

## NSHC Tidal Working Group (TWG)

### Report to the NSICCWG on the Implementation Status of S-104/S-111

#### Background

The North Sea Hydrographic Commission (NSHC) has decided to task the Tidal Working Group (TWG) to coordinate the implementation of S-104 and S-111 and to report to the North Sea International Charting Co-ordination Working Group (NSICCWG) on the progress (Decision 6/2023 C.2 and Action 6/2023 C.4 from NSHC36).

#### Status of implementation

At our last working group meeting in Taunton, UK, on 4-5 February 2025, the following Member States gave presentations on the ongoing national work to implement these two products (the TWG27 agenda and presentations are available at the [TWG Website](#)):

- Norway
- France
- United Kingdom
- Sweden (including activities within BSHC-CDWCWG and the e-Nav project)
- Netherlands
- Denmark
- Belgium

In general, the state of implementation is very heterogeneous across Member States. In most countries, the responsible authorities for the products have been identified and timetables have been set. Some countries have started to produce test datasets.

Testbeds and trials including S-104 and/or S-111 data are conducted in the following regions:

- Norway: Hugesund
- France and UK: The Channel
- Sweden and Finland: The Öresund Strait and the Quark

Regional cooperation and harmonisation of implementation were also discussed. It was suggested to strengthen cooperation in the provision of tide gauge related data (availability of real time data and forecasts, information on datum and levelling). Links to test datasets and information on testbeds will be made available on the [IHO S-100 Resources](#) website. Already at the last TWG meeting it was decided that the co-operation could include the comparison of national products at maritime borders and the exchange of software.

**A questionnaire will be conducted in 2025 to collect detailed and standardized information from the Member States on the implementation status of S-104 and S-111.**

When developing and producing S-104 data sets, close attention needs to be paid to the development of S-102, as these two data sets need to interact with each other. It was therefore suggested by members of the TWG that there should be close co-operation with the NSICCWG and that information on the North Sea-wide implementation of S-102 should also reach the members of the TWG. For this reason, S-102 test data sets are needed and it would be helpful if the NSICCWG could draw the TWG's attention to suitable data sets.