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Oostende, 18 March 2025

Original: English

**INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION**

**(of UNESCO)**

**Twenty-eighth Session of the IOC Committee on International Oceanographic Data and Information Exchange (IODE-28)**

**12-14 March 2025**

**ADOPTED DECISIONS AND RECOMMENDATIONS**

**Decisions**

[Decision 3.4.1.2](#dec3412) Restructuring the ODIS Programme Activities

[Decision IODE-28/6.2.6](#dec626) Establishment of an IODE Inter-sessional Working Group to Enact a Rapid Response Mechanism for Emerging Issues

**Recommendations**

[Recommendation IODE-28/3.4.1.2](#rec3412) Revision of the Terms of Reference of the Ocean Data and Information System (ODIS)

[Recommendation IODE-28/6.2.5](#rec625) Advancing Ocean Data Sharing for Sustainable Development in areas within national jurisdiction

[Recommendation IODE-28/6.3](#rec63) The UNESCO/IOC Project Office for IODE in Oostende, Belgium

[Recommendation IODE-28/8.4](#rec84) IODE Workplan and Budget 2025-2026

**DECISIONS**

**Decision IODE-28/3.4.1.2**

**Restructuring the ODIS Programme Activities**

**Recognizing** the call for global, harmonized data layers and products from the Vision 2030 Process of the United Nations Decade of Ocean Science for Sustainable Development (<https://oceandecade.org/vision-2030/>, esp. White Paper 8),

**Recognizing** the call for greater, data-centric collaboration and collective action across existing ODIS Programme Activities, expressed at the first joint meeting of IQuOD/SOOPIP/GTSPP/XBT (Bologna, November 2024),

**Recognizing further** the emerging framework for improved digital coordination between IOC components via a proposed IOC Digital Architecture which, inter alia, enhances data flow across ODIS to GOOS EOV data products and services,

**Recognizing** that disciplinary expertise is currently scattered across existing ODIS Programme Activities and a new structure should focus on shared data themes (e.g. physics, biodiversity, socio-economics) and delivery to stakeholders,

**Decides** to convene an intersessional working group (IWG) to propose a restructuring of ODIS Programme Activities: The IWG for Ocean Data and Information System Activities (IWG ODIS-Act). The initial members of this IWG will include representatives of the ODIS Steering Group and the ODIS Programme Activity Steering Groups. The ODIS Steering Group will draft the terms of reference for the IWG ODIS-Act,

**Invites** nominations for the IWG ODIS-Act from IODE Committee Members.

**Decision IODE-28/6.2.6**

**Establishment of an IODE Inter-sessional Working Group to Enact a Rapid Response Mechanism for Emerging Issues**

The IOC Committee on International Oceanographic Data and Information Exchange,

**Recognizing** the global digital arena is under constant and rapid change, presenting time-sensitive opportunities and threats to ocean data that the IODE must respond to,

**Noting** the need for IODE to respond in a coordinated, structured, timely, and appropriate manner to emerging issues including, *inter alia*, new Artificial Intelligence capacities, cybersecurity challenges, regulatory frameworks and data persistence/rescue,

**Recalling** that IODE is developing deeper socio-technical coordination within and between its Programme Components and Programme Activities, and with other IOC-led programmes, including:

* Co-development of an IOC Data Architecture,
* Improved observability of IODE and external digital assets via the Ocean Data and Information System (ODIS),
* The development of a Biology and Ecosystems Portal for the coordination of GOOS Essential Ocean Variable data,
* The creation of targeted training resources to inform and educate about ocean data in response to global and regional demands, and
* Coordinated mechanisms to access and actionate data experts and institutions worldwide.

**Further recalling** the IODE Programme Components and Programme Activities are identifying, rapidly developing, and at times implementing internal solutions to emerging issues, rather than as a coordinated whole,

**Decides** to establish an inter-sessional Working Group to Enact a Rapid Response Mechanism for Emerging Issues (IWG-RRM) with the Objectives attached as Annex A of this Decision and Terms of Reference attached as Annex B of this Decision. The group will produce recommendations on short time scales which can then inform the IODE Management Group,

**Invites** all IODE Structural Elements and partner organisations to nominate experts and propose topics with which the Rapid Response Mechanism should engage.

**Annex A to Decision IODE-28/6.2.6**

**Objective of the IODE IWG-RRM**

The objective of the IWG to Enact a Rapid Response Mechanism for Emerging Issues (IWG-RRM) is to react to urgent, time-critical issues and produce coordinated guidance for responses from IODE’s structural elements.

**Triggering conditions** for the IWG-RRM are met by any urgent, time-critical issue which has consequences for IODE as a whole that comes to the attention of the IWG-RRM and is within the scope of the IWG-RRM (Annex C).

The **Standard Operating Procedure** of the IWG-RRM will broadly conform to the following:

When the triggering condition is met, the following standard operating procedure (SOP) will be activated and concluded within a suggested period of two weeks:

1. The IODE representative, or point(s) of contact, that has been informed of the issue will forward the information to a mailing list including all members of the IWG-RRM, providing a complete description and any proposals to resolve it;
2. The IWG-RRM Chair/Co-Chair will inform the Chairs of all IODE Programme Components and Activities that they have been activated.
3. The IWG-RRM will convene and deliberate on whether a response is justified.
4. Based on the outcome of the previous step, the IWG-RRM will either:
   1. Document why no response will be made, publishing the documentation in OceanExpert and informing the individual or organisation which triggered the mechanism accordingly, or
   2. Proceed to the next step in this SOP
5. The IWG-RRM will assemble a response team, including the most appropriate personnel from IODE and external experts as required;
   1. In extremely urgent cases, the team will produce immediate action recommendations to relevant IODE Structural Elements, before proceeding.
6. The response team will deliberate on the issue and, based on the urgency and time horizon of the issue, design actions, set a date for their deliverables as described below, and indicate the resources to be allocated or mobilized (if applicable);
7. The response team will compose a briefing and set of recommendations to the IODE Secretariat, detailing specific steps IODE should take to address the issue;
8. The IODE Secretariat will convene an ad hoc session of the IODE Management Group to agree on what recommendations it can fulfil;
9. The decisions of the IODE Management Group will be recorded and a deadline for Programme Components and Programme Activities to report on their responses set.
10. The IWG-RRM will reconvene to assess the reports of the IODE Programme Components and Activities, and document their assessment on whether the issue which triggered the mechanism has been addressed. The final report of the IWG-RRM will be archived in OceanExpert.

**Annex B to Decision IODE-28/6.2.6**

**Terms of Reference for the IODE IWG-RRM**

Objectives: The working group will:

1. Provide IODE with a standard operating procedure and coordinated organisational capacity to convene experts on emerging digital challenges, trends and opportunities,
2. Test the proposed mechanism by convening two task forces on:
   1. The role of IODE in instances of cross-national data security, persistence and rescue
   2. Instances of the use of Artificial Intelligence technologies across IODE Programme Components
3. Establish recommended reporting routes to IODE for review and action

Modalities: The IWG-RRM will meet when the Rapid Response Mechanism is triggered as outlined in Annex A. Additional meetings may be called at the discretion of the Chair / Co-chairs. 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-RRM will be composed, *inter alia*, of:

* One primary and one secondary representative of the IODE Secretariat,
* One primary and one secondary representative from each IODE Programme Component,
* One primary and one secondary representative where available from each IODE Programme Activity,
* Members of other IOC Programmes, where applicable or requested.
* Invited experts as required.

The working group will elect a Chair and/or Co-Chairs, to be decided by the Working Group members. The IWG will pre-identify relevant experts in areas such as cybersecurity, law, data protection, and ethics and invite them to be at the disposal of the IWG should the need arise.

**Annex C to Decision IODE-28/6.2.6**

**Definition of Scope**

Examples of triggering events within the scope of the IWG-RRM include events that pose a risk to the ocean data exchange and security and the IODE network, including.

* Cyberattack
* Natural disaster
* Act of war
* Political disruptions
* Sudden or disruptive technological innovation
* Compromised data streams
* Threats to IODE reputation and operations

Examples of issues that are out of scope of the IWG-RRM include:

* Loss of funding
* A sudden opportunity to acquire funding
* Issues being deliberated upon by the IODE Management Group
* Personal intimidation

**RECOMMENDATIONS**

**Recommendation IODE-28/3.4.1.2**

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

The IODE Committee,

**Recalling** the establishment, by the 31st Session of the IOC Assembly through Annex II to Decision A-31/3.4.2, of the IOC Ocean Data and Information System Project (ODIS),

**Recognizing** that a major component of the ocean data and information system landscape is not linked to the IOC and the need to collaborate with those communities/systems in order to achieve improved accessibility, unrestricted use and interoperability of data and information,

**Recognizing** 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** 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,

**Recalling further** that the IODE Committee, at its 27th Session, approved the designation of IODE activities as Programme Components, Programme Activities and Projects, considering that this should make IODE activities more attractive to partners for cooperation, and decided to designate ODIS, OBIS and OTGA as Programme Components and to take this into consideration in the work plan and budget 2023-2025,

**Noting with appreciation** that IODE has:

1. Established the IOC Ocean Data and Information System Catalogue of Sources Project (ODISCat) in 2019;
2. Implemented the Ocean InfoHub project as a three-year project (2020-2023) funded by the Government of Flanders (Kingdom of Belgium) successfully;
3. Successfully interlinked 55 ODIS nodes from 45 partners around the world, with more in progress.
4. Established a Global Search Hub for ODIS content.
5. Supported community co-development of data exchange standards and norms to increase digital inclusion and equity
6. Contributed to the data section of the UN Ocean Decade Implementation Plan (2021), its Data and Information Strategy (2023), the Data and Information Strategy’s Implementation Plan (upcoming), and Vision 2030 Whitepaper 8 (2024)

**Considering** that the rapid growth of the ODIS network as a federation of data systems requires an efficient and agile governance mechanism, focused on co-design, user requirements and community feedback,

**Recommends** the revision of the ODIS terms of reference as attached in Annex A, the terms of reference of the ODIS Steering Group as attached in Annex B, and establishment of the ODIS Operations Group as attached in Annex C,

**Invites** all IOC programmes, IOC regional subsidiary bodies and partner organizations to collaborate in ODIS by sharing their ocean data and information with ODIS,

**Annex A to Recommendation IODE-28/3.4.1.2**

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

Objectives: The objectives of this Programme Component are to:

1. develop in collaboration with programmes across the IOC, the IOC Ocean Data and Information System (ODIS) as a foundational digital ecosystem where users can discover and access data and information products, services, and other assets provided by Member States, projects and other partners associated with IOC;
2. work with partners, linked and not linked to the IOC, to improve the accessibility and interoperability of existing data and information and digital service orchestration across data systems.;
3. promote the collective maturation of the ODIS digital ecosystem towards greater interoperability and seamless, trusted, and secure data and information flows across partner systems (e.g. towards data fabric and data space models).

**Annex B to Recommendation IODE-28/3.4.1.2**

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

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

1. In coordination with the ODIS Secretariat, propose a set of strategic priorities for one-, five-, and ten-year time horizons for the ODIS Programme Component, revised each year;
2. Review high-level work plans for the ODIS Programme Component, proposed by the ODIS Operations Group (ODIS-Ops), proposing changes where needed;
3. Advise the ODIS Secretariat and ODIS-Ops on relevant developments in national, regional, global, or sectoral data and information policy, national and international data law and practice which may impact ODIS operations;
4. Propose and, where feasible, facilitate coordination between ODIS Secretariat and new stakeholder or other interest groups;
5. Identify funding sources to further develop ODIS.

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

* A Chair or co-Chairs of the Steering Group (\*);
* Representatives from IOC Programmes;
* Invited Experts, prioritising the coverage of regions, digital capacity levels[1], socio-economic sectors, UN Ocean Decade Actions, and key groups pursuing, consolidating, or maintaining digital sovereignty;
* Representatives of major interest groups and selected ODIS partners (based on priorities following an open call) including regional/international organisations developing multi-year / decadal data strategies or with unique insight into strategically relevant issues;
* ODIS programme manager;
* IODE Secretariat;
* Representatives from relevant UN Ocean Decade Decade Coordination Offices and Collaborative Centres, and the Decade Coordination Unit

Membership will be for a period of one year (renewable).

(\*) A Chair and Co-Chair of SG-ODIS will be elected at the end of the first meeting (and thereafter annually) by the members of the Group in accordance with the Rules of Procedure for IODE Programme Components, Programme Activities and Projects (IOC Manuals and Guides No. 91).

**Annex C to Recommendation IODE-28/3.4.1.2**

**Terms of reference of the Operations Group for the IOC Ocean Data and Information System (ODIS-Ops)**

The ODIS Operations Group (ODIS-Ops), will comprise a representative from each ODIS Partner maintaining one or more ODIS Nodes[2],.

Tasks

The main tasks of ODIS-Ops will be:

1. To ensure the uninterrupted operation of ODIS Nodes by remedying issues identified by the ODIS-SG, ODIS Secretariat or by other ODIS Partners.
2. To promote broader and deeper interoperability between all ODIS Nodes, beginning at metadata / asset catalogues, and progressing to subject data, services, and other capacities as identified;
3. To guide the ODIS Nodes, and ODIS as a whole, in fulfilling the UN Decade of Ocean Science for Sustainable Development’s Data and Information Strategy and its Implementation Plan, and - more broadly - addressing its Challenges;
4. To hold monthly meetings (online) not exceeding 60 minutes, distributed across time zones of the Group’s members;[3]
5. To contribute to, or produce status briefings on, the state of the ODIS Federation (i.e. the collection of ODIS partner organisations) as a whole, and of individual ODIS Nodes, detailing any issues limiting data and information exchange, as well as any opportunities to enhance it;
6. To identify and work to resolve any issues relating to data and information exchange and cross-Federation interoperability, by posting and pursuing issues on the ODIS-Arch GitHub repository[4] or another appropriate repository;
7. To make all members of ODIS-Ops aware of regionally, nationally, or locally specific requirements, regulations, or legal frameworks regarding data access and/or exchange which may affect the operations of the ODIS Federation;
8. To identify and describe opportunities for ODIS to provide utility to (potential) user groups and other;
9. To review and regulate the addition, suspension, or removal[5] of ODIS Nodes to/from the Federation;
10. To report operational affairs to the ODIS Chair, SG-ODIS and ODIS Secretariat, and consult these for strategic and programmatic guidance.

Membership

Membership of ODIS-Ops shall initially include:

* ODIS Chair or Co-Chairs (\*)
* ODIS Programme Manager (ODIS Secretariat)
* One technical expert which has been selected by each ODIS Partner operating at least one ODIS Node;
* External experts - in advisory roles - in areas relevant to the activities of the Group;
* Representatives of other IODE programme components and/or IODE programme activities or IODE Projects
* Other, ad hoc members, as agreed by the regular membership

Membership will be for a period of one year (renewable).

(\*) A Chair and Co-Chair of ODIS-Ops will be elected at the end of the first meeting (and thereafter annually) by the members of the Group in accordance with the Rules of Procedure for IODE Programme Components, Programme Activities and Projects (IOC Manuals and Guides No. 91).

**Recommendation IODE-28/6.2.5**

**Advancing Ocean Data Sharing for Sustainable Development in areas within national jurisdiction**

The IODE Committee:

**Recalling**

1. that the IOC Data Policy and Terms of Use was published in 2023 and recommends the findable, accessible, interoperable and reusable sharing of ocean metadata, data and products with minimally restrictive and voluntary common use licenses,
2. that the WMO unified Data Policy (Resolution 1,CG-EXT (2021)) WMO-No. 1281 mandates the WMO members to share ocean data as follows: Members shall share observations of the GOOS physical essential ocean variables (EOVs) and GCOS physical ocean domain essential climate variables (ECVs) made as part of a GOOS observation network, programme or project and should share all other EOVs and Ocean based ECVs further notes that this is a national commitment that is supported of the IODE Action,
3. the importance of sustainable ocean management as emphasized in the Implementation Plan of the United Nations Decade of Ocean Science for Sustainable Development (2021-2030) endorsed at the 75th United Nations General Assembly in 2020,

**Recognising** that:

1. there is a critical role for data in supporting and allowing science-based decision making, including effective marine spatial planning,
2. the need for sharing ocean-data is also recognised within the United Nations Convention on the Law of the Sea (Part XIII) and Agreement under the United Nations Convention on the Law of the Sea on the Conservation and Sustainable Use of Marine Biological Diversity of Areas beyond National Jurisdiction (Part II, V, VI),
3. the private sector holds and is actively collecting a vast reservoir of valuable ocean data, acquired through commercial activities in support of marine resource management, offshore energy exploration and development, marine infrastructure development and monitoring, and scientific research in every ocean basin,
4. the sharing of data collected by private sector bodies offers the possibility of immense benefits to science, policy makers, and the private corporations themselves,
5. only a fraction of ocean-related data from private sector industries is shared publicly,

**Noting** that the sharing of these data collected by private industry using the IOC Data Policy and Terms of use would dramatically increase the volumes of data available for monitoring, understanding and modelling the ocean advancing scientific research and improving data-driven decision making in sustainable ocean management,

**Encourages** Member States to support the implementation of the IOC Data Policy and Terms of Use for the sharing of data for all-ocean related data collection, both publicly and privately funded, in their territorial waters and exclusive economic zones;

**Calls upon** Member States to recognise that data sharing practices will strengthen the collective ability of all to meet the goals of the UN Ocean Decade and to address UN Sustainable Development Goal 14;

**Urges** Member States to collaborate with industry, research and data infrastructure stakeholders to standardise ocean data sharing practices through the establishment of national data-sharing policies, regulations and permissions for all ocean-related activities conducted within their territorial waters and Exclusive Economic Zones, including through the inclusion of the provisions of the IOC Data Policy and Terms of Use in licensing and permitting within their jurisdictions;

**Affirms** that sustainable ocean management requires unlocking the large volume of ocean data collected and held by private industry for collective benefit to scientific research, policy making and industry operations;

**Instructs** the co-chairs of IODE, in close cooperation with the Decade Coordination Office for Ocean Data Sharing and the UN Ocean Decade’s Corporate Data Group, to present this recommendation for adoption by the 33rd session of the IOC Assembly as part of the IODE-28 recommendation.

**Decides** to establish an inter-sessional working group to facilitate and promote implementation of this recommendation, with terms of reference as attached in Annex to this Recommendation.

Annex to IODE Recommendation IODE-28/6.2.5

**Terms of Reference of the IODE Inter-sessional Working Group on Advancing Ocean Data Sharing for Sustainable Development in areas within national jurisdiction (IWG-DSNJ)**

Objectives:

1. Engage with and encourage the implementation by Member States of IODE Recommendation IODE-28/6.2.5 through providing practical advice and developing case studies,
2. Document the implementation of the IOC Data Policy and Terms of Use as outlined in the recommendation,
3. Disseminate successful examples of national policies which include effective ocean data sharing, regulations and permissions for all ocean-related activities conducted within their territorial waters and Exclusive Economic Zones,
4. Report progress on the adoption by member states of the recommendation to the 29th session of the IODE Committee.

Modalities: The IWG will normally conduct its business through entirely electronic means. Should any face-to-face meetings be deemed necessary, participation will be optional with alternative arrangements for electronic participation and in-person participation will be entirely self-funded.

Expected meeting frequency will be at least once per month or as required by ongoing actions.

The IWG will operate its own secretarial tasks.

Membership**:** Initial membership will be composed of

* One of the IODE co-chairs, and/or a representative of the IODE secretariat
* Data & Knowledge Management Officer, representing the Decade Coordination Unit, the Data Coordination Group and the Corporate Data Group
* Lead of the the Decade Coordination Office for Ocean Data Sharing
* Heads of Decade Regional Coordination Offices and Collaborative Centres
* Other membership to be called for at IODE-28 to represent the IOC Committee on IODE. The following member states expressed interest: Flanders (Kingdom of Belgium), UK, Australia, Colombia.

**Recommendation IODE-28/6.3**

**The UNESCO/IOC Project Office for IODE in Oostende, Belgium**

The IODE Committee,

**Recalling:**

1. Resolution XXII-7 which accepted with appreciation the offer of the Government of Flanders (Kingdom of Belgium) and the city of Oostende to host the IODE Project Office,
2. Resolution XXII-1 which adopted the Guidelines for the Establishment of IOC Decentralized Offices, subsequently published in Document IOC/INF-1193,

**Noting with appreciation:**

1. the positive results of the review the IOC Project Office for IODE (2025),
2. that the IOC Project Office for IODE has successfully continued the implementation of its objectives:
   * + 1. the successful development and hosting of data/information products/services in particular OBIS, ODIS and OTGA, which all form key elements of the global digital ecosystem now under development for the UN Decade of Ocean Science for Sustainable Development,
       2. the successful development and hosting of the training system OceanTeacher Global Academy,
       3. the continued management of an excellent international meeting and conference centre.
3. 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 and the excellent in-kind support provided by the Flanders Marine Institute (VLIZ),
4. 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),
5. 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,
6. 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 of the Project Office, as from April 2005,

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

**Recommends** that:

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

**Recommendation IODE-28/8.4**

**IODE Workplan and Budget 2025-2026**

The IODE Committee,

**Having reviewed** its programme implementation requirements for the period 2025-2026,

**Welcoming** the substantial increase in UNESCO regular programme funds allocated to IODE,

**Re-emphasizing** the importance of high-quality oceanographic data and information, products and services for scientific, observation and ocean-based disaster warning and mitigation programmes of the Commission, for Member States, the private sector and other users,

**Welcoming** the growing collaboration with, and contribution to other IOC Programmes and activities, demonstrated by joint development of products and services as well as capacity development activities,

**Recognizing** IODE’s active and pro-active response to the call on IODE to contribute to the United Nations Decade of Ocean Science for Sustainable Development through several decade actions and the hosting, by the IOC Project Office for IODE, of the Decade Coordination Office for Ocean Data Sharing,

**Expressing great appreciation** to (i) the Government of Flanders (Kingdom of Belgium) for hosting and supporting the IOC Project Office for IODE; and (ii) other donors and Member States who are providing financial and in-kind support for IODE,

**Appreciating** **and calling** on Member States to continue (i) the in-kind support for the IODE Programme through establishing and maintaining IODE National Oceanographic Data Centres, Associate Data Units (including OBIS nodes), provision of experts; (ii) the provision of valuable ocean data and information products and services, and (iii) the provision of financial and other in-kind contributions to IODE,

**Requests** the IODE Co-Chairs to bring to the attention of the 33rd Session of the IOC Assembly, the IODE Programme and Budget for the period 2025-2026, as attached in the Annex to this Recommendation.

**Annex to Recommendation IODE-28/8.4**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **2025 Proposed** | |  |  |  | **2026 Scenario: Zero Nominal Growth (ZNG)** | | | |  | **2026 Scenario: Zero Real Growth (ZRG)** | | |  |
|  | **RP IODE** | **RP IODE available** | **Exb mobilized or RP partner** | **Exb to be mobilized** |  | **RP IODE** | **RP IODE sub-totals** | **EXB mobilized or RP partner** | **Exb to be mobilized** |  | **RP IODE** | **RP IODE sub-totals** | **EXB mobilized or RP partner** | **Exb to be mobilized** |
|  | **2025** | **2025** | **2025** | **2025** |  | **2026** | **2026** | **2026** | **2026** |  | **2026** | **2026** | **2026** | **2026** |
| ***PROGRAMME COMPONENTS*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **ODIS** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| OD1 project manager consultant | 80,000.00 |  |  |  |  | 72,000.00 |  |  |  |  | 80,000.00 |  |  |  |
| OD2 Graph Operations / Digital engineer / Backend developer | 26,000.00 |  |  |  |  | 23,400.00 |  |  |  |  | 26,000.00 |  |  |  |
| OD3 Technical support and capacity development | 26,000.00 |  |  |  |  | 23,400.00 |  |  |  |  | 26,000.00 |  |  |  |
| OD4 admin support | 18,000.00 |  |  |  |  | 16,200.00 |  |  |  |  | 18,000.00 |  |  |  |
| **Total ODIS** |  | **150,000.00** |  |  |  |  | **135,000.00** |  |  |  |  | **150,000.00** |  |  |
| **OBIS** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| OB1 OBIS secretariat travel (IOC Assembly, UNOC etc) | 10,000.00 |  |  |  |  | 9,000.00 |  |  |  |  | 10,000.00 |  |  |  |
| OB2 OBIS secretariat travel (SG-OBIS) | 17,000.00 |  |  |  |  | 15,300.00 |  |  |  |  | 17,000.00 |  |  |  |
| OB3 Infrastructure costs: long term storage and associated operational costs | 10,000.00 |  |  |  |  | 9,000.00 |  |  |  |  | 10,000.00 |  |  |  |
| OB4 Infrastructure costs: Communication platform subscriptions (e.g. Slack, Miro, other preferred tools?) Licence fee for <100 users. | 3,500.00 |  |  |  |  | 3,150.00 |  |  |  |  | 3,500.00 |  |  |  |
| OB5 Infrastructure costs: (JupyterHub Instance for 5 active users at a time with 16GB RAM or for 100 active users with 64GB RAM) | 5,000.00 |  |  |  |  | 4,500.00 |  |  |  |  | 5,000.00 |  |  |  |
| OB6 All-Hands meeting: Funding for member attendance at biannual All Hands meetings (including Living Data & SG-OBIS 2025) | 45,000.00 |  |  |  |  | 40,500.00 |  |  |  |  | 45,000.00 |  |  |  |
| OB7 OBIS Secretariat staff support: OBIS Community Engagement Officer (consultant) | 50,000.00 |  |  |  |  | 45,000.00 |  |  |  |  | 50,000.00 |  |  |  |
| OB8 Branding, Communication & outreach | 9,500.00 |  |  |  |  | 8,550.00 |  |  |  |  | 9,500.00 |  |  |  |
| - OBIS secretariat staff costs (Horizon Europe projects) |  |  | 412,000.00 |  |  |  |  |  |  |  |  |  |  |  |
| **Total OBIS** |  | **150,000.00** |  |  |  |  | **135,000.00** |  |  |  |  | **150,000.00** |  |  |
| **OTGA** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| OT1 Organize and host training courses relevant to the Regions | 5,000.00 |  |  |  |  | 4,500.00 |  |  |  |  | 5,000.00 |  |  |  |
| OT2 Provide travel grants to facilitate attendance at training courses | 35,000.00 |  |  |  |  | 31,500.00 |  |  |  |  | 35,000.00 |  |  |  |
| OT3 Provide technical support eLearning platform | 17,000.00 |  |  |  |  | 15,300.00 |  |  |  |  | 17,000.00 |  |  |  |
| OT4 Confirm certification of the Project Office as LSP (April) | 3,500.00 |  |  |  |  | 3,150.00 |  |  |  |  | 3,500.00 |  |  |  |
| OT5 Design and develop new or existing course content to address the capacity needs of IOC Programmes | 20,000.00 |  |  |  |  | 18,000.00 |  |  |  |  | 20,000.00 |  |  |  |
| OT6 Update existing OTGA content to ensure it meets current OTGA course management guidelines | 10,000.00 |  |  |  |  | 9,000.00 |  |  |  |  | 10,000.00 |  |  |  |
| OT7 Upload training resources on the OTGA e-Learning Platform | 10,000.00 |  |  |  |  | 9,000.00 |  |  |  |  | 10,000.00 |  |  |  |
| OT8 Liaise with content providers on course design and presentation | 5,000.00 |  |  |  |  | 4,500.00 |  |  |  |  | 5,000.00 |  |  |  |
| OT9 Publish regular CD communication through social media, newsletters and other communication | 2,500.00 |  |  |  |  | 2,250.00 |  |  |  |  | 2,500.00 |  |  |  |
| OT10 Provide project governance framework through a steering group (November) | 25,000.00 |  |  |  |  | 22,500.00 |  |  |  |  | 25,000.00 |  |  |  |
| OT11 Create and deliver online training for RTC/STC personnel | 5,000.00 |  |  |  |  | 4,500.00 |  |  |  |  | 5,000.00 |  |  |  |
| OT12 Update and publish OTGA Guidelines and Best Practices documentation | 5,000.00 |  |  |  |  | 4,500.00 |  |  |  |  | 5,000.00 |  |  |  |
| OT13 Participate in conferences, meetings to promote OTGA | 7,000.00 |  |  |  |  | 6,300.00 |  |  |  |  | 7,000.00 |  |  |  |
| - Webbased produts needed for OTGA (paid via P-Card) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| - Contract |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| - Co-sponsor of on-site training and related activities - projects |  |  | 571,000.00 |  |  |  |  |  |  |  |  |  |  |  |
| **Total OTGA** |  | **150,000.00** |  |  |  |  | **135,000.00** |  |  |  |  | **150,000.00** |  |  |
| ***PROGRAMME ACTIVITIES*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **AquaDocs** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| - hosting cost AquaDocs DSpace | 9,000.00 |  |  |  |  | 9,000.00 |  |  |  |  | 9,000.00 |  |  |  |
| - participation IODE-MG 2025 and 2026 | 2,000.00 |  |  |  |  | 1,000.00 |  |  |  |  | 2,000.00 |  |  |  |
| **Total AquaDocs** |  | **11,000.00** |  |  |  |  | **10,000.00** |  |  |  |  | **11,000.00** |  |  |
| **GODAR** | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |
| **Total GODAR** |  | **0.00** |  |  |  |  | **0.00** |  |  |  |  | **0.00** |  |  |
| **GOSUD** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| - Contract 4500517806 (2071) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| - Participation for a common GOSUD-GTSPP-IQuOD-WOD meeting |  |  |  |  |  | 0.00 |  |  |  |  | 15,000.00 |  |  |  |
| **Total GOSUD** |  | **0.00** |  |  |  |  | **0.00** |  |  |  |  | **15,000.00** |  |  |
| **GTSPP** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| - IODE-28; Joint IOC/IODE program meetings | 12,500.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |
| **Total GTSPP** |  | **12,500.00** |  |  |  |  | **0.00** |  |  |  |  | **0.00** |  |  |
| **ICAN** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| - ICAN Workshops 2025 / 2026 | 13,000.00 |  |  |  |  | 5,000.00 |  |  |  |  | 12,500.00 |  |  |  |
| - ICAN Summer Scholars 2025 /2026 (EB) |  |  | 7,500.00 |  |  |  |  | 7,500.00 |  |  |  |  | 7,500.00 |  |
| **Total ICAN** |  | **13,000.00** |  |  |  |  | **5,000.00** |  |  |  |  | **12,500.00** |  |  |
| **IQuOD** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| - Update and expansion of manual QC web application (AWS) | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| - Joint meeting with GTSPP/SOOPIP/XBT Science | 6,000.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |
| - IODE-MG participation 2025 and 2026 | 3,000.00 |  |  |  |  | 0.00 |  |  |  |  | 3,000.00 |  |  |  |
| **Total IQuOD** |  | **9,000.00** |  |  |  |  | **0.00** |  |  |  |  | **3,000.00** |  |  |
| **OBPS** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| - Project manager | 12,690.00 |  |  |  |  | 5,000.00 |  |  | 11,632.50 |  | 11,632.50 |  |  | 11,632.50 |
| - travel IOC meetings | 4,500.00 |  |  |  |  | 1,000.00 |  |  | 2,500.00 |  | 2,500.00 |  |  | 2,500.00 |
| - SG-OBPS annual meeting | 12,500.00 |  |  |  |  | 2,000.00 |  |  | 2,500.00 |  | 2,500.00 |  |  | 2,500.00 |
| - Promotional materials (video/flyers) | 2,500.00 |  |  |  |  |  |  |  | 6,500.00 |  | 6,500.00 |  |  | 6,500.00 |
| - Repository technology | 7,000.00 |  |  |  |  | 0.00 |  |  | 1,250.00 |  | 1,250.00 |  |  | 1,250.00 |
| - AWS subscription (was budgeted 2025) | 4,000.00 |  |  |  |  | 5,000.00 |  |  | 2,500.00 |  | 5,000.00 |  |  | 2,500.00 |
| **Total OBPS** |  | **43,190.00** | 36,440.00 |  |  |  | **13,000.00** |  |  |  |  | **29,382.50** |  |  |
| **OceanExpert** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| - redesignOE mailing system and testing (contractor) | 0.00 |  |  |  |  | 5,000.00 |  |  |  |  | 5,000.00 |  |  |  |
| - redesign of privileges (users rights) (hire a contractor) | 9,000.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |
| - upgrade to latest Symfony framework (contractor) | 9,000.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |
| - outreach |  |  |  |  |  | 1,000.00 |  |  |  |  | 1,000.00 |  |  |  |
| - clean up database | 8,000.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Total Ocean Expert** |  | **26,000.00** |  |  |  |  | **6,000.00** |  |  |  |  | **6,000.00** |  |  |
| **QMF** | 0.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Total QMF** |  | **0.00** |  |  |  |  | **0.00** |  |  |  |  | **0.00** |  |  |
| **WOD** | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |
| **Total WOD** |  | **0.00** |  |  |  |  | **0.00** |  |  |  |  | **0.00** |  |  |
| **Cooperation with ocean science** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| - HAIS: IODE IT staff time (in-kind) | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |
| - GO2DAT: IODE staff/expert travel for meeting | 3,000.00 |  |  | 0.00 |  | 3,000.00 |  |  | 7,000.00 |  | 3,000.00 |  |  | 7,000.00 |
| - SDG14.3.1 portal | 0.00 |  |  |  |  | 0.00 |  |  | 0.00 |  | 0.00 |  |  | 0.00 |
| - GOSR: IODE IT staff time (in-kind) | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |
| - StOR: IODE content submission (in-kind) | 0.00 |  |  |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |
| **Total Cooperation with ocean science** |  | **3,000.00** |  |  |  |  | **3,000.00** |  |  |  |  | **3,000.00** |  |  |
| ***PROGRAMME MANAGEMENT*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| - IODE 28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PM1 Online service costs - IT purchases and software | 20,000.00 |  |  |  |  | 15,000.00 |  |  |  |  | 20,000.00 |  |  |  |
| PM2 IODE project office operational costs |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PM3 IODE officers/staff travel | 20,000.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PM4 admin support (at HQ) (May-December 2025) |  |  |  | 16,000.00 |  | 0.00 |  |  | 48,000.00 |  | 0.00 |  |  | 48,000.00 |
| PM5 comm/admin officer cost (at PO) (2025:9m; 2026:12m) | 52,500.00 |  | 15,000.00 |  |  | 0.00 |  |  |  |  | 0.00 |  |  |  |
| PM6 Management Group meeting (dec25; dec 26) | 20,000.00 |  |  |  |  | 0.00 |  |  |  |  | 10,000.00 |  |  |  |
| PM7 IODE communication costs | 2,500.00 |  |  |  |  | 2,500.00 |  |  |  |  | 2,500.00 |  |  |  |
| - travel other than staff | 2,000.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PM9 admin staff cost (essential) |  |  |  |  |  | 15,000.00 |  |  |  |  | 15,000.00 |  |  |  |
| **Total programme management** |  | **117,000.00** |  |  |  |  | **32,500.00** |  |  |  |  | **47,500.00** |  |  |
| **TOTALS** |  | **684,690.00** | 1,041,940.00 | 16,000.00 |  |  | **474,500.00** | **7,500.00** | **81,882.50** |  |  | **577,382.50** | **7,500.00** | **81,882.50** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Budget 2025 (inc C/F 2024) | **684,876.33** |  |  |  |  | **473,808.00** | (est. cut 25%) |  |  |  | **573,386.00** | (2025 allocation) |  |  |
| BALANCE | 186.33 |  |  |  |  | -692.00 | balance ZNG |  |  |  | -3,996.50 | balance ZRG |  |  |

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