



BSHC MWG16 meeting **on Thursday – Friday 21-22 September 2017** at BSH, Rostock, Germany, meeting room Deneb.

BSHC MWG16 meeting updated agenda

Attending:

DK: Lars Hansen, Jesper Vedel
DE: Thomas Dehling, Cindy Niemeyer, Patrick Westfield (for Friday)
FI: Seppo H Mäkinen (chair)
LV: Bruno Spels
LT: Mindaugas Česnauskis, Emilis Tertelis
PL: Adam Klosinski
SE: Anders Åkerberg, Hans Öiås

Regrets:

EE: Peeter Väling

No reply

NO: Arne Ofstad, Vidar Bøe
RU: Capt L. Shalnov

1. Opening the meeting
 - Thomas Dehling being absent in the beginning, Cindy Niemeyer welcomed the participants;
 - Seppo H Mäkinen, as chair of MWG opened the meeting and also acted as secretary
 - draft agenda was **amended** for items in paragraph 2 and 7.
2. The minutes from MWG15 meeting (Malmö, 8 Mar 2017) were accepted. The status of the tasks from MWG 15 meeting was viewed and noted.

Outcome and guidance from BSHC22 – The chair reviewed the MWG report presentation at BSHC22 and briefed the guidance on defining Cat II routes based on AIS statistical data. This item will be discussed at paragraph 4.

3. Discussion on contributions for the S-44 ed5 work [IHO CL68/2016, HSSC 7/03] [chair & all]
 - S-44 ed 5 update, representation from BSHC and NHC member states in the IHO S-44 PT: nominated member states representatives DE: Thomas Dehling alternate Jean-Guy Nistad, NO: Arne Ofstad & Vidar Bøe, SE: Anders Åkerberg & Hans Öiås;
 - Baltic and Nordic S-44 PT regional discussion group
 - IHO S-44 PT terms of reference;
 - Regional PT discussion on IHO S-44
 - Decisions: if regional HC decisions are needed, brought to BSHC and NHC conferences. Info paper to BSHC in Rostock;



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- Lively discussion on the S-44 PT report notes, prepared by Hans Öiås and Jean-Guy Nistad.
- Need to approach Data Quality Working Group S-44 in relation to S-57 ZOC
- Provided data: bathymetric grids, models in reference with point clouds
- S-44 questionnaire, open for all, input as private person or as an institute – open until 17 of Nov;
- Material available at IHO HSSC web-page. Next meeting in Brasil, June 2018.

MWG / regional discussion group common understanding on issues within S-44:

- Entire standard shall be noted, not just a table;
- Safety of navigation, for chart production: point cloud data or S-102 model;
- System and method independent;
- Each HO shall have (internal) discussion, if local / regional implementation is necessary;
- First the need of hydrographic survey – S-44 order is selected based on e.g. on area, depth and traffic density – overlooking, that operation (system & operator) will fulfil the requirement – verifying the data – data into the bathymetric data storage;
- Deliverable / data to be stored is point cloud data, where all uncertainties are taken into account;
- Feature = any anomaly to the general bottom topography (not defined in IHO dictionary!), distinguished from the surrounding bottom. Detectable element of topography;
 - **IHO S-44 - Feature:** in the context of this standard, any object, whether manmade or not, projecting above the sea floor, which may be a danger for surface navigation.
- Good description of uncertainty [error budgets of a survey system, C-13 instead of S-44 / uncertainty in Table 1] – **Quality management**;
- Demand on verification of depth accuracy – field procedure – **Quality management**;
- Do you have to detect features – with statistical uncertainty [2σ / 95%] – how to take UKC into account? – raise the question with the S-44 TP, if this is sufficient – better representation of the depth. Currently room for misinterpretation -> better defined;
- Wrecks & obstructions (chapter 3.4) as “isolated” features, based now on S-57, less than 40 m rule is not be relevant – same rules for every feature;
- Need of Order 1B? Practical need as well;
- Positioning the fixed aids to navigation and significant topographic features;
- How to calculate TVU / THU / TPU, not described in S-44;
- Add “exclusive” order;
- MS participants / representatives to study documents, answer questionnaire and reflect their views to the red items above to PT members latest on **31 Oct 2017**. PT members to circulate the sample alternatives as they are available after 3 Nov 2017.

4. The re-survey status and progress made since MWG15, as well as survey plans (e.g. within FAMOS activity 1) [chair & MSs]
 - Re-survey progress, experiences, each MS in alphabetical order: DK, EE, FI, DE, LV, LT, RU, SE.
 - BSHC21 action list item 14 – C1 [PL, RU]
 - **BSHC22: Cat I & II in relation to AIS data, traffic density, cargo, vessel size;**



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- DK presented their recent hydrographic surveys in the Baltic sea . DK has resurveyed a few new Cat II areas based on recent AIS data, and expectations of change in traffic pattern.. DK will for 2018 and 2019 prioritize resurvey of routes in the North Sea, due to proposal of new recommended routes. This temporary change of priority is not expected to affect the ability to meet the goal for completing the cat. I & II surveys, as agreed at the HELCOM Ministerial meeting in 2013.
- EE was not present and had not delivered a presentation;
- FI has done hydrographic surveys in inland waters. No new Cat I & II areas needed at this stage. Urgent administrative matters have caused delays in starting new procurements;
- DE presented their recent re-surveys, done due to some changes in the bottom. All areas are categorized as Cat I & II.
- LV presented their recent hydrographic re-surveys. LV will fulfil the FAMOS Freja and Odin project. AIS traffic has been studied and the some Cat II widths need more attention (wms.lhd.lv);
- LT presented their recent hydrographic surveys. LT is also participating to FAMOS Odin project to speed up re-surveys- LT has already in 2016 recategorized some Cat III areas to Cat II based on AIS data;
- PL presented their recent hydrographic surveys. Some difficulties to update the Re-survey DB. Discussions between HO and Maritime Administration to recategorize areas based on AIS data;
- RU was not present and had sent no presentation;
- SE presented their recent hydrographic surveys. Some external work ongoing. No need at the moment to re-categorize areas to Cat II.
- Re-survey situation should go hand in hand with C-55
- BSHC21 action list item 14 – C1: the guidance from BSHC22 [SE] was to define the threshold when the traffic density, size of vessels or amount of cargo/passengers would require re-categorizing areas to Cat II or to Cat I.
 - This was not discussed due to chair forgetting it. The chair's idea was to ask the Swedish representatives to investigate, if such statistical data is available. Then it would be for each MS Maritime authority to define the necessary Cat based on this statistical data. This may be handled by e-mail correspondence or it may be an item at next MWG17 meeting.
 - SE has indicated to prepare some data for the next MWG18 meeting.

5. The updated Re-Survey web-page [<https://helcomresurvey.sjofartsverket.se/>] [SE & all]
- update of national data as well each MS national contact point /editor [all];
 - background charts / maps [all]. DK not able to put out any charts to a public web-site, FI has sent some test charts and a link to VMS service. SE needs a permission from each MS to publish national chart data to compose a Baltic Sea general chart in digital form, to publish it as background data;
 - Some feedback and development proposals to SE;
 - Some help-features to be presented/commented and documentation to be done, Status;
 - SE is maintaining the database and looking the area integrity (areas meet, close, no overlap). All MS shall inspect their polygons integrity [All].



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6. Past and upcoming activities
 - EU BSRS PA SAFE steering group meeting in Brussels on 30.-31.5.2017;
 - HELCOM SAFE NAV Sept 28, Arlanda, Sweden;
 - HELCOM MARITIME 17 Oct 10-12 2017 St. Petersburg, Russia;
7. Any other items
 - **Need to select new chair, due to reorganization of Agencies under Ministry of Transport and Telecommunications, among Finnish Transport Agency / Finnish Hydrographic Office and other tasks and workload of current chair related to this. No nominees at the moment;**
 - **Vice chair is withdrawing from the MWG due to new tasks, selection of new vice chair – No nominees at the moment;**
8. To plan for a MWG17 meeting (time and proposals for venue are welcomed).
 - If suitable other events in the spring – back to back, otherwise back to back with BSHC23 last week in August 2018 Monday Tuesday[chair].
9. Closing of the meeting 13:15.



TASK LIST from MWG15 meeting, updated for MWG16

MWG16 No	Action	Responsible	Time Schedule	Remarks/ Status by Feb 2017 + chair comments
#2	Background maps to Re-Survey DB: JPEG, layered, comments on new interface	All	Continuous	To be studied / tested, noting ownership/legal issues. SE will send a reminder e-mail to national base operators
#4	Report to SMA on changes on national data base operators	All	Continuous	Ongoing in order to have correct user ID and password for updating data.
#5	Verify/update the figures of the tables (annex 2 on MWG report to BSHC22)	All	Continuous June 2018	Update also Re-Survey DataBase! June 2018: World Hydrographic Day
#6	Raise awareness of the contradiction between defined HELCOM cat I & cat II routes and AIS data in Southeastern Baltic Sea at HELCOM SAFE NAV meeting in Denmark on 29.9.2016	chair	28.9.2017	Follow HELCOM Head of Delegates outcome item 6.57 on the need of updating Re-survey plan and perform Re-surveys. Follow up at HELCOM SAFE NAV meeting on 28.9.2017 at Arlanda, Sweden
#7	MWG report BSHC23 in Aalborg, DK, .8.2018	chair	7.7.2018	Commenting round June 2018
#8	Participate to IHO S-44 PT regional discussion group	All	By MWG17	Formed at MWG15, on 8.3.2017. Approved and new MWG TORs at BSHC22.
#9	<i>IHO S-44 PT members to forward regional discussion group views in PT work.</i>	DE, NO, SE	ongoing	
#10	<i>S-44 PT members and chair to liaise with BSHC rep at HSSC</i>	DE, SE, chair	By 31.10.2017	
# 11	<i>Identify where MS have common hydrographic survey equipment for experience sharing, an information list and contacts;</i>	All	MWG17	Discussion item at MWG17