

NATIONAL REPORT FROM NORWAY

EUREF 2018



Levelling bencmark in Bømlo, Norway. Photo: Per Chr. Bratheim

Fundamental station

Ny Ålesund in Spitsbergen



- Multi technique station: VLBI, SLR, DORIS and GNSS
- Official opening on June 6th 2018
- Some technical issues to be solved, planned operational late 2018



Implementation of the new geophysical height system NN2000/EVRS2007 is completed

- Includes more than 30 000 km of precise levelling acquired over a time period of 100 years
- The last municipalities converted to NN2000 in May 2018





Re-computation of control points in Euref89

- The national control point network in Euref89 was established before the CORS network
- Extensive GNSS campaigns have been conducted since 2009
- All control points will be re-computed based on the CORS-network
 - Coordinate differences 0 3 cm
- Control points will be fully aligned with the positioning service CPOS after update



Future reference frame strategy

- We expect that future technology will require data in a global reference frame in near current epoch
- Proposed strategy:
 - Step 1: Change from Euref89 to ITRF/IGS epoch 2020 or later
 - Step 2: Data management in near current epoch (dynamic reference frame)?



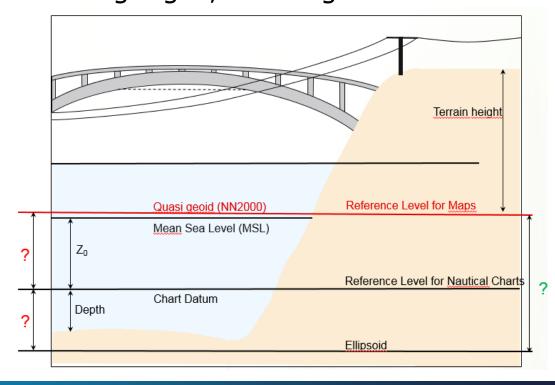
Connecting height datum and chart datum

 Pilot project to determine the relationship between chart datum, height datum and reference ellipsoid

Separation models based on tide gauges, levelling data and

GNSS

Project phase II in 2018 will focus on fiord areas





Thank you for your attention!





Photo: Eivind Leren