

INT Chart & ENCs & S-100 Products & ENDS Schemes Web Catalogue

TRAFICOM
Finnish Transport and Communications Agency



BSICCWG Report **BSHC29** D.6



BSICCWG10 Meeting

22-23 May 2024

Stockholm, Sweden



BSICCWG10 Meeting

► Status of the work

- The **focus of the work** has shifted **towards S-100 products**
- The meeting was divided to two separate parts;
 - First day: *S-100 scheming and production plans in the Baltic Sea (S-101, S-102)*
 - Second day: *S-100 continuing, INT charts+ S-57 ENC's*



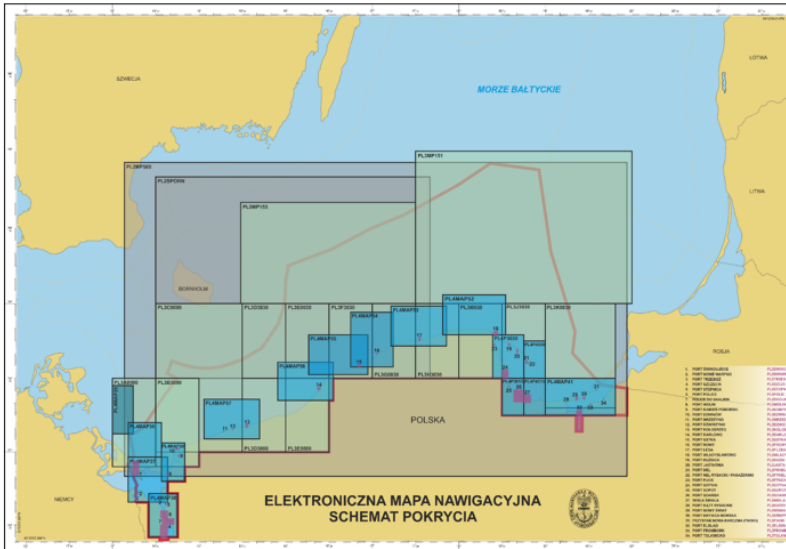
S-101, S-102 Scheming

- ▶ No global common grid scheme for ENC's (WENDWG13/14).
- ▶ Importantly, the IHO wants to know production plans and evaluate which areas will be completed with the S-101 or S-102 (as well as other S-100 products) in 2026, 2027, 2028 to report the expected coverage to the IMO.
- ▶ During the transition period when some areas are in S-101 and some are not, the scheming with S-57 and S-101 should be the same. When there is a full coverage of S-101 this should no longer be a problem since the mariner is using either S-57 or S-101



S-101 / S-102 SCHEMING PLANS

- S-101 will be based on S-57 scheming;
- S-102 grids on the Approach to main harbours.

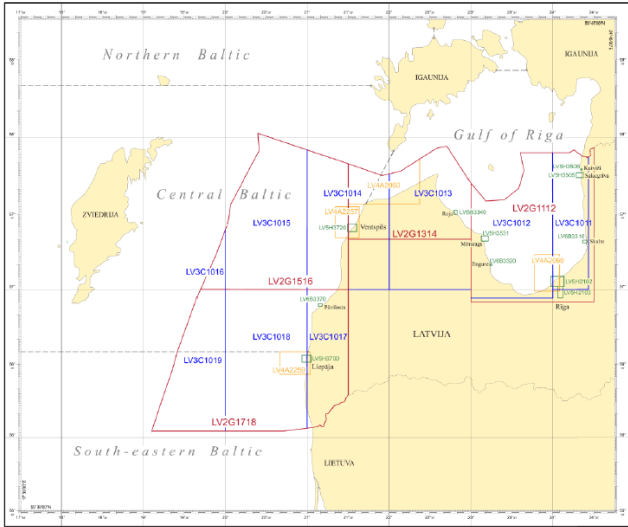


- BAND 2 - 1
- BAND 3 - 15
- BAND 4 - 16
- BAND 5 - 34
- BAND 6 - 1



S-101 SCHEMING PLAN

- S-57 ENC's gridded in 2 usage bands – General and Coastal.
- S-57 Approach ENC's will be gridded. Grid dimensions not decided yet.
- S-101 ENC's coverage will remain as S-57 ENC coverage.



S-101, S-102 Scheming

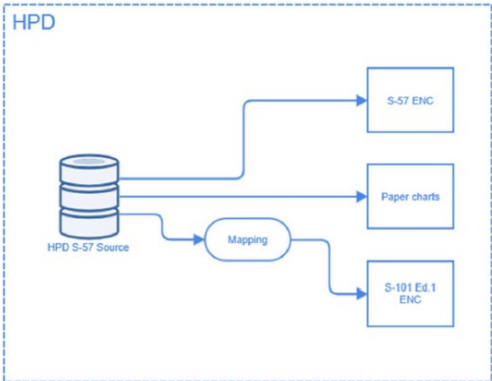
- ▶ Member states are ready to start releasing S-100 products (especially S-101 and S-102) in 2026 (2025).
- ▶ Detailed annual and regional plans for coverage are not ready yet.
- ▶ Important to coordinate production plans to get full coverage of, for example, major shipping routes used by merchant shipping (no individual cells here and there).
- ▶ WG agreed to start reporting annually for coverage plans in their area per the end of year 2025, 2026, 2027 and 2028 (BSICCWG10 action 3). First report- end of 2024.
- ▶ INTogIS III

Scheme of LT ENC S101 cells coverage



S-101, S-102 production plans

- ▶ All the member states have started developing information systems with the aim of producing S-101 and S-102 according to the IHO target schedule.
- ▶ The schedule is linked to the completion/approval of the standard.
- ▶ High dependency on software development.
- ▶ Training and exchange of knowledge/experience is required.
- ▶ BSICCWG will follow how the production and implementation plans will be realized during 2024:
 - ▶ BSICCWG10 Action #4: Chair to send questionnaire for the WG members about the status of the S-101 and S-102 implementation progress by the end of the year (Dec 15 2024)
 - ▶ BSICCWG10 Action #5. Member states to report how plans for the introduction of the S-101 and S-102 production during 2024 were realized (Jan 15 2025).



S-101 PRODUCTION PLAN												
S-101 ENC production plan												
No	2024	2025	2026									
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
1	Care HPD S-101 Module - acquisition											
2	Care HPD S-101 Module - subscription											
3	TCs Analyzer S-101 validation tool - acquisition											
4	TCs Analyzer S-101 validation tool - subscription											
5	Ship Inspector validation tool - acquisition											
6	Ship Inspector validation tool - subscription											
7				Care HPD S-101 training								
8	Care HPD S-101 Test database schema creation											
9				S-57 data TEST conversion to S-101								
10				Care HPD S-101 TEST database acquisition								
11								Care HPD S-101 database creation and maintenance				
12										Care HPD S-101 database testing		
13											S-101 product creation and validation: DUAL FUEL	
14											S-101 product updating and maintenance: DUAL FUEL	

Paper charts

- ▶ INT 1201 (1:250 000)- from DE to DK (produced).
- ▶ INT 1304 (1:200 000)- from DE to SE (produced).
- ▶ INT120 (Baltic Sea, 1:1 500 000)- from DE to UK (produced).
- ▶ New INT-chart INT 1339 (SE 839) , Trelleborg – Simrishamn (100 000).



S-57 ENC

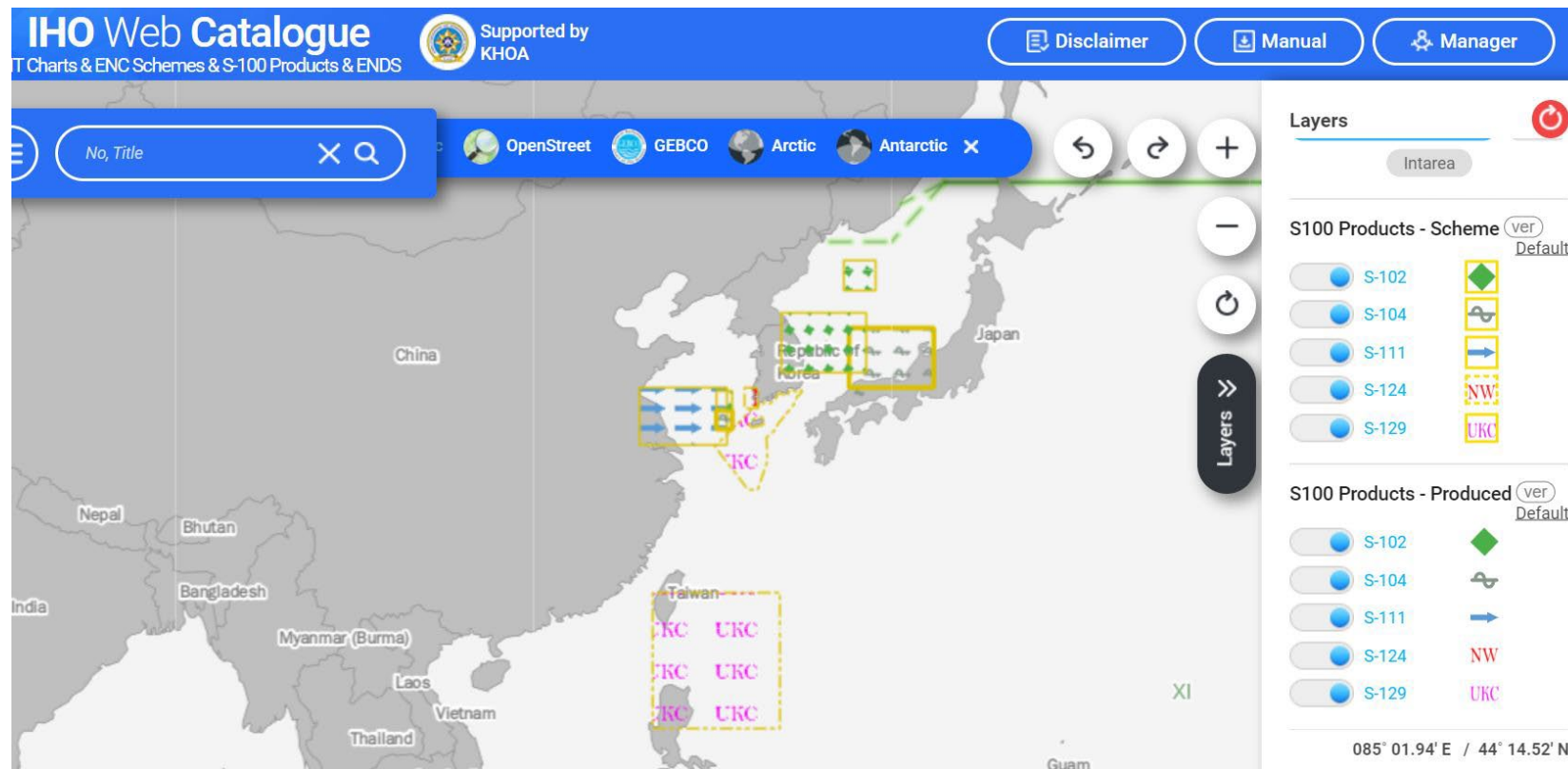
Baltic Sea overview ENC

- ▶ WG agreed for the process, when Germany will give up producing the Baltic Sea overview ENC by the beginning of 2025.
- ▶ All the members will produce their own overview cells by the end of October 2024
 - ▶ Comparison with the neighbours (border area, harmonization;scamin values..)
- ▶ Release date:10th of January 2025.



INToGIS III

- ▶ Very promising developments since WENDWG14
- ▶ INToGIS III will allow Member States to plan, scheme, display their new S-101 and S-100 products coverage over the existing layers (S-57, INT charts, traffic density, etc)
- ▶ for S-102, S-104, S-111, S-124, S-129
- ▶ 2nd testing phase July-August 2024 (Chart coordinators)



S-101 harmonisation

BSHC28/11	D.8	BSHC28 agreed that S-101 and S-102 harmonisation issues will be handled under umbrella of Baltic Sea eNav-project.	
-----------	-----	--	--



► Status of S-101 harmonisation

Interreg
Baltic Sea Region



Co-funded by
the European Union

 BLUE ECONOMY
Baltic Sea e-Nav

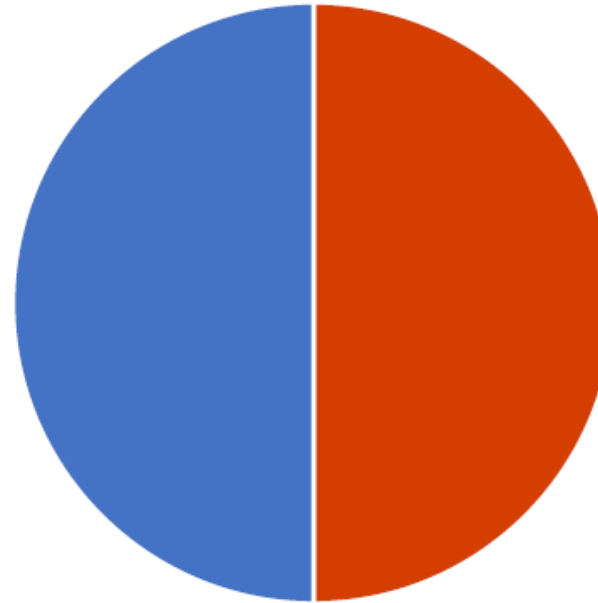
S-101 harmonisation

- ▶ Under BSeNav WP 2.3
- ▶ Lead by Sweden
- ▶ Meetings:
 - ▶ VTC 23.1.2024
 - ▶ Stockholm 21.5.2024
 - ▶ Tallinn 17.9.2024
- ▶ Process:
 - ▶ Work will be done under BSeNav project
 - ▶ Status report in BSICCCWG10
 - ▶ Status report in BSHC29
 - ▶ Final harmonization recommendations for endorsement to BSICCCWG11 (May 2025)
 - ▶ Approval for S-101 harmonization recommendations to BSHC30 (Sept 2025)
 - ▶ BSHC 30 may task BSICCCWG to follow the S-101 harmonization recommendations and report back to BSHC annually



Result of harmonisation survey – New requirements

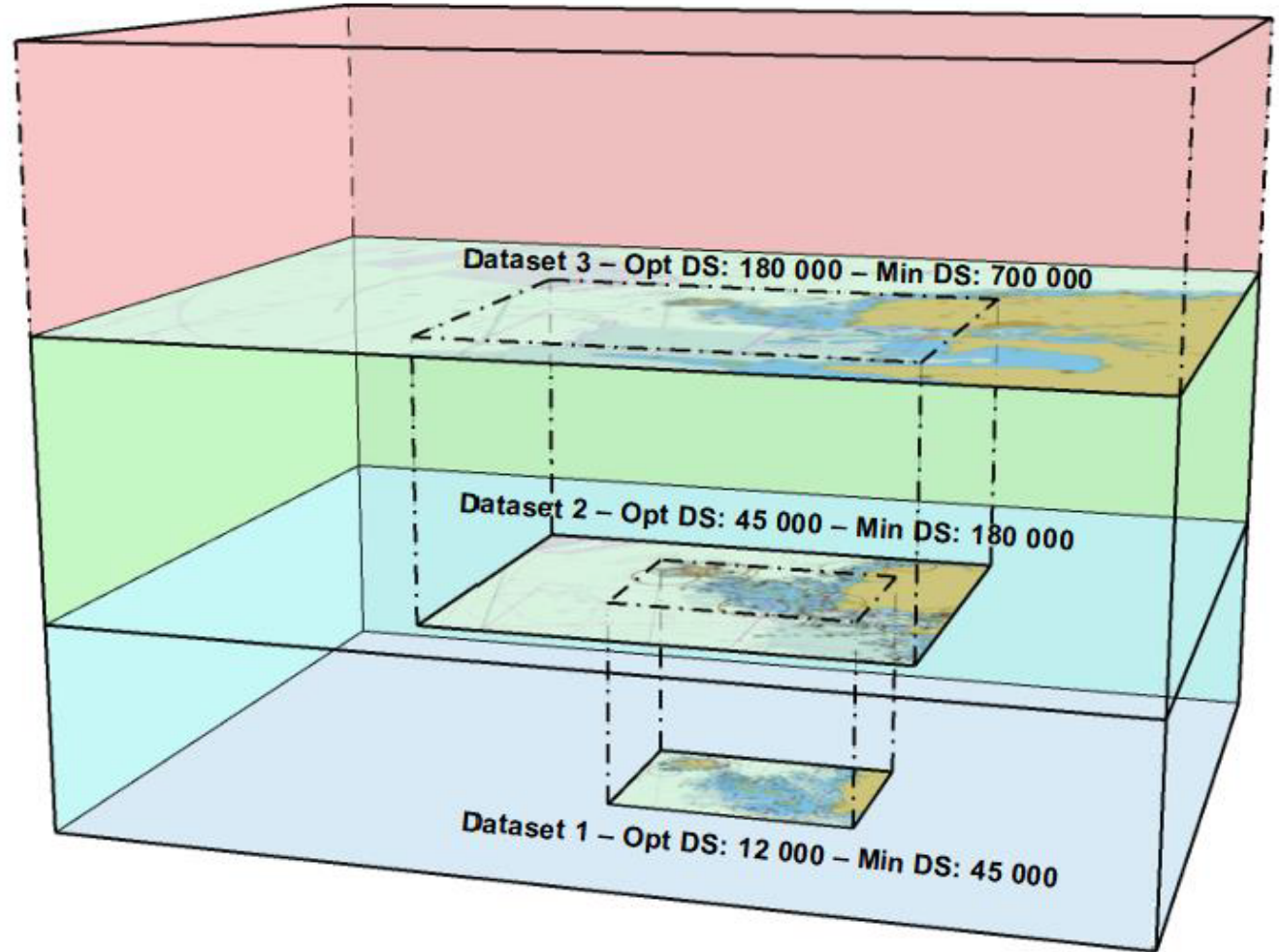
Q6 Since there are new possibilities in the S-101 data model, it is interesting to know how your Hydrographic Office is planning your production during the dual-fuel period.



- Initial data migration to S-101 and then produce S-57 by backwards conversion
- Producing S-101 from current S-57 data

Result of harmonisation survey – New requirements

- Display scales
 - Minimum Display Scale
 - Optimum Display Scale
 - Maximum Display Scale
 - Drawing Index?
- Current harmonised compilation scales:
 - Approach 1:22 000
 - Coastal 1:90 000
 - General 1:180 000
 - (Overview 1:1 500 000)
- Scheming/Common grid?

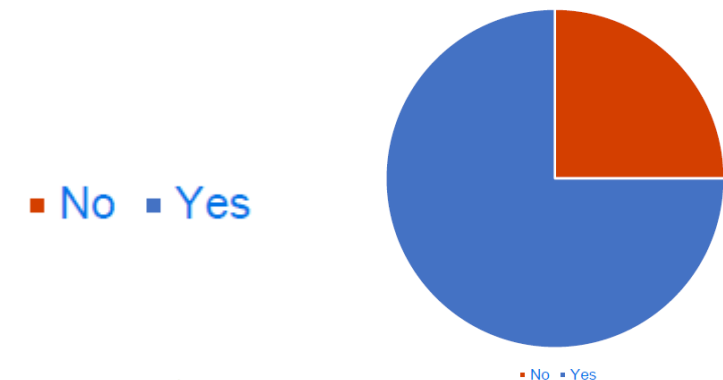


Result of S-101 harmonisation survey —New requirements

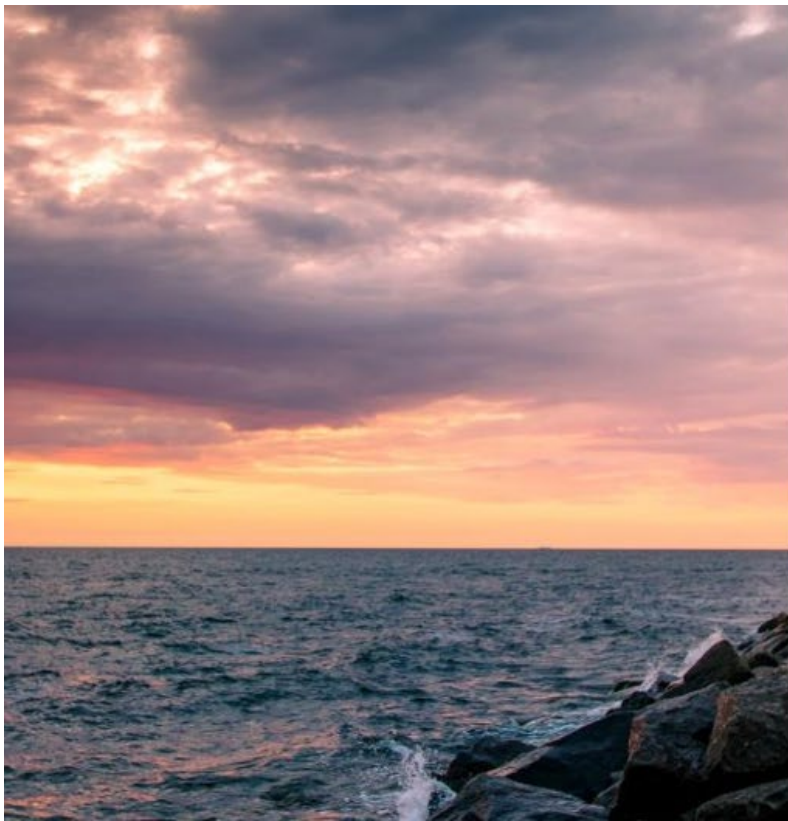
- ▶ SCAMIN SCAMIN —Scale MinimumScale Minimum
 - Changes in UOC
- ▶ Update Information
- ▶ MRN —Marine Resource NameMarine Resource Name
- ▶ Magnetic variation information
- ▶ Wind farms / Windmills
- ▶ Bridges
- ▶ TSS/DW- routes
- ▶ Quality of Bathymetric Data
- ▶ Roll-out plan

Result of harmonisation survey – Roll-out plan

- Q14 Does the Hydrographic Office in your country see a need for harmonising the roll-out of S-101 in the Baltic Sea?



Status of S-102 harmonisation



- ▶ On May 7th, 2024, Traficom and BSH held a meeting to discuss S-102 and its harmonization efforts.
- ▶ In May/June 2024, BSH conducted a questionnaire to assess the overall status and issues related to S-102 product work across all the project partners (countries). The results were shared with Traficom to inform the development needs of S-102 harmonization guidelines.
- ▶ Traficom will now work internally to draft the guidelines and will circulate them to all project partners for review and feedback by the end of Reporting Period 2 (end of October 2024).

Future work of BSICCWG

- To coordinate the production of S-101 ENCs) S-102 Bathymetry and applicable additional S-100 layers for navigation in accordance with the WEND-100 Principles.
- To develop and maintain an integrated international chart scheme for the region for ENCs (S-57 and S-101) and INT charts.
- To harmonize similar content of S-102 Bathymetry products in the Baltic Sea.
- To study issues related to nautical charting of the region, in particular overarching S-100 coordination (gathering plans from Member States and reporting as WEND representative of the BSHC).
- To monitor INT charts and ENC coverage in the Baltic Sea and maintain and adopt schemes in Baltic Sea (IHO CL64/2015)
- To provide continuous updates to S-11 Part B for INT Region E through the INTToGIS II (III) tool.
- To analyze gaps and overlaps and report to BSHC and WENDWG.
- To provide updates to World Port Index..
- The **next BSICCWG** (face to face) meeting is planned to take place in **Lithuania 21.-22.5.2025.**

Actions for the 29th BSHC Conference

- ▶ Note this report.
- ▶ Give further guidance on the coordination of S-101 and S-102, and in particular S-100 overall reporting.

Thank you!
Questions?

