

National Report of the Netherlands

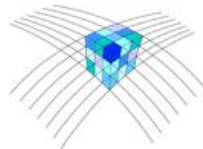
EUREF 2013, Budapest, 29 – 31 May 2013

Rogier Broekman (Rijkswaterstaat)
Hans van der Marel (Delft University of Technology)
Lennard Huisman (Kadaster)

31 May 2013



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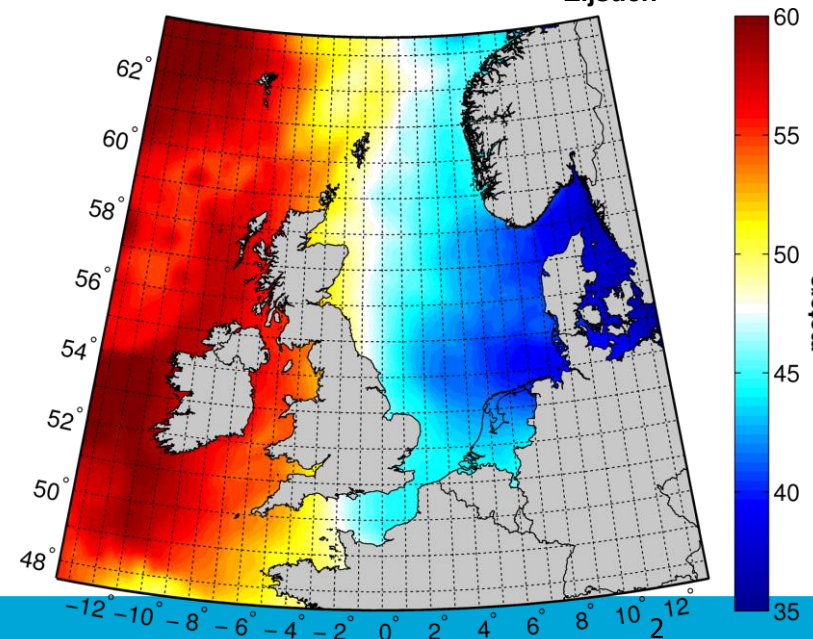
Rijkswaterstaat



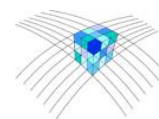
TU Delft
Delft University of Technology

Geodetic Infrastructure of the Netherlands

- National Geodetic Infrastructure by :
Cadastre, Min. of Infrastructure and Environment, Navy, Delft University
- Common projects
 - AGRS operation, control & maintenance
 - 1st order gravity measurements
 - Vertical Reference Frame for the Netherlands Mainland, Wadden Islands and Continental Shelf



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KOSG

GNSS Since 1991

Co-locations with

- SLR
- Gravity (until 2000)



Kootwijk Observatory for Satellite Geodesy (1975 – 2000)



Situation since 2008

- Solar panels / fuel cell
- GPRS data link
- But same antenna and mast as in 1991 -> showing signs of wear!
- No co-locations

KOS1



The “Cathedral”; Radio Kootwijk, protected monument

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KOSG and KOS1 locations



KOSG

814 meter

KOS1



Co-locations KOS1

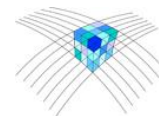
GNSS



Gravity

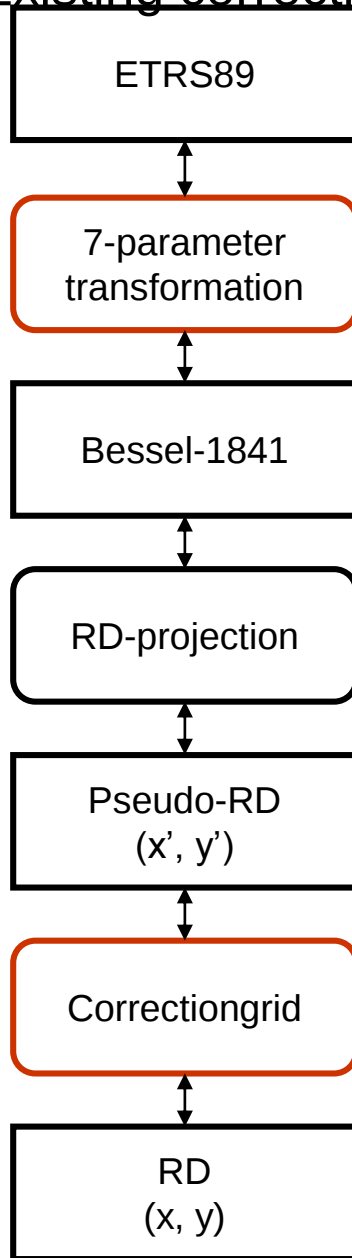


Height

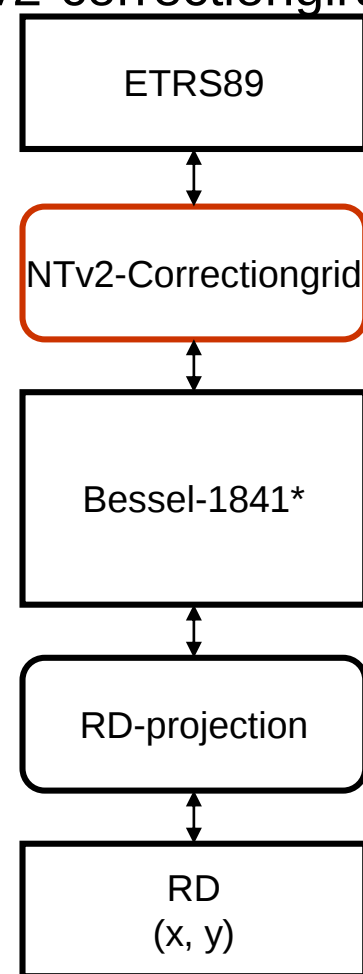


RDNAPTRANS™

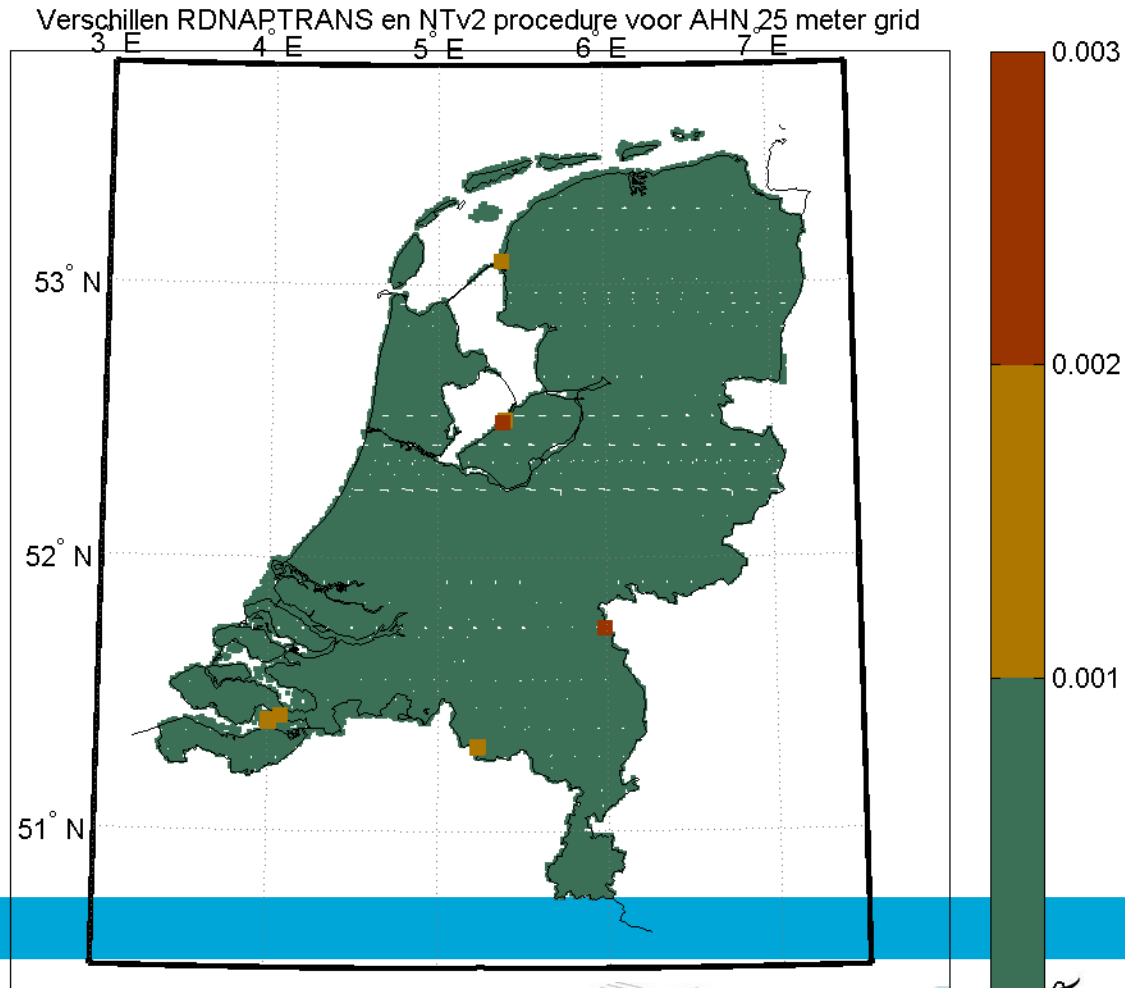
Existing correctiongrid



NTv2-correctiongrid



Difference between RDNAPTRANS and NTV2 approach



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Thank you for your attention