Minutes
BSHC CDWCWG3
24-25 March 2026
Riga, Latvia

Tuesday 24 March 2026

09:00 - 09:30	Opening, welcoming notes Welcoming by the host Maritime Administration Latvia (MAL) Introduction round-all members+new members Appoint a secretary for the meeting • Bruno Špēls appointed as the secretary of the meeting Review the List of Participants / Photo • 21 participants attended the meeting Review the Program • Program accepted Adoption of the Agenda • Agenda adopted as proposed	Chair MAL All Bruno All
09:30 - 10:30	Review the work of the CDWCWG and actions since CDWCWG2 Chair´s Report: Actions and initiatives [RoadMap] Few points from the report: • Continuity management of BSCD2000, organizational scheme and workflow • To coordinate IHO S-100 implementation strategy • S-100 products mandatory from 2029 • Cooperation between organisations on S-104, S-111 implementation. Emphasized data user agreements between HO´s and met-ocean organisations, if necessary. • Lithuania is now a member of IHO and hence a full member of BSHC (BSHC30/B) Adoption of the Minutes from the CDWCWG2 Meeting [Photo] • Minutes approved last year Status of the List of Actions from the CDWCWG2 Meeting. Almost all actions since the last meeting have been resolved.	Chair

	Minutes and Actions from the 30th BSHC Conference Chair reviewed the actions requested by BSHC30: • Approval of the amended Terms of References from CDWCWG2 • Endorsed the harmonisation guidelines and the continued work with the aim to be finally approved at BSHC31 in September 2026 • Share with NSHC findings on harmonisation guidelines for S-104 and S-111 (BSHC30/5)	
10:30 - 11:00	Group photo / Coffee break	
11:00 - 12:00	Review the national implementation plans and the status of implementation of BSCD2000, S-104 and S-111, e.g. time schedules of implementation, publication plans, rising issues, good practices etc. Answers to Questionnaire 2026: Summary, Denmark, Estonia, Finland, Germany, Latvia, Lithuania, Poland, Sweden Presentations of national reports: Estonia, Germany, Poland	Chair All
12:00 - 13:00	Lunch (offered by the host)	
13:00 - 14:30	Product harmonisation guidelines for S-104 and S-111 and the work of the CDWCWG´s Harmonisation subgroup Open discussion on the progress, harmonisation and other issues • Country responsible for ENC is responsible for all S-100 products • S-102 data will be adjusted (WLA) and displayed based on S-104 water level data • Signing of data • Activity lead of harmonization activities in Baltic Sea e-Nav project was Traficom, now it is a responsibility of CDWCWG • Problems with interpolation on border lines, across the border- need for clarification • Chair will invite to virtual meetings during the spring to continue the work to finalized the harmonization guidelines (Action #9 and #10)	Chair
14:30 - 15:00	Coffee break	
15:00 - 16:00	FAMOS project continuation of Activity 2 [Presentation] General organizational questions, management of the BSCD2000 height transformation grid (geoid model) [Landing page] Some remarks from the presentation: • Maintenance of the BSCD2000 height transformation grid • Promote improvement of precise real-time GNSS navigation by providing accurate height reference (BSCD2000 and transformation between global ITRF and national ETRS89 realizations	Jonas

	• In Latvia ETRS89 (LKS 2020) will become official by 1st October 2026 • BSCD2000: to write amendments for long term management • New German, Latvian, Norwegian levelling/GNSS observations • Make a major update of the BSCD2000 grid after the NKG2026 model • There was also mentioned a question how to manage different versions of BSCD2000	
16:00 - 16:30	Review the Specification of the BSCD2000 • Jonas has reviewed the specification and proposed some amendments, which was presented and approved by the group. **Decision:** Jonas tasked to continue the work (Action #12) • Figure 4b was discussed and it was a consensus among the participants to harmonise the figure to show only the mean sea level (MSL) relative BSCD2000. **Decision:** Chair was tasked to calculate MSL for the period 2007-2025 for all water level stations to be used in Figure 4b (Action #13) • **Decision:** Add BSCD2000 on the national websites to make it more visible in Google search (Action #14)	Jonas
16:30 - 16:40	Cooperation and communication with BOOS [Presentation] • Chair presented the cooperation with BOOS • All water level data (from ~ 200 stations, see BOOS Station map) distributed from BOOS to the pan-European systems are now referring to BSCD2000. Thanks to Johanna Linders at SMHI that has done the work	Chair
16:40 - 17:00	IHO Tides, Water Level and Currents Working Group (TWCWG) S-104 and S-111 Product Specifications • Chair presented shortly the work of TWCWG, the file repository GitHub and gave a short report from the last TWCWG-meeting (TWCWG10)	Chair
19:00	Group dinner at Islande Hotel (offered by the host)	All

Wednesday 25 March 2026

09:00 - 10:30	Presentations (~15 min) Status of S-104 and S-111 production in Germany • Phase 1: route monitoring • Phase 2: route planning • Data bases for S-104, S-111 incl. water level forecast • Production chain, test data availability • Bias correction-at tide gauges and to DHHN2016 (BSCD2000) S-104 and S-111 implementation in Estonia • Forecast updated daily at 13.15 and valid for 24 hours • NEMO model, water level and currents model	All Thorben Gabriela

	• Estonia divided into 8 parts, to S-104/S-111 PRIMAR product catalogue Surface Water and Ocean Topography (SWOT) satellite data • Offshore alternative for geoid determination • SWOT altimetry observations+global hydrodynamic model • Discrepancies remain generally within 3-4cm • Comparison between SWOT based geoid heights and BSCD2000 Pipelines for S-104 and S-111 in Norway • Estimated tide adjusted in height, shifted in time • Water level data, weather forecast • Will release S-104 and S-111 for the whole Norwegian coast this week	Sander Oda
10:30 - 11:00	Coffee break	
11:00 - 12:00	Review and update the Terms of Reference • Importance of geodesy. **Decision:** Jonas and Joachim will send a proposal to emphasize the geodesy (Action #11). • Work group are tasked to coordinate the implementation of a harmonized chart datum BSCD2000, S-104, S-111 in the Baltic Sea • Promote improvement of precise real-time GNSS navigation by providing accurate height reference (BSCD2000 and transformation between global ITRF and national ETRS89 realizations) Work Programme and the joint Road map, time line and communication plan. The implementation of S-104 and S-111 have been included in the documents above.	All
12:00 - 13:00	Lunch (offered by the host)	
13:00 - 14:30	Any other business Update the List of Members • The list of members were updated • Mindaugas proposed to update the member list once per year before the meeting, because the CDWCWG becomes wider. Decision take to do so (Action #15) Review the Webpage • **Decision:** organize the meetings in groups instead of chronological order (Action #16) Review the List of Actions and unresolved issues of this meeting • List of actions was updated	All Chair

	CDWCWG Report to the 31th BSHC Conference, 21-23 September 2026 in Lithuania and list of matters to be reported [CDWCWG Presentation] (Action #6 and #7) Proposal for the place and date of the next meeting [CDWCWG4]: • **Decision:** Lithuania will check possibility to host the next meeting (Action #17) • 23-24 March 2027 in Klaipeda, Lithuania (TBC)	
14:30 - 15:00	Coffee break	
15:00	Closing of the meeting	Chair