

IHO-SGP Innovation and Technology Laboratory

8th Governing Board Meeting (GBM), In-person and VTC

17 October 2024, 13:30 ~ 14:30 (UTC+2, CEST)

List of Decisions and Actions from the 8th Governing Board Meeting

Doc No.	Title	Remarks
GBM08	Opening Remarks	
	Chair commented on interactions at the 8th Council Meeting (C-8), while the GM shared feedback received at EAHC MSDIWG meeting. Both noted that stakeholders at these meetings showed great interest in learning more about the ongoing projects and their potential outcomes.	
GBM08-01a	Confirmation of Minutes of last Meeting	
Decision 8/1	Meeting approved the decision and actions of the 7th GB Meeting posted on the IHO Lab GBM7 webpage.	
GBM08-01b	Review and Update actions of last Meeting	
Decision 8/2	Meeting reviewed and updated the actions from the 7th GBM and concluded that all action items had been completed.	
GBM08-2	Update on Approved IHO Lab Projects	
GBM08-2a	S-131 Marine Harbor Infrastructure Database Project	
	<p>GM shared that the Project Team has successfully deployed the API and GUI on the cloud infrastructure. He added that although the Project has been officially completed, the Project Team agreed to follow through as the Server has been established and could run for a period of 3 years, depending on usage. The Project Team will be engaging with relevant stakeholders to conduct testing and refine the API and GUI design based on feedback.</p> <p>During a side meeting at NIPWG11, PT Lead Sarah shared that Capt Ben from Port of Rotterdam (POR) provided feedback that e-navigation would require more detailed data. The project team concluded that the current priority is to create guidance materials to facilitate easy use for port/harbours to contribute their data, including confining to essential information at this stage.</p> <p>GM added that Port of Montreal & Port of Vancouver will begin in November 2024.</p> <p>HSSC Chair Magnus asked if Sarah would continue to lead this project, and whether funding would be required. GM clarified that both scenarios would be unlikely, and no funding support anticipated, except for running the servers.</p> <p>IHO Secretariat asked if any ports/harbours had been shortlisted. GM informed that at recent EAHC-MSDIWG, EAHC members with access to port information were encouraged to contribute. HSSC Chair Magnus shared that there should be continued conversations with International Harbor Masters Association (IHMA).</p> <p>GM raised a point for consideration regarding the use of the Maritime Connectivity Platform (MCP) as an authenticator tool, which arose from discussions at the 2nd IHO/IALA S-100 workshop. However, this implementation is pending as IALA ARM is awaiting decisions on how to proceed with both MCP and Secure Exchange and Communication of Maritime Data (SECOM).</p> <p>IHO Secretariat asked for timeline of project after the technical completion of the deployment of the database, and request a final report of project. GM shared that the PT Lead Sarah would collate findings/results and submit report to the Governing Board Members for approval.</p>	

GBM08-2b	S-102 Portrayal with S-101 on a prototype S-100 ECDIS	
Action 8/1	GM noted that there are a few projects S-102 have been undertaken by other Hydrographic Offices. GM shared that there is a need for further examination with KRISO on testing of different portrayals. HSSC Chair Magnus reminded to align to S-98 requirements.	
GBM08-2c	S-57 and S-101 ENC's (Dual Fuel) Sea Demonstration on S-100 ECDIS along major shipping routes	
Action 8/2	<p>GM shared that Phase 1 has been completed, including 2 workshops and 2 sea-demonstrations for dual-fuel MSS-ENCs in selected areas of Malacca and Singapore Straits (MSS). Phase 2 is ongoing onboard <i>AMERIGO VESPUCCI</i>, involving sea-demonstrations for S-57 ENC's from U.S west coast, and dual-fuel ENC's in Darwin and throughout the entire MSS.</p> <p>GM highlighted valuable lessons learned from workshops and sea demonstrations. He noted that the data producers faced challenges as S-100 introduced new revisions that software providers had to keep up with, including updating to the KHOA's dual-fuel ECDIS. It was a collaborative effort among all parties to ensure consistency across all implementations according to the Product Specification.</p> <p>A key observation was that S-101 took priority regardless of scale and suppressed the S-57 when both S-57 and S-101 ENC's were used. Some findings had already been shared at ENCWG9, and also to be shared at S-100WG9.</p> <p>Chair informed that at C-8, the Australian Hydrographic Office (AHO) shared that they visited the <i>AMERIGO VESPUCCI</i> in Darwin, and were pleased with the tests conducted in Darwin.</p> <p>GM informed that the Singapore team would visit <i>AMERIGO VESPUCCI</i> when she makes a port stay in Singapore from 23-28 October 2024. The Chief of Italian Navy would also be present. A media release is being prepared for IHO input and endorsement for joint release. Alternatively, there could be a joint Italian and Singaporean release.</p> <p>HSSC Chair Magnus mentioned that new dual fuel requirements were discussed at C-8, referring to Annex 4 of the S-100 roadmap. However, he noted that more information may be required to fully evaluate these requirements.</p> <p>Upon completion of both Phase 1 and Phase 2, findings and results will be reported to the Governing Board Members for approval to conclude the project.</p>	
GBM08-3	Potential project / proposal	
GBM08-3a	Integration of land and sea datum for possible use cases on coastal inundation scenarios	
	<p>GM mentioned that this topic had been raised in a recent OGC-moderated forum in Singapore, emphasising the need to pay attention to the growing interests in this area.</p> <p>GM shared that Global Geodetic Centre of Excellence under Nick Brown has invited the IHO-Singapore Lab to participate in UN-GGCE International Workshop "Joining Land and Sea, Bogor, Indonesia, 2 - 5 December 2024. It was agreed that the IHO-Singapore Lab's involvement would be beneficial for the integration of land and sea data.</p> <p>Additionally, there was a recent meeting at MGI where use-cases to be presented at United Nations Global Geodetic Centre of Excellence (UN-GGCE) were discussed. However more clarity would be provided by the end of the year. GM provided an example on the relevance of this topic to Singapore, where the plan is to co-locate tide gauges to be part of larger and harmonised network.</p>	

<p>Action 8/3</p>	<p>IRCC Chair Thomas sought clarification on the project's aim, referencing initiatives where datums were harmonised in the Baltic region and North Sea.</p> <p>GM explained that this project would be to demonstrate incorporating topography, bathymetry and tidal area data, and the reference between Chart and Land Datums would be an advantage. He also shared information about NOAA's project using geopotential as an alternative to measure Mean Sea Level (MSL), underscoring its importance in climate change and disaster management, as MSL is a common reference in these contexts.</p> <p>GM updated on submission of Proposal, Part 2, which is being finalised with the project partners.</p>	
<p>GBM08-3b</p>	<p>A follow up from 2nd IHO-IALA Workshop: Continued test-bedding of S-124/S-125</p>	
	<p>GM shared on the follow-up from the 2nd IHO-IALA S-100 Workshop regarding the other test-beddings of S-124 and S-125. IHO Secretariat clarified that a proposed idea from the 2nd IHO-IALA Workshop was for the IHO Lab to collect scenarios from previous or other testbed programs. These scenarios would then be shared with other IHO/IALA teams as a reference. GM added the potential further involvement of the IHO Lab would depend on the decision and exploration by the IALA ARM Committee. GM noted that Singapore has a representative at IALA ARM, who could also serve as a source of updates on this matter.</p>	
<p>GBM08-4</p>	<p>Any other business</p>	
<p>Action 8/4</p> <p>Action 8/5</p>	<p><u>5-year term review.</u> GM informed that the 5-year term review discussion would take place in 2026. A proposal for the next 5-year workplan will be prepared for next GBM. GM added that the proposal would follow this submission path: first to the HSSC, then to the Council, and finally to the Assembly. There is also a possibility of submitting it to the IRCC for inputs.</p> <p><u>Meeting documents in IHO Portal.</u> IHO Secretariat informed that Council has noted and approved the use of the IHO portal for meeting registrations and working documents. The transition period for this change would be from October 2024 to March 2025. Thus, IHO Secretariat proposed using this tool starting from the next meeting, and would provide necessary guidance documents/instructions on its use.</p>	
<p>GBM08-5</p>	<p>Next meeting (Venue and Date)</p>	
<p>Decision 8/3</p>	<p>Meeting proposed to hold the 9th Meeting of GB (hybrid/VTC) in early March 2025.</p>	

List of Participants

- John Nyberg (@iho.int) : **Chair** [*in-person*]
- Thomas Dehling (thomas.dehling@bsh.de) : **IRCC Chair** [*in-person*]
- Parry Oei (parry_oei@mpa.gov.sg) : **General Manager** [*in-person*]
- Yong Baek (yong.baek@iho.int) **Secretariat** [*in-person*]
- Magnus Wallhagen (magnus.wallhagen@sjofartsverket.se) : **HSSC Chair** [*in-person*]
- Thomas TING (thomas_ting@mpa.gov.sg) : **Governing Board Member** [VTC]
- Eric Langlois : **Observer** [*In-person*]
- Victor Sim (victor_sim@mpa.gov.sg) : **Observer** [VTC]