

NSHC - Tidal Working Group 27

Taunton 4 – 5 February 2025

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overview

- Ongoing LAT Study
- Updated tidal currents atlas Zeebrugge
- S-100 / S-104 / S-111
- ~~Data archeology~~

Ongoing LAT study

- UGent study for an updated LAT Surface for the Belgian part of the North Sea
 - Evaluating quality of existing data series
 - Evaluation of tidal calculation methods
 - Point based calculations

Up next :

- Covering the surface
- Hydrodynamical modelling along the Deltares/TU Delft softwares and procedures.

tidal currents atlas Zeebrugge

- Based on new ADCP measurements and additional modelling
- Developed by Flanders Hydraulics (Watlab)
- More detailed information on the eddies inside the port of Zeebrugge
- “traditional” product – update of a similar product from 2011

tidal currents atlas Zeebrugge

- July 2024 :
 - Largest container ship so far entered Zeebrugge
 - 400m x 59m
 - draft of 16,3m



tidal Currents atlas Zeebrugge



S-100 in Belgium

- Maritime Services Division project group set up
 - Main group
 - Hydrographic Office
 - Pilots
 - Vessel Traffic Services
 - Seperate working groups
- Current focus on S-101 /S-102
 - First test dataset released to IC-ENC
- Timeline for S-104/S-111
 - 2026

- Different options :
 - Remodelling results from the existing Current and Water Levels Digital Atlas (ed. 2017)
 - Integrate results from existing hydrodynamic models (Flanders Hydraulics / RWS)
 - Expand from the results of the hydrodynamical modelling for the updated LAT surface
 - Results from machine learning procedures based on existing measurements and observations

S-104 / S-111

- Significant data crunching required between models and final product
- Exciting times to come

Data archeology TWG 13 – Taunton 2004

