

Report on the NSHC questionnaire results on S-100 implementation

- ▶ 80% of the NSHC Members filled out the questionnaire
- ▶ 62.5% (5 out of 8) of the Member organizations has a **firm S-1xx plan** (timeline, products) which they are working towards (YES-group) and 37,5% doesn't (NO-group).
- ▶ In the 'YES'-group , 2 Members have already a S-100 plan (UK and BE). 1 Member is updating the existing S-1xx plan (2021) by Q1-2023 (FR) and 2 Members (DK and SE) will finalize their plans in 2023.
- ▶ In the 'NO'- group 2 Members are developing a S-1XX plan which will be completed by the end of February 2023.



- ▶ IHO Hydrographic Standards and Services Committee identified a number of S-1xx products or services as priorities. These include: S-101 ENC, S-102 Bathymetry, S-104 Water Level, S-111 Surface Currents, S-124 Navigational Warnings, S-128 Catalogue of Nautical Products, S-129 UKC Management.
- ▶ 87.5% (7 out of 8) of the 'YES'-group agrees that we should focus on the priorities set out by the IHO; 1 Member (D) suggests to exclude S-129, as it is usually managed by private companies and S-124 which is not always under the responsibility of the HO's.
- ▶ No proposals for other S-1xx data products as priority



- ▶ The IHO Roadmap for the S-100 Implementation Decade version 2.0 (December 2021) included the following statement: It is proposed to seek commitment from as many as possible IHO MS to start regular native production of S-101 ENC's in 2025 and regular availability gradually growing in the course of 2026 in parallel to regular S-57 production.
- ▶ 87.5% (7 out of 8) of the 'YES'-group considered this achievable for their organization to deliver this as part of a regional ambition.
- ▶ 1 Member has concerns that they will not be able to achieve the proposed deadline of 2025 because the amount of time between product specifications having final approval and operational data being available, is very small.



Priority products

PRIORITY	1	2	3
GERMANY	S-128 Catalogue of Nautical Products	S-102 Bathymetry	S-104 Water Level
UK	S-102 Bathymetry	S-104 Water Level	S-111 Surface Currents
NETHERLANDS	S-102 Bathymetry	S-104 Water Level	S-111 Surface Currents
SWEDEN	S-128 Catalogue of Nautical Product	S-102 Bathymetry	S-104 Water Level
NORWAY	S-102 Bathymetry	S-111 Surface Currents	S-104 Water Level
DENMARK	S-102 Bathymetry	S-128 Catalogue of Nautical Products	S-104 Water Level
BELGIUM	S-102 Bathymetry	S-128 Catalogue of Nautical Products	S-104 Water Level
FRANCE	S-124 Navigational Warnings	S-128 Catalogue of Nautical Products	S-111 Surface Currents
PRIORITY	4	5	6
GERMANY	S-111 Surface Currents	S-124 Navigational Warnings	S-129 UKC Management
UK	S-128 Catalogue of Nautical Products	S-124 Navigational Warnings	S-129 UKC Management
NETHERLANDS	S-128 Catalogue of Nautical Products	S-124 Navigational Warnings	S-129 UKC Management
SWEDEN	S-124 Navigational Warnings	S-129 UKC Management	S-111 Surface Currents
NORWAY	S-128 Catalogue of Nautical Products	S-124 Navigational Warnings	S-129 UKC Management
DENMARK	S-111 Surface Currents	S-124 Navigational Warnings	S-129 UKC Management
BELGIUM	S-111 Surface Currents	S-124 Navigational Warnings	S-129 UKC Management
FRANCE	S-104 Water Level	S-102 Bathymetry	S-129 UKC Management

	Priority by product	% of Members
S-102	1	62,5
S-128	2	62,5
S-104	3	87,5
S-111	4	87,5
S-124	5	100
S-129	6	100

Timescales

	S-101	S-102	S-104	S-111	S-124	S-128	S-129
GERMANY	2025	2026	2027	2028	2030 or later	2025	2030 or later
UK	2025	2025	2025	2025	2025	2025	2025
NETHERLANDS	2026	2025	2025	2025	2030 or later	2025	2030 or later
SWEDEN	2025	2026	2027	2028	2027	2025	2028
NORWAY	2025	2025	2025	2025	2026	2026	2026
DENMARK	2026	2026	2030 or later	2030 or later	2030 or later	2027	2030 or later
BELGIUM	2025	2025	2026	2026	2027	2026	2030 or later
FRANCE	2025	2027	2026	2025	2025	2025	2027

Product	2023	2024	2025	2026	2027	2028	2029	2030
101	0	0	6	2	0	0	0	0
102	0	0	4	3	1	0	0	0
104	0	0	3	2	2	0	0	1
111	0	0	4	1	0	2	0	1
124	0	0	2	1	2	0	0	3
128	0	0	5	2	1	0	0	0
129	0	0	1	1	1	1	0	4



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Timescales

	S-101	S-102	S-104	S-111	S-124	S-128	S-129
GERMANY	2025	2026	2027	2028	2030 or later	2025	2030 or later
UK	2025	2025	2025	2025	2025	2025	2025
NETHERLANDS	2026	2025	2025	2025	2030 or later	2025	2030 or later
SWEDEN	2025	2026	2027	2028	2027	2025	2028
NORWAY	2025	2025	2025	2025	2026	2026	2026
DENMARK	2026	2026	2030 or later	2030 or later	2030 or later	2027	2030 or later
BELGIUM	2025	2025	2026	2026	2027	2026	2030 or later
FRANCE	2025	2027	2026	2025	2025	2025	2027

Product	2023	2024	2025	2026	2027	2028	2029	2030
101	0	0	6	2	0	0	0	0
102	0	0	4	3	1	0	0	0
104	0	0	3	2	2	0	0	1
111	0	0	4	1	0	2	0	1
124	0	0	2	1	2	0	0	3
128	0	0	5	2	1	0	0	0
129	0	0	1	1	1	1	0	4



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Assuming NSHC Member States want to be more ambitious than your answers above. What would be required for your organization to bring timelines forward by for example one or two years? How could other NSHC Member States support you?

- ▶ Maturity of the standards and the progress of the product specifications are very important for the way forward (UK, SE and BE);
- ▶ Competence building for some standards is needed (N);
- ▶ Sufficient funding and resources are necessary (DK): no task for NSHC, but for agencies within the MS themselves;
- ▶ Sharing experiences within NSHC (DK, BE) would be of great interest.
- ▶ Projects for developing capacities in S-100 services, in particular towards EU should be initiated by the NSHC (F).



Recommendations

Based on the outcome of the questionnaire we propose the following recommendations for NSHC Member States to discuss at NSHC36:

- ▶ 1. Noting the ambition and agreement about the priority S-1xx products to be developed, it is suggested that clear responsibilities should be allocated to ensure regional coordination. It is therefore proposed that the following working groups lead the coordination activities:
 - NSICCWG: S-101 and S-102
 - Tidal WG: S-104 and S-111
 - MSIWG: S-124 and S-128
 - No regional coordination is proposed for S-129.
- ▶ 2. The timescales suggested by MS for S-1xx product development showed quite a spread. To ensure regional alignment of products, options could include to go at the pace of the slowest, the majority or the fastest. It is recommended that MS discuss at the NSHC36 meeting what level of ambition NSHC MS want to adopt to deliver regional packages of S-100 products.

