

1.1. IHO-IOC GEBCO Technical Sub-Committee on Ocean Mapping (TSCOM) Work Plan 2023-2024

1.1 TSCOM Tasks

- B Ensure conduct of TSCOM meeting in 2023-2024 (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	2022	2024	P	Chair TSCOM				
C	Ensure effective operation of IHO DCDB	H	Conduct review	Continuous		O	Director DCDB				
D1	Document dataflow processes	H	Cookbook instructional chapter	Continuous		O	Chair TSCOM Director DCDB Director Seabed 2030				
D3	Conduct DCDB Industry Day and Data Contribution Workshop	H	Conduct virtual workshop and industry day	2020	2023	P	Chair TSCOM Director DCDB		5k (re-allocated from E2)	10k	

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E1	Maintain IHO bathymetric publications	M H		Continuous		O	All members of GEBCO GC through the Chair	B-4 - Information concerning recent bathymetric data B-9 - GEBCO digital atlas (discontinued as of 2022) B-11 - GEBCO Cookbook			
E2	Add and update instructive chapters in IHO-IOC GEBCO Cook Book	H	Maintain B-11 Add section related to Seabed 2030 Investigate e-Publication format for B-11 Seek instructive chapters on contributing data, metadata requirements, platforms for viewing gaps and coverage, CSB, etc.	Continuous 2019 2020 Continuous	 2022 2022 2030	O O P O	Chair TSCOM Chair, Cookbook editorial board	B-11 GEBCO Cookbook			
F	Develop, review, and maintain the on-line function of B-4	M	Conduct review	Continuous		O	Director DCDB				

5k
Re-allocate
to D3

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	M	Update website with meeting documents	2019	2024	O	BODC		See note		
			Validate members and contact information for SCRUM, TSCOM, and SCOPE	2019	2024	O	Chairs TSCOM, SCRUM, SCOPE				
			Review and maintain all working links	2019	2024	O	Chair TSCOM, BODC				
			Provide technical and content review of both websites	2019	2024	O	Chairs TSCOM, SCRUM, SCOPE				
			Set up Google workspace for GGC and Sub committees.	2022	2022	C	Chair TSCOM, BODC				
			Investigate possible integration of SCOPE website into main GEBCO website	2022	2023	P	Chairs TSCOM, SCOPE, BODC		5k		

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K1	Support Seabed 2030	H	Provide scientific expertise and outreach Proposal for Discrete Global Grid Systems	2018 2022	2030 2023	O O	Chair TSCOM, Chair TSCOM				
K2	Travel to assist gathering technical needs from RDACCs and GDACC	M	Attend RMCs for RDACCs	2019	2024	O	Chair TSCOM		4k		
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	Develop template for seafloor mapping route optimization application	H	Conduct requirements survey	2019	2023	O	Chair TSCOM		10k (of which 3.6k spent but not yet invoiced)		Approved by GGC38
	Monitor and advice (on) use of metadata based on outcome of metadata working group		Prototype and document web app			O					
			Optimal use of metadata schema	2022	2030	O					

*In green - enter the amount already allocated if it is unspent but planned to be spent by the end of 2023 or what is left from that budget line if partially spent

*In red - indicate funds that you will not spend and that you wish to return or reallocate

*In Blue - indicate new or increased funding bids that you are requesting

1.2 Remarks

B. Ensure conduct of TSCOM meeting in 2023-2024 (IHO Task 3.6.1)

TSCOM is expecting to have one (face to face) meeting in 2023. Possibly aligned with the activities of the GEBCO symposium/week. In addition to the face to face meeting, at least one virtual meeting will be held early summer 2023.

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

The DCDB industry day will be organized in 2023. To prepare, DCDB will organize one or more (virtual) Data Contribution Workshops early 2023.

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

An e-pub version of the GEBCO cookbook is expected in 2023

H. Review, Update and Maintain IHO-IOC GEBCO

NOC will review reviewing the required budget for hosting the GEBCO website. 7.5k was spent in 2022 but we believe this can be reduced. NOC will have to justify the budget before GGC40. Until then, budget will be hold.

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. TSCOM has the intention to set up two separate working groups for this. First milestone for both working groups will be a literature review by the end of 2022/early 2023. In 2023 the intention is to set up a test bed to gain practical experience with the various option. No budget is needed for 2022 but for 2023 a budget request will be put forward to GGC.

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

In order to avoid duplication of efforts (both for the development of tools and actual survey work), the development of tools, applications and data layers needs to be coordinated and stream-lined. Goal is to create an environment within GEBCO and Seabed 2030 that is easy accessible by all stakeholders (on-line and off-line). Currently multiple initiatives are underway or have been completed without or with little coordination between them. This is far from ideal. In 2022 various meetings took place to improve this. As a result a first step is made to investigate the creation of a data layer based on the A+B+C=100% paradigm where A is what we have, B is what is available or on its way but not yet published and C is not surveyed. Proposal is that TSCOM will take the lead for this and the outcome will be made available through Seabed 2030 (with respective budgets utilized). In 2022 a draft report is circulated on this topic. It is expected that a final version of the report, outlining the data layer, will be available early 2023.

At the time of GCC39 \$ 3.600 has been spent out of the total of 10k Euro budget.

1.3 TSCOM Meetings (IHO Task 3.6.1 refers)

Date	Location	Activity
1-4 October 2012	IHB, Monaco	XXVIII th Meeting
7&9 October 2013	Venice, Italy	XXIX th Meeting
11-13 December 2014	Mountain View, California, USA	XXX th Meeting
5-7 October 2015	Kuala Lumpur, Malaysia	XXXII th Meeting
10-12 October 2016	Viña del Mar, Chile	XXXIII th Meeting
13-14 November 2017	Busan, Korea	XXXIV th Meeting

5-6 November 2018	Canberra, Australia	XXXV th Meeting
4-5 November 2019	Portsmouth, NH, USA	XXXVI th Meeting
11&14 January 2021	Remote VTC	XXXVII th Meeting
9&19 November 2021	Remote VTC	XXXVIII th Meeting
September 2022	Remote VTC	Intermediate meeting
26 October 2022	Southampton, UK	XXXIX th meeting
October 2023	Victoria, CA?	XXXX th meeting

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