



United Nations
Educational, Scientific and
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Organisation
des Nations Unies
pour l'éducation,
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Organización
de las Naciones Unidas
para la Educación,
la Ciencia y la Cultura

Организация
Объединенных Наций по
вопросам образования,
науки и культуры



Intergovernmental
Oceanographic
Commission

Commission
océanographique
intergouvernementale

Comisión
Oceanográfica
Intergubernamental

Межправительственная
океанографическая
комиссия

32nd Meeting of Joint IHO-IOC GEBCO Guiding Committee

**Kuala Lumpur, Malaysia,
8-9 October 2015**

IOC Report

Osamu Miyaki

Programme specialist,
Intergovernmental Oceanographic
Commission/UNESCO



IOC

Update of IOC

- **Member States:**

- 147 Member States (as of 24 March 2014)

- **Officers:**

- Peter HAUGAN (Chair: Norway)
- Stephen HALL (Vice-chair: UK)
- Ashley JOHNSON (Vice-chair: South Africa)
- Somkiat KHOKIATTIWONG (Vice-chair: Thailand)
- Alexander POSTNOV (Vice-chair: Russia)
- Ariel TROISI (vice-chair: Argentina)
- Sang-Kyung BYUN (Former IOC Chair: Republic of Korea)

Update of the Secretariat

- **IOC Executive Secretary**
 - Dr Vladimir Ryabinin (March 2015 - present)
- **IOC Secretariat Staff**
 - Agreement for secondment extended

The 28th Session of IOC Assembly Overview

- Date: 18th June - 25th June 2015 (6 days)
- Venue: UNESCO headquarters (Paris, France)
- Approved 30 decisions and 3 resolutions
- **Decision 6.2**
 - Revised TOR-ROP for GGC
 - Review of IOC's role and involvement in GEBCO
- Please visit our website.

<http://ioc-unesco.org/ioc-28>



Revision of Terms of Reference and Rules of Procedure for GEBCO Guiding Committee

- **The 47th session of Executive Council (Paris, 1-4 July 2014)**
 - The documentation related to the proposed revision was made available only a week prior to the Executive Council
 - The Executive Council did not reach consensus on the endorsement of the draft revised TOR-ROP submitted by the Guiding Committee
- **EC-XLVII, Dec.3.1(part II) adopted by the Executive Council**
 - Requests the Joint IHO-IOC GEBCO Guiding Committee to continue to use the current terms of reference and rules of procedure in order to allow IOC Member States sufficient time to review the proposed changes;
 - Requests also the Executive Secretary to circulate the draft of the terms of reference and rules of procedure of the Joint IHO-IOC GEBCO Guiding Committee...

Revision of Terms of Reference and Rules of Procedure for GEBCO Guiding Committee

- **Follow-up to decision EC-XLVII, Dec. 3.1(II)**
 - IOC Circular Letter No. 2545, dated 27 October 2014, was issued to invite Member States to provide their inputs on the revised TOR-ROP draft by late December 2014.
 - A joint examination was carried out by IHO and IOC secretariats on the revised draft and inputs from IOC Member States
 - IHO-IOC secretariats produced a new proposal (IOC-XXVIII/2 Annex 6) and submitted to the 28th session of IOC Assembly (Paris, 18th June - 25th June 2015)
- **The 28th session of the Assembly**
 - The proposal was examined by the Assembly after discussion by a sessional working group and with some Member States.

The 28th Session of IOC Assembly

Decision 6.2 (I)

Decision IOC-XXVIII, Dec. 6.2

IHO-IOC General Bathymetric Chart of the Oceans (GEBCO) Project

The Assembly,

I. Revised Terms of Reference for the Joint IHO–IOC GEBCO Guiding Committee

Having examined document IOC-XXVIII/2 Annex 6,

Recognizing the importance of cooperation between IOC and the International Hydrographic Organization (IHO) in the field of ocean mapping, including bathymetry;

Encourages Member States to voluntarily contribute to the improvement of global bathymetric data sets and data products of the IHO-IOC GEBCO Project;

Endorses the revised Terms of Reference and Rules of Procedure for the Joint IHO–IOC GEBCO Guiding Committee as presented in the Annex to this decision;

Requests the Executive Secretary to convey this endorsement to the IHO Secretariat, copy to the Joint IHO–IOC GEBCO Guiding Committee.

Review of IOC's role & involvement in GEBCO

- GEBCO
 - IOC has no financial support for GEBCO
- Regional Mapping:
 - International Bathymetric Charts (IBCs)
 - IOC support for most IBCs have been minimum
- IOC Regional Subsidiary Bodies:
 - WESTPAC : IBCWP reforming as WESTPAC Working Group with emphasis on the technical exchange
 - IOCAFRICA: less involved in regional ocean mapping
 - IOCARIBE: coordinates IBCCA

Review of IOC's role & involvement in GEBCO

- Communication with IHO in 2015 - need for timely review of the IOC's role and involvement in GEBCO
- Need to respond to IHO views
 - Lack of effectiveness of the current GEBCO governance arrangement
 - Need to redefine co-sponsorship arrangements
- Consider IOC from an end-user perspective to guide GEBCO development
 - Engage IOC main programmes (IODE/GOOS/JCOMM/GLOSS/Tsunami)
 - Regional Subsidiary Bodies (IOCAFRICA, IOCARIBE, WESTPAC)
 - Promote GEBCO within UN-OCEANS community

The 28th Session of IOC Assembly

Decision 6.2 (II)

II. Review of IOC's Role and Involvement in the General Bathymetric Chart of the Oceans (GEBCO)

Taking note of document IOC-XXVIII/2 Annex 7,

Recalling Resolution VIII-3 on the formation of the Joint IHO-IOC GEBCO Guiding Committee (1973),

Further recalling that the Memorandum of Understanding, concluded in 1984 and then revised in 2000, between the IHO and IOC, includes GEBCO and International Bathymetric Charts (IBC) as activities of common interest to both organizations and their Member States,

Considering that bathymetry is of relevance to several on-going IOC programmes, components of programmes and mechanisms of cooperation,

Decides that:

- (i) the IHO-IOC GEBCO project will be reviewed to consider IOC's role and involvement in the project, mainly from a view point of users of GEBCO bathymetric dataset and products;
- (ii) the review will be carried out by a review group, which will be comprised of external experts nominated by IOC Member States and the chairpersons of Guiding Committee of GEBCO, GLOSS, GOOS, IODE, JCOMM, TOWS-WG, IOCAFRICA, IOCARIBE and WESTPAC, during the intersessional period by correspondence;
- (iii) the report of the review will be submitted to the Executive Council at its 49th session (2016) for consideration and further action;

Requests the Executive Secretary to establish the review group in accordance with the terms of reference as contained in Annex 2 to this decision.

Review of IOC's role & involvement in GEBCO

Review Process

(i) The IHO-IOC GEBCO project will be reviewed to consider IOC's role and involvement in the project, mainly from a view point of users of GEBCO bathymetric dataset and products;

(ii) The review will be carried out by a review group, which will be comprised of external experts nominated by IOC Member States and the chairpersons of Guiding Committee of GEBCO, GLOSS, GOOS, IODE, JCOMM, TOWS-WG, IOCAFRICA, IOCARIBE and WESTPAC, during the intersessional period by correspondence;

(iii) The report of the review will be submitted to the Executive Council at its 49th session (2016) for consideration and further action;

Other major outcomes from 28th Assembly

- **Resolution XXVIII-1: 2nd International Indian Ocean Expedition (IIOE-2)**
 - To be launched at Goa, India, on 4th December 2015
 - Draft Science Plan version 1 adopted
 - International Symposium on the Indian Ocean - "Dynamics of the Indian Ocean: Perspective and Retrospective" (30 November - 4 December 2015, Goa, India) Website: <http://www.io50.incois.gov.in>
 - More IIOE-2 info: <http://iocperth.org/IOCPerth/>



The screenshot displays the website of the Intergovernmental Oceanographic Commission (IOC). The main content area is titled "IOC-28 28th Session of the IOC Assembly" and "18 - 25 June 2015, Paris, France". It features a navigation menu on the left with categories like "IOC WWW", "Worldwide", and "Programme Links". The main text area contains a summary of the session, including a list of resolutions and reports. A red circle highlights the text "Second International Oceanographic Expedition" in the list of resolutions. The right sidebar includes a search function and a list of services.

Other major outcomes from 28th Assembly

- **Resolution XXVIII-2: IOC Capacity Building Strategy (2015-2021)**
 - Vision and Mission Statements
 - Strategic Framework, July 2015 - June 2021
 - Human resources
 - Access to physical infrastructure
 - Global, regional and sub-regional mechanisms
 - Development of ocean research policies in support of sustainable development objectives
 - Visibility and awareness
 - Sustained (long-term) resource mobilization
 - Conclusion
 - **ADDENDUM**



Other major outcomes from 28th Assembly



- **Resolution XXVIII-3: Financial Matters of the Commission**
 - UNESCO Draft Budget for 2016-2017 (Draft 38 C/5)
 - Endorsed the Draft Programme and Budget for 2016-2017 to be proposed to UNESCO governing bodies
 - Included no regular budget for ocean mapping in the Draft for 2016-2017

The screenshot displays the official website of the Intergovernmental Oceanographic Commission (IOC). The page is titled "IOC-28 28th Session of the IOC Assembly 18 - 25 June 2015, Paris, France". The main content area features a "Report of the Session" section, which lists several documents and resolutions. One of the listed items, "Resolution XXVIII-3 - Financial Matters of the Commission", is highlighted with a red circle. The left sidebar contains navigation menus for "IOC WWW", "Worldwide", and "Programme Links". The right sidebar contains "Search Documents, People", "The Commission", and "Services".

Potential GEBCO contribution to IOC activities

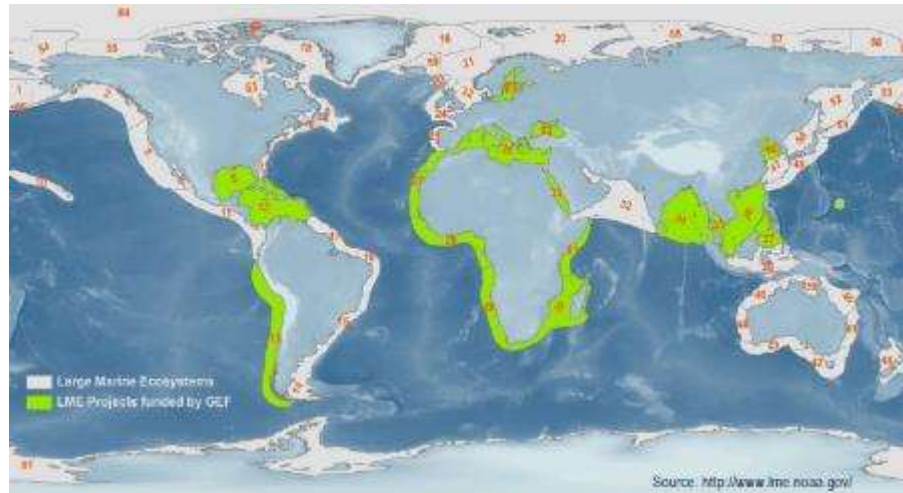
Functions HLOs	A Ocean research	B Observing system / data management	C Early warning and services	D Assessment and Information for policy	E Sustainable management and governance	F Capacity Development
1. Healthy ocean ecosystems	strong contribution	strong contribution	contribution	strong contribution	strong contribution	strong contribution
2. Early warning for ocean hazards	contribution	contribution	strong contribution	contribution	strong contribution	strong contribution
3. Resiliency to climate change and variability	strong contribution	strong contribution	strong contribution	contribution	strong contribution	strong contribution
4. Enhanced knowledge of emerging issues	strong contribution	contribution	contribution	strong contribution	contribution	contribution

GOOS
JCOMM
IODE
OBIS
Tsunami
WCRP
Ocean science
ICAM
HAB
Capacity Development

 contribution
 strong contribution

Potential GEBCO contribution to IOC activities (TWAP-LME)

- Transboundary Waters Assessment Programme (GEF TWAP)-Large Marine Ecosystem (LME)
- Divided into 66 Large Marine Ecosystems (LMEs) of ocean space of approximately 200,000 km² or greater
- The assessment: overfishing, habitat destruction, pollution, productivity, socioeconomics and governance



Potential GEBCO contribution to IOC activities (Decision Support Tool for Marine Spatial Planning)

- Marine Spatial Planning is carried out by using various kinds of support tools
- **Caribbean Marine Atlas Phase 2 (CMA2)**
- **SPINCAM project** (Southeast Pacific data and information network in support to integrated coastal area management)
- GEBCO data layers are required. These platforms can be an interface for GEBCO to potentially reach a variety of end users.

CMA2: Caribbean Marine Atlas Phase 2

The screenshot displays the CMA2 web application interface. At the top, there is a search bar and a "Se connecter" button. Below this is a navigation menu with the following items: ACCUEIL, COUCHES, CARTES, DOCUMENTS, PEOPLE, and RECHERCHER. The main content area shows a map of the Caribbean region with various layers and navigation tools. The left sidebar contains a "Layers" panel with two sections: "Surimpressions" and "Couche".

Surimpressions:

- Threats
- Watershed-based pollution threat
- Marine-based pollution and damage threat
- Marine protected areas
- Disease observations
- Coral reefs (poly)
- Coral Condition
- Coastal development threat
- Cities/Settlements (by population size)
- Caribbean Resources
- Bleaching observations
- Areas of observed poison fishing
- Areas of observed blast or poison fishing
- Areas of observed blast fishing

Couche:

- Bing-Hibrido
- MapQuest Imágenes
- MapQuest OpenStreetMap
- OpenStreetMap
- No background

The map shows the Caribbean region with various layers and navigation tools. A scale bar indicates 100 km and 100 mi. The scale is 1 : 8735642. The map is displayed in a web browser window with a title bar that reads "Mapas / Ecoland - DanPAM".

<http://atlas.caribbeanmarineatlas.net/>

SPINCAM:

Southeast Pacific data and information network in support to integrated coastal area management

The screenshot displays the SPINCAM web application interface. At the top left, the logo for 'Atlas Regional SPINCAM' is visible. The top right corner features a navigation bar with logos for 'Flinders', 'IODE', and 'IOC'. Below the navigation bar, there is a search bar with the text 'Select a country...'. The main area is a map of the Southeast Pacific region, showing the coastline of South America and the Pacific Ocean. The map is overlaid with various data layers, including a large green square in the ocean and several smaller colored squares (yellow, orange, green) along the coast. On the left side, there is a 'Selected Layers' panel with a list of categories and sub-items, such as 'Áreas Protegidas', 'Densidad Poblacional', 'Calidad de Agua', 'Dinámica Poblacional', 'Pesca', 'Concesiones', 'Ecosistemas claves', 'Corales', 'Humedales-Estuarios', 'Manglares', 'Playa de Tortugas', and 'Vulnerabilidad'. At the bottom of the interface, there are tabs for 'Information', 'Simple Search', 'Advanced Search', and 'Biodiversidad (SIBIMAP)'. The bottom right corner of the map shows coordinates: -79.10832, 7.61637.

<http://www.spincamnet.net/>

Potential GEBCO contribution to IOC activities (BBNJ)

UNGA resolution 69/292 (15 June 2015) “Member States decided to develop an international legally binding instrument under UNCLOS on the conservation and sustainable use of marine biological diversity of areas beyond national jurisdiction.”

The package deal:

1. marine genetic resources, including question on the sharing of benefits,
 2. measures such as area-based management tools, including marine protected areas
 3. environmental impact assessments
 4. capacity building and the transfer of marine technology
- IOC’s potential role:
 - Facilitate the gathering of high quality data
 - Provide unbiased policy advice

Thank you!

Merci beaucoup!

¡Muchas Gracias!



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