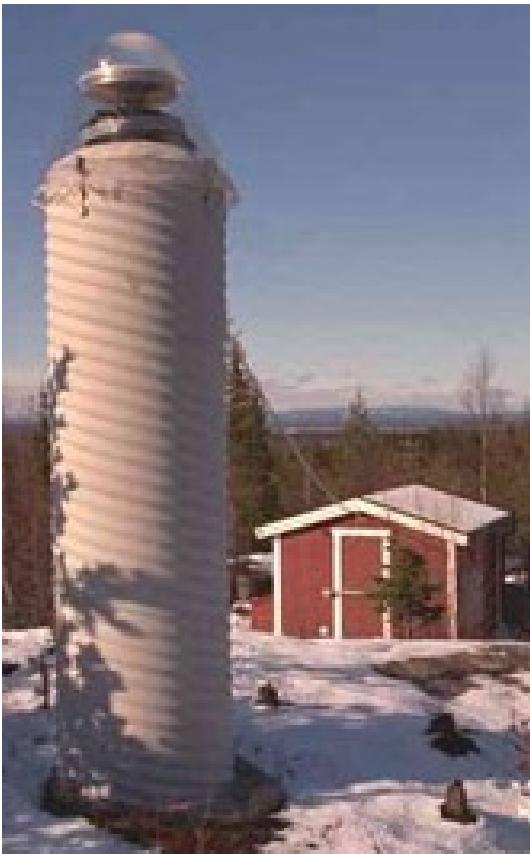

National Report of Sweden

-geodetic activities at Lantmäteriet

**Lotti Jivall, Martin Lidberg, Mikael Lilje, Jonas
Ågren**

EUREF Symposium Riga
June 14th-16th 2006

Contents



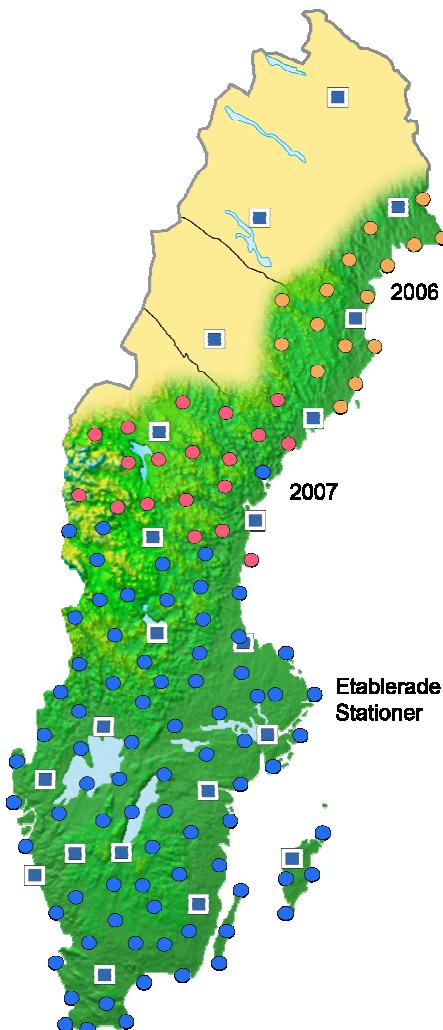
- SWEPOS
 - SWEPOS services
- RIX 95
- New reference systems
 - Implementation of these
- Contribution to EUVN_DA
- Absolute gravity measurements

SWEPOS



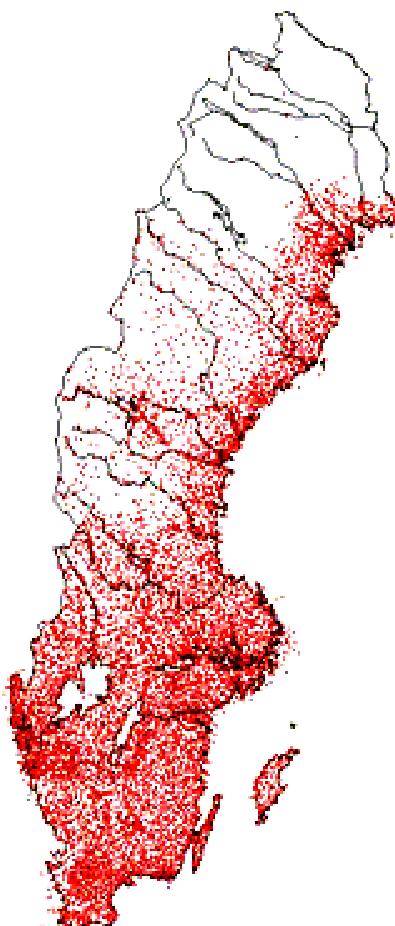
- Currently 105 stations
 - 21 are fundamental
 - 7 EPN
- 16 more during June 2006
- Dual-frequency GPS/GLONASS
- Operates the NKG EPN LAC
 - 42 stations

SWEPOS services



- Network RTK service
 - Approximately 450 subscriptions
- Network DGPS service
- GNSS data for post-processing
- Automated post-processing service
- www.swepos.com

RIX 95



- GPS measurements
- Connection of local coordinate systems to SWEREF 99
 - Transformation parameters for 220 (of 290) Swedish municipalities are available



Levelling



- Third precise levelling finalised in 2003
- New national height system (RH 2000) in 2005
- Connected to EVRS
 - Baltic Levelling Ring



New reference systems

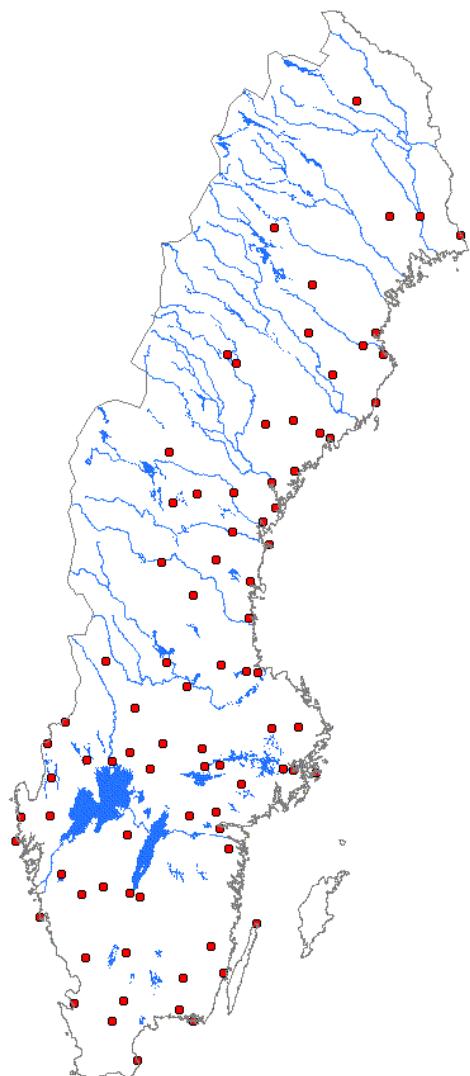


SWEREF 99 and RH2000

- Implementation on national level
 - SWEREF 99 used for GPS since 2001
 - Formal decision 2003 regarding map projection
 - Early 2007, replace RT 90 in databases and production lines at Lantmäteriet
- Implementation in the municipalities
 - SWEREF 99 and RH 2000
 - Correction models together with the SWEREF 99 transformation parameters from RIX 95



EUVN_DA

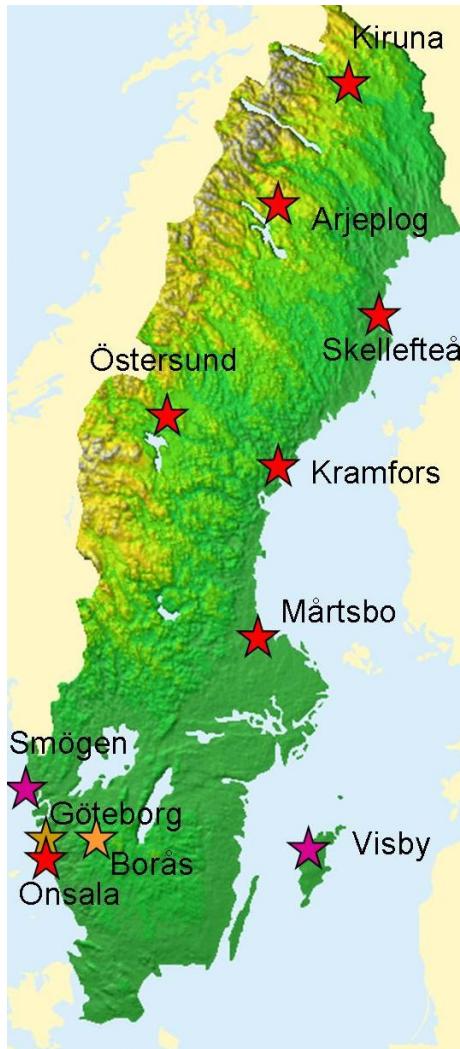


Sweden has delivered 84 stations to EUVN_DA

- Epoch 2000.0 (NKG2000LU used for the reduction of the land-uplift.)
- Max 5 km from nodal point
- Will be an update for the northern parts of the country within a couple of years



Gravity



- 27 absolute gravity measurements in Sweden during 2002-2005

