NSHC 34 VTC Item D2 Tidal Working Group Report

Meeting

Reykjavik, 5-6 February 2020 (participants from NL, UK, DE, IS, BE SE, DK,

NO)



Numerous contacts by correspondence mainly on a bilateral basis.

Tide gauge operations

- Heterogeneous ownership/operation of tide gauges (HO, ports, public works administration, meteorological institute ...)
- Requirements for maintenance show variation depending on intended principal purpose of the tide gauge (Benchmarks, levelling, determining MSL trends ...)

Online tidal data

- Water level observations
- Tide tables
- Forecasts
- API for internal and third party applications

Current issues

- Challenges in creating a seamless land and sea reference surface.
 (NO example)
- Extreme water level calculations and surge warnings (IS example)
- Developments in GNSS Based surveys (All)
- Investigating and reducing differences between reference surfaces at international borders (BE-NL / DE-NL / DK-SE-NO) — the maximum 1% of water depth as the acceptable difference between different LAT reference surfaces is hard to achieve in very shallow areas.

Future outlook

- Introduction of S-100 series (S-104 Water level information for surface navigation and S-111 Surface currents)
- Investigating and further reducing differences between reference surfaces at international borders
- IHO TWLCWG project on Data archeology

Progress since the last meeting:

- New finalized LAT reference surfaces: DE and NL
- Upcoming tender for establishing an updated LAT reference surface for BE

- NSHC 34 is asked to
 - Take note of the report
 - Further charge the working group with:
 - Monitoring developments in GNSS Based surveys
 - Prepare introduction of S-100 series (S-104 Water level information for surface navigation and S-111 Surface currents)
 - Investigating and further reducing differences between reference surfaces at international borders