

Royal Netherlands Navy Hydrographic Service

Vertical reference unification

A contribution to axis 3:
"Vertical references & Chart datum"
of the Roadmap

Leendert Dorst
4th EU/IHO talks, 24 October 2013

Progress on different levels:

- National:
 - gouvernement (NHI=Rijkswaterstaat+NLHO);
 - academia (DUT, NCG, STW);
 - institutes (Deltares).
- North Sea wide:
 - NSHC Tidal WG;
 - Interreg IVb BLAST, Work Package 3;
 - Hydro2010(DE), REFAG2011(FR), Hydro12(NL).
- European:
 - INSPIRE CRS/GGS;
 - EMODNET Bathymetry;
 - Green paper Marine Strategy.

2 Vertical reference unification 4th EU/IHO talks, 24 October 2013

Source: NSHC TWG (2010)

Theory

3 Vertical reference unification 4th EU/IHO talks, 24 October 2013

Source: NSHC TWG (2010)

NSHC Tidal Working Group work of 2010

4 Vertical reference unification 4th EU/IHO talks, 24 October 2013

Source: NSHC TWG (2010)

NSHC Tidal Working Group work of 2010

MSL vs ellipsoid: diff. <0.5 m. LAT vs ellipsoid: diff. <0.5 m. CD vs ellipsoid: diff. <0.8 m.

5 Vertical reference unification 4th EU/IHO talks, 24 October 2013

Source: NSHC TWG (2010)

NSHC Tidal Working Group work of 2010

CD vs LAT: diff. <0.8 m.

6 Vertical reference unification 4th EU/IHO talks, 24 October 2013

