1. **IHO-IOC GEBCO Technical Sub-Committee on Ocean Mapping (TSCOM) Work Plan 2025-2026**

1.1 TSCOM Tasks

B   Ensure conduct of TSCOM meeting in 2025-2026 (IHO Task 3.6.1)

C   Ensure effective operation of IHO DCDB (IHO Task 3.6.2)

D   Develop and maintain tools to facilitate the contribution of bathymetric data to the IHO DCDB (IHO Task 3.6.3)

E   Maintain IHO bathymetric publications (IHO Task 3.6.6) including: B-4, B-9, B-10 and B-11

F   Develop the on-line function of B-4 (Information concerning recent bathymetric data) (IHO Task 3.6.6)

G   Support SCOPE in its outreach and education about ocean mapping (IHO Task 3.6.7) by development and dissemination of IHO-IOC GEBCO products such as the Global Gridded Product and Printed World Map

H   Ensure IHO-IOC GEBCO Web site is kept current and updated regularly (IHO Task 3.6.8)

K   Provide technical support, advice, and review to Seabed 2030 Project Director, RDACCs and GDACC

L   Provide support and advice to developing and validating emerging technologies for compiling and disseminating bathymetry

Task	Work item	Priority H-high M-medium L-low	Milestones	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person(s) * indicates leader	Related Pubs/Standard	Existing budget	Funding Bid (€)	GGC Decision
B	Ensure conduct of TSCOM meeting	H	Report of TSCOM meeting to GGC	Continuous		O	Chair TSCOM				
C	Ensure effective operation of IHO DCDB	H	Conduct review	Continuous		O	Director DCDB				
D3	Conduct DCDB Industry Day and Data Contribution Workshop		Conduct virtual workshop and industry day See Annex A	2020	2023	C	Chair TSCOM Director DCDB				
D4.0	Develop and structure plans for the Goals identified in D3	H	Detailed workplans for each of the 4 goals See Annex A	2023	2025	O	Chair TSCOM Chair SCRUM Chair SCOPE Director DCDB				Approved by GGC 40

Task	Work item	Priority H-high M-medium L-low	Milestones	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person(s) * indicates leader	Related Pubs/Standard	Existing budget	Funding Bid (€)	GGC Decision
D4.1	Goal 1: Increase data availability: Transit Mapping	H	See Annex B Transit Mapping Guidance Doc.	2023	2026	O	Chair WG D4.1 Chair TSCOM Chair SCRUM Director DCDB	B-12 – IHO Guidance on CSB			Approved by GGC 40
D4.2	Goal 2: Enhance Metadata and improve Web services	H	See Annex C	2023	2026	O	Chair WG D4.2 Chair TSCOM Chair SCRUM Chair DCDB				Approved by GGC 40
D4.3	Goal 3: Encourage the use of a common generic sonar format for bathymetry	H	See Annex D	2023	2026	O	Chair WG D4.3 Chair TSCOM Director DCDB				Approved by GGC 40
D4.4	Goal 4: Unify an approach for disseminating information & outcomes	L	See Annex A	2023	2026	P	Chair TSCOM Chair SCRUM Chair SCOPE Director DCDB				Approved by GGC 40
E1	Maintain IHO bathymetric publications	M		Continuous		O	All members of GEBCO GC through the Chair	B-4 - Information concerning recent bathymetric data B-11 - GEBCO Cookbook			

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E2	Study future of GEBCO Cookbook	L	Questionnaire results	2025	2025	P	Interim Chair, Cookbook editorial board	B-11 GEBCO Cookbook			
		M	Seek instructive chapters on contributing data, metadata requirements, platforms for viewing gaps and coverage, CSB, etc.	Continuous		O					
E3	Review GEBCO Digital Grid and methodologies	H	Yearly review	Continuous		O	Chair TSCOM Digital GRID Manager				
F	Develop, review, and maintain the on-line function of B-4	M	Conduct review	Continuous		O	Director DCDB				

Task	Work item	Priority H-high M-medium L-low	Milestones	Start Date	End Date	Status P-planned O-ongoing C-completed	Contact Person(s) * indicates leader	Related Pubs/Standard	Existing budget	Funding Bid (€)	GGC Decision
H3	Review, Update and Maintain IHO-IOC GEBCO website	H	Ensure Website Continuity by providing funds	Continuous		O	Chair TSCOM BODC		See note		
		M	Update website with meeting documents	Continuous		O	BODC				
		H	Validate members and contact information for SCRUM, TSCOM, and SCOPE	Continuous		O	Chairs TSCOM, SCRUM, SCOPE				
		M	Review and maintain all working links	Continuous		O	Chair TSCOM, BODC				
		M	Provide technical and content review	Continuous		O	Chairs TSCOM, SCRUM, SCOPE				
		L	Investigate possible integration of SCOPE website into main GEBCO website	2022	2025	P	Chairs TSCOM, SCOPE, BODC				

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K1	Support Seabed 2030	H	Provide scientific expertise and outreach	2018	2030	O	Chair TSCOM,				
		M	Proposal for Discrete Global Grid Systems	2022	2025	O	Chair TSCOM				
K2	Travel to assist gathering technical needs from Seabed 2030, RDACCs and GDACC	M	Attend RMCs for RDACCs	2019	2026	O	Chair TSCOM				
K3	Provide oversight and review of Seabed 2030 web services, methodologies and applications in accordance with TSCOM ToRs	H	Conduct regular reviews and participate in technical meetings	2019	2030	O	Chair TSCOM				

L1	Global Bathymetric Coverage Metadata Service	H	See Annex E	2019	2026	O	Chair WG Chair TSCOM				Approved by GGC38

1.2 Remarks

B. Ensure conduct of TSCOM meeting in 2025-2026 (IHO Task 3.6.1)

TSCOM will organize a face to face meeting in 2025 if it can be combined with the organization of a "GEBCO week". If such an event does not take place in 2025 a virtual meeting like in 2024 will be held as official TSCOM meeting. Note that the 3 years term for the Chair and Vice Chair ends in 2024. How to continue in 2025 will be a GGC41 decision.

D. Develop and maintain tools to facilitate the contribution of bathymetric data to the IHO DCDB (IHO Task 3.6.3)

The successful series of Webinars and the TSCOM Boulder meeting have resulted in strategic goals to improve the availability, discovery and access of Bathymetric data. These goals are described in the "Executing a GEBCO Community Vision" document available on the TSCOM website. At the TSCOM/DCDB meeting in Boulder this year, action plans were discussed for each of these goals. With support and funding from Seabed 2030, the action plan for goal 3 (Encourage the use of a common generic sonar format for bathymetry) is currently being executed. The action plans for goal 1 (Increase data availability: Transit Mapping) and goal 2: (Enhance Metadata and improve Web services) are drafted and these will be executed in 2025. For goal 4 (Unify an approach for disseminating information & outcomes) more co-ordination SCOPE is required before work can continue.

E. Maintain IHO bathymetric publications (IHO Task 3.6.6) including: B-4, B-10 and B-11

TSCOM was unsuccessful in nominating a new Chair for the GEBCO Cookbook editorial board. Since no new content is being submitted even after multiple attempts and request to GEBCO stakeholders to do so and no candidate to take over the Chair, it is at least questionable if there is a need for the Cookbook in its current form at all. Based on

this TSCOM has decided to appoint an interim Chair with the task to conduct a survey about the future of the Cookbook. In the meantime the editorial board is open to receive new contributions to the Cookbook.

H. Review, Update and Maintain IHO-IOC GEBCO Website

As a result of findings from the GEBCO Governance review and multiple requests from BODC to act on this, a new contract for hosting and maintenance has been drafted with BODC.

K. Provide technical support, advice, and review to Seabed 2030 Project Director, RDACCs and GDACC

Seabed 2030 has requested TSCOM to investigate options for use of multi resolution grids and to optimize the use of map projections in the GEBCO grid. Originally TSCOM had the intention to set up two separate working groups for this. Initial work has shown that Discrete Global Grids (DGGs) can fulfil both. This has resulted in the formation of a single WG studying the use of DGGs. This work is ongoing. As a first result the GEBCO TID was converted into a DGG and statistics were calculated based on the result. TSCOM is happy to report that the statistics based on the DGG work compare very well to those reported by the Seabed 2030 project. Next step for the DGG WG is to convert the full GEBCO grid with the multiple resolutions that are available into a single DGG.

L . Provide support and advice to developing and validating emerging technologies for compiling and disseminating bathymetry

In previous TSCOM workplans the Opportunistic Mapping Resources Working Group was listed as an individual work item and the WG has progressed steadily. TSCOM decided after developing the GEBCO TSCOM Community Vison to further integrate the work of the Opportunistic Mapping Resources Working Group into the work items listed under D. However, given the strong development aspect and for reasons of continuity and readability the work item in this year's TSCOM plan remains listed under item L.
The project under this work item will work towards a Global Bathymetric Coverage Metadata Service for which a detailed workplan has been drafted which is available as Annex E.

1.3 TSCOM Meetings (IHO Task 3.6.1 refers)

Date	Location	Activity
1-4 October 2012	IHB, Monaco	XXVIIIth Meeting
7&9 October 2013	Venice, Italy	XXIXth Meeting
11-13 December 2014	Mountain View, California, USA	XXXth Meeting

5-7 October 2015	Kuala Lumpur, Malaysia	XXXIIth Meeting
10-12 October 2016	Viña del Mar, Chile	XXXIIIth Meeting
13-14 November 2017	Busan, Korea	XXXIVth Meeting
5-6 November 2018	Canberra, Australia	XXXVth Meeting
4-5 November 2019	Portsmouth, NH, USA	XXXVIth Meeting
11&14 January 2021	Remote VTC	XXXVIIth Meeting
9&19 November 2021	Remote VTC	XXXVIIIth Meeting
September 2022	Remote VTC	Intersessional meeting
26 October 2022	Southampton, UK	XXXIXth meeting
12 September 2023	Remote VTC	Intersessional meeting
November 2023	IHB, Monaco	XLth meeting
10 September 2024	Remote VTC	XLIth meeting

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