

**Second expert meeting of the Working Group on Marine Geospatial Information**  
**Leibniz-Institute for Baltic Sea Research Warnemünde, Rostock-Warnemünde, Germany**  
 24 – 28 February 2020

**Annotated Agenda**

**Background**

The Working Group aims to play a leading role in marine geospatial information policies at the global level to support the wellbeing of billions of inhabitants reliant on sustainable inland water bodies and waterways, coastal zones, seas and oceans. The Working Group is to provide a forum for dialogue and coordination among Member States, and between Member States and the International Hydrographic Organization, United Nations system and relevant international organizations to enhance global cooperation and improve the availability and accessibility of marine geospatial information.

The United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM) at its ninth session in August 2019, in recognizing that marine geospatial information must be made available and accessible for a multiplicity of purposes, invited the working group to consider the variety of marine data sources that might be available, and to provide real-world examples of the benefits of and need for readily available and accessible marine geospatial information. Whilst noting that the Working Group’s terms of reference included consideration of coastal zones, inland waterways and water bodies, to facilitate integrated ecosystems geospatial data management practices, and to consider capacity development activities to strengthen marine geospatial information capabilities in developing countries and small islands developing States (*E/2020/46; Decision 9/108*).

This second expert meeting of the Working Group will be held in conjunction with the 11<sup>th</sup> meeting of the Working Group on Marine Spatial Data Infrastructures of the International Hydrographic Organization and the meeting of the Marine Domain Working Group of the Open Geospatial Consortium. The meeting is hosted by the Federal Maritime and Hydrographic Agency (BSH) of Germany, a member of the Working Group, at the Leibniz Institute for Baltic Sea Research Warnemünde (IOW), Rostock-Warnemünde, Germany.

**Outline programme and agenda**

Monday, 24 February 2020	Joint meeting with 11 <sup>th</sup> meeting of the Working Group on Marine Spatial Data Infrastructures of the International Hydrographic Organization <ul style="list-style-type: none"> <li>▪ Opening session of the 11<sup>th</sup> meeting;</li> <li>▪ Reporting on marine spatial data infrastructures – successes, challenges and ways of overcoming them;</li> <li>▪ Discussions related to IHO Crowd-sourced bathymetry initiative, IHO Data Centre for Digital Bathymetry, Seabed 2030, and related IHO activities;</li> <li>▪ Sustainable Development Goals and marine spatial data infrastructures</li> </ul>
Tuesday, 25 February 2020	Joint meeting with 11 <sup>th</sup> meeting of the Working Group on Marine Spatial Data Infrastructures of the International Hydrographic Organization <ul style="list-style-type: none"> <li>▪ Consideration of furthering cooperation with UN WG-Marine Geospatial Information, engagement with UN Committee of Experts on Global Geospatial Information Management (<i>an ECOSOC subsidiary body</i>)</li> </ul>



	<ul style="list-style-type: none"> <li>▪ Status of the development of the S-100 suite of standards;</li> <li>▪ Discussion on data quality and integrity for marine spatial data infrastructure</li> <li>▪ Closing session of the 11<sup>th</sup> meeting</li> </ul>
Wednesday, 26 February 2020	<p>Joint meeting with Marine Domain Working Group of the Open Geospatial Consortium (<i>morning</i>)</p> <ul style="list-style-type: none"> <li>▪ Discussions on interoperability requirements, use cases, pilots and the implementation of OGC standards in the marine domain</li> </ul>
	<p>Second expert meeting of the Working Group on Marine Geospatial Information (<i>afternoon</i>)</p> <ul style="list-style-type: none"> <li>▪ Welcome, agenda and organization of work for the second expert meeting, introductions of members of the Working Group;</li> <li>▪ Presentations from host country, report of the co-Chairs on progress and results of the current work plan and activities, report of the UN Secretariat on the ninth session of the Committee of Experts;</li> <li>▪ Review of the outcomes and findings of the use case exercise, including breakout activities on data availability, accessibility and interoperability</li> </ul>
Thursday, 27 February 2020	<p>Second expert meeting of the Working Group on Marine Geospatial Information</p> <ul style="list-style-type: none"> <li>▪ Review of the outcomes and findings of the use case exercise, including breakout activities towards understanding the challenges, opportunities and feasible solutions in making available and accessible marine geospatial information for a multiplicity of applications;</li> <li>▪ The coastal zones, the land and sea interface, and integrated ecosystems data management practices;</li> <li>▪ United Nations Decade of Ocean Science for Sustainable Development (2021-2030);</li> <li>▪ Availability and accessibility of marine geospatial information for the 2030 Agenda for Sustainable Development - Seabed 2030 and the mapping of the global ocean floor, the IHO Data Centre for Digital Bathymetry, and relevant regional and sub-regional initiatives</li> </ul>
Friday, 28 February 2020	<p>Second expert meeting of the Working Group on Marine Geospatial Information</p> <ul style="list-style-type: none"> <li>▪ The United Nations Integrated Geospatial Information Framework and its Implementation Guide as a mechanism for articulating and demonstrating national leadership;</li> <li>▪ Capacity and capability development particularly for developing countries and small island developing States;</li> <li>▪ Review of current work plan and activities, consider new and emerging opportunities, and updating the work plan</li> <li>▪ Outcomes of the meeting including the joint meetings, tasks and timelines, and reporting to the tenth session of the Committee of Experts;</li> <li>▪ Closing session of the second expert meeting.</li> </ul>

Monday, 24 February 2020

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**09:00 a.m. –18:00 p.m.**

**11<sup>th</sup> IHO Marine Spatial Data Infrastructures Working Group Meeting**

Chair: Mr. Jens Peter Weiss Hartmann, Danish Hydrographic Office

- » Welcome, introduction of participants and practical information
- » Approval of Agenda
- » Terms of Reference for MSDIWG
- » Objectives for and structure of the 11<sup>th</sup> meeting
- » National presentations from members on the status of MSDI
- » Report from IHO Regional Hydrographic Commission
- » Presentations on other MSDI initiatives
- » United Nations Sustainable Development Goals
- » IHO-OGC MSDI Concept Development Study
- » MSDI training materials

*Note:*

*Breaks for refreshments may be taken at about 10:30 a.m. and 15:00 p.m.*

*Lunch break scheduled for 12:30 p.m. – 13:30 p.m.*

Tuesday, 25 February 2020

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**08:30 a.m. –17:00 p.m.**

**11<sup>th</sup> IHO Marine Spatial Data Infrastructures Working Group Meeting**

Chair: Mr. Jens Peter Weiss Hartmann, Danish Hydrographic Office

- » Maturity assessment of MSDI from a national perspective
- » Cooperation with Open Geospatial Consortium
- » Engagement with UN-GGIM and cooperation with its Working Group on Marine Geospatial Information
- » IHO Strategic Plan
- » S-100 development and showcase
- » Communication and outreach
- » Review of tasks
- » Updating the MSDIWG work plan for 2018 – 2020 and list of actions
- » Preparation of report for 11<sup>th</sup> meeting
- » Preparation for the 12<sup>th</sup> meeting
- » Review and evaluation of the 11<sup>th</sup> meeting
- » Closing

*Note:*

*Breaks for refreshments may be taken at about 10:30 a.m. and 15:00 p.m.*

*Lunch break scheduled for 12:30 p.m. – 13:30 p.m.*

Wednesday, 26 February 2020

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**08:30 a.m. –12:30 p.m.**

**Meeting of the Joint IHO-OGC Marine Domain Working Group**

Chair: Mr. Sebastian Cariso, National Geospatial-Intelligence Agency (NGA), United States

- » Presentations and discussion of interoperability requirements, use cases, pilots, and progress in the implementation of standards in the marine domain

*Note:*

*Break for refreshments may be taken at about 10:30 a.m. or as appropriate*

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**12:30 p.m. –13:30 p.m.**

**Lunch**

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**13:30 a.m. – 14:00 p.m.**

**Second expert meeting of the Working Group on Marine Geospatial Information  
*Registration of Members and Invited Observers***

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**14:00 p.m. – 18:00 p.m.**

**Second expert meeting of the Working Group on Marine Geospatial Information**

Facilitator:

Mr. Mamadou Kabre, Co-Chair, Working Group on Marine Geospatial Information  
*Geographic Institute of Burkina, Burkina Faso*

**Agenda #1 – Welcome and introductions**

*The segment includes welcome remarks, introduces additional meeting participants and the meeting agenda, objectives and desired outcomes, and inform the meeting of organizational matters.*

- » Welcome remarks
  - Mr. Stefan Grammann  
*Federal Maritime and Hydrographic Agency, Germany*
  - Mr. John Nyberg, Co-Chair, Working Group on Marine Geospatial Information  
*National Oceanic and Atmospheric Administration, United States of America*
- » Round of introductions:
  - Members of the Working Group*
  - Invited observers*
- » Meeting agenda and related organizational matters
  - Mr. TEO CheeHai  
*UN Secretariat, Global Geospatial Information Management*



- » Rostock meeting of the Working Group on Marine Geospatial Information: objectives and expected outcomes
  - Mr. Mamadou Kabre  
*Co-Chair, Working Group on Marine Geospatial Information*

### **Agenda #2 – Reports and updates**

*This segment will receive the report of the co-Chairs on progress and results of the current work plan and activities, and the ninth session of the Committee of Experts. There will be an update on the United Nations Committee of Experts on Global Geospatial Information Management, its work programme and priorities.*

- » Report from the co-Chairs and review of the Work Plan
  - Mr. John Nyberg  
*Co-Chair, Working Group on Marine Geospatial Information*
- » United Nations Committee of Experts on Global Geospatial Information Management, its work programme and priorities
  - Mr. TEO CheeHai  
*UN Secretariat, Global Geospatial Information Management*

### **Agenda #3 – Initiatives and activities**

*This segment aims to update the meeting regarding initiatives and activities as relates to the objectives and work plan of the Working Group including contributions from host country, Seabed 2030, the Decade of Ocean Science for Sustainable Development and related initiatives.*

- » National report – Making data available
  - Mr. Stefan Grammann  
*Federal Maritime and Hydrographic Agency, Germany*
- » United Nations Decade of Ocean Science for Sustainable Development
  - Mr. James Carey  
*United Kingdom Hydrographic Office*
- » Seabed 2030 and the availability and accessibility of global bathymetric data
  - Mr. Jamie McMichael-Phillips  
*Nippon foundation-GEBCO Seabed 2030 Project*
- » Availability and accessibility of marine geospatial information: IHO's priorities and capacity development
  - Mr. Alberto Costa Neves  
*International Hydrographic Organization*
- » OGC-MSDI Concept Development Study
  - Mr. Sebastian Carisio,  
*National Geospatial Intelligence Agency*

*Note:*

*Break for refreshments may be taken at about 15:30 p.m. or as appropriate*

*A group photograph will be organized and taken at an appropriate time before the end of the session*

*Contributions to the agenda should be focused and succinct, preferably through a powerpoint presentation of no more than fifteen minutes*

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**Thursday, 27 February 2020**

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**08:00 a.m. – 08:30 a.m.**

**Regrouping**

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**08:30 a.m. – 12:30 p.m.**

**Second expert meeting of the Working Group on Marine Geospatial Information**

Facilitator:

Mr. John Nyberg

*Co-Chair, Working Group on Marine Geospatial Information*

**Agenda item #4 – Use case exercise**

*This segment will have an in-depth review of the results from the use case exercise to-date, consider and discuss findings, identify critical issues, consider proven practices and develop feasible approaches to address issues and challenges. The segment will determine what to highlight and report to the Committee of Experts. The meeting may decide to have break-out discussions in this segment.*

- » Results and findings of the use case
  - Ms. Sasha Doss  
*Lynker Technologies/National Oceanic and Atmospheric Administration*
  
- » Additional contributions to the deliberation:
  - » Marine spatial planning and Offshore Wind Energy
    - Mr. Paul Elsner, *University of London*
  
- » Facilitated discussions
  
- » Outcomes and conclusions

*Note:*

*Break for refreshments may be taken at about 10:30 p.m. or as appropriate*

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**12:30 p.m. – 13:30 p.m.**

**Lunch**

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13:30 p.m. – 17:30 p.m.

**Second expert meeting of the Working Group on Marine Geospatial Information**

Facilitator:

Mr. Stefan Grammann, member, Working Group on Geospatial Information  
*Federal Maritime and Hydrographic Agency, Germany*

**Agenda item #5 – Integrated Geospatial Information Framework (IGIF) in the Marine Domain**

*The Committee of Experts requested the Working Group participate in the implementation of the IGIF. This segment updates the meeting of the concepts presented in the IGIF, consider how the IGIF is being operationalized at country-level, and consider how the working group can implement the IGIF in the marine domain.*

- » An overview of the Integrated Geospatial Information Framework
  - ❑ Mr. TEO CheeHai  
*UN Secretariat, Global Geospatial Information Management*
  
- » The implementation the IGIF in Burkina Faso
  - ❑ Mr. Mamadou Kabre  
*Geographic Institute of Burkina*
  
- » The implementation the IGIF in the Kingdom of Tonga
  - ❑ Mr. Mafoa Penisoni  
*Ministry of Lands and Natural Resources*
  
- » Facilitating the operationalization of IGIF at country-level
  - ❑ Mr. Njal Tengs-Hagir  
*Norwegian Mapping Authority*
  
- » The Framework for Effective Land Administration – translating high-level concepts for practical implementation in the land sector by the Expert Group on Land Administration and Management
  - ❑ Mr. TEO CheeHai  
*UN Secretariat, Global Geospatial Information Management*
  
- » Development guidance and recommended actions aligned with IGIF Strategic Pathway 2 - Policy and Legal by the Working Group on Legal and Policy Frameworks for Geospatial Information Management
  - ❑ Mr. TEO CheeHai  
*UN Secretariat, Global Geospatial Information Management*
  
- » Facilitated discussion

Note:

*Break may be taken at about 15:00 p.m. or as convenient during the segment  
Contributions to the agenda should be focused and succinct, preferably through a powerpoint presentation of about ten minutes*

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**08:00 a.m. – 08:30 a.m.**

**Regrouping**

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**08:30 a.m. – 12:30 p.m.**

**Second expert meeting of the Working Group on Marine Geospatial Information**

Facilitator:

Mr. Mamadou Kabre

*Co-Chair, Working Group on Marine Geospatial Information*

**Agenda item #6 – Consideration of items related the work plan and objectives of the Working Group**

*This segment aims to update the meeting regarding agreed work items, have an in-depth review of the progress and results where appropriate and consider how to advance agreed work items, the deliverables and milestones to meet the objectives of the Working Group.*

- » Promoting availability and accessibility of marine geospatial information for sustainable development:
  - » An international innovation centre
    - Mr. Parry Oei/Ms. Pearlyn Pang, *Maritime and Port Authority of Singapore*
    - » IHO Data Centre for Digital Bathymetry
      - Mr. John Nyberg, *National Oceanic and Atmospheric Administration*
- » Communications, engagement and partnership
- » Capacity development and inclusion
- » Standards for geospatial information in marine and inland waters
- » Proposed guide on marine geospatial standards for the common person
- » Inland waters and waterways
- » The land and sea interface (coastal zone)
- » Facilitated discussions

*Note:*

*Break may be taken at about 10:30 a.m. or as convenient during the segment*

*Contributions to the agenda should be focused and succinct, preferably through a powerpoint presentation of no more than ten minutes*

*Additional contributions from expert representatives of Member States and relevant stakeholders are welcomed.*



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**12:30 p.m. – 13:30 p.m.**  
**Lunch**

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**13:30 p.m. – 17:00 p.m.**  
**Second expert meeting of the Working Group on Marine Geospatial Information**

Facilitator:

Mr. John Nyberg  
*Co-Chair, Working Group on Marine Geospatial Information*

**Agenda item #7 – Next Steps and Wrap-up**

*The meeting to review and update its current workplan, consider and plan for additional activities. In this segment, the Working Group will discuss and agree on next steps, activities, deliverables, and milestones to continue to: (i) raise awareness and to highlight the significance of reliable, timely and fit-for-purpose marine geospatial information; (ii) encourage the use of internationally agreed frameworks, systems and standards; and (iii) support global efforts to significantly improve the availability, accessibility and application of geospatial information including capacity and capability development; for the wellbeing of society and it's relationships with the environment and economy.*

- » United Nations Working Group on Marine Geospatial Information: Work plan for 2019 – 2020
  - ❑ *Mr. Mamadou Kabre & Mr. John Nyberg*  
co-Chairs, Working Group on Marine Geospatial Information
- » Facilitated discussions
- » Outcomes and conclusions

**Agenda item #8 - Closing**

- » Outcomes and decisions of the second expert meeting of the Working Group
  - ❑ *Mr. Mamadou Kabre & Mr. John Nyberg*  
co-Chairs, Working Group on Marine Geospatial Information
- » Closing remarks
  - ❑ Mr. Stefan Grammann  
*Federal Maritime and Hydrographic Agency, Germany*
  - ❑ Mr. Mamadou Kabre, Co-Chair, Working Group on Marine Geospatial Information  
*Geographic Institute of Burkina, Burkina Faso*
  - ❑ Mr. John Nyberg, Co-Chair, Working Group on Marine Geospatial Information  
*National Oceanic and Atmospheric Administration, United States of America*