

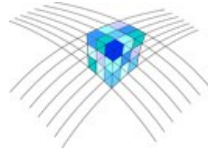
National Report of the Netherlands

Lennard Huisman

Jochem Lesparre

Bas Alberts

Hans van der Marel



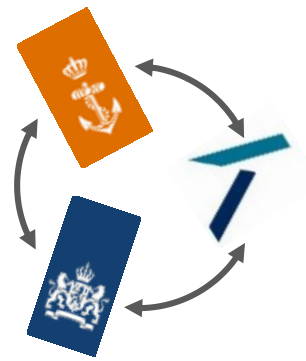
EUREF 2016

Activities (1)

- Campaigns and projects
 - NEVREF geoid for Netherlands, Belgium and North Sea Continental Shelf
 - 3300 km second order levelling
 - Absolute gravity campaign at 6 points
 - Control of 21 points of the passive GNSS-network

Activities (2)

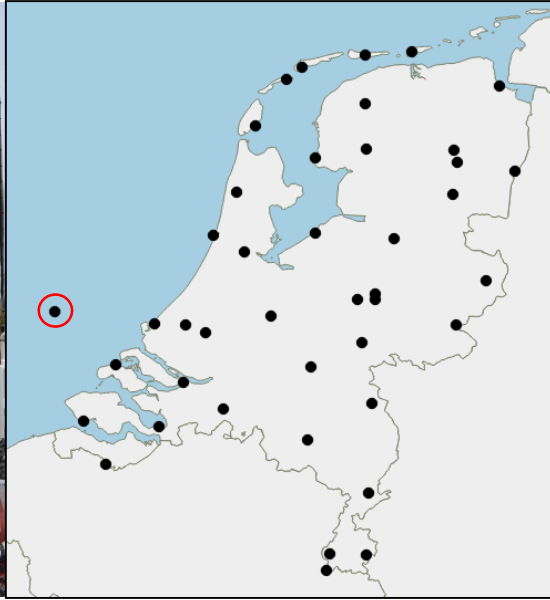
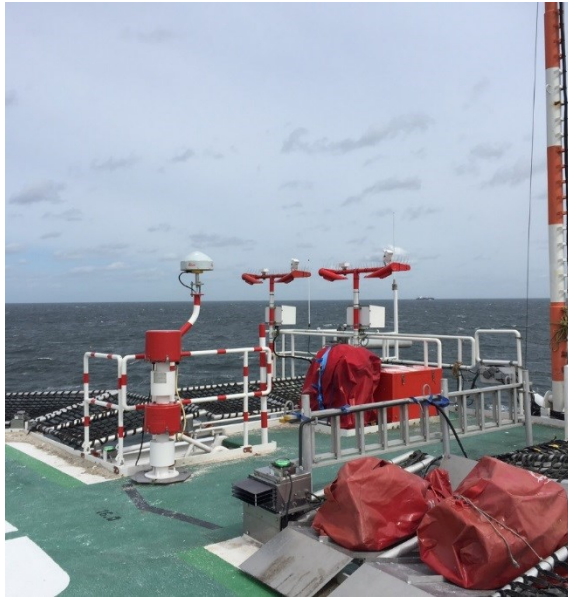
- National collaboration
 - Planned activities for 2016-2020
 - (re-)design transformation procedure RD/NAP \leftrightarrow ETRS89
 - Deformation (from InSAR) based maintenance of NAP
 - ... and much more (20 pages document)



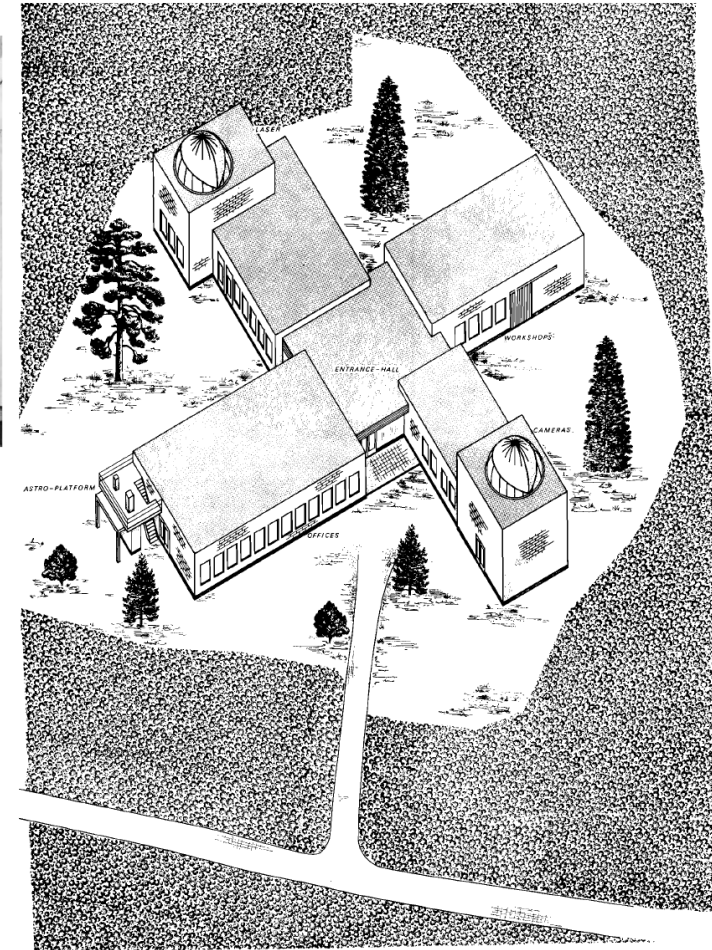
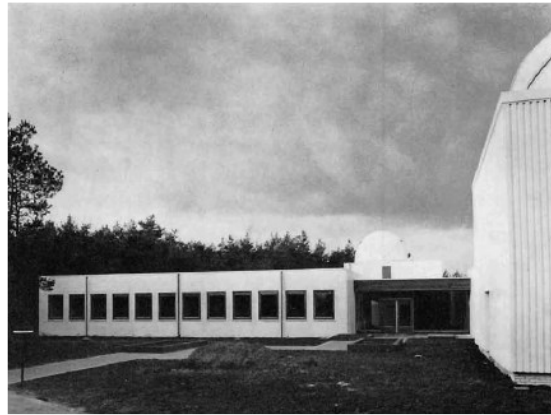
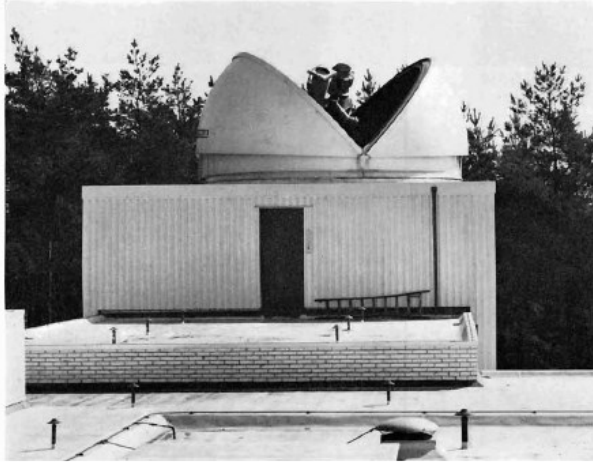
Activities (3)

- GNSS Infrastructure
 - All antennas now replaced by multi frequency choke-rings
 - Acquired multi-gnss receivers for all station, ~60% installed now
 - Proposal to provide data of all 40 GNSS-stations through NTRIP and FTP 'open'
 - New station EPL1
 - New EPN stations: IJMU, KOS1, VLIS
 - Tear down of KOSG

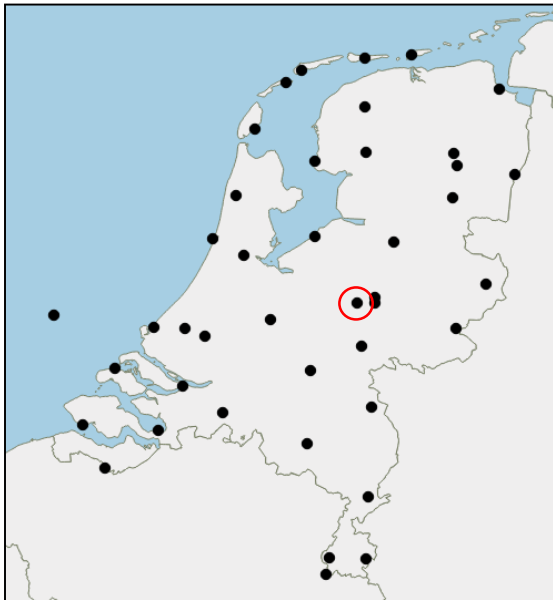
EPL1



Kootwijk Satellite Observatory (KOS) ~ 1973



Bird's eye view of the new observatory



KOS~ 2004



KOSG ~2008



KOSG ~2016



KOSG outlook

- Currently testing the AOAD/M_B DUTD antenna
- Absolute calibration including mount (if possible...)
- Reprocessing