7.2 DATA MANAGEMENT

7.2.1 International Oceanographic Data and Information Exchange.

Outcomes of the 25th Session of IODE Committee
(Tokyo, Japan, 18–22 February 2019)

Dr. Sergey Belov, Taco de Bruin (IODE Co-chairs)

30th Session of the IOC Assembly
26 June - 4 July 2019, Paris France
IODE-XXV scientific conference
(Tokyo, Japan, 18-19 February 2019)

150 participants, 36 presentations

Themes

- UN Decade of Ocean Science
- Regional IODE developments
- Capacity Development
- How is IODE collaborating in major initiatives that may contribute to UN Decade?
- Future of IODE and emerging opportunities including UN Decade
- Cooperation with Partners (Japan)

Recommendation from the conference: **IODE to be further strengthened and expanded for it is to play an essential role in supporting the flow from data to information to knowledge**
The Committee adopted 4 Decisions:

• ESTABLISHMENT OF AN INTER-SESSIONAL WORKING GROUP ON THE REVIEW OF NODC HEALTH STATUS WITHIN THE IODE NETWORK
• IODE MANAGEMENT STRUCTURE
• ESTABLISHMENT OF THE INTER-SESSIONAL WORKING GROUP TO DEVELOP THE IMPLEMENTATION PLAN AND COST-BENEFIT ANALYSIS FOR THE IOC OCEAN DATA AND INFORMATION SYSTEM
• ESTABLISHMENT OF AN INTER-SESSIONAL WORKING GROUP TO REVISE THE IOC STRATEGIC PLAN FOR OCEANOGRAPHIC DATA AND INFORMATION MANAGEMENT

✓ 100 participants
✓ 39 Member States and 7 organizations
✓ Final report available at www.iode.org
✓ New co-chairs elected (Sergey Belov and Taco de Bruin)
The Committee adopted 5 Recommendations:

- JCOMM/IODE GLOBAL DATA ASSEMBLY CENTRES (GDACs)
- REVISION OF THE TERMS OF REFERENCES OF THE JCOMM/IODE EXPERT TEAM ON DATA MANAGEMENT PRACTICES (ETDMP)
- ESTABLISHMENT OF THE IOC OCEAN DATA AND INFORMATION SYSTEM CATALOGUE OF SOURCES PROJECT (ODISCat)
- ESTABLISHMENT OF AN INTER-SESSIONAL WORKING GROUP TO PROPOSE A STRATEGY ON OCEAN DATA AND INFORMATION STEWARDSHIP FOR THE UN OCEAN DECADE (IWG-SODIS)
- IODE WORK PLAN AND BUDGET FOR 2019-2020
IODE Network

- 67 National Oceanographic Data Centres (NODCs) (+4)
  6 NODCs (BODC (United Kingdom), Flanders Marine Institute – VMDC (Belgium), INOS (Malaysia), JODC (Japan), KODC (Republic of Korea), Marine Institute (Ireland)) successfully applied for accreditation according IODE Quality Management Framework (10 in total)

- 29 Associate Data Units (ADUs) (+9)

- 3 Associate Information Units (AIUs)

Continued reform of IODE -> towards ensuring that all NODCs, ADUs and AIUs comply with the IODE QMF; focus on projects;

Inter-sessional working group to revise the IOC Strategic Plan for Data and Information Management that will expire in 2021
IODE Activities

15 global projects:
OBIS; OBIS-Event-DATA Pilot; DIPS-4 Ocean Assessments; GODAR, WOD, GTspp, GOSUD, ICAN, IQuOD, Ocean Data Portal, Ocean Data Practices, OceanDocs, OceanExpert, OpenScienceDirectory, QMF

6 regional projects:
ODINAFRICA, ODINWESTPAC, ODINCARSA, ODINBLACKSEA, ODINECET, ODINCINDIO

- Increasing cooperation with IOC Ocean Science (GOSR, HAEDAT, Ocean acidification), GOOS biology, Marine Policy and Regions, SDG indicator reporting, SPINCAM project.
- Joint GOOS-IODE Ocean Best Practices System project

IODE called on other IOC programmes to collaborate with IODE for their ocean data and information management requirements
IODE Cooperation with WMO and JCOMM

WMO
WMO reform, ongoing development of WIS 2.0 and IOC ODIS -> challenges in long-term strategic planning

Recommendations:
- to continue collaboration between IOC and WMO regarding data management and capacity development activities
- to assure that activities related to interoperability of IOC ODIS and WMO WIS 2.0, both under development, will be maintained in the proposed future structure of JCOMM;
- IOC Member States promote the IODE OceanExpert database as a joint pool of experts within IOC and invite WMO to contribute to it

JCOMM
The IODE Committee decided to:
- assist JCOMM to develop the implementation Plan responding to the Data Management Strategy and to collaborate in the implementation of the Strategy;
- promote the Strategy and its implementation within IODE projects, activities and members;
- assist JCOMM to review and update the strategy and the implementation plan as necessary;
- endorse the Strategy and invited JCOMM to submit it to the 30th Session of the IOC Assembly (2019) for approval.

The IODE Committee invited JCOMM Marine Climate Data System (MCDS) to jointly elaborate on MCDS structural elements, such as DACs, noting that they could be functional elements of IODE.
OBIS is supporting the development of scientific applications and global and regional assessments, through IODE projects such as OBIS-Event-Data and Development of Information Products and Services for Ocean Assessments (DIPS-4 Ocean Assessments).

The Committee stressed the importance to create a regular programme post for the OBIS data manager to secure the continuation of OBIS beyond 2019 and invited the Government of Flanders (Kingdom of Belgium) through the FUST, as well as other Member States and donor agencies, to consider providing financial support to OBIS (and its community network) to ensure OBIS can facilitate the co-development of a data and analytics platform for policy relevant applications, involving relevant partners, as well as to create specific training packages in collaboration with the OceanTeacher Global Academy.
Positive results obtained by the OceanTeacher Global Academy Regional Training Centres and the growing collaboration with other IOC programmes using the OTGA

**Other IOC Programmes** making use of OTGA should also contribute to the related Secretariat tasks.

IODE invited IOC regional subsidiary bodies to jointly, with OTGA, plan and implement courses through the RTCs in their region.

The Committee thanked the Government of Flanders (Kingdom of Belgium) for the substantial support provided to the OTGA project. The Committee welcomed the planned submission of a new proposal to FUST.
The IODE Committee established an inter-sessional working group to propose a strategy on ocean data and information stewardship for the UN Decade of Ocean Science for Sustainable Development (IWG-SODIS).

- the need to derive the greatest benefit from the observations collected and information from the UN decade of the ocean science

- the complexity and use of international observing systems during the UN decade of the ocean without overarching data and information access and use -> IODE recommended to the IOC to include, as part of preparatory process, the formulation of common guidelines/principles on flow, discovery, access, and re/use of data collected during the decade
The Committee expressed its appreciation to the Government of Flanders (Kingdom of Belgium) for the considerable support provided to IODE in the past and for the decision to continue support through FUST.

The Committee expressed great appreciation to the Government of Flanders (Kingdom of Belgium) for hosting and supporting the IOC Project Office for IODE and for its continuing and increasing financial support to IODE, the Russian Federation for its support through the hosting of the Partnership Centre for the IODE Ocean Data Portal in Obninsk, as well as to other donors and Member States who are providing financial and in-kind support for IODE.

The Committee expressed its appreciation the in-kind support for the IODE Programme provided by Member States through establishing and maintaining IODE Data Centres, OBIS nodes and Associate Data Units, Associate Information Units, provision of experts, through the provision of valuable ocean data and information products and services, and through financial and in-kind contributions to IOC.

The Committee expressed its appreciation to the Russian Federation and its Partnership Centre for IODE Ocean Data Portal for the progress in implementation and maintaining of the IODE Ocean Data Portal project. The Committee 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.

The Committee expressed its appreciation to the Government of Japan for providing an intern and invited Japan as well as other Member States to provide interns or seconded staff.
IOC-XXX, Dec. 7.2.1 IOC Committee on International Oceanographic Data and Information Exchange

I. 25th Session of IODE, 20–22 February 2019, Tokyo, Japan

II. Revision of the IOC Oceanographic Data Exchange Policy

III. Establishment of the IOC Ocean Best Practices System Project (OBPS)
International Oceanographic Data and Information Exchange (IODE)

http://www.iode.org