



NATIONAL REPORT OF SWEDEN

– GEODETIC ACTIVITIES AT LANTMÄTERIET

EUREF SYMPOSIUM, 24-26 MAY 2023



SOME ACTIVITIES 2022/23

Already presented

- Swepos 30 years
- InSAR/Corner reflectors
- Change of antennas on Swepos fundamental stations - poster
- Testing snow melting facilities for antennas – poster
- EuVeM22 – poster
- International comparison of absolute gravimeters at Onsala

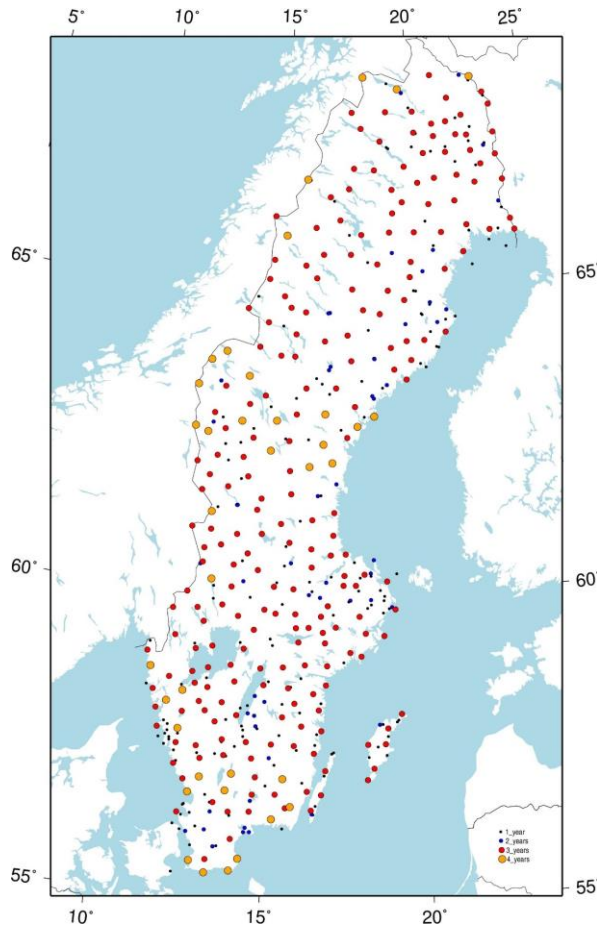
Ongoing

- Pre studies for mass-market applications
- PhD student on IHRS/IHRF

A few words about

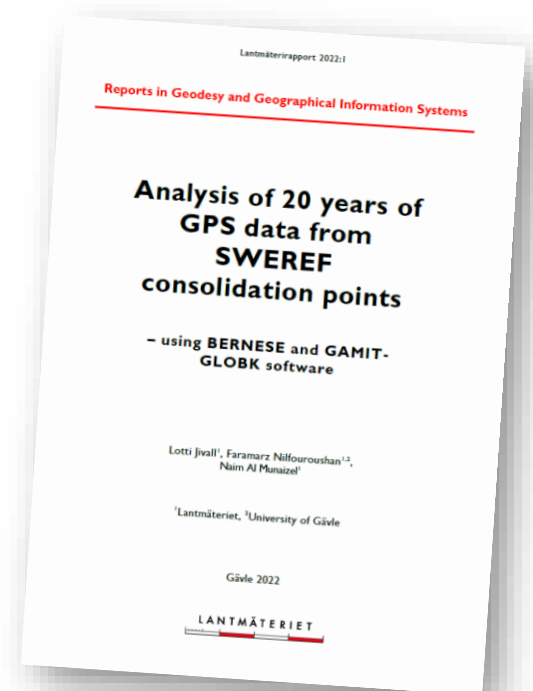
- Reprocessing of passive so called consolidation points
- New post-processing service

ANALYSIS OF 20 YEARS OF GPS DATA FROM SWEREF CONSOLIDATION POINTS



- Repeated measurements (2×24 h) of 300 consolidation points
 - A passive complement to SWEPOS
 - Monitor SWEREF 99
 - GNSS/levelling points for geoid fitting
- Consistent reprocessing, as well as operational processing with changed settings over the years
- Uncertainty estimation: 2; 2; 6 mm (1σ)

Lantmäterirapport 2022:I



DEVELOPMENT OF NEW POST-PROCESSING SERVICE

- Full RINEX 3 support (actually, RINEX version independent)
- GPS/GLO/GAL possibility
- Possibility of separate RINEX QC
- Based on
 - Bernese GNSS Software 5.4
 - Anubis
 - In-house developed Python-based software



THANKS FOR YOUR ATTENTION!

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LANTMÄTERIET

