National Report of Sweden – activities at Lantmäteriet
the Swedish mapping, cadastral and land registration authority


geodesi@lm.se

EUREF Symposium Vilnius
June 4-7 2014
- SWEPOS is the foundation for SWEREF 99 (ETRS89)
- 307 stations
- Since 2010, 40 new stations each year (→ 400 stations in 2015)
- Some 2340 network RTK users (→ 220 new users since last yr)
- Densify from 70 km to 35 km
- 7 EPN stations
- In addition 20 new proposed EPN stations to be operational this year.
SWEPOS

- SWEPOS is the foundation for SWEREF 99 (ETRS89)
- 307 stations
- Since 2010, 40 new stations each year (→ 400 stations in 2015)
- Some 2340 network RTK users (→ 220 new users since last yr)
- Densify from 70 km to 35 km
- 7 EPN stations
- In addition 20 new proposed EPN stations to be operational this year.
Geoid and gravity

• Today: ~1.5 cm leve geoid model (RMS)
• Goal by 2015: ~1 cm; goal by 2020: ~0.5 cm
• The NKG2014 geoid model to be completed this year

• Gravity data set improved by new measurements (~4-5 km spacing)

• New gravity system (RG 2000) to be introduced, based on absolute gravity (FG5 and A10)
• Epoch 2000.0 to be compliant to the height frame RG 2000 and SWEREF 99.
Handbook for Mapping and Surveying

- Lantmäteriet is working on a revised series of handbooks for mapping and surveying
- Involves other organizations, to get their opinions

- Geodata collection
  - Oriented aerial photography
  - Geo-referenced laser data

- Geodesy
  - Reference systems and frames
  - Geodetic surveys for photogrammetric control
  - Geodetic detail surveys
Some issued regarding birds; especially Seagull!
Some issued regarding birds; especially Seagull!
Some issued regarding birds; especially Seagull!
Some issues regarding birds; especially Seagull!