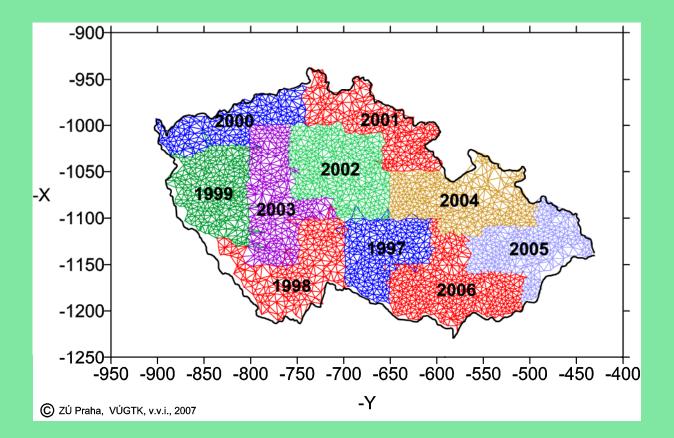
Symposium of the IAG Subcommission for Europe (EUREF) Brussels, Belgium, 18 - 21 June, 2008

National Report of the Czech Republic EUREF Related Activities in the Czech Republic 2007 - 2008 National Report

presented by J. Šimek

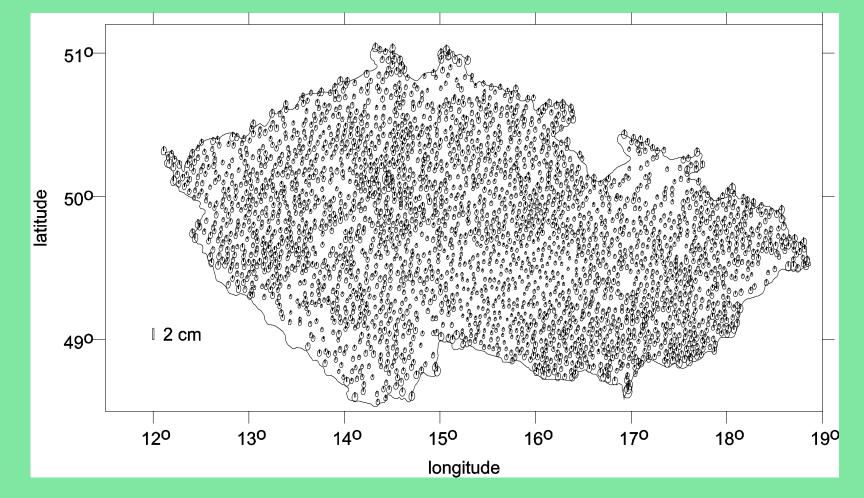
Status of EUREF in the CR

Progress of densification by "Selective maintenance" performed by Land Survey Office

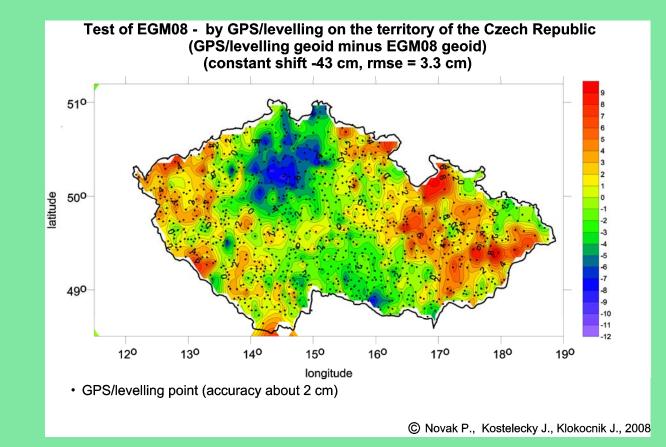


1997 – 2006: 3094 new (GPS) stations, accomplished in 2006 by Land Survey Office

Processing densification action "Selective Maintenance" Error ellipses and rms errors of heights



Test of quasigeoid based on EGM08 by GPS-levelling (rms difference is 3.3 cm)

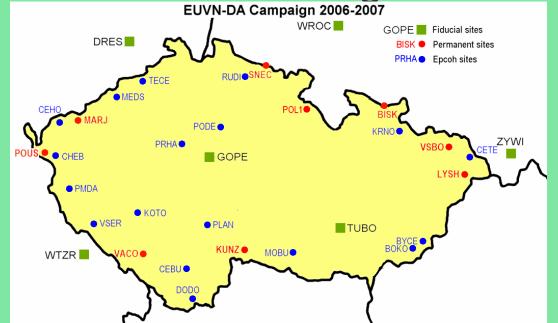


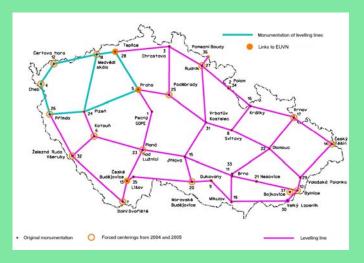
EUVN_DA – Related Activities (Land Survey Office)

16 GEODYN stations were observed within EUVN_DA

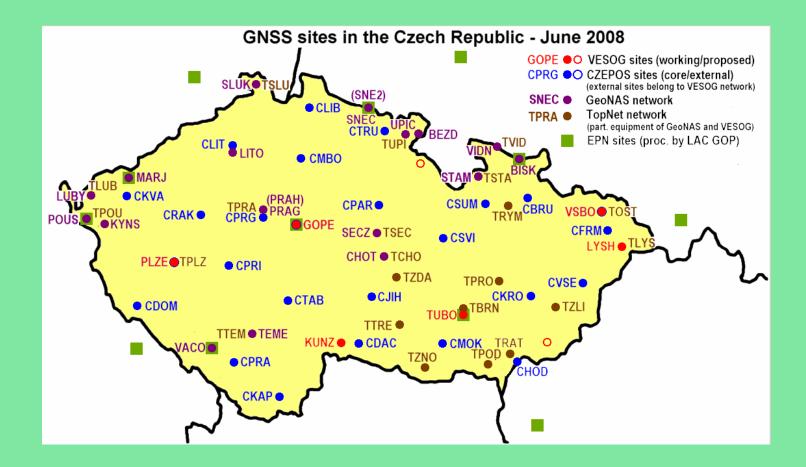
19 points of GEODYN network were connected by precise levelling with





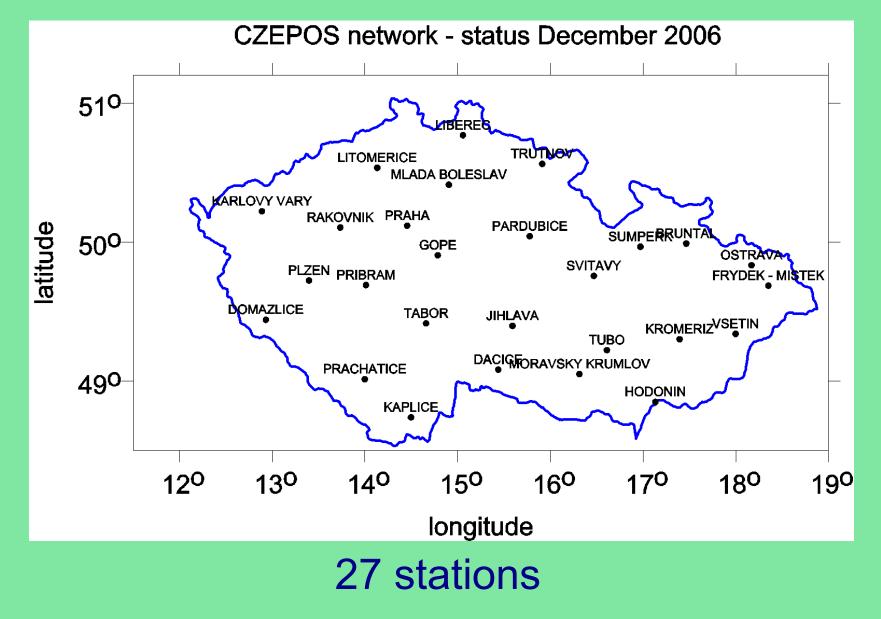


Permanent GNSS networks in the CR



VESOG, CZEPOS, GeoNAS, TopNet

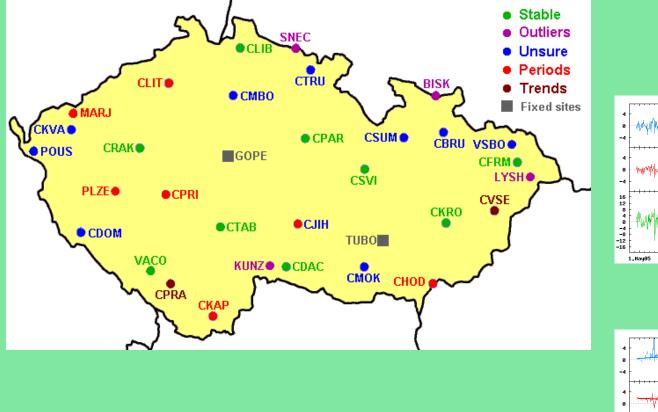
CZEPOS

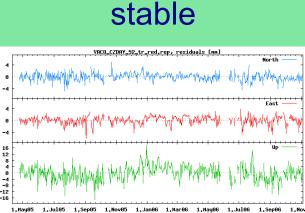


Test of repeatibility of weekly solutions of CZEPOS stations in the ETRF89 frame

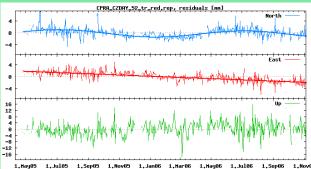
component	network solution	network solution after removing of systematics
W-E	0.19 cm	0.12 cm
N-S	0.20 cm	0.12 cm
height	0.50 cm	0.20 cm

Test of stability of the Permanent networks stations (solution GOP-LAC in the ETRF89 frame)



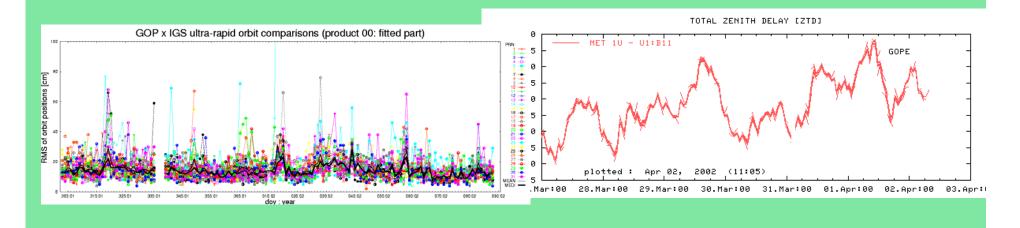


unstable



Activities of EUREF Local Analysis Center GOP

- data analysis from 93 EPN permanent stations (May 2008)
- Since GPS Week 1400, recommended strategy changes were implemented (absolute PCV model, IGS 2005 geodetic datum, elevation cutoff 3°, troposphere gradients).



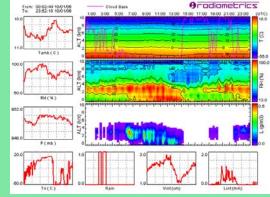
Activities of EUREF Local Analysis Center GOP



New instruments at GOPE



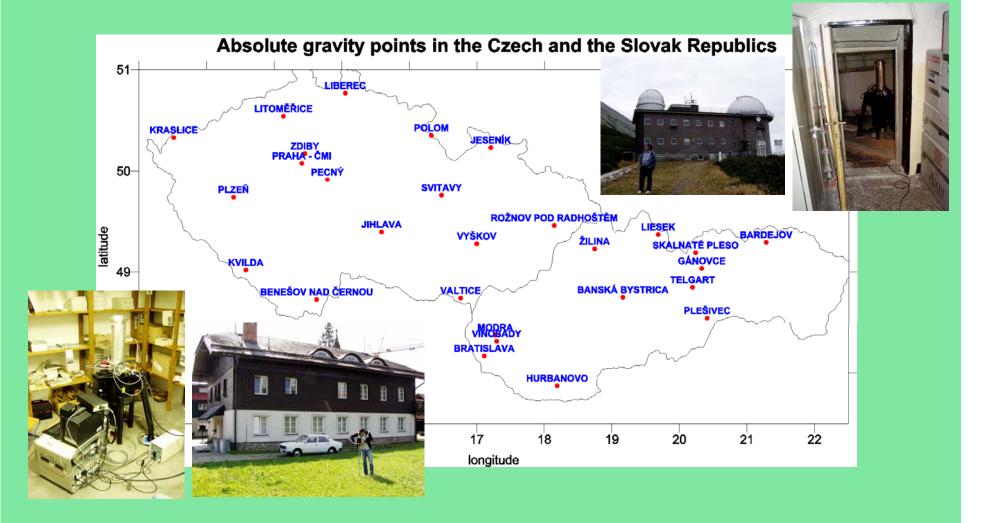




Water vapour radiometer Superconducting gravimeter GWR

Absolute Gravimetry in the CR and SR with FG5 No. 215 (RIGTC)

(cooperation with Land Survey Office, Prague, Geodetic and Cartographic Institute, Bratislava, and STU Bratislava)



Tidal Gravimetry at GO Pecný and Environmental Effects

- Period Strain Strain
- calibration by FG5 No. 215 absolute gravimeter
- superconducting gravimeter GWR
- climatological station (of Charles University)
- meteorological parameters
- soil moistureground water level

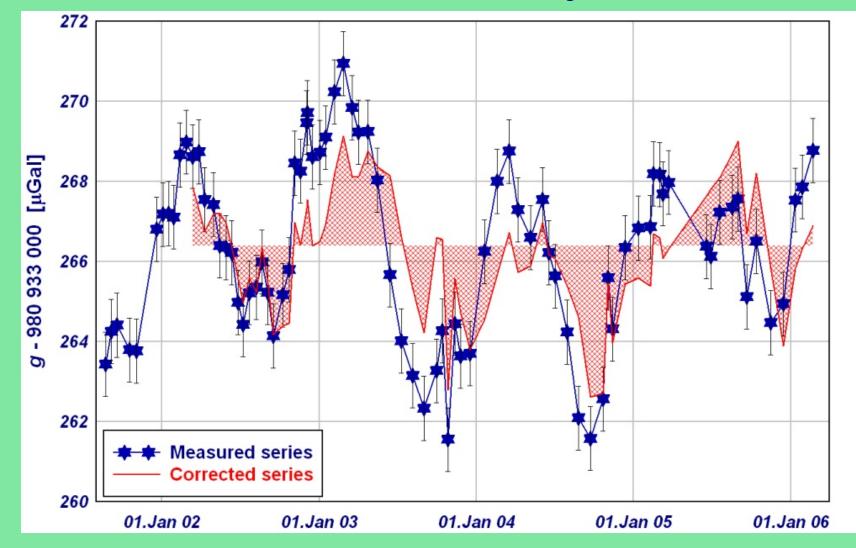








Absolute gravity measurements at GO Pecný



This report was compiled in cooperation between

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