



# Implementation status

## S-104 & S-111

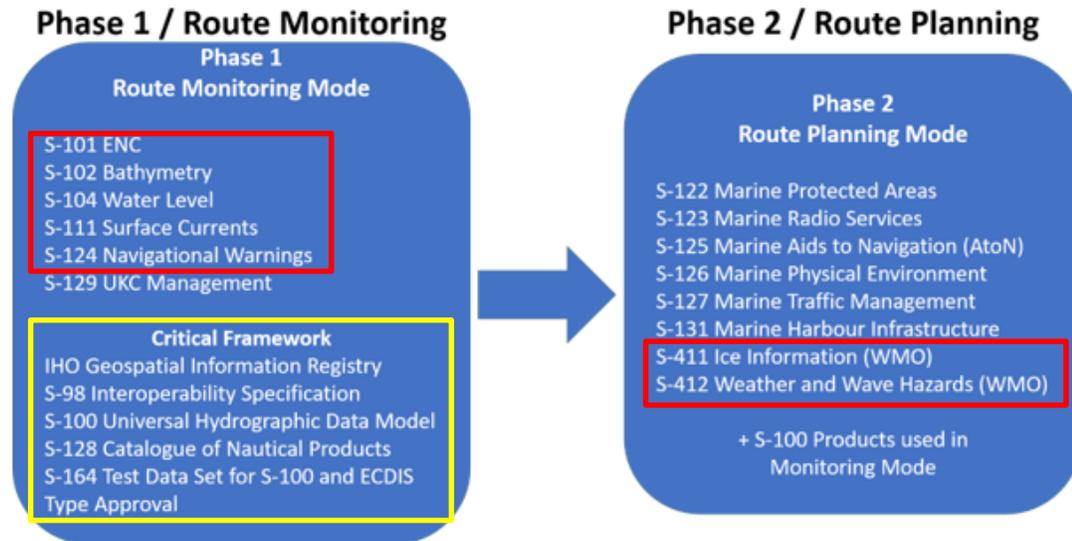
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NSHC TWG27 4-5. February 2025



Danish Geodata Agency

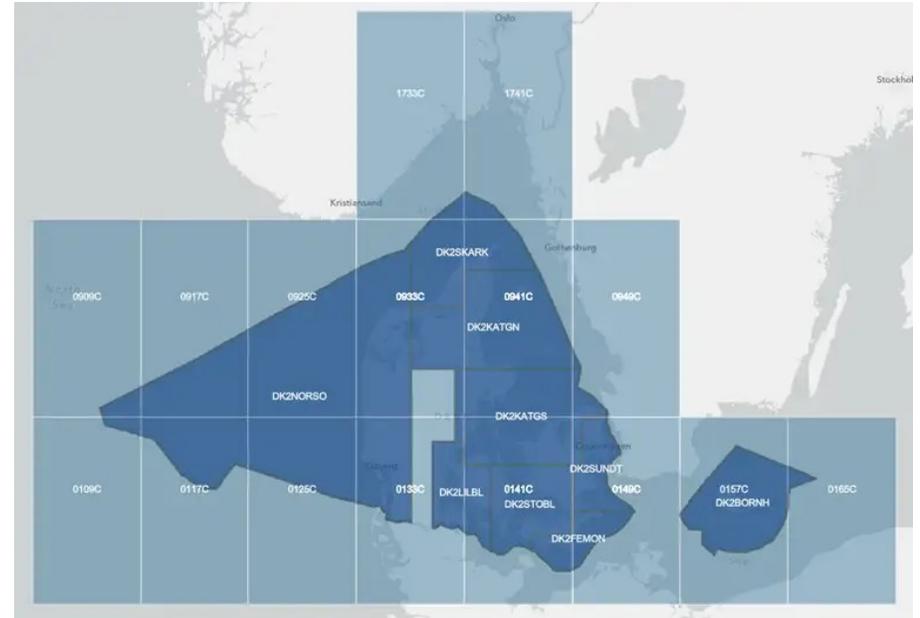
# National S-100 Working Group



# DGA's S-1xx activities

Currently, GDA emphasise on developing the framework for producing S-101 and S-102 products.

- New ENC griding scheme
- S-101/S-102 supported production systems
- Product parameters, e.g. S-102

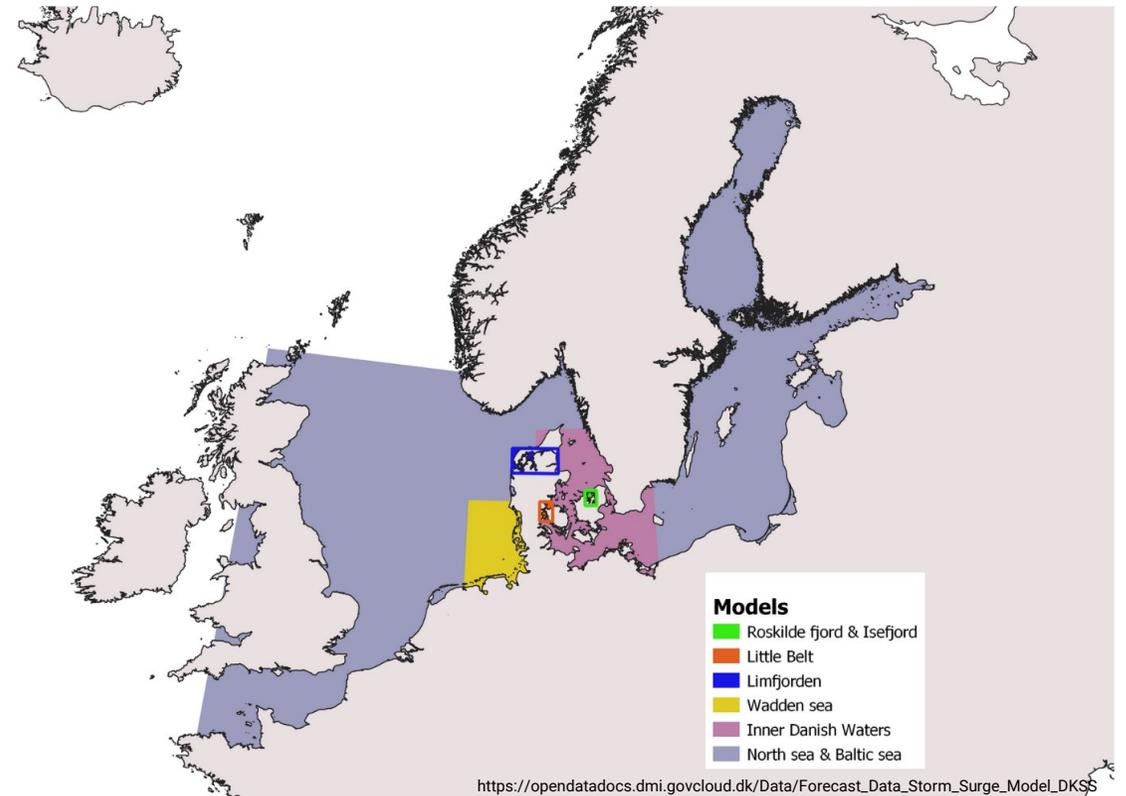


LAT/LON	8°	4°	2°	1°	30'	15'
8°	A					
4°		B				
2°			C			
1°				D		
30'					E	
15'						F

# S-104 / S-111

A joint production plan is currently an outstanding task.

- DMI Open Data
  - › [DKSS](#) (Storm Surge Model)
    - Weather forced using DMI's Harmonie and ECMWF
    - Circulation model Hiromb-BOOS (BHM)
    - Runs 4 times a day



# Questions to TWG (1)

S-104 enables water level adjustments, thus altering nautical depths on an ECDIS.

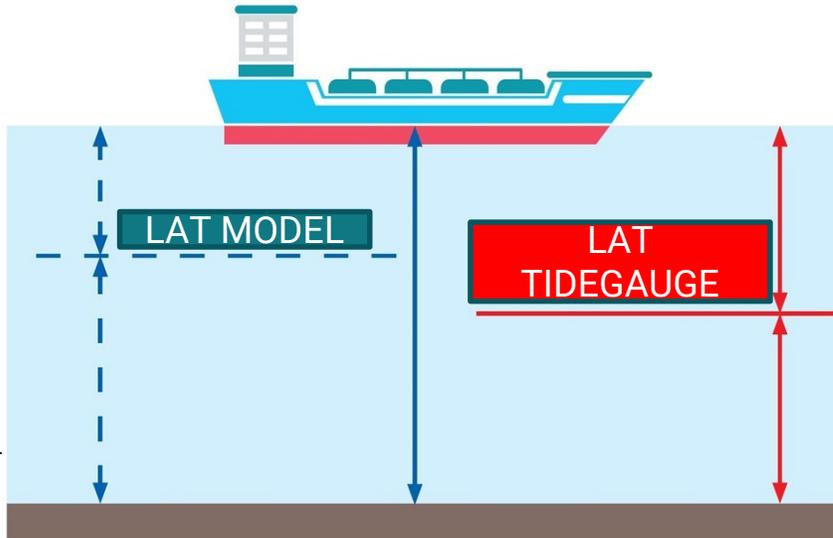
- How do you ensure that the quality of oceanographic model is suitable for navigation (liability)?
  - › Data input, model verification, max uncertainties



# Questions to TWG (2)

S-104 and multiple realizations of hydrographical reference surfaces

- Managing multiple realizations of LAT
- Harbours and other 3rd parties manage their own gauges
- Transition from traditional *point based* LAT to *surface based* LAT



LAT: -1.208 m  
55°28'N  
08°26'E  
Dansk Normaltid (UTC+1 time)

## Esbjerg Havn

Januar			Februar			Marts		
	Tid	[m]		Tid	[m]		Tid	[m]
<b>1</b>	05:27	2.10	<b>16</b>	05:56	2.20	<b>1</b>	00:11	0.33
	12:04	0.35		12:19	0.12		06:14	2.08
Ma	17:57	1.75	Ti	18:39	1.83	To	12:43	0.36
						Fr	13:27	0.27
						»	19:40	1.85
<b>2</b>	00:00	0.40	<b>17</b>	00:26	0.25	<b>2</b>	00:48	0.36
	06:04	2.08		06:43	2.20		06:54	2.04
Ti	12:42	0.39	On	13:07	0.16	Fr	13:22	0.39
	18:36	1.75		19:27	1.82	»	19:25	1.80
<b>3</b>	00:39	0.43	<b>18</b>	01:15	0.26	<b>3</b>	01:31	0.41
	06:45	2.05		07:35	2.17		07:41	1.98
On	13:22	0.42	To	13:59	0.22	Lø	14:07	0.44
	19:21	1.74	»	20:20	1.80	Lø	20:16	1.78
						Sø	21:41	1.78
						Sø	00:59	0.36
						»	07:06	1.94
						»	13:27	0.45
						»	19:33	1.82
						»	21:00	1.79

