



Definition of RH 2000 It was decided that RH 2000 should be defined as the Swedish realisation of EVRS In agreement with the available EVRS definition in 2005 (which is rather general), normal heights are utilised and ✓ a zero system is applied for the permanent tide. To be as "European" as possible, the Normaal Amsterdams Peil (NAP) is used as zero level (as for EVRF 2000), The reference epoch is chosen to 2000.0 on the Nordic level (NKG). The postglacial land uplift model is constructed as a combination of ✓ The geophysical model of Lambeck, Smither and Ekman (1998). The early 2005 version of the mathematical (empirical) model of Olav Vestøl LANTMÄTERIET Shaping the Change XXIII FIG Congress Munich, Germany, October 8 -13, 2006 in the second se ich, Germany, October 8 -13, 200

- The Baltic Levelling Ring (BLR)

- The latest precise levellings from all the Nordic and Baltic countries as well as Poland, Germany and the Netherlands.
- The processing has been made as a Nordic cooperation within the Working Group for Height Determination of the Nordic Geodetic Commission (NKG).
- A new developed model of the post glacial rebound (land uplift) has been applied.





























Summary

- RH 2000 is defined as the Swedish realisation of EVRS.
- The RH 2000 adjustment was made using data from the whole Baltic Levelling Ring (BLR) with the Normaal Amsterdams Peil (NAP) as zero level.
- All levelling observations are reduced for the postglacial rebound to the reference epoch 2000.0 using the newly developed land uplift model NKG2005LU.
- The difference between RH 2000 and **EVRF 2000** is large due to the different land uplift epochs for the Nordic block.
- A combined gravimetric/geometric Geoid Model, SWEN 05LR was developed as a link between the national 3-D and vertical Reference Systems.

14

Shaping the Change XXIII FIG Congress Munich, Germany, October 8 -13, 2006 LANTMÄTERIET