EUVN_DA: TOWARDS THE REALISATION OF THE EUROPEAN HEIGTH REFERENCE SURFACE

"EHRS2007"

EUVN_DA WORKING GROUP:

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EUREF TWG FALL MEETING PARIS, 29-30 NOVEMBER 2007

STATUS OF EUVN_DA

THE DATA COLLECTION PHASE HAS COMPLETED !!!

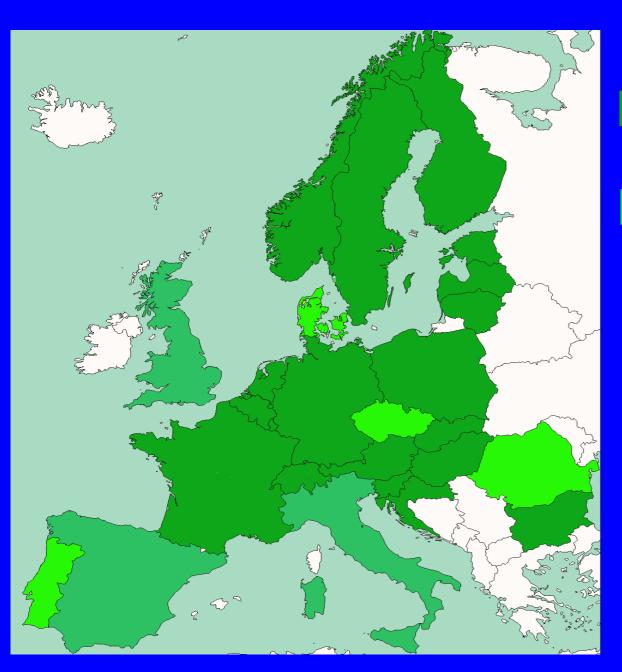
>1400 HIGH QUALITY REFERENCE GPS/LEVELING POINTS

FINAL CHECKS AND ANALYSIS IS IN PROGRESS (SPAIN, PORTUGAL)

EUREF/EGGP PRODUCT

CONTINENTAL HEIGHT REFERENCE SURFACE
COMPUTATIONS ARE IN PROGRESS

PARTICIPATION - JUNE 2007

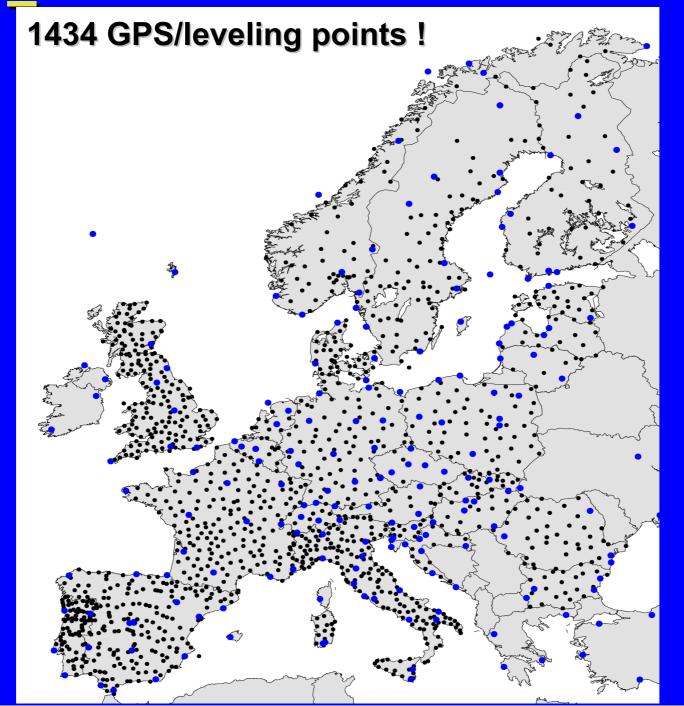


DATA SUBMITTED AND CHECKED

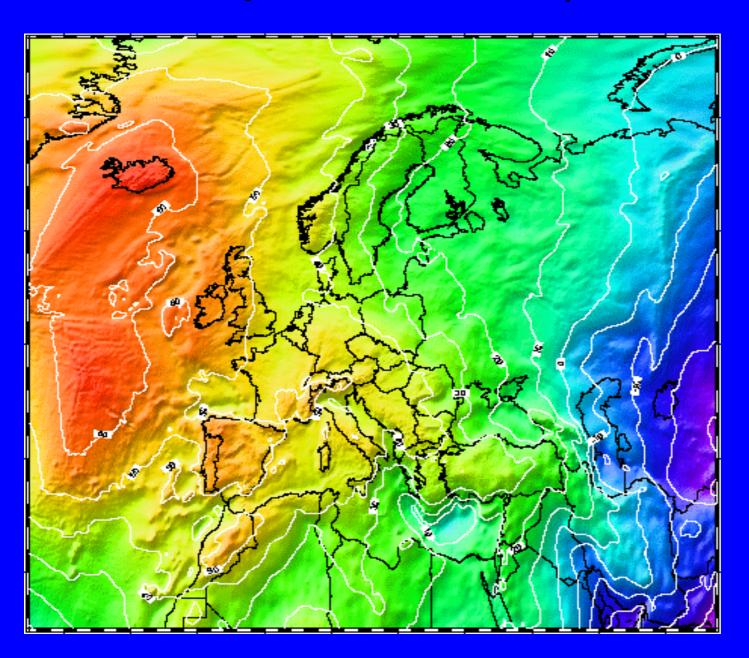
DATA UNDER PREPAR-ATION

OBSERVATION SESSIONS
BUT DENSER NETWORK

EUVN DA POINT DISTRIBUTION



THE EUROPEAN GEOID (H.Denker - IfE, Hannover)

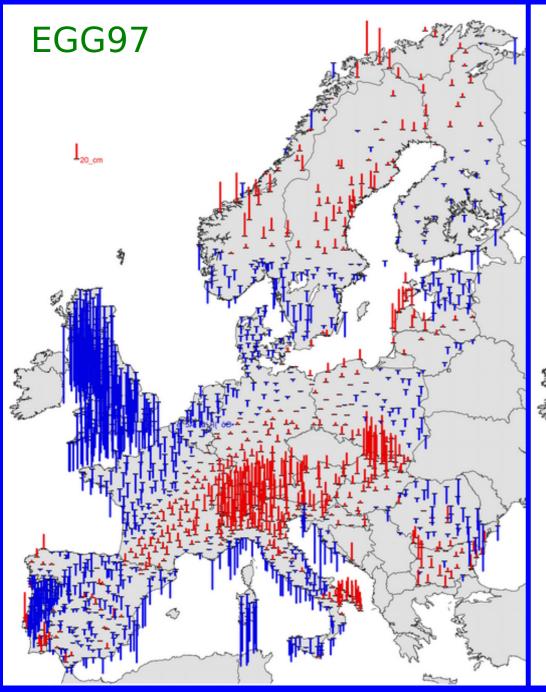


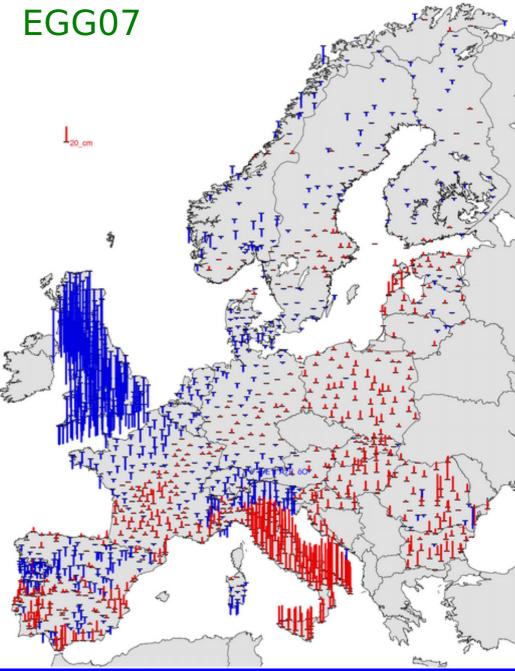
EGG97 - official

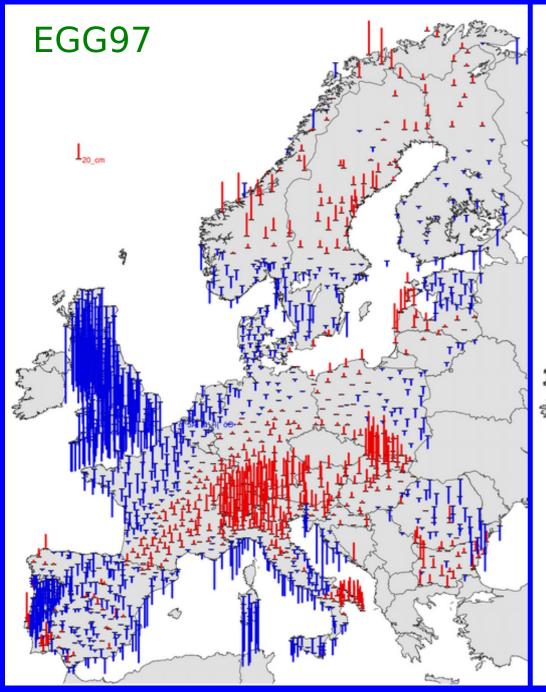
EGG03 - test

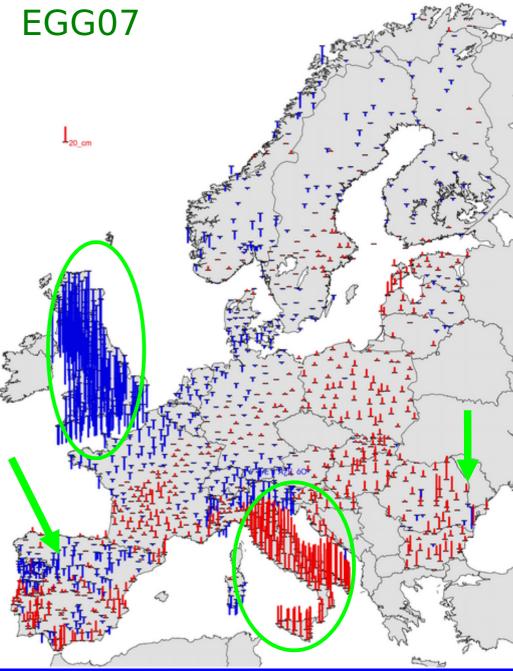
EGG06 - test

EGG07 - official







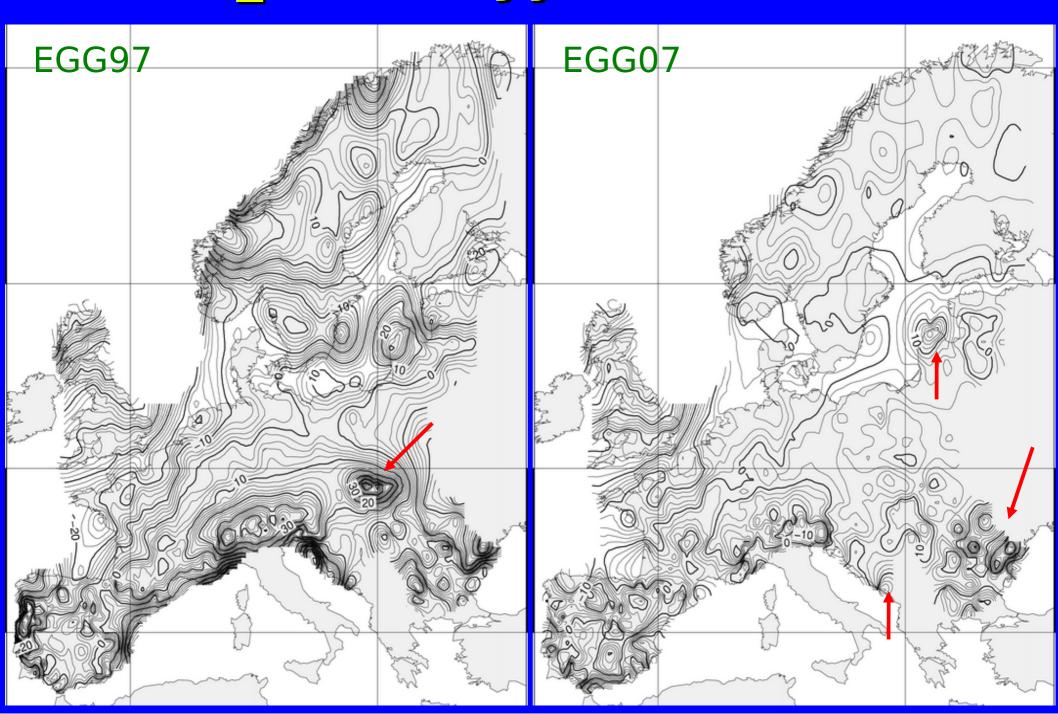


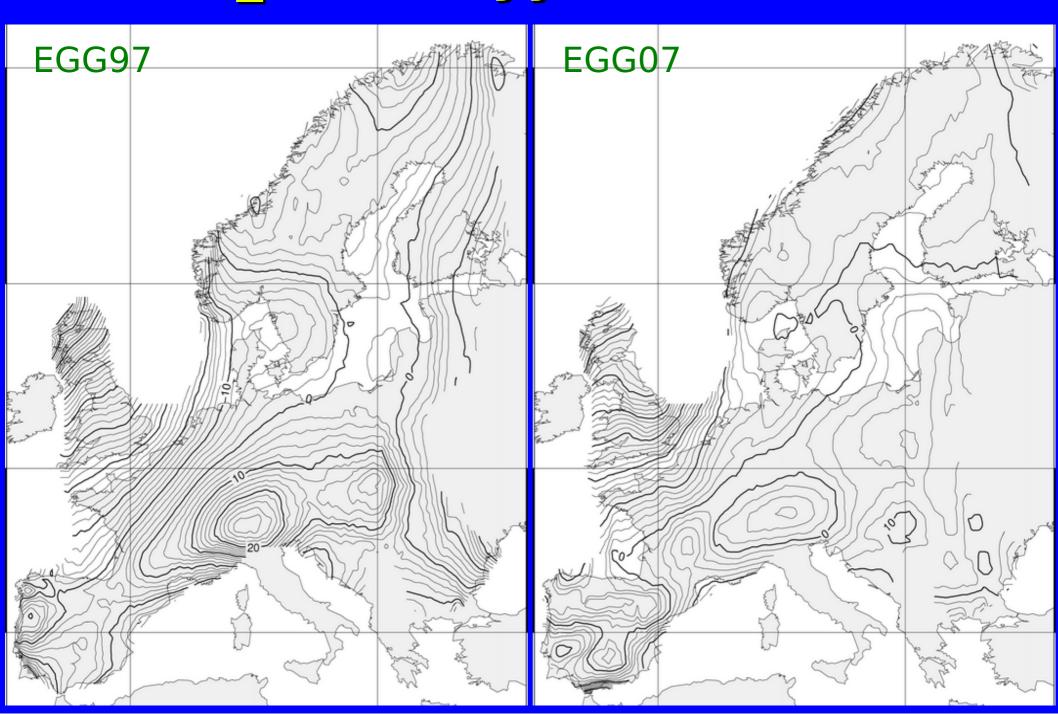
HEIGHT REFERENCE SURFACE

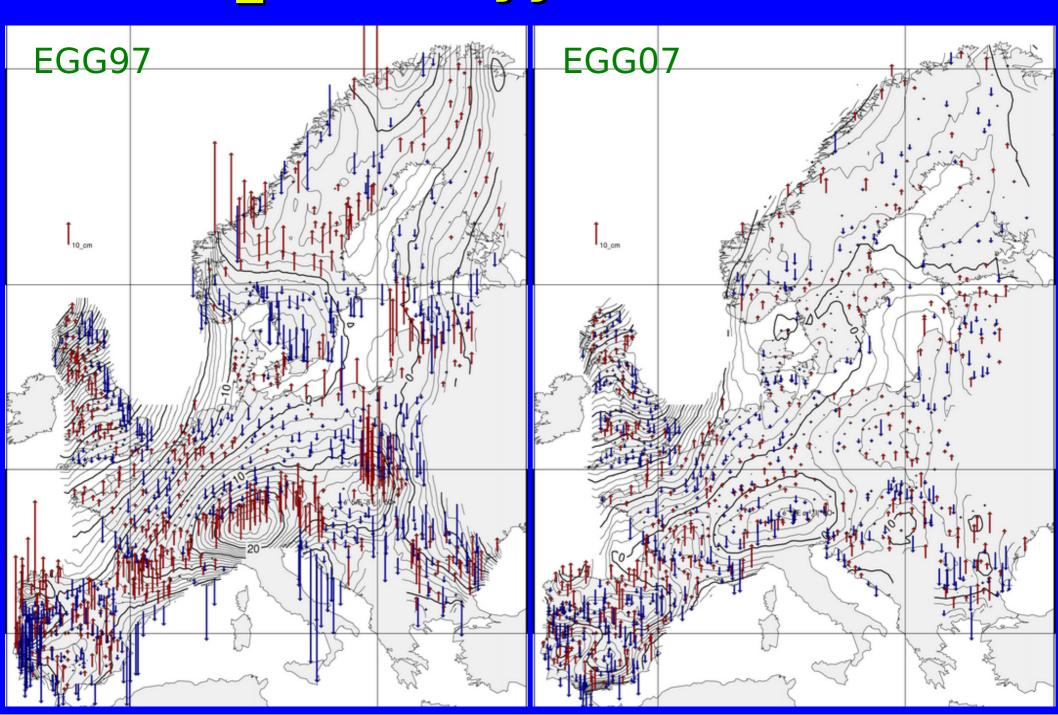
- "MODIFIED GEOID" CONSISTENCY BETWEEN GPS (ETRS89) AND LEVELING (UELN)
- → COMMON ADJUSTMENT OF GRAVIMETRIC AND GEOMETRIC DATASETS
- > POSTFIT OF THE GRAVIMETRIC GEOID TO GPS NETWORKS

HOW? BIG PLAYGROUND!

SMOOTH CORRECTION SURFACE, AVOID BULLS-EYE!







EHRS2007 European Height Reference Surface 2007

- postfit of EGG07 to EUVN_DA
- method: under testing, not yet finalized (should provide a smooth, robust correction surface)
- expected accuracy (residuals of the EGG07 fit: ~3 cm RMS