



**Minutes**  
**BSHC CDWCWG1**  
**26-27 March 2024**  
 Helsinki, Finland

**Tuesday 26 March 2024**

09:00 - 09:20	<p>Opening, welcoming notes</p> <p>Chair welcomed the participants and thanked Traficom for hosting the meeting</p> <p>Welcoming by the host</p> <p>Introduction round</p> <p>Appoint a secretary for the meeting</p> <ul style="list-style-type: none"> <li>• Jyrki Mononen appointed as the secretary of the meeting</li> </ul> <p>Review the <a href="#">List of Participants</a> / <a href="#">Photo</a></p> <p>16 participants attended the meeting. Several of the invited participants could not make it to the meeting and were excused.</p> <p>Review the <a href="#">Program</a></p> <ul style="list-style-type: none"> <li>• Program accepted</li> </ul> <p>Adoption of the <a href="#">Agenda</a></p> <ul style="list-style-type: none"> <li>• Agenda adopted as proposed</li> </ul>	<p>Chair</p>  <p>Traficom</p>  <p>All</p>  <p>Jyrki</p>  <p>All</p>
09:20 - 10:30	<p>Review the work of the CDWCWG and actions since CDWG14</p> <p><a href="#">Chair’s Report</a>: Actions and initiatives [<a href="#">RoadMap</a>]</p> <p>Few points from the report:</p> <ul style="list-style-type: none"> <li>• Transformation grid has been published and it is downloadable from BSHC BSCD2000 web-page</li> <li>• Long term continuation management plan is proposed for BSCD2000</li> <li>• Implementation of S-104 and S-111 is included in the ToRs and also in the road map</li> <li>• Baltic Sea e-Nav-project has been taken into account in the Road map.</li> <li>• Important to communicate with BOOS to implement BSCD2000 also in BOOS services and metadata</li> </ul> <p>Adoption of the <a href="#">Minutes</a> from the CDWG14 Meeting [<a href="#">Photo</a>]</p> <ul style="list-style-type: none"> <li>• Minutes approved</li> </ul>	<p>Chair</p>



	<p>Status of the <a href="#">List of Actions</a> from the CDWG14 Meeting</p> <p>Chair reviewed actions. Notes from discussions:</p> <ul style="list-style-type: none"> <li>• #2 Elect a permanent secretary: Proposed that host will provide the secretary, because any volunteers for permanent secretary has not been available.</li> <li>• #12 Datum difference between SE and DK. To be organized a meeting where matter will be discussed.</li> <li>• Strongly recommend and foster the use of BSCD2000 geoid model. Collect and discuss best practices how to implement new geoid model.</li> </ul> <p>Minutes and Actions from the <a href="#">28<sup>th</sup> BSHC Conference</a></p> <ul style="list-style-type: none"> <li>• Chair reviewed the actions requested by BSHC28. Deemed to be finalized.</li> </ul>	
<p>10:30 - 11:00</p>	<p>Coffee break</p>	
<p>11:00 - 12:00</p>	<p>Review the national implementation plans and the status of implementation, e.g. time schedules of the implementation, publication plans, rising issues, good practices etc.</p> <p>Answers to <a href="#">Questionnaire 2024: Summary, Denmark, Estonia, Finland, Germany, Latvia, Lithuania, Poland, Sweden</a></p> <p>Presentations of national reports/Questionnaires. Some notes based on the national reports and discussions.</p> <ul style="list-style-type: none"> <li>• Many member states raised the question how to find financing to produce S-104 and S-111.</li> <li>• BOOS, Copernicus, EMODNET, e.g. Finnish datum is MSL. Should be changed to BSCD2000 in feasible time. SMHI (Johanna Linders) is the contact person to make the change for BOOS, Copernicus and hence EMODNET.             <ul style="list-style-type: none"> <li>○ <b>Action #12:</b> It was discussed when it would be nationally the best moment to change the datum to the BSCD2000 in BOOS.</li> </ul> </li> <li>• It was noted that there are erroneous metadata in the BOOS service regarding water level datums.             <ul style="list-style-type: none"> <li>○ <b>Action #14:</b> Chair to check the metadata in BOOS.</li> </ul> </li> <li>• Latvia: MAL ja LVGMC has been discussed who will produce S-104 and S-111 products. MAL coordinates the work, but yet not agreed how the production will be done.</li> <li>• Poland presentation of BSCD2000 implementation:             <ul style="list-style-type: none"> <li>○ The national geoid model partly fits well with BSCD2000 and partly the differences are approx. 6 cm, possibly due to the fact that no new gravity data was available. It is difficult to say the recommended geoid model at sea. (BSCD2000 vs PL geoid 2021 (PL-EVRF2007-NH))</li> <li>○ Since January 2024 an act came into force stating, that only PL-EVRF2007-NH (BSCD2000) vertical reference system can be used in Poland.</li> </ul> </li> </ul>	<p>Chair</p> <p>All</p>



	<ul style="list-style-type: none"> <li>The transformation of charts to BSCD2000 has been implemented in different ways in member states regarding the chart scales/bands and areas. In some countries the implementation has been done first for all of the same scales/bands and in some countries the implementation has been done for all the scales in one area.</li> <li>Discussed how we should communicate about BSCD2000 especially in BOOS metadata. <ul style="list-style-type: none"> <li><b>Action #15:</b> Propose the naming convention to be used in BOOS services.</li> </ul> </li> </ul>	
12:00 - 13:00	Lunch	
13:00 - 14:00	<p>FAMOS project finalization of Activity 2 [presentation]  General organizational questions, management of the BSCD2000 height transformation grid (geoid model) [<a href="#">landing page</a>]</p> <ul style="list-style-type: none"> <li><b>Action #16:</b> all members to provide additional information to Joachim regarding national implementation of BSCD2000.</li> <li><b>Action #17:</b> Joachim to contact proposed persons about the continuation management for BSCD2000.</li> </ul>	Joachim etc.
14:00 - 14:30	Visit at the FMI's Safety and Weather Centre	All
14:30 - 15:00	Coffee break	
15:00 - 16:00	<p>Review the <a href="#">Specification of the BSCD2000</a></p> <p>Discussed if there are some amendments needed.</p> <ul style="list-style-type: none"> <li><b>Action #18</b> to check the needed amendments. Chair and Jonas.</li> </ul>	Jonas etc.
16:00 - 17:00	<p><a href="#">Baltic Sea e-nav Interreg project</a>: Shared waters - same standards  Baltic Sea partnership for future navigation. S-100 implementation.</p> <p>S-104 and S-111 in Baltic Sea e-Nav</p> <p>Open discussion: how to coordinate the implementation of S-104  Water level and S-111 Surface Currents in the Baltic Sea?</p>	<p>Chair</p> <p>Jani</p> <p>All</p>
19:00	Joint dinner at <a href="#">Restaurant Zetor</a> , Mannerheimintie 3-5, Helsinki	

### Wednesday 27 March 2024

09:00 - 09:30	<p>IHO TWCWG  <a href="#">Tides, Water Level and Currents Working Group (TWCWG)</a></p> <ul style="list-style-type: none"> <li>Chair gave a general presentation to IHO TWCWG work and web-page and encouraged all the members to check the relevant matters.</li> <li>Chair gave a presentation of TWCWG7 report to HSSC15</li> <li>Chair presented the status of S-104 (Water Level Information for Surface Navigation) and S-111 (Surface Currents)</li> <li>Discussed the importance of having members in TWCWG from Baltic Sea countries to endorse the needs of non-tidal areas.</li> </ul>	Chair
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	<p>Endorsed to have members to TWCWG from also other Baltic Sea countries than Finland, Sweden and Germany.</p> <ul style="list-style-type: none"> <li>Discussed the issue when one product includes two or more vertical datums.</li> </ul> <p><a href="#">Presentation</a> (given at NSHC-TWG26)</p> <p>IHO Specifications and Resolutions  <a href="#">Resolution 3/1919 - IHO CL10/2017</a>  <a href="#">S-100 Implementation Strategy</a>  <a href="#">S-100 Product Specifications</a>  <a href="#">S-100 Testbed IHO Geospatial Information Registry</a></p>	<p>Chris</p> <p>All</p>
09:30 - 10:00	<p>Cooperation and communication with BOOS [<a href="#">presentation</a>]</p> <ul style="list-style-type: none"> <li>Chair gave a general presentation of BOOS matters relevant to CDWCWG work</li> <li>Discussed about EMODNET bathymetric data and metadata about vertical reference system, now it uses (LAT). It is not the desired datum, BSCD2000 should be possible to implement, but at this moment EMODNET is restricted to LAT.</li> <li>Discussed how to communicate about that issue with EU/EMODNET.</li> <li>BOOS and BSHC has MoU to start using the same chart datum (BSCD2000)</li> <li>Chair participates at the BOOS meeting in May and will give a presentation about fostering the cooperation between BOOS and BSHC.</li> </ul> <p><a href="#">CDWCWG Presentation</a> at BOOS Meeting, 7-8 May 2024, Copenhagen</p>	<p>Chair</p>
10:00 - 10:30	<p>Review and update <a href="#">Terms of Reference</a>, <a href="#">Work Programme</a></p> <ul style="list-style-type: none"> <li>ToRs and WP were approved.</li> </ul>	<p>All</p>
10:30 - 11:00	<p>Coffee break</p>	
11:00 - 12:00	<p>Review and update the joint <a href="#">Road map</a>, time line and communication plan. How to include the implementation of S-104 and S-111 in the Road map?</p> <ul style="list-style-type: none"> <li>Jarmo Mäkinen will participate at the BSICC meeting and finds out best practices to be used also in S-104 and S-111 coordination in the Baltic Sea region.</li> </ul>	<p>All</p>
12:00 - 13:00	<p>Lunch</p>	
13:00 - 14:00	<p>Presentations/discussions (20 min each)</p> <p><a href="#">Denmark's development status of S-104 &amp; S-111</a></p> <ul style="list-style-type: none"> <li>Denmark has established a national forum appointing relevant national bodies</li> <li>National S-100 WG participants only stakeholders of responsible of S-100 products <ul style="list-style-type: none"> <li>Describe roles and responsibilities</li> <li>Identify challenges</li> <li>Coordinate the work</li> <li>Scheduled meetings</li> </ul> </li> <li>Product and distribution responsibilities are divided under different Directorate-Generals (DG's) and agencies.</li> </ul>	<p>All</p> <p>Kristian</p>



	<p>In Sweden e.g. S-104 data will be provided by SMHI and SMA but SMA is the responsible for distributing the data.</p> <p><a href="#">Germany’s plan for S-104 and S-111 products</a> (given at NSHC-TWG26)</p> <ul style="list-style-type: none"> <li>• Chair gave the presentation</li> <li>• National S-100 strategy</li> <li>• Concentrating on S-101, 102, 104, 111, 124 (navigational warnings)</li> <li>• Defined update-cycles for different products</li> <li>• Discussion: Denmarks idea is to define grids for different products (than S-101, S-102) to help the data distributing between users/producers/vendors/parties</li> </ul>	Andreas/ Patrick
14:00 - 14:30	<p>Any other business</p> <p>Election of a permanent CDWCWG secretary?</p> <ul style="list-style-type: none"> <li>• <b>Decision:</b> To have rotating secretary in a way that host will provide secretary, because no volunteers appeared as a permanent secretary.</li> </ul> <p>Update the <a href="#">List of Members</a></p> <ul style="list-style-type: none"> <li>• Reviewed the changes to the list and updated accordingly.</li> <li>• Joachim will check with Tertelis/Lithuania about a gravity/geoid expert.</li> </ul> <p>Review the <a href="#">List of Actions</a> and unresolved issues of this meeting</p> <ul style="list-style-type: none"> <li>• List of actions was updated.</li> </ul> <p><a href="#">CDWCWG Report</a> to the <a href="#">29<sup>th</sup> BSHC Conference</a>, 17-19 September 2024 in Tallinn, Estonia and list of matters to be reported [<a href="#">CDWCWG Presentation</a>]</p> <p>Proposal for the place and date of the next meeting [<a href="#">CDWCWG2</a>]</p> <ul style="list-style-type: none"> <li>• 25-26 March 2025 in Tallinn, Estonia.</li> <li>• EMA has offered to host the meeting.</li> </ul>	All  Chair
14:30	Closing of the meeting	Chair