



Danish Ministry of the Environment
Danish Geodata Agency

National Report Denmark

EUREF Symposium 2015

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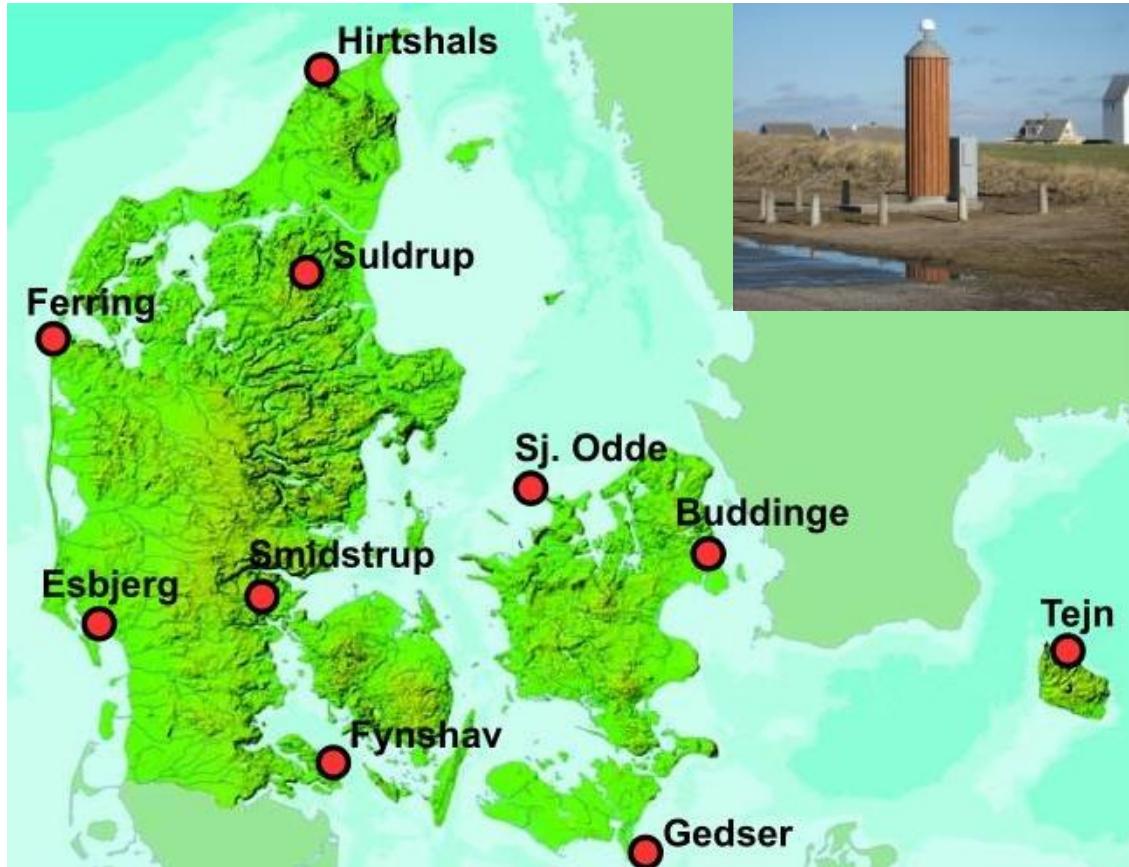
Outline

- Geodetic infrastructure in Denmark – status and activities
- Motorised trigonometric levelling – new tests
- GNSS Trans Light – new software for coordinate transformation



The geodetic infrastructure in Denmark

Permanent GNSS stations



10 GNSS stations
operated by the
Danish Geodata
Agency (3 EPN
stations)

+ approx. 70 GNSS
stations operated by
private RTK-
services

The geodetic infrastructure in Denmark

- Contributions to international activities
 - Projects within Nordic Geodetic Commission WGs: NKG GNSS AC, NKG GIA model etc. (Danish Geodata Agency + DTU Space)
- Approx. 1500 km of motorised geometric levelling carried out in 2014
 - Precision levelling connecting 1st order levelling network with GNSS stations and tide gauges (operated by Danish Meteorological Institute etc.)
 - Levelling networks to facilitate new major infrastructure projects
 - Levelling in order to densify/maintain 3rd order levelling network
 - Etc.



Motorised trigonometric levelling – new instrument in test



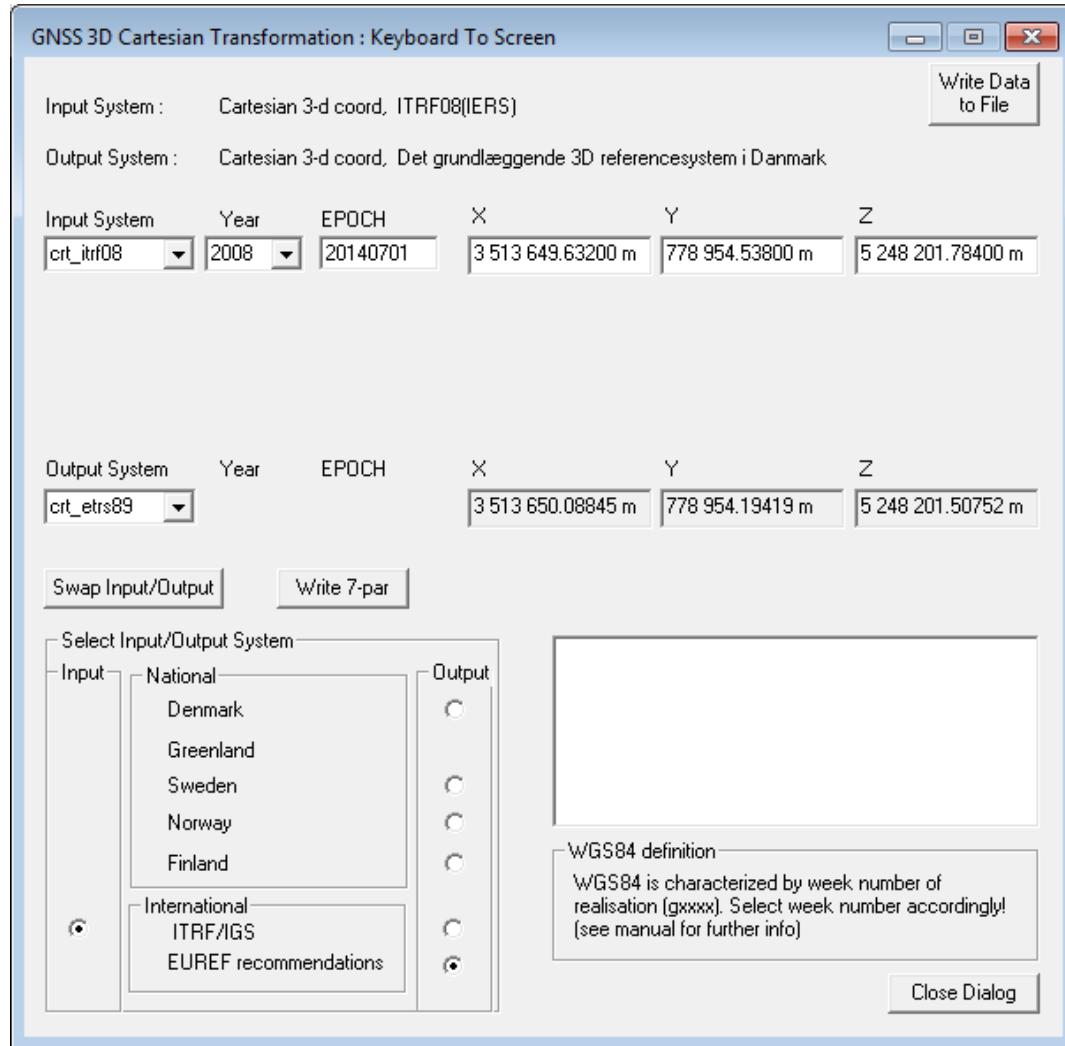
Trimble S8 Total Station – 0.5 arc second, automatic

A levelling team consists of only 2 persons with a car and an instrument each

First test results:
Accuracy approx. 3 ppm at sighting distances up to 500 m

Levelling speed up to 3 km/h

GNSS Trans Light



New Windows software
for coordinate
transformation (ITRF,
IGS, ETRS89 etc.)

Developed by DTU Space

Public available autumn
2015 at www.gst.dk



Thank you!

