

Inaugural Meeting of the IHO Hydrographic Surveys Working Group (HSWG0)

Virtual (MS Teams), 29 April 2021 - Minutes

(Paragraph numbering is the same as the Agenda Item numbering and does not necessarily reflect the order in which matters were discussed.)

1. Opening Remarks

The Chair started by welcoming all the members to the first meeting of HSWG. An introduction to the HSWG Chairing group was then made. IHO Director Mr Abri Kampfer for the introduction to the IHO hierarchy, positioning HSWG on IHO organization.

HSWG counted 49 participants. Due to the large number of participants it was decided that only the HSWG Chairing group members would introduce themselves.

2. Approval of Agenda

No comments were received, and the agenda was accepted.

3. Introduction to IHO and Hierarchy

IHO Director Mr Abri Kampfer for the introduction to the IHO hierarchy, positioning HSWG on IHO organization.

4. Virtual meeting protocol

The virtual meeting protocol was presented by the Chair.

5. Review of progress/outcomes from HSPT and HSSC12.

A brief review of HSPT and HSSC12 was presented, focusing on the need for HSWG to be created and S44 maintenance.

6. Report to HSSC 13

The Chair succinctly explained the plan to report to HSSC13 on the creation of HSWG and the initial work plan.

7. Review of ToRs and RoPs.

Accepted without amendment.

8. Key Topics for Discussion

a-d) Review of S-44

The Vice Chair firstly described the S44 current status and asked for feedback from all members.

- Andrew Leyzan stated that the Max TVU formula should be next to the Table I, for easier access when using the table.

- Hans Oias mentioned that S-44 includes the term “Range Line”, with this term not being included in either S-32 or S-4, suggesting the use of the term “Lead line”. Also this should be changed in table II.
- Andrew Leyzan agreed with this observation.
- Jeremy Rosseto mentioned that SHOM has identified on paragraph 3.3.3 that some careful analysis should be made as to using “should” or “must”.
- Luis Montecinos informed that from their experience, it would be favourable if S-44 could have specific parameters for oceanic surveys, more specifically for “deeper waters”.
- Regarding the current status, Abri Kampfer declared that IHO is defining on HSSC13 a strategic performance measure for increasing the use of Hydrographic data for the society, with HSWG monitoring the use of S-44.

The Vice Chair advanced to the next point, the S-44 translation status, asking for members to outline any translated versions, or any intention to translate.

- Jeremy Rosseto specified that a translation to French has been made by SHOM already.
- Ali Soltanpour declared that Iran has translated S-44 to Persian, recommending that translated versions should be made available in the HSWG webpage.
- Jean-Guy Nlstad, stated that Germany does not see the need to have a German translated version.
- Portugal and Brazil are also translating S-44 to Portuguese, expecting to have it translated by the end of 2021, as mentioned in HSPT.
- Wu Lingzhi stated a translation to Chinese his already available also.
- With respect to translated versions, Abri Kampfer fixed that translated versions can be shared in the IHO website, although the official publication is effectively the English version.

Following this, the Vice Chair continued with S-44 promotion and dissemination.

- Hans Oias mentioned he has a presentation on S-44 built from HSPT conclusions.
- Ian Slade also made his presentation available for sharing.
- David Vincentelli shared a Webinar on S-44 6th edition.

As the final topic on S-44 the Vice Chair introduced the S-44 maintenance, with HSWG defining a maintenance plan next meeting.

- Abri Kampfer stated that any minor reviews can be approved solely by HSWG, with any other major change needing the approval of HSSC in a probable 2 month review period.

e-g) Review of C-13

The Vice Chair brought in C-13 current state and the scope of a review task, presenting the idea of creating a sub group to update C-13 publication. The sub group should present the revision to HSWG and have it approved by all. The vice chair also asked for all members viewpoint on the format C-13 should have, whether keeping the same or

changing to a new one. Vice Chair then declared that S-44 annexes should be included in C-13.

- Hans Oias agreed with the C-13 update and considered that education institutions that are potential users for C-13 should be involved. Also suggested that a format that would allow to search within contents would be preferable.
- Ian Slade suggested a Wiki Style for the format,
- with Andrew Leyzack agreeing with both the update and the wiki style format.
- Delgado Vicente also agreed on the Wiki format, suggesting something like NAVIPEDIA about GNSS.
- Belen Gimenez Baron also agreed on the wiki format.

The Chair advanced that previous people working on C-13 should somehow be involved also. Vice Chair finished with the idea that a C-13 update sub group will be created in the future.

h) Exchange experiences on New Technology

Subject introduced, but no new points raised at this time.

i) Satellite Derived Bathymetry Standards Working Group

Knut Hartman gave a presentation on the SDB Best Practice group. After the presentation, the Chair proposed that this group would become part of HSWG as a Project Team, asking for all member's opinion. Abri Kampfer declared that IHO is open to an SDB WG, or as part of HSWG. Andrew Leyzack mentioned it could be used as a collaborative group. Ali Soltanpour mentioned that the outcomes of SDB can be used by HSWG to improve S-44 and C-13. The Chair suggested that the SDB best practice group likely may be best placed as sub PT for HSWG. No objections were received.

9. Introduction to Work Plan

The Vice Chair introduced the initial draft of the HSWG Work Plan. No comments or issues were received.

10. Any other business

The subject of Hydrographic Professional Accreditation was presented here with Andrew Leyzack and Jason Creech offering to help with IBSC. Luis Montecinos recommended that this issue should not be discussed in HSWG before a discussion with ISBC, and also mentioned that it is not a subject on HSWG ToR or work plan.

11. Future Meetings

The Chair started the discussion on the work plan for HSWG pointing the S-44 review, the C-13 review, and asked for the members opinion on a future date for a meeting. Hans Oias proposed a new and longer virtual meeting within a few months in order to discuss these topics deeply, with David Vincentelli supporting that proposal. Hans Oias proposed that the next meeting could be held in June, recommending a 2-half day virtual meeting. No further opinions were noted.

The Chair focused then on connecting with other WG, with Hans Oias mentioning that creating a liaison with other WGs would be beneficial. Abri Kampfer mentioned that a Liaison would still exist through the HSSC.

Regarding future meeting HSWG, the Chair asked if any member was interested in hosting this next meeting later in 2021 or 2022. The Chair stated that HSWG2 could be held in Ireland on the week after the Hydro 21 Conference in February 2022. David Vincentelli, declared that ixBlue may offer to host the meeting in Paris, or south France.

12. **Review of Actions and HSWG1 Agenda**

The following actions were recorded:

- HSWG0 – A1 Organise HSWG1 in June 21 (Chair)
- HSWG0 – A2 HSWG to consider update protocol for S-44 (All)
- HSWG0 – A3 Begin establishment of the SDB best practice group at a project team within HSWG (Chair and Knut Hartmann)
- HSWG0 – A4 Begin establishment of C-13 Project Team (Chair)

There was consensus that the agenda should follow HSWG0 format.

13. **Closing remarks**

The Chair provided an overview of the work plan and acknowledged everyone's presence enthusiasm and participation on this first meeting of HSWG.

The following Annexes are attached:

- HSWG0 – List of Participants.
- HSWG0 – Agenda

Annex A

HSWGO – List of Participants

Member State	Organization	Name	Abbreviation
Australia	Australian Hydrographic Office (AHO)	Andrew Coulls	AHO
Belgium	Vlaamse Hydrografie	Johan Verstraeten	Vlaamse Hydrografie
Brazil	Diretoria de Hidrografia e Navegação (DHN)	Anderson Peçanha	DHN
Canada	Canadian Hydrographic Service (CHS)	Andrew Leyzack	CHS
Chile	Servicio Hidrográfico y Oceanográfico de la Armada de Chile (SHOA)	Luis Montecinos	SHOA
China	Maritime Safety Administration (MSA)	Jin Wu	MSA
China	Maritime Safety Administration (MSA)	Lingzhi Wu	MSA
China	Maritime Safety Administration (MSA)	Shujuan Jia (贾淑娟)	MSA
Croatia	Hrvatski Hidrografski Institut (HHI)	Hrvoje Čikotić	HHI
Croatia	Hrvatski Hidrografski Institut (HHI)	Ljerka Vrdoljak	HHI
Denmark	Danish Geodata Agency (DGA)	Belén Jiménez Barón	DGA
Ecuador	Instituto Oceanográfico de la Armada del Ecuador (INOCAR)	Jorge Alovera Alvarado	INOCAR
France	Service hydrographique et océanographique de la Marine (SHOM)	Jeremy Rossetto	SHOM
Germany	Bundesamt für Seeschifffahrt und Hydrographie (BSH)	Jean-Guy Nistad	BSH
India	Indian National Hydrographic Office (INHO)	Vishal Sharma	INHO
IR of Iran	National Cartographic Center	Ali Soltanpour	NCC
Italy	Istituto Idrografico della Marina	Enrico Zanona	IIM
Italy	Istituto Idrografico della Marina	Ilenia Batzu	IIM
Japan	Japan Coast Guard Hydrographic and Oceanographic Department (JHOD)	Masanao Sumiyoshi	JHOD
Korea	Korea Hydrographic and Oceanographic Agency (KHOA)	Tae-Heon Kim	KHOA
Korea	Korea Hydrographic and Oceanographic Agency (KHOA)	Yeong-hwa Jeong	KHOA
Latvia	Maritime Administration of Latvia (LHD)	Bruno Spels	LHD
Mexico	Dirección General Adjunta de Oceanografía, Hidrografía y Meteorología (DIGAOHM) de Marina Armada de México	Adrián Montúfar	DIGAOHM
Netherlands	Netherlands Hydrographic Office (NIHO)	Merte Peeters	NIHO
New Zealand	Land Information New Zealand (LINZ)	Bradley Cooper	LINZ
Norway	Norwegian Mapping Authority Hydrographic Service	Arne Edmund Ofstad	kartverket
Portugal	Instituto Hidrográfico (IH)	João Vicente	IH
Portugal	Instituto Hidrográfico (IH)	Carlos Videira Marques (Secretary)	IH
Spain	Instituto Hidrográfico de la Marina (IHM)	Jose María Cordero Ros	IHM
Sweden	Sjöfartsverket (SMA)	Hans Öiås	SMA
Turkey	Seyir Hidrografi ve Oşinografi Dairesi Başkanlığı (SHODB)	Nurî Karaaslan	SHODB

UK	United Kingdom Hydrographic Office (UKHO)	David Parker (Chair)	UKHO
UK	United Kingdom Hydrographic Office (UKHO)	Alistair Philip	UKHO
USA	US Navy	Steven Posey	USNavy
USA	National Oceanographic and Atmospheric Administration - Office of Coast Survey (NOAA-OCS)	Neil Weston	NOAA-OCS
USA	National Oceanographic and Atmospheric Administration - Office of Coast Survey (NOAA-OCS)	Megan Greenaway (Vice Chair)	NOAA-OCS
USA	National Geospatial Agency (NGA)	Doug Roush	NGA
-	IHO Secretariat	Abri Kampfer	IHO
-	IHO Secretariat	David Wyatt	IHO
Expert Contributor	AML Oceanographic	James Walton	AML
Expert Contributor	David Evans and Associates	Jason Creech	DEA
Expert Contributor	ECA robotics	Sebastien Tavvry	ECA
Expert Contributor	EGS International	Chris Howlett	EGS
Expert Contributor	EOMap	Knut Hartmann	EOMap
Expert Contributor	Fugro	Marco Filippone	Fugro
Expert Contributor	Fugro	Hugh Parker	Fugro
Expert Contributor	Fugro/International Federation of Hydrographic Societies (IFHS)	Iain Slade	IFHS
Expert Contributor	Hogere Zeevaartschool	Axel Annaert	Zeevaartschool
Expert Contributor	iXblue/AFhy Francophone Hydrographic Society	David Vincentelli	iXblue
Expert Contributor	iXblue	Fabien Germond	iXblue
Expert Contributor	JOA Surveys	Nathan Wardwell	JOA
Expert Contributor	Kongsberg Maritime	Kjetil Jensen	KM
Expert Contributor	Teledyne Marine	Vitad Pradith	Teledyne
Croatia	Hrvatski Hidrografski Institut (HHI)	Vinka Kolić, M.Sc.	HHI
China	Maritime Safety Administration (MSA)	Xiong E	MSA
		Dheeraj	
		Kuldeep	

Annex B
HSWG0 – Agenda

**PRELIMINARY MEETING OF THE IHO HYDROGRAPHIC SURVEYS WORKING GROUP (HSWG
0)
VIRTUAL (VIA MS TEAMS)
29TH APRIL 2021 1300-1500H (UK BST)**

1. [1300 – 1310] Welcome and opening remarks + introductions from chair group. (*Chair*)
2. [1310 – 1312] Approval of agenda. (*Secretary*)
3. [1312 – 1317] Introduction to IHO and hierarchy (*IHO*)
4. [1317 – 1318] Virtual meeting protocol. (*Chair*)
5. [1318 – 1322] Review of progress/outcomes from HSPT and HSSC12. (*Chair*)
6. [1322 – 1325] Report to HSSC 13 (*Chair*)
7. [1325 – 1330] Review of ToRs and RoPs. (*Secretary*)
8. [1330 – 1430] Key topics for discussion: (*Vice-Chair*)
 - a. Current status of S-44 and feedback from operational experience
 - b. Further promotion of S-44
 - c. Support for further translation of S-44 for onward IHO publication
 - d. Maintenance of S-44
 - e. Current state of C-13 and scope of review task, including insertion of identified annexes from S-44
 - f. Customer Requirements Survey questionnaire for C-13
 - g. Format of next edition of C-13
 - h. Exchange experiences of new technology, approaches and best practice
 - i. Information on (industry) Satellite Derived Bathymetry Standards Working Group
9. [1430 – 1435] Introduction to Work Plan 2021-2022. (*Chair*)
10. [1435 – 1443] Any other business. (*Chair*)
 - a. Hydrographic Accreditation (*Chair*)
11. [1443 – 1452] Date, venue and method of next meeting – HSWG1 – and intersessional activities. (*Chair*)
12. [1452 – 1457] Review of Action List and agenda for HSWG1. (*Secretary*)
13. [1457 – 1500] Closing remarks. (*Chair and Vice Chair*)