



13th Meeting of the WENDWG

Report of the representative of the BSHC (Baltic Sea Hydrographic Commission)

Status of work and S-100 implementation in the Baltic Sea

Agenda Items 05.1Ab

WENDWG13, Aalborg, Denmark – 21 – 23 February 2023



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REGION E- BALTIC SEA

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- **Members:** Denmark, Estonia, Finland, Germany, Latvia, Poland, Russian Federation, Sweden
- **Associate Member:** Lithuania
- **Web site:** <http://www.bshc.pro/>



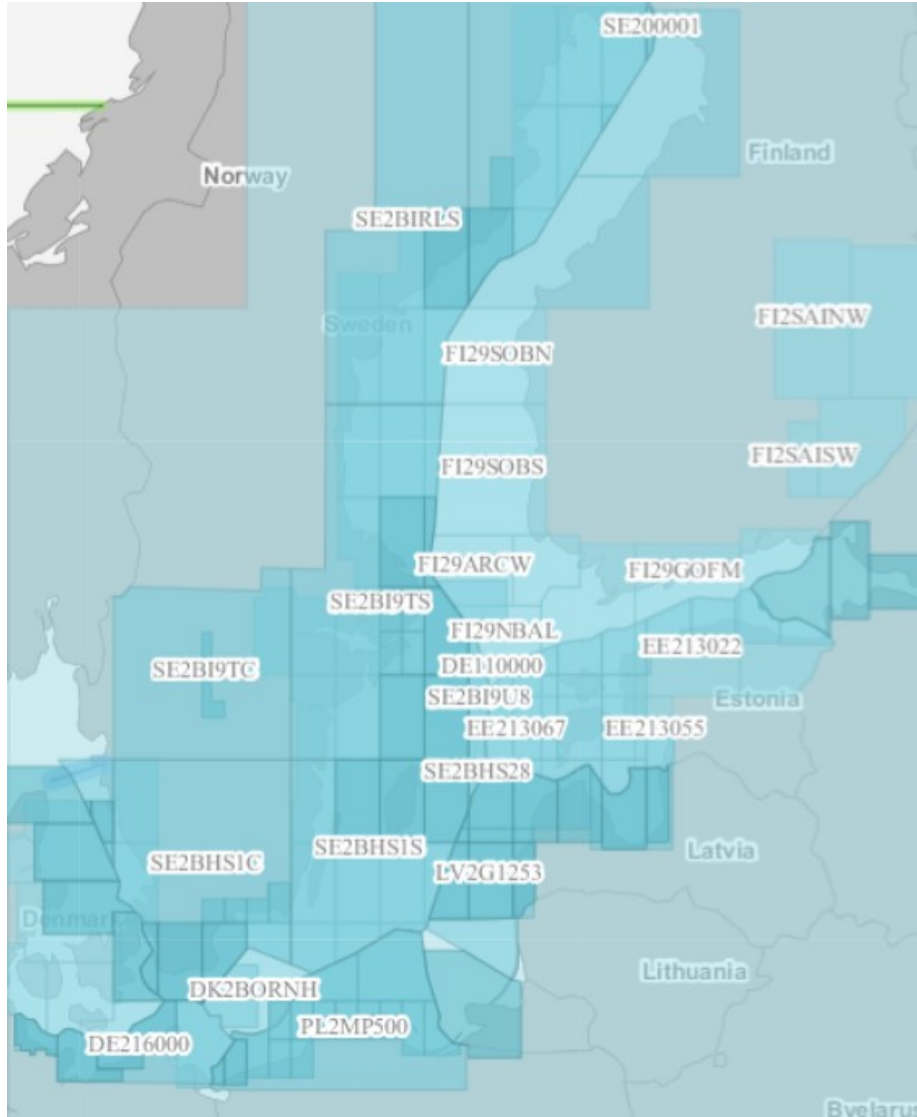
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February 2023



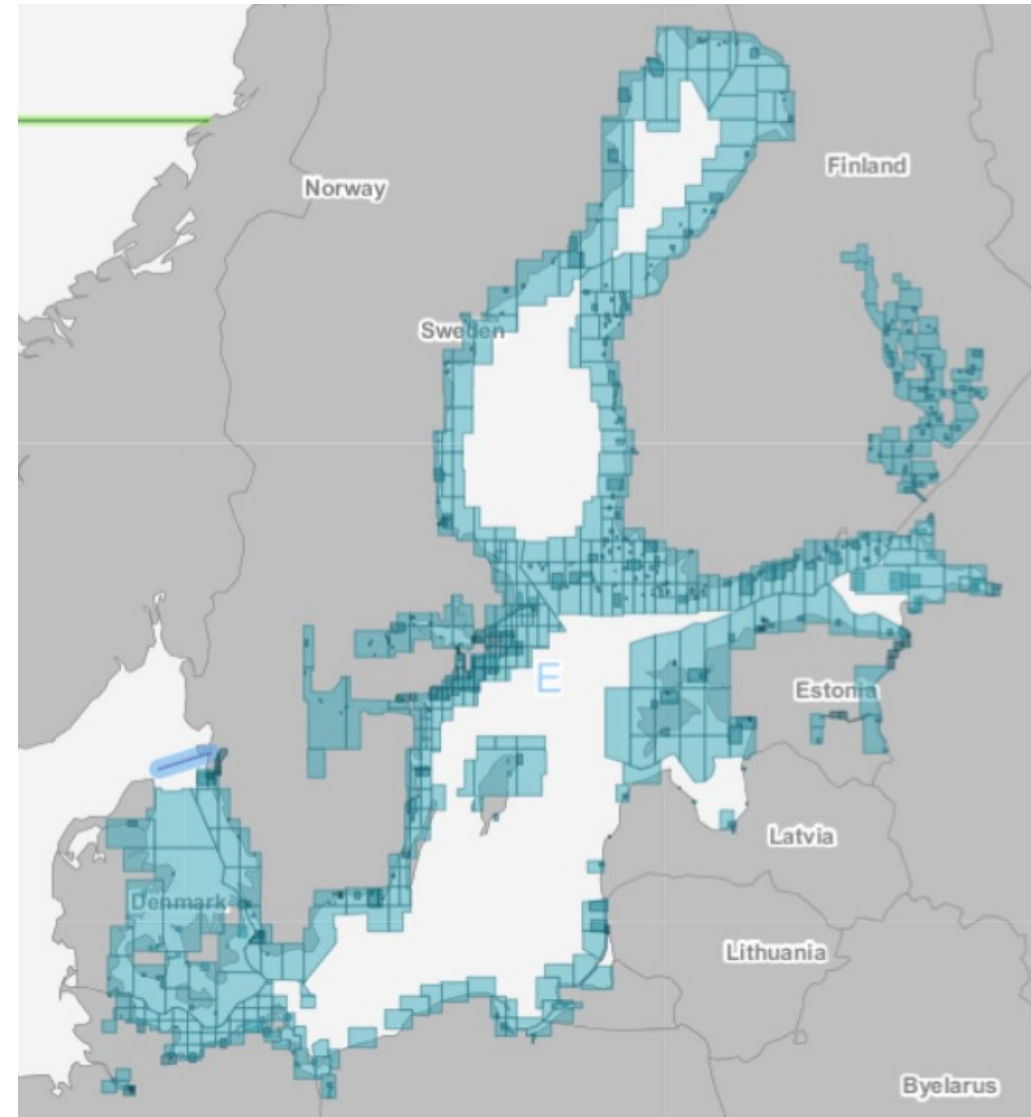
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S-57 ENC COVERAGE - BALTIC SEA

Usage bands 1, 2, 3



Usage bands 4, 5, 6



- UB 1: 1
- UB 2:41
- UB 3 :120
- UB 4: 460 (+ 10 % since 2020)
- UB 5: 622 (+ 27%)
- UB 6: 220 (+18%)

Gaps and overlaps analysis is an ongoing process through BSICC. Some small technical overlaps have been identified, without classified as a navigational risk.



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STATUS OF S-100 COORDINATION

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The geopolitical situation with war in Europe also had an immediate effect on the BSHC work: planned meetings were cancelled and working group tasks postponed.

In autumn 2022 the work was restarted and the Commission's focus will be to continue its important coordinating work, especially in S-100 coordination and implementing. **The need of coordination for the S-100 implementation both in regional level and national level has been identified.**

Planned roles for BSHC working groups:

BSICCWG (Baltic Sea chart coordination WG): S-101, S-102

CDWG (Baltic Sea Chart Datum WG): S-104, S-111

BSMSIWG (Baltic Sea MSI WG): S-124

BSHC Strategic Correspondence Group (SCG)

will meet at 15 March 2023. It is planned to address the definition of tasks related to the s-100 implementation. TOR's of WG's will be reviewed and updated as appropriate.



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STATUS OF S-100 COORDINATION

BSHC actions related to S-100 coordination

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| | | | | | |
|--------------|-----------|---|---------|--------------------------------------|---------|
| BSHC26 / D.2 | BSHC26/12 | BSICCWG tasked to <u>coordinate</u> the work with an S-101 scheme for the Baltic Sea. | BSICCWG | Continuously; report at BSHC28 | Ongoing |
| BSHC26 / D.3 | BSHC26/13 | BSMSIWG tasked to <u>work</u> specifically with S-124 implementation coordination. | BSMSIWG | Continuously | Ongoing |
| BSHC26 / D.3 | BSHC26/14 | CDWG tasked to <u>work</u> specifically with S-104 and S-111 implementation coordination. | CDWG | Continuously | Ongoing |

| | | | | | |
|--------------|-----------|---|--------------------------------------|--------------|---------|
| BSHC26 / D.3 | BSHC26/15 | BSICCWG tasked to <u>work</u> specifically with S-101 and S-102 coordination. | BSICCWG | Continuously | Ongoing |
| BSHC26 / D.3 | BSHC26/16 | To <u>suggest</u> updates to BSICCWG ToR, in order for the WG to include overarching S-100 coordination for the Baltic Sea. | Strategic Correspondence Group | BSHC27 | Ongoing |

| | | | | | |
|--------------|-----------|---|--------|---------------------|-----|
| BSHC27 / D.7 | BSHC27/13 | All MS to fill in the WEND100-Matrix for aggregation by BSICCWG Chair | All MS | 15 November 2022 | New |
|--------------|-----------|---|--------|---------------------|-----|



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BALTIC SEA: S-100 ACTIVITIES

Baltic Sea E-nav, 2024 – 2026 if granted

Hydrographic offices:

SE (lead), DE, FI, DK, EE, LV, Associated; LT, PL

Academia: **RISE (SE), SAMK (FI)**

Private sector: **Furuno Finland**

Oceanographic institute: **FMI (FI)**

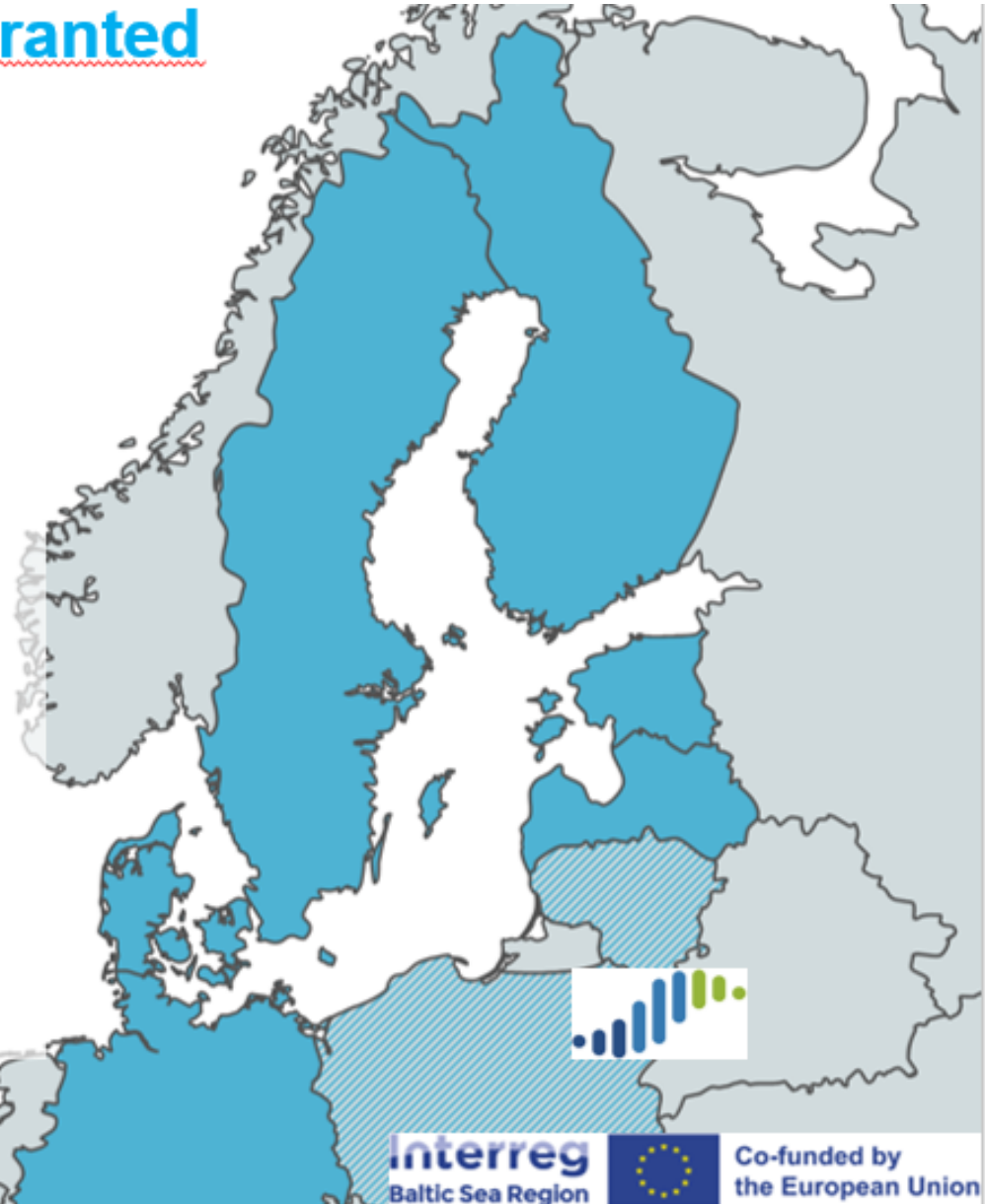
RENCs: Associated; IC-ENC and PRIMAR

Scope:

Implementation: S-101 and S-102 in 2026

Piloting: S-104 and S-111

Programme: EU, Interreg Baltic Sea Region





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ANALYSIS/DISCUSSION OF S-101 SCHEMING GUIDELINES

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Short review of S-101 production/scheming Guidelines.

- ENC scheming guidelines were discussed in the BSICCWG –video meeting 09/2022. Report from the WEND S-101 Scheming guidelines Drafting Group was reviewed.

Summary of short discussion about possible regular grid model in the BSICCWG.

- **Denmark** has used regular grid in Greenland and plans to use it in Danish waters too.
- **Germany** has completed regular grid for approach and coastal cells in the North Sea area and started to use it for the Baltic Sea area.
- **Poland, Lithuania, Latvia and Estonia** do not use regular grids.
- **Swedish** plans were not reported in the meeting. After meeting comment; SE cells have originally been created as $1^\circ \times 1^\circ$. In cases where these cells exceed 5mb, the cell has been divided into 4 or more. An analysis will be done to investigate the relevance of the current scheming. After that scheming of S-101 ENC's will be decided.
- **Finland** has negative experiences with regular grid ENC scheming and would not plan to go back to regular grid in the future.

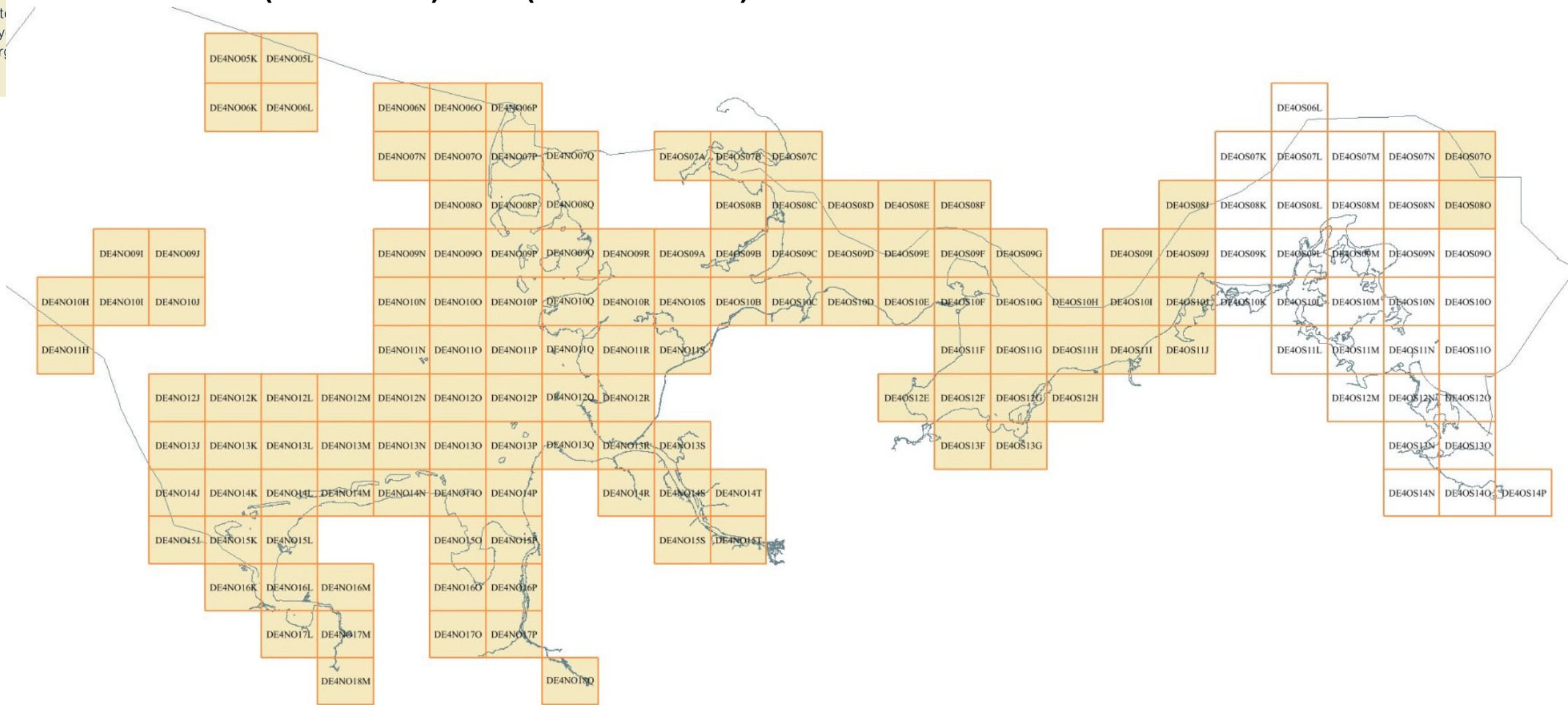


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ANALYSIS/DISCUSSION S-101 SCHEMING GUIDELINES

APPROACH ENC SCHEME OF GERMANY (NORTH SEA- BALTIC SEA). 20' (EAST-WEST) X 10' (NORTH-SOUTH)

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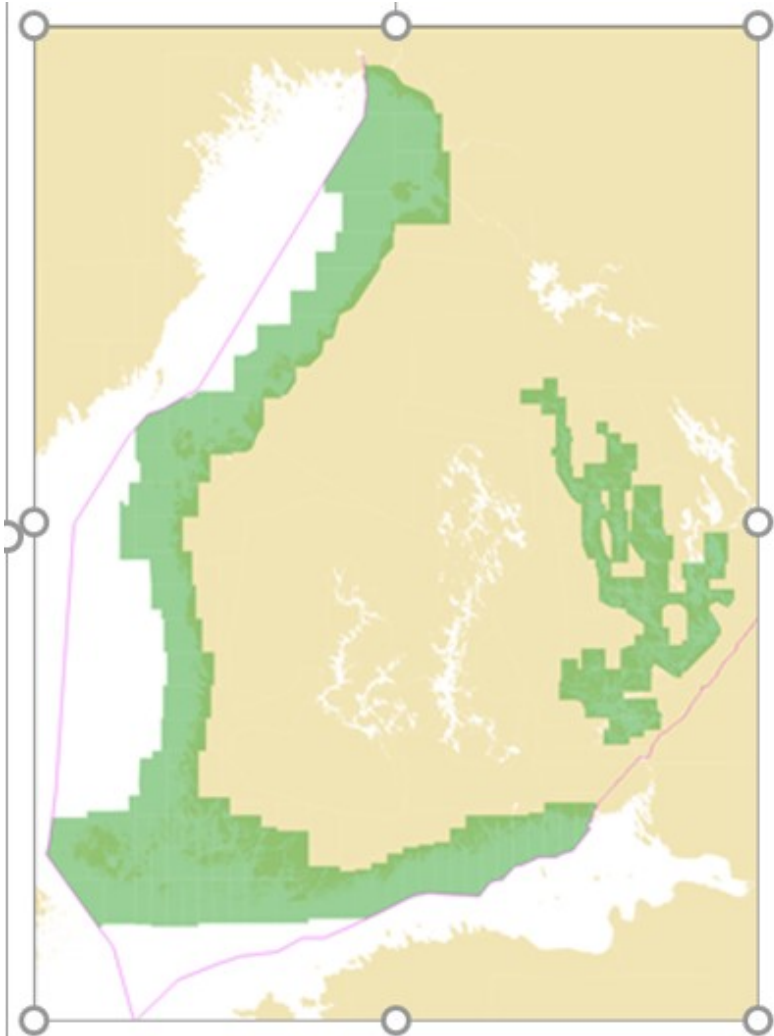


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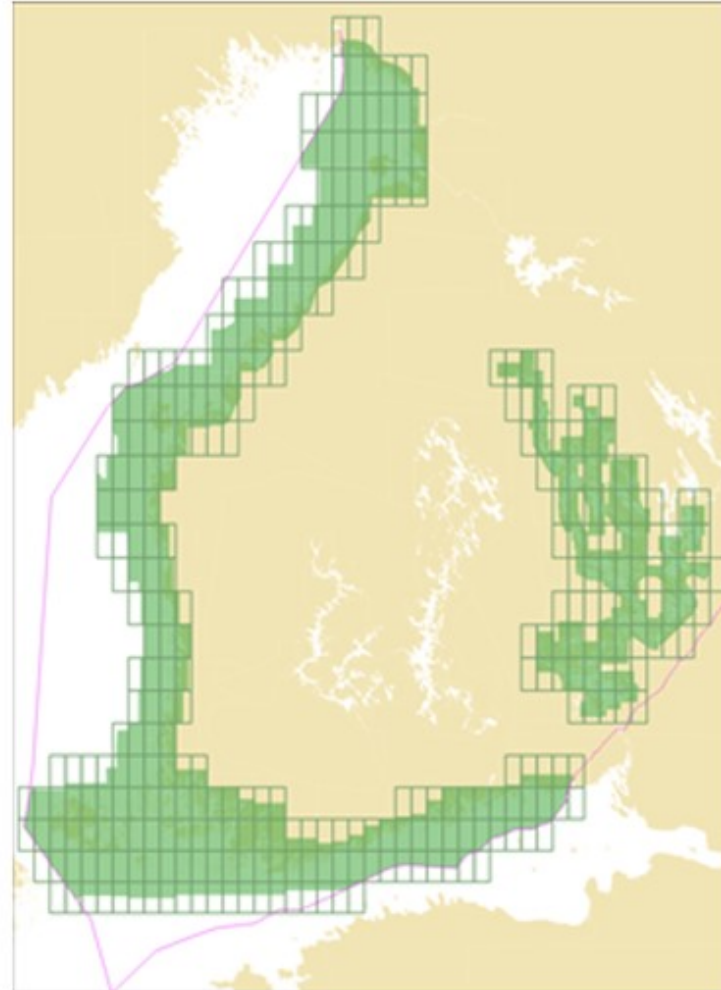
ANALYSIS/DISCUSSION

S-101 ENC Scheming Guidelines- Case study: Finland

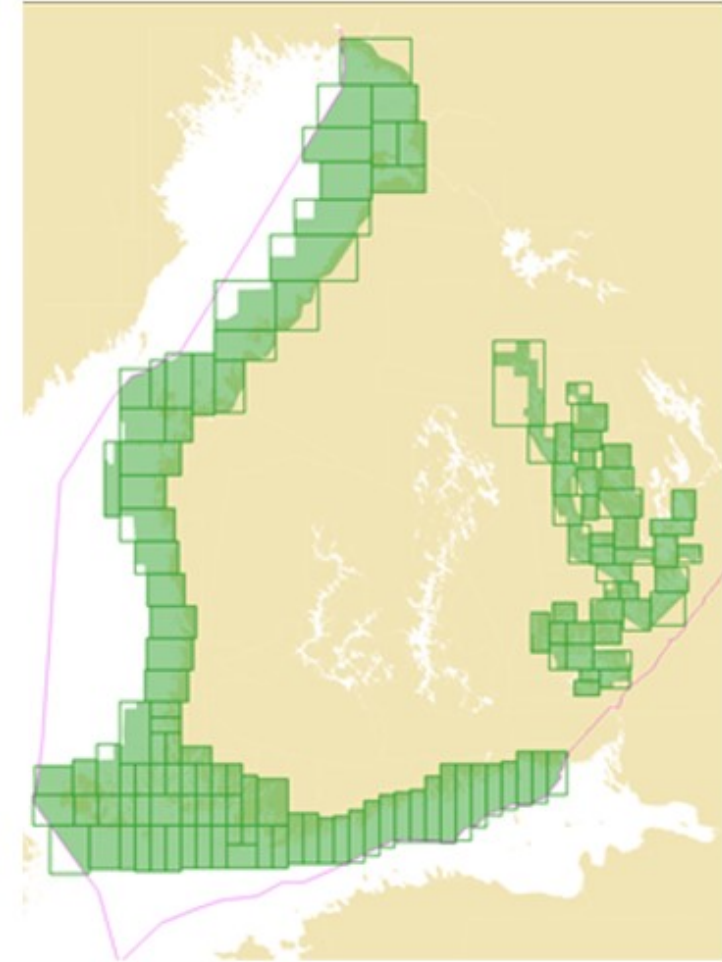
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Approach coverage area



Regular 15'x15' grid, (335 cells)



Existing approach ENC -scheme
(131 cells)



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STATUS OF BSICCWG WORK

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Future work of BSICCWG

- To monitor ENC coverage in the Baltic Sea and maintain and adopt ENC schemes in Baltic Sea (IHO CL64/2015).
- To provide continuous updates to S-11 Part B for INT Region E through the INTOGIS II (III) tool.
- To review and monitor new INT Charts (IHO CL 64/2015).
- To analyze gaps and overlaps and report to BSHC and WENDWG.
- To provide updates to World Port Index.
- To be prepared to adopt INTOGIS III tool and monitoring S-100 products.
- To review a S-101 ENC Scheming Guidelines (WENDWG action) in the Baltic, noting the outcome of the discussion on a possible long-term strategy for a Global Common Grid Scheme.
- To coordinate S-101 scheme in the Baltic Sea in the future.
- To analyze a need for S-101 (technical) harmonization recommendations.
- To evaluate and collect S-101 and S-102 production plans in the Baltic Sea area.
- Coordinate and promote coverage of S-102 scheme and possibly other S-100 products in the Baltic Sea.

Next BSICCWG meeting:

- Next meeting is scheduled to 24th and 25th of May 2023 in Rostock.



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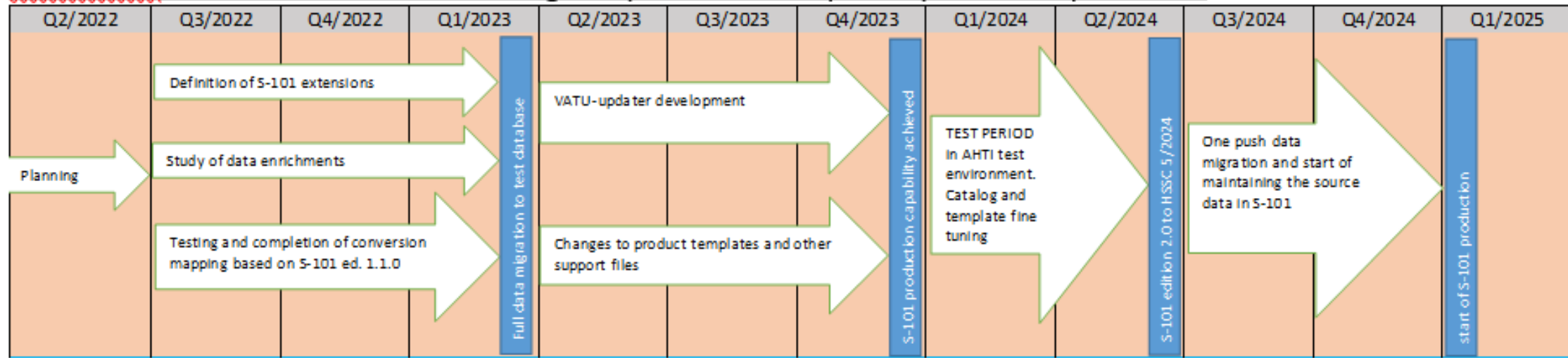
BSICC FUTURE WORK- S-101 PRODUCTION PLANS

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Promoting and assembling S-101 production readiness and production plans (coverage, schedule) will be among the most important tasks of BSICCWG(BSHC) over the next few years.

Example of organizing S-101 production (Finland)

Traficom's initial schedule for building the production capability of S-101 products:





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ACTIONS TO BE CONSIDERED BY THE WENDWG

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WENDWG is invited to note the report.

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