National Report of the Netherlands

EUREF 2008, Brussels, 18-20 June 2008

Hans van der Marel, Pavel Ditmar, Lennard Huisman
(Delft University of Technology)
Joop van Buren (Kadaster)
Anton Kösters (Rijkswaterstaat)
Herman Quee (Netherlands Geodetic Commission)

June 20, 2008

Rijkswaterstaat

TU Delft
Delft University of Technology

AGRS.NL: Primary GNSS Network

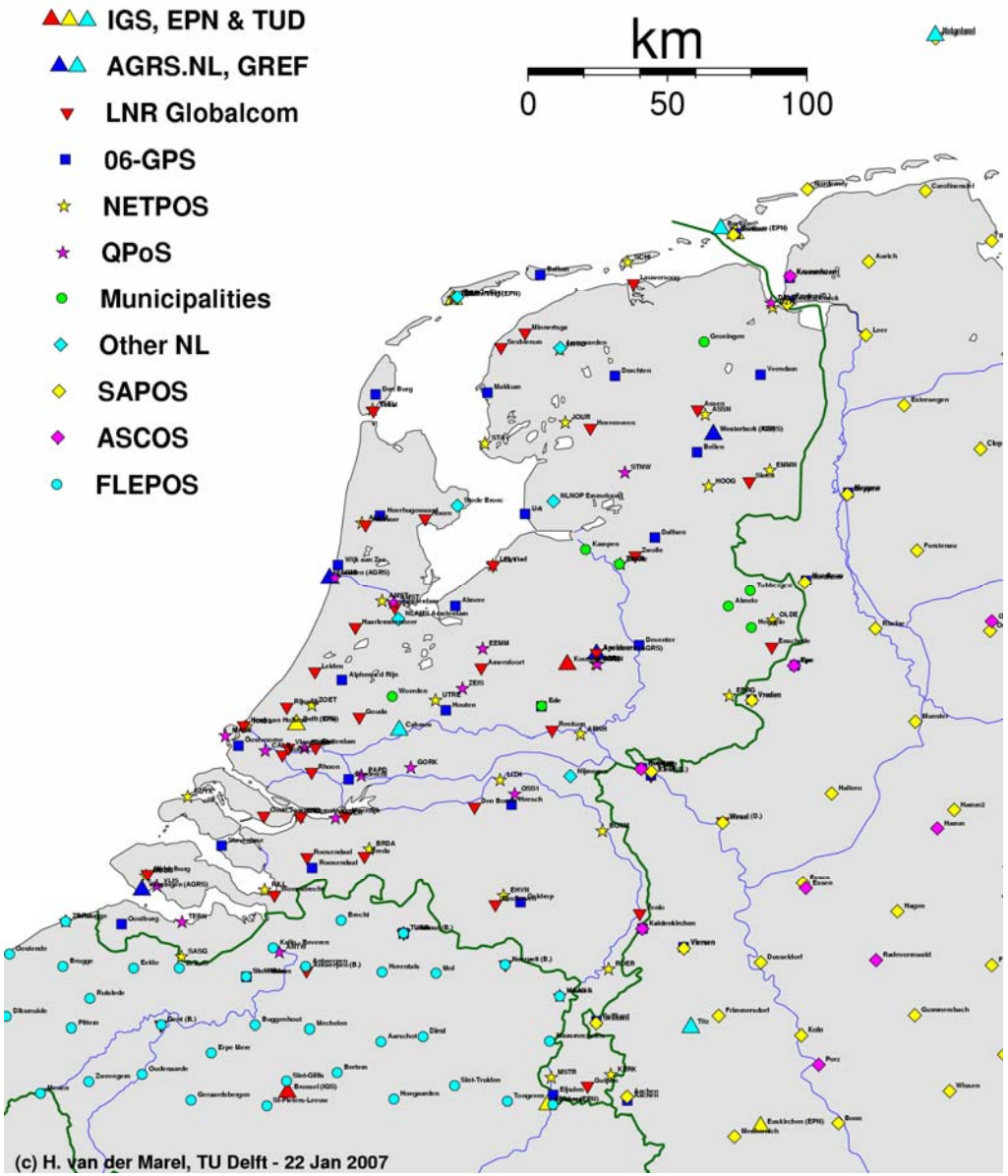
Operational aspects:
- Kadaster 5 sites (NETPOS)
- TU Delft 3 sites & IGS/EPN local data center

DLFT and WSRT are real-time (RT-IGS->NTRIP)

△ Kadaster

▲ TUD (IGS)

TU Delft also runs a site in Cabauw for GNSS meteorology (one of the E-GVAP supersites); not shown in the plot.



GNSS Providers

(with reference stations)

AGRS.NL, IGS, EPN

Network RTK providers:

- 06-GPS (38)
  http://www.06-gps.nl/
- LNR Globalcom (41)
  http://www.lnrglobalcom.nl/site/home.html
- QPoS (29->36)
  http://www.qpos.nl

commercial

- NETPOS (31)
  http://www.netpos.nl

government only

http://gnss1.lr.tudelft.nl/nlref/

Maintenance of Classical Points

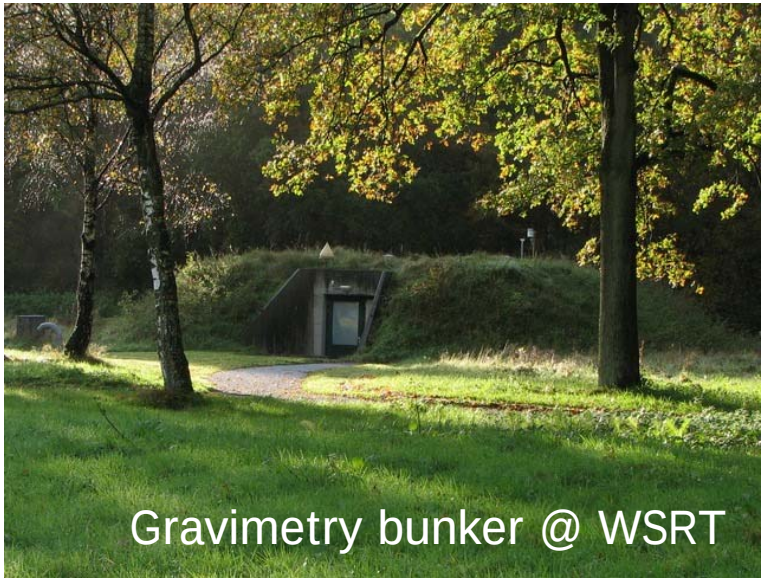
The “Triangulation” network was phased out

- Maintenance of the classical RD points was reduced to 400 GPS base points (kernnetpunten)
- The 400 GPS base points (3-D) are available in
  - ETRS89
  - National RD coordinates and NAP heights
- Transformation procedure RDNAPTRANS

National leveling

- A new maintenance period for the national leveling network NAP was started in 2007 with a duration of 10 years.

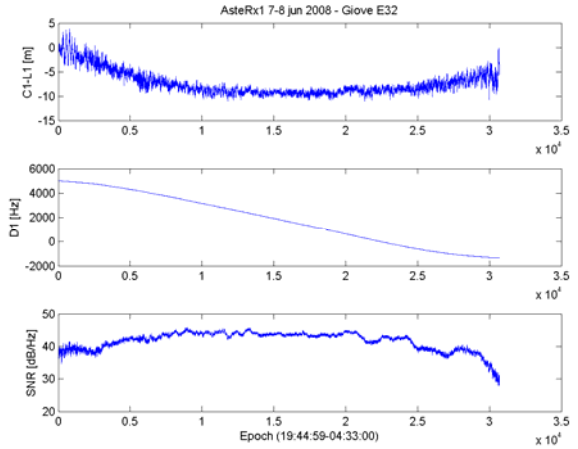
Gravimetry measurements



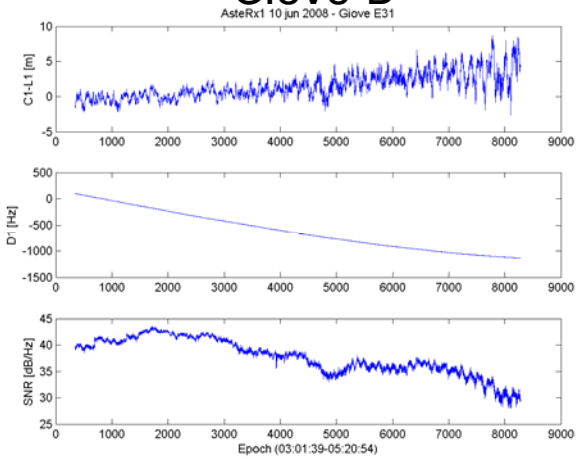
In 2007 the first measurements with a new absolute gravimeter purchased by TUD in 2006 at first order gravity stations were carried out. Also, continuous gravity measurements were carried out at Westerbork (IGS station).

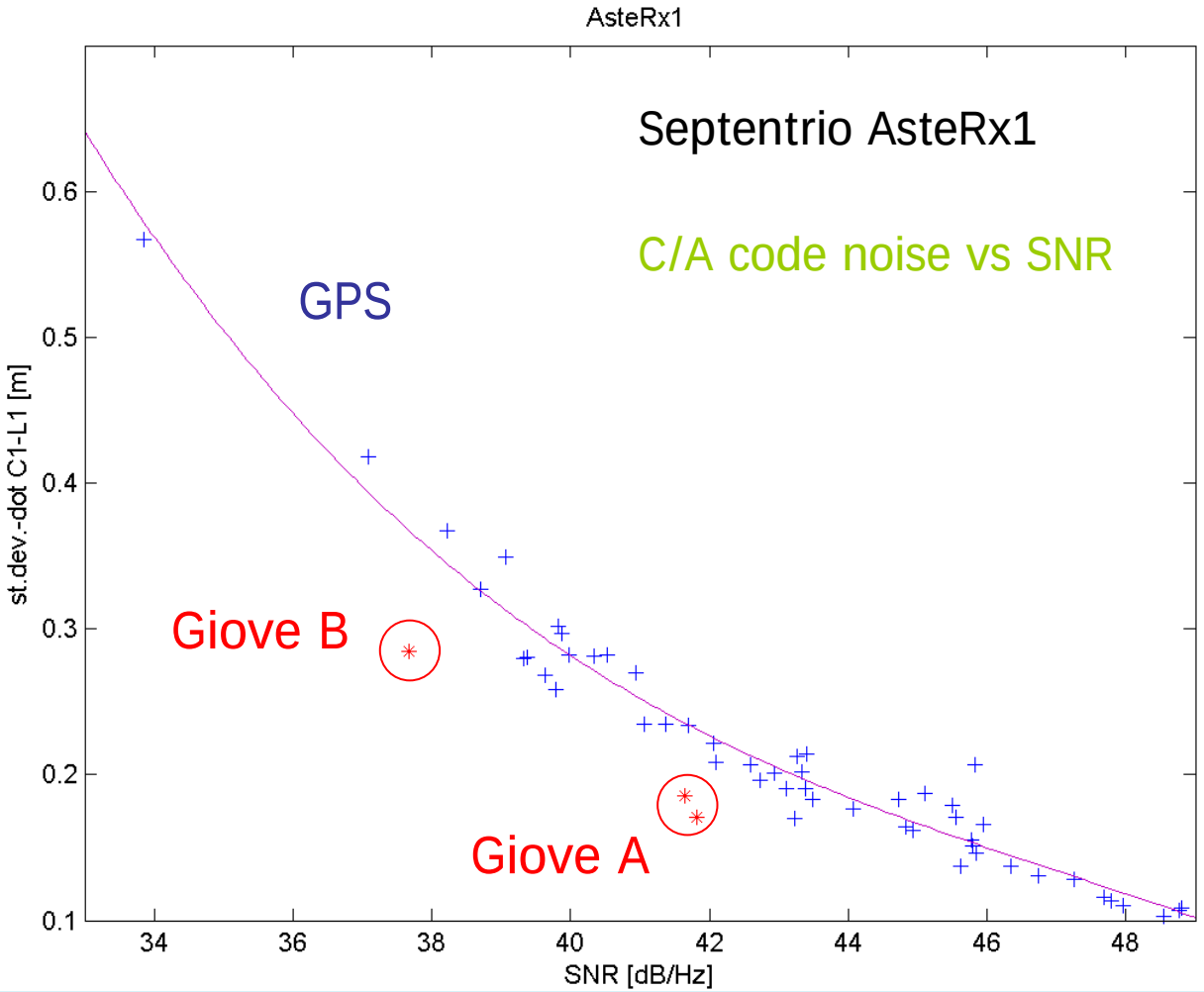
First Galileo measurements in Delft

Giove A



Giove B





Thank you for your attention

National Report of the Netherlands

Summary

In this paper the current status and developments of the Geodetic Infrastructure for the Netherlands are described.

In 2007 important changes in the operational procedures for the permanent networks were made. Also, in 2007, national network RTK services continued to evolve, and in March 2008 a fourth network RTK provider became active in the Netherlands.

Maintenance of the classical RD points was reduced to 400 GPS base points (kernnetpunten). A new maintenance period for the national leveling network NAP was started in 2007 with a duration of 10 years.

In 2007 also the first measurements with a new absolute gravimeter purchased by TUD in 2006 at first order gravity stations were carried out. Continuous gravity measurements were carried out at Westerbork (IGS station).

Finally, the Netherlands Commission for Geodesy (NCG) commissioned a study into the organization of the geodetic infrastructure in the Netherlands. The situation and organization in the Netherlands will be compared to surrounding countries. The results of this study are expected in 2008.