domain: <https://obis.org>
- Marine Spatial Atlas for the Western Indian Ocean (MASPAWIO) domain: <https://maspawio.net>
- Seadatanet <https://edmerp.seadatanet.org/search> and <https://edmo.seadatanet.org/search>

- INVEMAR <http://portete.invemar.org.co/chm#/>

Work is underway with several other partners to also bring their holdings into the system. She further informed the Management Group that the OceanData-2030 UN Decade programme has been submitted for registration.

The Management Group decided to continue the OIH project

4.11.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. He reported on the continued effort to improve the content of ODISCat and more fit to be used in the OIH. He noted the lack of inputs from Asia and Africa.

The Management Group decided to continue the ODISCat project

This topic was further discussed under agenda item 5.1.

4.12.OceanExpert

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

Ms Sofie De Baenst, OceanExpert project manager noted the emerging collaboration with the Decade expert roster.

The Management Group decided to continue the OceanExpert project.

4.13.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, informed that the courses proposed by the RTCs and STCs are being implemented in close collaboration with the IOC Programmes.

The Management Group decided to continue the OTGA project.

4.14.PacMAN

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

Mr Ward Appeltans, PacMAN project manager, informed the IODE Management Group that since the report was submitted, two successful sampling events have been taking place at the Suva Harbour with support from the Fiji Ports Corporation Limited and we are grateful for their continuous support and assistance. The OBIS secretariat has also started with the development of the decision support tool. A first training course (focus on scientific research) will be developed in the coming months and be held in collaboration with OTGA second half of 2022.

The Management Group decided to continue the PacMAN project

4.15.IODE QMF

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

Mr Reed, QMF project manager, provided additional comments. He noted that there has been slow uptake with no new requests for accreditation. He noted further that we have organized a QMF course every 2 years, but nothing is being planned now.

Mr Taco De Bruin noted that the CoreTrustSeal (<https://www.coretrustseal.org>) is now often preferred over the IODE QMF and he invited comments on this issue from the management group. He noted that several IODE data centres have applied for CoreTrustSeal accreditation.

Mr Reed noted that if a data centre has been accredited under CoreTrustSeal then this can automatically lead to IODE accreditation. He added that there is a cost (for first accreditation and then a renewal every 3 years) for CoreTrustSeal accreditation which will be an issue for developing countries. Therefore if CoreTrustSeal would be chosen over QMF as the preferred system then IODE may need to sponsor some developing country data centres. Mr Reed noted that CoreTrustSeal and the IODE QMF accreditation are compatible.

The Management Group recommended that IODE data centres can either apply for CoreTrustSeal accreditation - which will then (automatically) lead also to IODE accreditation - , or they can follow the IODE QMF accreditation process.

The Management Group requested Mr Reed to prepare a comparison table between the two accreditation mechanisms.

The Management Group decided to continue the QMF project.

4.16. 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:

- (i) to continue ODINs as IODE projects,
- (ii) to link ODINs more closely to IOC regional subsidiary bodies (IOCARIBE, IOCAFRICA, IOCINDIO, WESTPAC),
- (iii) to continue the governance of ODINs fully as IODE projects in cases where no IOC subsidiary body exists,
- (iv) that ODINs are encouraged to collaborate with and strengthen the regional implementation of IODE projects (e.g., OBIS, OTGA, OIH),
- (v) 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 inter-sessional working group. He noted that progress has been slow. Few of the regional bodies have designated members. The first meeting is expected by end of April 2022. An online meeting on the re-activation of ODINAFRICA is expected to be held by 25 March 2022. Discussions can then be held prior to the meeting end of April 2022.

The Management Group decided to continue discussion of this item at IODE-XXVII.

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

4.16.1 ODINBlackSea

Mr Oleksandr Neprokin, who took over from Mr Elge as Chair of the SG-ODINBlackSea was unable to participate in the meeting.

The Management Group decided to review this project at IODE-XXVII.

4.16.2 ODINECET

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

The Management Group recommended that the ODINECET project should be closed and referred the decision to IODE-XXVII.

4.16.3 ODINAFRICA

Mr Odido was invited to briefly report on activities carried out through ODINAFRICA. Mr Odido reiterated that a meeting on ODINAFRICA would be held during an online meeting during the week of 21-25 March. Mr Odido reported that IOCAFRICA has focused on the re-activation of the ODINAFRICA network to support the development of the African regional node for OIH. The African Coastal and Marine Atlas has been migrated to new Geonode software and training provided to ACMA administrators and users. ACMA will be further developed in 2022 to incorporate ODIS-arch specifications and link to OIH. Other products developed include a portal of ocean training opportunities in the region (with support from NORAD), a portal for ocean related careers, updates of African records in OceanExpert, and collection of information for development of databases of marine related projects in Africa, Ocean observation platforms in the region, and marine related policy/legislation. An online ODINAFRICA workshop planned for 23-24 March 2022 will deliberate on the new focus and direction for ODINAFRICA, including support for OIH, collaboration with IOC global programmes and coordination mechanisms that will strengthen the network.

The Management Group decided to continue the ODINAFRICA project

4.16.4 ODINCARSA

Mr Troisi was invited to briefly report on activities carried out through ODINCARSA. Activities were linked mainly to OIH and OTGA2. Strong links have been established by IOCARIBE. Following the recent retirement of Cesar Toro new relationships will need to be established.

The Management Group decided to continue the ODINCARSA project.

4.16.5 ODINWESTPAC

Ms Yu Ting was invited to briefly report on activities carried out through ODINWESTPAC. She noted that ODINWESTPAC is proceeding well. Speaking on behalf of Dr. Shi Suixiang, the Project coordinator, Ms Yu Ting reported that despite the disruptions brought by COVID-19, ODINWESTPAC is running smoothly. She mentioned a well-functioning ODINWESTPAC webportal and reported that the 2021 *ad hoc* meeting of ODINWESTPAC took place online in October 2021. The meeting was designed to address the regional needs for marine data and information cooperation and to provide a chance for facilitating the regional communication on better linking ODINWESTPAC with the IOC/WESTPAC. We heard the strong willingness for enhancing collaboration under the UN Ocean Decade from the member states. Ms Yu Ting

expressed the desire to make ODINWESTPAC a platform for bridging the big vision of UN Decade with concrete actions together with all the partners in the WESTPAC region.

The Management Group decided to continue the ODINWESTPAC project.

4.16.6 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. He invited Mr Uday to facilitate improved collaboration with IOCINDIO.

Mr Troisi added that, following IOC-31 and IWG on Indian Ocean he recommended to include this matter as part of the objectives of the new sub-commission. He recommended that Mr Ahanhanzo should be approached for this. Importance of D&I management should be included in the discussions.

The Management Group requested the IODE Co-Chairs to contact the IOC Secretariat (Mr Ahanhanzo) to ensure the inclusion of data and information management and networking in the terms of reference of the new sub-commission.

4.16.7 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 welcomed the activities of IODE in the Pacific SIDS noting that IOC and its IODE were inactive in that region in the past, and has responded actively to repeated requests by IOC SIDS member states in the Pacific.

5. STRATEGIC ISSUES

5.1. 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:

- (i) 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;

- (ii) 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;
- (iii) 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:

- (i) Representatives from IOC Programmes;
- (ii) Project Manager;
- (iii) Project Technical Manager;
- (iv) Invited Experts;
- (v) Representatives of major stakeholder (user) groups including regional/international organizations;
- (vi) Representative of the IODE Secretariat;
- (vii) Representative of the Decade Coordination Unit.

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

- (i) Propose the vision, strategy, work plan and timetable for the ODIS Project;
- (ii) Advise on technical aspects;
- (iii) Establish a stakeholder forum to ensure active participation of representatives from ODIS nodes and other contributors;
- (iv) Report to the IOC and to other partners on the progress of the ODIS Project;
- (v) Provide guidance to the project manager and project technical manager;
- (vi) 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 decided to continue its efforts on the development of an Ocean Data and Information System.

5.2. 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 been 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.

Dr Garcia encouraged to take advantage of the momentum of the conference and to publish the planned "Declaration". Mr Appeltans welcomed the success of the conference and recommended that the hybrid mechanism should be repeated. He worried about the funding and the staff time required to organize the conference so he called for projects that can fund such a conference. Dr Pearlman thanked Mr De Bruin for the chairing of the conference.

The Management Group expressed its strong appreciation to the IODE team that had prepared for the conference, jointly with the team in Sopot.

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 that the second "International Ocean Data Conference 2022 - The Data We Need for the Ocean We Want" should be held back-to-back with the 27th Session of the IODE Committee (2.5 days prior to the IODE Committee meeting).

The Management Group invited the host of IODE-XXVII (see agenda item 7.1) to extend their invitation to include the Data Conference hosting.

5.3. Role of IODE in the UN Decade

5.3.1 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](#) (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:

- (i) 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;
- (ii) collaborate and coordinate with the Decade Coordination Unit (DCU) to identify gaps and scope;
- (iii) 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:

- (i) IWG Lead (to be designated by the IWG),
- (ii) members of the IODE community
- (iii) invited Experts from the global ocean data and information communities
- (iv) members of the IODE Secretariat
- (v) 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. He informed the Management Group that the intention was now to include the outcomes of the Data Conference with the document prepared by the IWG-SODIS. He further noted that he is a member of the Decade data coordination group (DCG) which enables promotion of IODE within the Decade.

The Management Group recommended to have a stronger impetus and input in the DCG.

The Management Group instructed the IODE Secretariat to submit [Document IOC/IODE-MG-2021/5.1](#) (Proposed Data and Information Strategy for the Ocean Decade), prepared by the IWG-SODIS, to the DCG and invite it to use the document as a reference to minimize duplication of effort.

Mr Terry McConnell and Mr Louis Demargne welcomed the document for discussion by the DCG and stated that these will be very useful, together with the outcomes of the Data Conference.

Noting that the IODE Intersessional Working Group (IWG) to identify the IODE contribution to the UN Decade of Ocean Science for Sustainable Development (2021-2030) has not started its work **the Management Group urged** the members already identified to start discussions. In this regard **the Management Group requested** the IODE Secretariat to contact the current membership to start discussions.

The Management Group recommended that the IODE Intersessional Working Group (IWG) to identify the IODE contribution to the UN Decade of Ocean Science for Sustainable Development (2021-2030) is renewed by IODE-XXVII for another inter-sessional period.

5.3.2 Submitted IODE decade actions

Mr Taco De Bruin 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](#) (Ward Appeltans)
- [Ocean Practices for the Decade](#) (Peter Pissierssens on behalf of OBPS)
- [OceanTeacher Global Academy: Building Capacity and Accelerated Technology Transfer for the Ocean Decade](#) (Claudia Delgado, Greg Reed, Sofie De Baenst)
- [Pacific Islands Marine Bioinvasions Alert Network \(PacMAN\)](#) (Ward Appeltans, Pieter Provoost)
- OceanData-2030 (Lucy Scott)

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](#) (Hernan Garcia, United States)
- [CoastPredict - Observing and Predicting the Global Coastal Ocean](#) (Nadia Pinardi, Italy)
- Ocean Observing Co-Design: evolving ocean observing for a sustainable future
- <https://www.oceandecade.org/actions/ocean-observing-co-design-evolving-ocean-observing->

[for-a-sustainable-future/](#)

- Marine Life 2030: <https://www.oceandecade.org/actions/marine-life-2030-a-global-integrated-marine-biodiversity-information-management-and-forecasting-system-for-sustainable-development-and-conservation/>

Mr De Bruin 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.

The Management Goup 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 requested the DCU to keep the IODE Secretariat updated on any funding opportunities for the submitted actions and **instructed** the IODE Secretariat to update the Management Group on progress in this regard.

5.3.3 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):

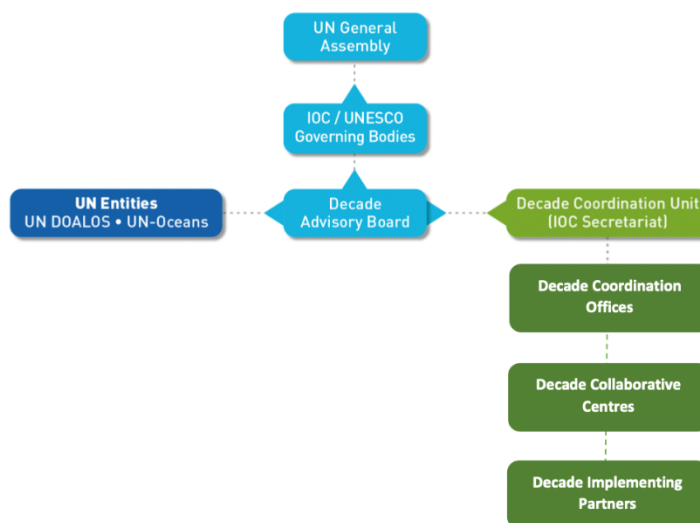


Figure 2: Ocean Decade Governance and Coordination Structures

The 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 Sergey 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 Sergey Belov then provided a brief introduction on the proposal and costing. He informed the Management Group that the DCO should have 3 staff (1 P-4 professional staff, 1 P-3 professional staff and 1 G-2 administrative staff). The total cost for 5 years (staff and operations) would be US\$ 3,350,000 or US\$ 670,000/year.

Mr Taco De Bruin noted that there should be one DCO per Decade challenge.

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

The Management Group was informed by the DCU representatives that proposals can be accepted without firm resource commitments. It is understood that the DCO will only commence operations if resources have been assured.

The Management Group approved the proposal and decided to submit the proposal to the DCU on behalf of IODE for endorsement.

The Management Group urged Member States and other donors to support the DCO proposal.

5.4. 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-XXVI 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 Group decided that no further action is required on this matter.

5.5. Revision of the IOC Oceanographic Data Exchange Policy

This agenda item was introduced by Mr Taco De Bruin. 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:

- (i) Create an inventory of existing international, national and organizational data policies,
- (ii) Review and compare existing international, national and organizational data policies
- (iii) Develop a glossary with clear definitions (e.g., open vs free and unrestricted; data vs metadata vs information, licence options),
- (iv) Investigate the expansion of scope and name of the IOC Oceanographic Data Exchange Policy,
- (v) Gather advice from partner/sister organizations and recognized data provider/manager organizations,
- (vi) Organize a broad consultation on the proposed revised IOC Ocean Data Policy with Member States, IOC global and regional programmes,
- (vii) 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:

- (i) Chair of the working group (to be designated by the group)
- (ii) Invited experts from the global data and information communities including UN agencies
- (iii) Representatives of IOC programmes and projects
- (iv) 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.

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

- (i) Create an inventory of existing international, national and organizational data policies,
- (ii) Review and compare existing international, national and organizational data policies
- (iii) Develop a glossary with clear definitions (e.g., open vs free and unrestricted; data vs metadata vs information, licence options),
- (iv) Investigate the expansion of scope and name of the IOC Oceanographic Data Exchange Policy,
- (v) 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 \(IOC, UN, non-UN\)\)](#).

To start Part 2 it was decided to reconfigure the working group and populate it 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 had 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 and others participating online. The aforementioned document IOC/IWG-DATAPOLICY-I/5.5 will be made available prior to the meeting. After the first meeting, members of the group will draft a first version of the new policy.
- 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 designated Dr Hernan Garcia to join the IWG-DATAPOLICY.

The DCG representatives expressed interest in joining the IWG-DATAPOLICY and will discuss this matter with the IOC Executive Secretary and DCU.

The Management Group stressed the importance of IODE project and community involvement in the drafting and consultation process and **asked** Mr De Bruin, Dr Garcia and IODE Secretariat to ensure this consultation process.

Noting that such an “internal” consultation process is not included in the steps defined, the IODE Management Group **requested** that the IODE designated members of the Group request the inclusion of this consultation in the process.

5.6. 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](#): 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 for them to designate IODE national coordinators data management and/or to establish NODCs or ADUs.

6. REVISED WORK PLAN AND BUDGET 2022-2023

6.1. 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 projects 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 urged Member States to provide in-kind (from their usual place of work) or on-site secondments of staff to assist the IODE Secretariat.

6.2. 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 GTSP, 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.

Mr Louis Demargne noted that the DCU can be a matchmaker between the submitted proposed actions and potential funding institutions. This is on the DCU agenda.

The Management Group requested guidelines on possible funding mechanisms that enable IOC to receive funds.

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

The Management Group, recalling discussions under agenda item 2, noted that funds could not be allocated from the UNESCO Regular Programme for the redesign of the IODE web site, and **requested** to cover this with residual Project Office funds, if available, conditional upon approval by VLIZ and the Government of Flanders.

The revised work plan is included as [Annex V](#)

6.3. New initiatives

6.3.1 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 welcomed the proposed involvement of IODE in MARCO-BOLO.

7. PLANNING FOR IODE-XXVII

7.1. 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). Reference was made also to agenda item 5.2 regarding the Conference.

Mr De Bruin informed the Management Group that he is investigating the possibility to host the IODE Session and Data Conference in The Netherlands in February/March 2023. He noted that a few possible venues have been identified but cost needs to be further investigated together with funding options. He noted that a more detailed cost plan will be available by 25 March. It was noted that the Conference will be organized as a hybrid event. He invited the Management Group to advise on the possible holding of the IODE Session as a hybrid meeting as well (see also discussions under agenda item 5.2). It was noted that this will enable wider participation by LIFDC Member States. Nevertheless, it was remarked that time zones will create difficulties for participants who participate online.

The Management Group welcomed and expressed its gratitude for the provisional offer by The Netherlands to host the Data Conference and IODE Session in Amsterdam.

The Management Group requested the Secretariat to prepare the provisional agenda for IODE-XXVII by October 2022 and share it with the Management Group for review and approval.

7.2. 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.

7.3. 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.

8. ANY OTHER BUSINESS

No additional issues were discussed.

9. 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.

10. CLOSING OF THE MEETING

The Meeting was closed by Dr Sergey Belov and Mr Taco De Bruin on 22 March at 16h00 CET. In their closing words they thanked members of the Group for their participation.

ANNEX 1. AGENDA

- 1. OPENING OF THE MEETING/ ADOPTION OF AGENDA AND TIMETABLE**
- 2. REVIEW OF THE IODE-XXVI ACTION SHEET**
- 3. MATTERS ARISEN SINCE IODE-XXVI THAT REQUIRE ACTION BY THE MANAGEMENT GROUP**
 - 3.1 Outcome of IOC-XXXI
 - 3.2 Renewal of the IOC-VLIZ MoU: changes
- 4. REPORTS OF IODE PROJECTS**
 - 4.1 AquaDocs
 - 4.2 GODAR/ WOD
 - 4.3 GOSUD
 - 4.4 GTSP
 - 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)
 - 4.12 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
- 5. STRATEGIC ISSUES part 1**
 - 5.1 Ocean Data and Information System
 - 5.2 Outcome of the data conference
 - 5.3 Role of IODE in the UN Decade
 - 5.3.1 IWG-SODIS
 - 5.3.2 Submitted IODE decade actions
 - 5.3.3 Submission of IODE DCO proposal
 - 5.4 Revision of the IOC Strategic plan for Oceanographic Data and Information Management (status of the IWG – Decision IODE-XXVI.6.3)
 - 5.5 Revision of the IOC Oceanographic Data Exchange Policy
 - 5.6 New NODCs, Accredited NODCs, ADUs, AIUs since IODE-XXVI

6. REVISED WORK PLAN AND BUDGET 2022-2023

- 6.1 Overview of revenue 2022-2023
- 6.2 Revision of work plan and budget 2022 (and preliminary version for 2023, pre-IODE-XXVII)
- 6.3 New initiatives
 - 6.3.1 MARCO-BOLO, new EU proposal

7. PLANNING FOR IODE-XXVII

- 7.1 Candidate hosts, dates
- 7.2 Required administrative and practical arrangements for IODE-XXVII
- 7.3 Election of new IODE Co-Chairs at IODE-XXVII

8. ANY OTHER BUSINESS

9. ADOPTION OF THE REPORT

10. CLOSING OF THE MEETING

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Annex III: IODE-XXVI Updated Action Sheet

Last update: 21 March 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 [<i>GDACS</i>] 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	IODE participated in JCB meetings. Communication has been established with WMO regarding WIS2.0 for ODIS. In 2/2022 we participated in 1 st JCB with new composition. Full reporting will be shared at a later date when available.
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	See 25
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	Mr Lambert informed the MG that he worked with C. Munoz on this matter. A review has been made of ODISCat content regarding EOVs, and where data has come from/flows to. Extensive cleanup and QC has been undertaken. There is very limited content from Asia and Africa. Linkages with OIH have been tightened. There was a DG meeting end of 2021. No Chair has been designated yet. Another SG meeting is planned for end of 2022. Invitation to join the SG remains.

33	<p>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</p>	n/a	<p>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)</p>	<p>DONE Contact was made with both countries but no action was taken to establish NODC or ADU (see also Annex IV)</p>
41	<p>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</p> <ul style="list-style-type: none"> • 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	<p>Inter-sessional working group on the review of NODC health status within the IODE network</p>	<p>(i) Dr Lesley Rickards (UK)volunteered to undertake the revision of M&G5 Mr Pissierssens reported that Ms Rickards is working on this and will send a first draft by end of March.</p> <p>(ii) Mr Reed reported that MG67 has been completed and published.</p> <p>(iii) no progress It was decided to refer this to agenda item 8.</p>
42	<p>The Committee instructed the Secretariat to publish and circulate the documents subsequent to their approval by the IODE Management Group.</p>	Feb 2022	Secretariat	n/a
48	<p>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.</p>	asap	Secretariat	<p>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.</p>
56	<p>The Committee called on the IODE NODCs, ADUs and AIUs to apply for accreditation</p>	2021-2022	IODE NODCs, ADUs and AIUs	<p>No new applications received in 2020 and 2021 (and by March</p>

				2022). In this regard the MG requested that AIUs can be included in the accreditation process and associated procedures.
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. The MG decided to discuss this under agenda item 4
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. The MG decided to discuss this under agenda item 4
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 new partnerships were reported except under the Decade (see agenda item 5.3.3). Ms Delgado reported that OTGA is working actively to develop training courses in their programme.
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	Mr Appeltans informed the MG that we have published first Global HAB statstu report in June 2021 and we launched new data portal combining OBIS HAB data and HAEDAT data.
80	The Committee welcomed the continued and expanding cooperation of IODE with the ocean	2021–2022	IODE experts/ IODE data centres	No progress reported

	acidification activities of the IOC Ocean Sciences Section programme and urged IODE experts and IODE data centres to actively participate in the programme.			Mr Provoost informed the MG that the data upload portal is operational and being supported by the IODE secretariat. The portal was presented during the SDG 14.3.1 indicator workshop on 12 – 13 April 2021. We are also setting up an ERDAPP server to integrate data from other systems such as ICOS and GLODAP. Ms Delgado informed the MG that a TC was being held between 21/2–10/4 for Pacific island states on OA.
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 UNDER AGENDA ITEM 6
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	SEE 99
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	2021-2022	IODE Co-Chairs	Mr Taco De Bruin reported that this was challenging in view of

	IODE Co-Chairs to establish contact with the Decade Action leads.			the large number of decade actions (100s). This will be discussed under agenda item 5.3.3
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	See agenda item 5.3.3
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. The MG re-iterated the IODE Committee request to the 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 (for ODIS). The MG invited other MS to follow this example
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	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 that 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 (with guidance from IOC FAG (which is studying this matter) and IOC Officers). This will also be helpful for reporting to donors
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	2022	IODE Management Group (Jan 2022)	SEE 194

	societal value and requested the IODE Management Group to study this issue			
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 This will be discuss further under 5.2 and 7. The MG requested that the IODE Co-Chairs contact IMDIS organizers to ensure the timing for IMDIS and ODC is not scheduled the same year.
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	The MG recalled that many member states expressed their strong appreciation for the activities of IODE (programme with 4 th largest number of interventions).

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. See agenda item 4.7
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	See agenda item 4.1
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	See agenda item 4.11
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	Lang uage	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 failed mika provided new name 23/8 - mail sent 1 st 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 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 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 ; natcomdjib@gmail.com Email sent 23/8
14	Dominica	E	-		FP IOC	25/5/21	hguist@hotmail.com cfa@tod.dm cfa@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 added tp IODE NCs
17	Eritrea	E	-		FP IOC	25/5/21	natcomeri@yahoo.com could not be delivered used 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 ESTC@ethionet.et failed used: Mr. Fekade Desalegn Fetene Deputy Secretary-General Ethiopia National Commission for UNESCO Addis Ababa, Ethiopia Email: gasay2020@yahoo.com reminder 23/8 - guguye03@yahoo.com failed ; 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 failed reminder 23/8 - 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 jounesco@orange.jo Not delivered Reminder 23/8 - Science@yu.edu.jo Failed jounesco@orange.jo failed
33	Kiribati	E	-		FP IOC	25/5/21	Reminder 23/8 mfa@tskl.net.ki (mfa@tskl.net.ki) failed mtekanen failed
34	Korea (Dem Republic of)	E	-	NODC est in 1987 but inactive	FP IOC	25/5/21	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 could not be delivered reminder 23/8 - 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 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 failed/ 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.aro@naurugov.nr , 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 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 said they 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 could not be delivered 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 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
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: lahaisay@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 , TAN Lian Choo@mfa.gov.sg could not be delivered) delegation de Singapour (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 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 , 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) failed; jquintero@mppeuct.gob.ve failed reminder 23/8 with new addresses from Patricia.

							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 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 , or by the account of the Institute of Oceanography (vanthu@vnio.vast.vn), or my email btminhha@gmail.com (I am now the secretary of IOC Viet Nam).
78	Yemen	E	-		FP IOC	25/5/21	

ANNEX V: REVISED WORK PLAN AND BUDGET FOR 2022

PROJECT/ACTIVITY	TIMING	IODE26 RP	IODE26 PO	MG REV RP	MG REV PROJECT OFFICE (PO)	comments
<u>IODE GLOBAL PROJECTS</u>						
GOSUD		0	0	0	0	
GODAR data digitization, Contract, meeting	to be decided	5,250	0	5,000	0	reduced
Global Temperature and Salinity Profile Programme (GTSP)						
SG-GTSP meeting and user group workshop	to be decided	14,000	0	0	0	online
International Coastal Atlas Network project (ICAN)						
SG-ICAN meeting and workshop	to be decided	0	0	0	0	online
expert travel	Jan- December	7,000	0	5,000	0	reduced
International Quality Controlled Database project (IQuOD)						
SG-IQUOD meeting	to be decided	0	0	0	0	online
Support for AWS cloud computing	jan- december	0	3,000	0	3,000	
Ocean Best Practices System (OBPS) (shared with GOOS 50/50) NOTE THIS DOES NOT MEAN THAT EVERY AMOUNT IN THIS TABLE IS DOUBLED						
SG annual meeting	December	0	6,000	0	0	online
OBPS annual workshop	October	0	0	0	0	
SG monthly meetings	Jan- December	0	0	0	0	online
OBPS operational expenses	Jan- December	14,000	0	14,000	0	
OBPS staff cost	Jan- December	0	0	0	0	from JERICO-S3 EU project
OBPS advocacy material	Jan- December	0	3,000	0	0	cancelled
Repository certification	Jan- December	0	1,000	1,000	0	

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AWS expenses	Jan-December	0	2,300	0	2,300	
Ocean Biodiversity Information System (OBIS)						
OBIS manager cost (W. Appeltans)	Jan-December	0	0	0	0	RP staff cost
OBIS database manager cost (P.Provoost)	Jan-December	0	0	0		exb project funded
OBIS scientific manager cost (S. Suominen)	Jan-December	0	0	0		exb project funded
GOOS Bio-eco data manager (S. Van Der Wal)	Jan-December	0	0	0		exb project funded via VLIZ contract
Genetic data task team workshop, Oostende	cancelled	0	0	0	0	cancelled
OBIS CD contract consultant (new)	Mar-February	0	0	0		exb project funded
SG-OBIS meeting	November	21,000	0	5,000	10,000	REDUCED -Hybrid?
OceanDataPortal	jan-december	0	0	0	0	
OceanExpert						
OE development for OIH	n/a	0	0	0	0	
SG-OE meeting (online)	Jan-December	0	0	0	0	
QMF		0	0	0	0	
World Ocean Database (WOD)						
Setting up WODB Cloud (development)	n/a	0	0	0	0	
ODISCat						
Improvements ODISCat for OIH (contract)	n/a	0	0	0	0	
SG-ODISCat	online	0	0	0	0	online
NEW PROJECTS						
AquaDocs						
Outsourced hosting and maintenance	Jan-December	0	21,741	0	0	Already paid until Sep 2022. Costs for 2022/23 requires further discussions
Participation in meetings	Jan-December	2,100	0	2,000	0	
Advocacy materials	Jan-December	0	0	0	0	
SG-AquaDocs (new element)	to be decided	0	0	0	0	online

Ocean Data and Information System (ODIS)						
Development cost	tbd	0	0	0		(through OIH)
SG-ODIS	tbc	14,000	0	5,000	3,000	hybrid
OIH Africa – database of training opportunities	c/f from 2021	0	0	0		NORAD funded
Development of 50 short tutorials relevant to OBIS topics	2022	0	0	0		NORAD funded
Establishment of new nodes in the Ocean Data and Information System, supported by the Ocean InfoHub Project	2022	0	0	0		NORAD funded
FUST PROJECTS						
Ocean InfoHub (*)						
Project manager costs	Jan-December	0	0	0		exb project funded
Operational expenses	Jan-December	0	0	0		exb project funded
Technical working group meetings	monthly	0	0	0		exb project funded
SG-OIH meeting	October	0	0	0		exb project funded
EuROcean development costs (also ODIS)		0	0	0		exb project funded
OceanTeacher Global Academy project (*)						
Operational expenses	Jan-December	0	0	0		exb project funded
OTGA project manager costs (Claudia)	Jan-December	0	0	0		VLIZ secondment
OTGA training consultant	Jan-December	0	0	0		exb project funded
SG-OTGA meeting	tbd	0	0	0		exb project funded
Update advocacy material	Jan-December	0	0	0		exb project funded
ISO Certification as LSP for RTC Europe (PO)	March	0	3,000	0	3,930	PO 2021 leftover budget - will need to be from OTGA in 2023
Training courses RTC Europe (PO) provisional	Jan-December	0	80,000		30,000	can be financed from PO leftover
PacMAN project (*)						
Operational expenses	Jan-December	0	0	0	0	exb project funded
PacMAN staff cost (P. Provoost - see also OBIS)	Jan-December	0	0	0	0	exb project funded
SG-PacMAN	to be decided	0	0	0	0	exb project funded
eDNA expeditions in WHS						

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Operational expenses	Jan-December	0	0	0	0	exb project funded
eDNA staff cost	Jan-December	0	0	0	0	exb project funded
OTGA alumni SSA	february-may	0	0	0	0	exb project funded
<u>REGIONAL PROJECTS</u>						
ODINAFRICA						
Development of ODINAFRICA follow-up project - 3 virtual meetings (simultaneous interpretation), face-to-face meeting for SG	??	0	0	0	0	
Consultant costs	n/a	0	0	0	0	
OIH regional activities	Jan-December	0	0	0	0	in OIH
ODINBLACKSEA						
SG meeting	??	0	10,000	0	0	online
OBIS training and data mobilization event	??	0	20,000	0	0	online
ODINCARSA-LA						
Training activities	Jan-December	0	18,000	0	0	online
OIH regional activities	Jan-December	0	10,000	0	0	in OIH
ODINWESTPAC						
Second ODINWESTPAC Advisory Group Meeting, Tianjin	to be decided	0	0	0	0	local host
AD HOC ODINWESTPAC meeting	n/a	0	0	0	0	local host
IODE SECRETARIAT/MANAGEMENT						
IODE Manager costs (P. Pissierssens)	Jan-December	0	0	0	0	RP COST
IODE Secretariat admin manager costs (K. de Lichtervelde)	Jan-December	0	0	0	0	VLIZ secondment
IODE Project office IT manager (A. Lambert)	Jan-December	0	0	0	0	VLIZ secondment
IODE Secretariat admin assistant costs (S. De Baenst)	Jan-December	0	0	0	0	exb project funded
IODE Staff travel	Jan-December	10,000	0	10,000	0	(provisional)
IODE Project Office project related IT and other expenses (P-CARD)	Jan-December	0	0	5,700	0	new item
IODE UNESCO HQ admin costs	Jan-December	0	0	4,000	0	new item
IODE Management Group meeting	March 21-22	0	0	0	0	online

IODE IWG data policy	Jan-December	0	0	0	0	online
IODE IWG D&IM strategy	Jan-December	0	0	0	0	online
IODE IWG IODE contribution to UN decade	Jan-December	0	0	0	0	online
IODE IWG future of ODINs	Jan-December	0	0	0	0	online
IODE domain registration costs		0	0	0	0	under secretariat P -card
IODE international data conference						
Planning committee meeting	n/a	0	0	0	0	online
Scientific committee meeting	n/a	0	0	0	0	online
Local planning committee meeting	January-February	0	0	0	0	online/on site
Conference, Sopot, Poland staff participation	January-February	0	0	4,381	0	already spent (was under staff travel)
IODE PO general costs for running projects and meetings						
Registrations (Zoom licence, GITHUB, MailChimp, WebSitePulse, PDF Buddy, DigitalOcean, SurveyMonkey, Wufoo, TUDelft-DOIs, Microsoft licences ...)					9,563	PO 2021 leftover budget - needs solution for 2023
Water (Culligan), coffee, ...					831	PO 2021 leftover budget - needs solution for 2023 unless included in "rent"
Participation in mail services (invoice VLIZ to PO)					179	PO 2021 leftover budget - needs solution for 2023
Dropbox service					2,121	PO 2021 leftover budget - needs solution for 2023
Investments						
computers and other equipment		0	0	0	0	no new computer purchases in 2022 unless funded from exb sources
Consumables						
(paper, toner, small equipment and supplies)		0	0	0	5,000	PO 2021 leftover budget - needs solution for 2023
HQ communication tax		0	0	5,000	0	new item 2/2022
TOTAL EXPENDITURE in USD		87,350	178,041	66,081	69,923	
available in USD				70000	70312.5	
BALANCE in USD				3,919	390	

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