



INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION  
COMMISSION Océanographique Intergouvernementale  
COMISIÓN OCEANOGRÁFICA INTERGUBERNAMENTAL  
МЕЖПРАВИТЕЛЬСТВЕННАЯ ОКЕАНОГРАФИЧЕСКАЯ КОМИССИЯ  
اللجنة الدولية الحكومية لعلوم المحيطات  
政府间海洋学委员会

UNESCO – 7 Place de Fontenoy - 75352 Paris Cedex 07 SP, France  
<http://ioc.unesco.org> - fax: +33 (0)1 45 68 58 12 - contact phone: +33 (0)1 45 68 03 18  
E-mail: [v.ryabinin@unesco.org](mailto:v.ryabinin@unesco.org)

**IOC Circular Letter No 2711**  
(Available in English only)

IOC/VR/OM  
26 January 2018

- To** : IOC Member States (Official National Coordinating Bodies for liaison with the IOC)  
Permanent Delegates/Observer Missions to UNESCO and National Commissions for UNESCO of IOC Member States
- cc.** : The Chairperson and Vice-Chairpersons of the Commission  
Officers of Major IOC Subsidiary Bodies (Scientific, Technical and Regional)

**Subject : Nomination of two IOC representatives at the GEBCO Guiding Committee (GGC)**

The joint IHO-IOC GEBCO (General Bathymetric Charts of the Ocean) Project is led by the GEBCO Guiding Committee (GGC) which includes five members appointed by the International Hydrographic Organization (IHO) and five members appointed by the IOC for a five-year term, renewable once. The Terms of Reference and the Rules of Procedure of the GGC are enclosed in Annex A for further detail. The current membership of the GGC is provided in Annex B.

Two of the IOC nominated experts (Dr Robin Falconer and Prof. Martin Jakobsson) will be coming to the end of their second term in 2018. So as to ensure continuity of work of the GEBCO Guiding Committee, and in accordance with GEBCO Terms of Reference and Rules of Procedure, the Executive Secretary will appoint two experts based on nominations received from IOC Member States.

The criteria for the selection of GGC Members include:

- Significant knowledge in bathymetry, especially in state-of-the-art ocean surveying and mapping;
- Experience in undersea topographic terrain analysis;
- Familiarity in the field of international marine history;
- Basic awareness in the marine Earth science disciplines.

An appropriate CV outlining the credentials and experience of the nominee should be provided in support of any proposed candidature. Please also note that the selected experts are expected to be supported and funded by their organization and to attend the next GGC meeting (GGC-35) as observers in Canberra, Australia, in November 2018.

**Chairperson**

Prof. Peter M. HAUGAN  
Research Director II, Institute of Marine  
Research/Geophysical Institute  
University of Bergen  
P.O. Box 1870 Nordnes  
5817 Bergen  
NORWAY

**Executive Secretary**

Dr Vladimir RYABININ  
Intergovernmental Oceanographic  
Commission — UNESCO  
7 Place de Fontenoy  
75352 Paris Cedex 07 SP  
FRANCE

**Vice-Chairpersons**

Ms Monika BREUCH-MORITZ  
President  
Federal Maritime and Hydrographic  
Agency (BSH)  
Bernhard-Nocht-Str. 78  
20359 Hamburg  
GERMANY

Dr Alexander POSTNOV  
Deputy Director  
State Oceanographic Institute  
ROSHYDROMET  
6, Kropotkinsky Lane  
119034 Moscow  
RUSSIAN FEDERATION

Mr Ariel Hernan TROISI  
Head, Oceanography Department  
Navy Hydrographic Service  
Av. Montes de Oca 2124  
C1270ABV Buenos Aires  
ARGENTINA

Dr Somkiat KHOKIATTIWONG  
Marine Biodiversity Research Specialist  
Department of Marine and Coastal  
Resources  
Government Compact B  
Changwattana Road  
Laksi  
12010 Bangkok  
THAILAND

Dr Ashley S. JOHNSON  
Director, Oceans Research  
Department of Environmental  
Affairs  
Foretrust Building  
Martin Hammerschlag Way  
Foreshore  
SW Cape 8012 Cape Town  
SOUTH AFRICA

IOC Member States are therefore requested to consider nominating suitable experts to fill the two above-mentioned IOC vacant seats, by sending a completed application form in Annex C and a CV **by 26 February 2018** by e-mail to Tetsushi Komatsu (t.komatsu@unesco.org). In my capacity as IOC Executive Secretary, I will examine the nominations received and, in liaison with the GGC Chair, will confirm nomination of the new members of the GGC.

The IOC Secretariat takes this opportunity to thank the future out-going GGC members for their active, reliable and very practical engagement in GGC activities over the many years, as well as their national supporting organizations for sponsoring them.

Looking forward to your earliest reply, I remain,

Yours sincerely,

*[signature]*

Vladimir Ryabinin  
Executive Secretary

Enclosures (3):      Terms of Reference and Rules of Procedures for GGC  
                                 GGC membership List  
                                 Nomination form

## Annex A

---

# GENERAL BATHYMETRIC CHART OF THE OCEANS (GEBCO) PROJECT – TERMS OF REFERENCE AND RULES OF PROCEDURE FOR THE JOINT IHO-IOC GEBCO GUIDING COMMITTEE

(Adopted by the IOC Assembly on 22 June 2015 and IHO on 11 September 2015)

## PREAMBLE

GEBCO was proposed in 1899 and became a reality in April 1903 when HSH Prince Albert I of Monaco offered to organize and finance the production of a new chart series designated: “The General Bathymetric Chart of the Oceans” (GEBCO), under the Prince’s Scientific Cabinet. In 1922 the responsibility for GEBCO was passed to the Director of the Oceanographic Museum of Monaco and in 1929 was transferred to the International Hydrographic Bureau (today the IHO). Since 1973, GEBCO has been a joint Project of the International Hydrographic Organization (IHO) and the Intergovernmental Oceanographic Commission (IOC) of UNESCO.

The goals of the IHO-IOC GEBCO Project are to:

1. Develop and constantly improve the portrayal of global ocean depths;
2. Act as the designated international authority for undersea feature names;
3. Advance the development and application of sea floor mapping technology;
4. Encourage and facilitate ocean mapping cooperation leading to the exchange and preservation of bathymetric data and associated metadata;
5. Foster collaboration among individuals and organizations with established and developing expertise so as to assist local and regional mapping efforts to attain a global standard of quality;
6. Identify oceanic areas that are insufficiently mapped and recommend to appropriate ocean-going organizations and institutions that such areas are surveyed;
7. Promote education and training in ocean mapping through high level courses in Ocean Bathymetry acknowledged by the IHO and IOC;
8. Bring together the ocean mapping community and users of bathymetry thereby leading to products that are more widely used.

GEBCO is an IHO and IOC Project that is open to all those interested in mapping the ocean floor. It relies largely on the voluntary efforts of an international collaborating community of scientists and hydrographers with the support of the IHO and the IOC.

GEBCO is led by the Joint IHO-IOC GEBCO Guiding Committee.

## Terms of Reference

The GEBCO Guiding Committee shall:

1. Guide the IHO-IOC GEBCO Project, under the general governance of IHO and IOC while recognising and following IHO and IOC policies.
2. Prepare and disseminate maps, grids, data files and other appropriate depictions of the ocean floor.
3. Identify the needs of the various user communities of the bathymetry of the world's oceans; study the ways and means whereby these needs can be met.
4. Identify the necessary resources, both human and financial, for its undertakings and make appropriate recommendations to its parent organizations.
5. Stimulate the flow of data relevant to the GEBCO Project by actively identifying sources of new data and encouraging and promoting the release of data to appropriate data banks, with the objective of ensuring that maximum available data are provided to the IHO Data Centre for Digital Bathymetry (DCDB).
6. Supervise the development, maintenance and routine updating of GEBCO products. Activities are to include but are not restricted to:
  - (1) Study and set out procedures for new compilations of bathymetry.
  - (2) Develop standards and methodologies for the production of bathymetric maps and grids and recommend their adoption to the IHO and IOC and to the seafloor mapping community.
  - (3) Supervise the development, production and updating of a worldwide grid of digital bathymetric data.
  - (4) Supervise the preparation and maintenance, in association with national and international bodies, of an authoritative IHO/IOC GEBCO Gazetteer of Undersea Feature Names.
  - (5) Study and implement the best distribution mechanism for the effective use of GEBCO products by all users.
7. Investigate and develop appropriate logistical and financial arrangements necessary for the furtherance of the GEBCO Project, recognising and taking into account the relevant IHO and IOC policies, and seeking the assistance of the Secretariats of the IHO and IOC as appropriate.
8. Integrate into its products the geographical names of undersea features that appear in the IHO-IOC GEBCO Gazetteer of Undersea Feature Names.
9. As required, establish subordinate bodies (sub-committees and working groups) to fulfil the Committee Work Programme and approve the Terms of Reference and Rules of Procedure of those bodies, reviewing annually the continuing need for each subordinate body. The GEBCO Guiding Committee will report annually and intersessionally if necessary, to the IHO and IOC for endorsement on the status of subordinate bodies and encompass their comments before establishing, reviewing, modifying, and/or terminating subordinate bodies; actions which must be included as GGC agenda items to allow sufficient prior consideration by the IHO and IOC secretariats and member states.
10. Direct and monitor the work of its subordinate bodies.

11. Engage with regional mapping projects to encourage their compatibility with, and eventual inclusion in, GEBCO products.
12. Build capacity by encouraging and enabling the training and scientific education of new generations of ocean mapping operational experts worldwide.
13. Pursue, in dialogue with the IHO and IOC, policies that facilitate the suitability of GEBCO products not only for scientific users but also, where appropriate, for educational and socio-economic purposes in the broadest sense.
14. Take all practical opportunities to advocate the scientific and societal benefits of mapping the seafloor.
15. Report annually to the IHO and to the IOC, through their respective governing bodies and should also propose activities to be considered in the IHO's and IOC's work programmes, identifying and requesting, where necessary, the required funding support.
16. Prepare an annual GEBCO Work Plan and budget and propose it to each meeting of the IHO and IOC, through their respective governing bodies. The Guiding Committee should consider and submit to the IHO and IOC governing bodies proposals for new work items under the GEBCO Work Plan, taking into account the financial, administrative and wider stakeholder consequences.
17. Monitor the execution of the GEBCO Work Plan and receive reports from its Subordinate Bodies, including an evaluation of performance and progress achieved against agreed objectives.

## **Rules of Procedure**

### **1. Membership**

- 1.1 The Committee shall consist of five Members appointed by the IHO, and five Members appointed by the IOC. The Secretariats of the IHO and IOC, in close consultation with the Committee Chair, will seek to strive that all appointed Members are, as far as possible, from different regions so as to achieve a balanced and diverse representation.
- 1.2 Appointed Members shall serve for a term of five years, renewable by a majority recommendation of the Committee for one additional five-year term and with the approval of the corresponding parent organization. The Chair shall inform the relevant parent organization of any foreseeable vacancy in a timely manner.
- 1.3 The Chairs of GEBCO Sub-Committees established under Article 9 of the Terms of Reference and the Director of the IHO Data Centre for Digital Bathymetry (DCDB), shall also be voting Members of the Committee. If a Member of the Committee mentioned under paragraphs 1.1 and 1.2 above is also the Chair of a subordinate body, that Member shall have only one vote on the Committee.
- 1.4 Representatives of the Secretariats of the IHO and IOC shall be permanent Observers in the Committee. The Secretariats of the IHO and IOC will also be recognised as permanent Observers in all subordinate bodies established by the Committee.
- 1.5 The Committee may invite other suitably qualified individuals to take part in specific meetings as Expert Contributors.
- 1.6 Members of the Guiding Committee serve as experts<sup>1</sup> in their personal capacity rather than as representatives of their organization and/or country.

1.7 Members are expected to attend every meeting of the Committee. Members who are absent for two consecutive meetings will normally be considered to have resigned and new nominations shall be sought. No substitution shall be allowed at meetings.

1.8 Business may be conducted between meetings by appropriate communication systems.

1.9 All documents related to meetings and decisions of the Committee and Sub-Committees and other relevant documents will be posted on the GEBCO web site linked to the IHO and IOC web sites.

## **2. Office Bearers**

2.1 The Chair and Vice-Chair shall be elected by the Committee from the voting Members of the Committee and normally should be from different parent organizations. The Chair and Vice-Chair are each elected for up to a five-year term, but not exceeding their current membership of the Committee. They can be re-elected for one additional term by the Committee. The Chair shall conduct the business of the Committee. If the Chair is unable to carry out the duties of the office, the Vice-Chair shall assume the Chair with the same powers and duties.

2.2 The Committee shall appoint a Secretary for a five-year term which can be renewed by the Committee. If resources permit and at the Committee's request, a secretary may be provided by either the Secretariat of the IHO or the IOC. The function of the Secretary shall be defined by the Guiding Committee.

## **3. Meetings**

3.1 Representatives from Member States of IHO and IOC may participate as observers in Committee meetings.

3.2 Meetings shall be held at least every two years. The venue and date of the next meeting will normally be decided at the previous meeting, in order to facilitate participants' travel arrangements.

3.3 The quorum to hold a meeting shall be two more than half of the voting Members of the Committee.

3.4 An extraordinary meeting can be called by the Chair or any Committee Member, with the agreement of the simple majority of all voting members of the Committee.

3.5 The working language of the Committee shall be English.

3.6 The Committee shall strive to make decisions by consensus. If consensus cannot be reached, decisions shall be taken by simple majority vote of the Members entitled to vote. The Chair shall have the casting vote if there is a tie.

## **4. Amendment and Revision**

4.1 These Terms of Reference and Rules of Procedure shall be endorsed and approved by the IHO and IOC according to their current procedures. The Committee may propose to IHO and IOC changes to these Terms of Reference and Rules of Procedure with the approval of two thirds of the Committee. Any changes shall enter in force after being endorsed and approved by both IHO and IOC.

-----

<sup>1</sup> So far as IOC is concerned, the Guiding-Committee is classed as a Joint Group of Experts under the IOC guidelines for subsidiary bodies.

**Annex B**

---

**THE JOINT IHO-IOC GEBCO GUIDING COMMITTEE (GGC)**

**Membership List (November 2017)**

1. IHO Appointed Members: Term Period:
- |   |                      |
|---|----------------------|
| <b>Vice Admiral (ret.) Shin Tani (Japan) (<i>Chair</i>)</b> | <b>(2013-2018)</b>   |
| <b>Rear Admiral Patricio Carrasco (Chile)</b>               | <b>(2013-2018)</b>   |
| Prof. Hyo Hyun Sung* (Republic of Korea)                    | (2014-2019)          |
| Dr Graham Allen (United Kingdom)                            | (2015-2020)          |
| [vacancy]   | to be filled in 2018 |
2. IOC Appointed Members:
- |   |                    |
|---|--------------------|
| <b>Prof. Martin Jakobsson (Sweden)* (<i>Vice-chair</i>)</b> | <b>(2013-2018)</b> |
| <b>Dr Robin Falconer* (New Zealand)</b>                     | <b>(2013-2018)</b> |
| Dr Marzia Rovere (Italy)                                    | (2014-2019)        |
| Dr Johnathan Kool (Australia)                               | (2016-2021)        |
| Captain Leonid Shalnov (Russian Federation)                 | (2016-2021)        |
3. Ex-officio Members:
- Dr Vicki Ferrini (USA) (*Chair of SCRUM*)
- Dr Karen Marks (USA) (*Chair of TSCOM*)
- Dr Hans-Werner Schenke (Germany) (*Chair of SCUFN*)
- Ms Jennifer Jencks (USA) (*Director of IHO-DCDB*)
4. Secretary:
- Mr David Wyatt (IHO) (2015)

\* Members serving a second 5-year term

*Members in Bold are coming to the end of their term at the closure of GGC-35 in November 2018*

**Annex C**

---

**THE JOINT IHO-IOC GEBCO GUIDING COMMITTEE (GGC)**

**Nomination Form**

*(to be returned to the IOC Secretariat, c/o. t.komatsu@unesco.org by 26 February 2018 by e-mail)*

Note: The boxes will expand as you type your answers

**Member State**

**YES or NO?**

**1. Would you like to nominate an expert to be a member of GGC?**

IF YES:

**Name of the candidate:**

**E-mail :**

**2. If the nominee is selected, is it your intention to support his/her participation in GGC-35, in November 2018?**

**Comments :**

**Signature and position:**

**Date :**

**Attachment:** CV of nominated applicant.