

EUREF 2006 Symposium

National Report of Austria

by Norbert Höggerl, Günter Stangl,
Diethard Ruess

Riga, LATVIA

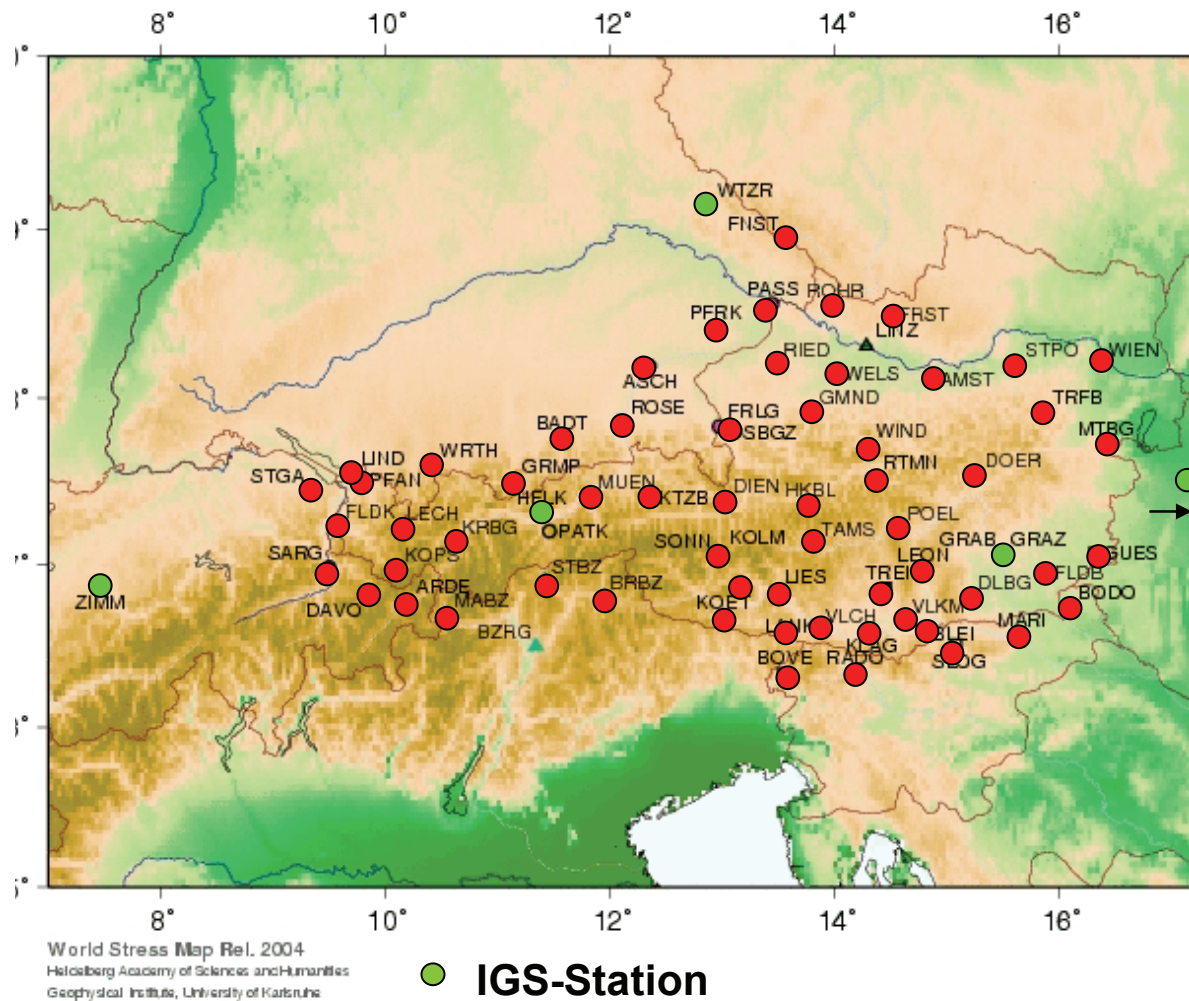
June 14th to June 17th, 2006



Cooperation between:
Observatory Graz Lustbühel/OLG and
Federal Office of Metrology and Surveying/BEV

- About 60 points
- Weekly solution combined with other EPN subsets

AMON – Austrian Monitoring Network



About 70 GPS Reference Stations
used for real time service APOS

3-D Coordinates: ETRS89-2002.5

Integrated:

IGS: GRAZ, HFLK, PENC

WTZR, ZIMM

EPN: PFAN SBGZ, LINZ, TRFB

Base of ETRS89 realization in
Austria

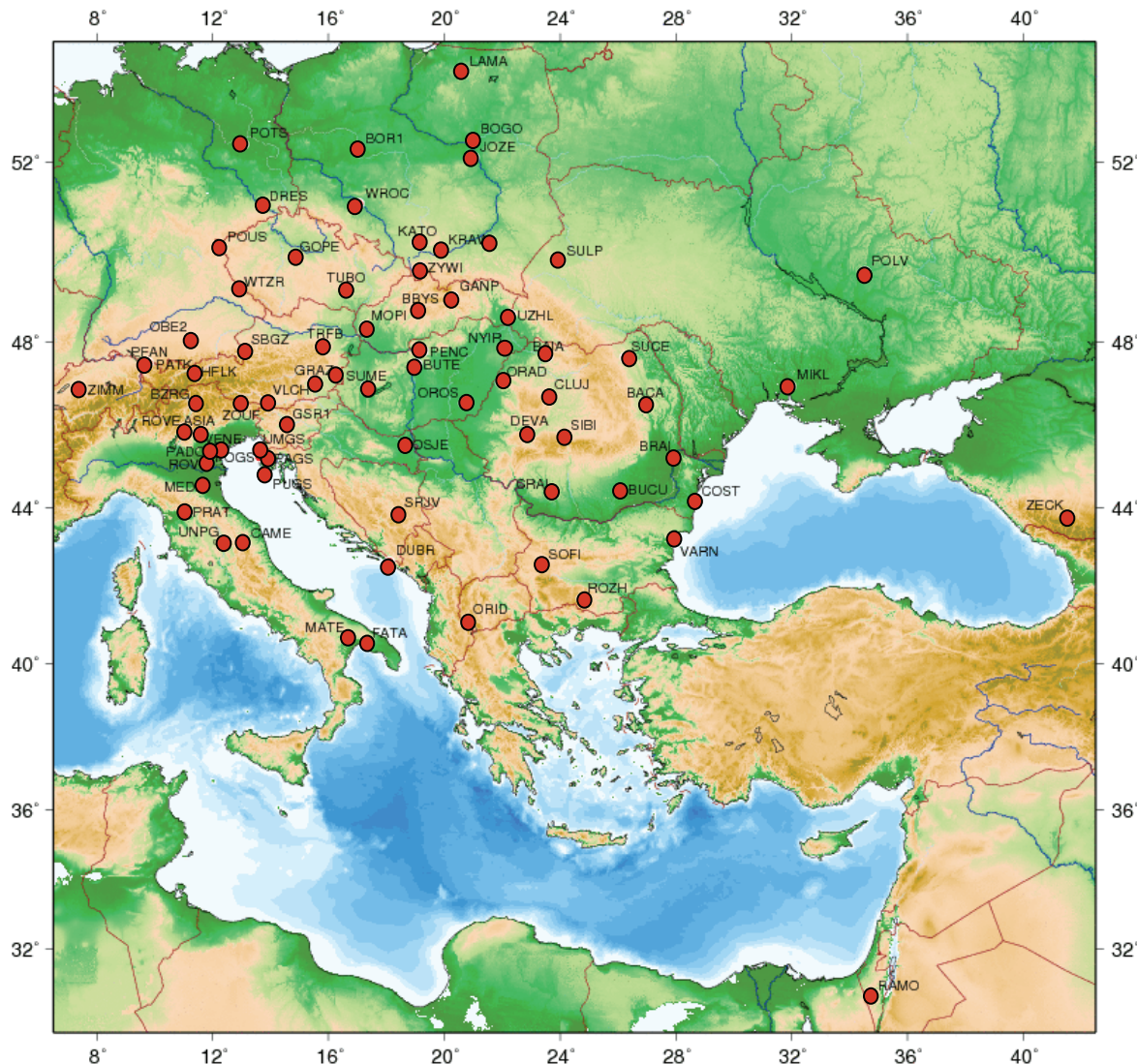
Coordinate-Monitoring: Daily
solution, velocity-estimation,
same rules as EPN for computation

CERGOP2/Environment

Combined network of
EPN-, EPN/CERGOP2 and
non-EPN stations
Combined with CEGRN
campaigns:
1994, 1995, 1996, 1997
1999, 2001, 2003, 2005
for research in geodynamics

75 stations

Could be considered as an
EPN-densification

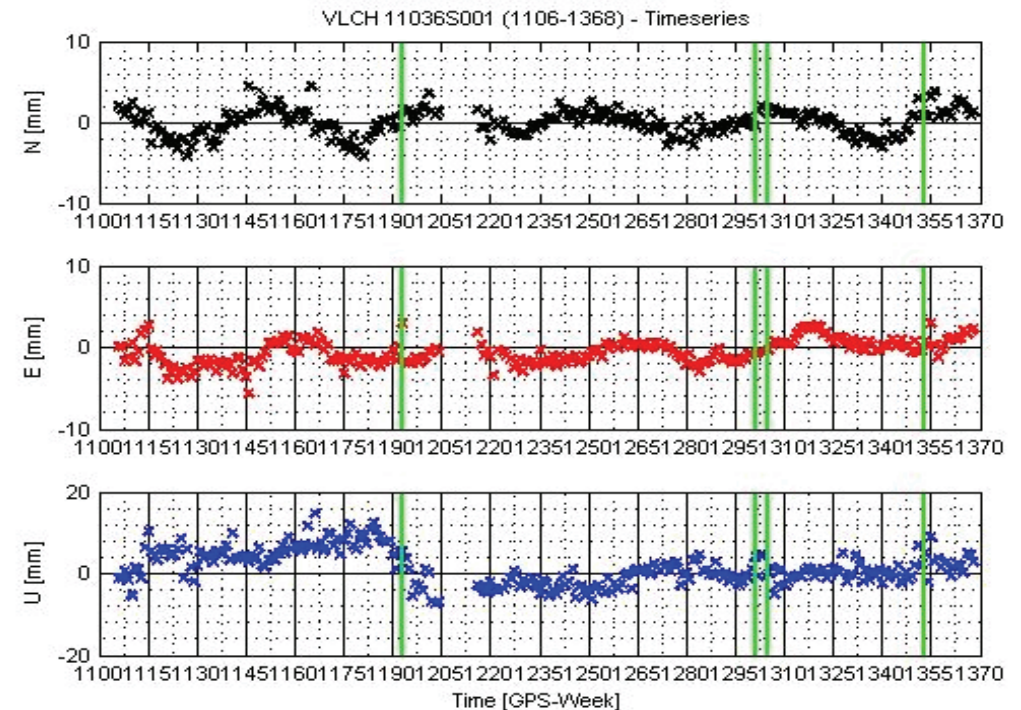


World Stress Map Rel. 2004
Heidelberg Academy of Sciences and Humanities
Geophysical Institute, University of Karlsruhe

Presentation of Results

Presentation of results at the new web site gps.iwf.oeaw.ac.at

- Information about non-EPN sites
- Cleaned time series
- Velocity estimations in Eastern Alps, Central Europe and Middle East



APOS - Austrian Positioning Service

36 GPS reference stations in Austria

19 GPS reference stations in
neighbouring countries

VRS-network software Trimble

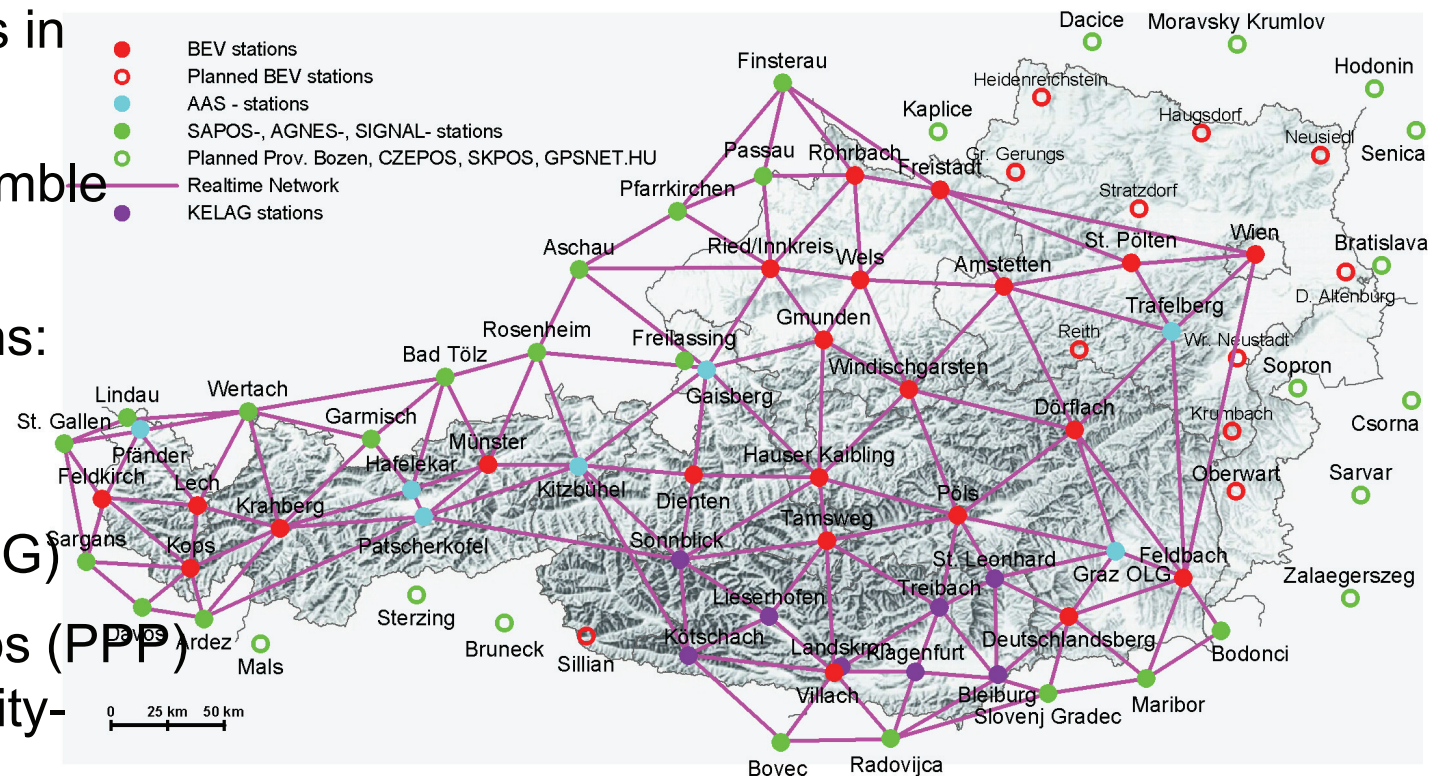
Official start 2006-05

Planned number of stations:
about 75

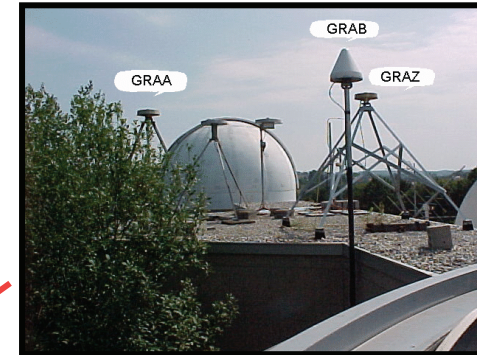
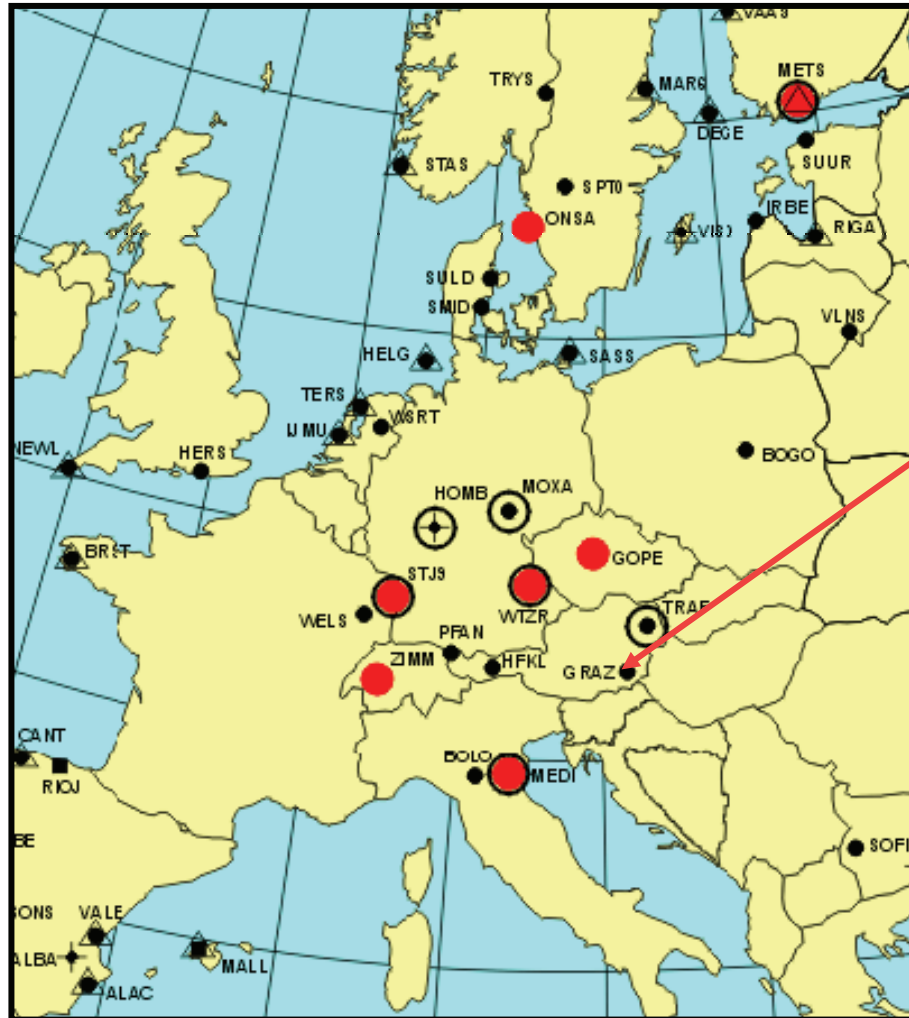
Cooperation with Austrian
Academy of Sciences (OLG)

Private-Public-Partnerships (PPP)
between BEV and electricity-
companies

Data exchange between APOS,
SAPOS, SWIPOS and SIGNAL



ECGN Stations in Austria: Graz



IGS:

Laser since 1982

GPS since 1992

Levelling/C-values: 1987

Absolute gravity: 2000/04

2005:

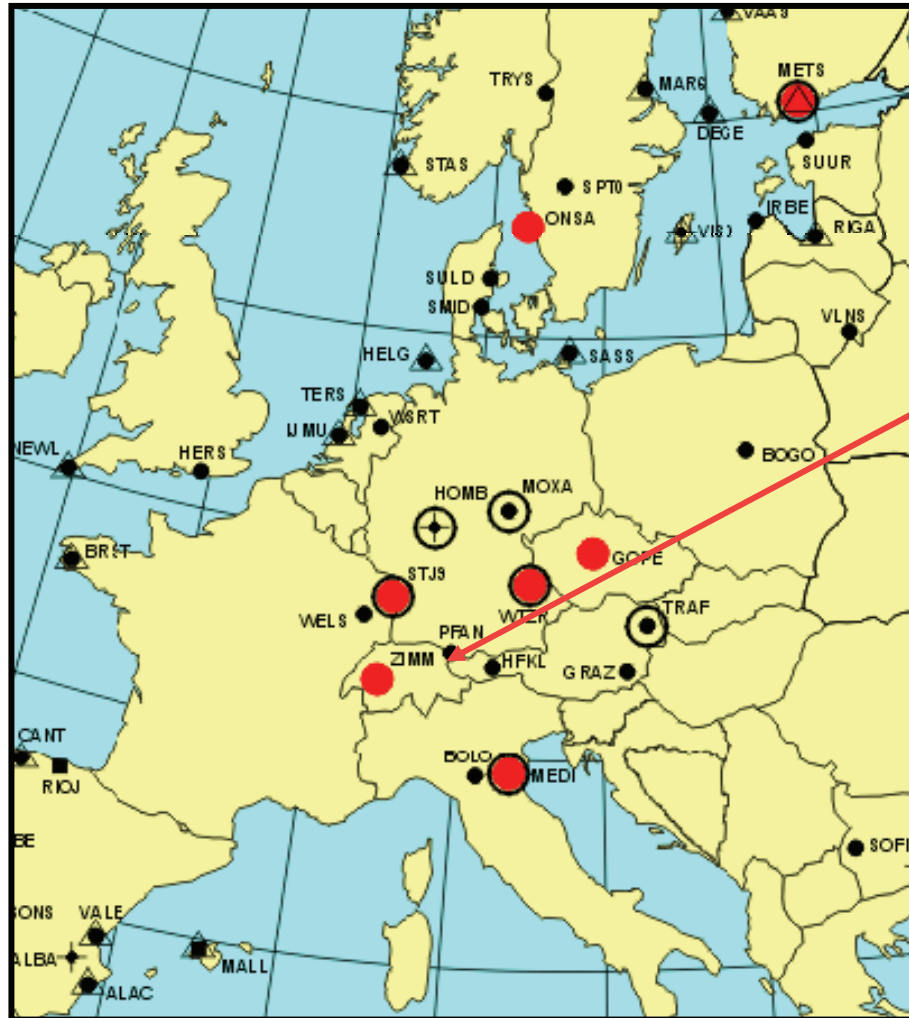
repeated local ties

20 markers

ECGN/IGS Station OLG Graz



ECGN Stations in Austria: Pfänder



EPN

GPS since 1997:

Levelling/C-values: 1996

Absolute gravity: 2004

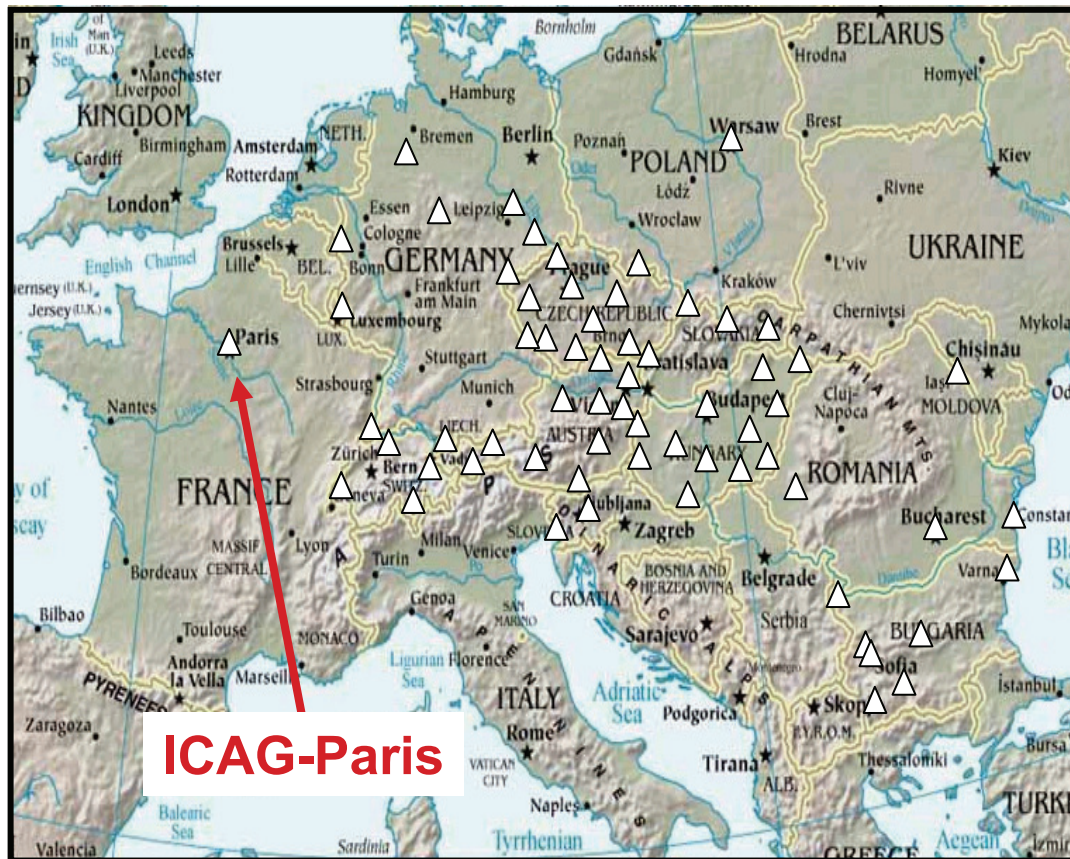
2005:

Absolute Gravity by BKG

repeated local ties -

20 markers (position, height)

Absolute Gravity Measurements of BEV



Gravity-Meter: JILA-g-6

Main tasks:

- set-up and control of gravity base network in Austria
- EU-project UNIGRAC/ Eastern Europe
- for customers
- Intercomparison Campaigns (ICAG) in Paris/Sevres at BIMP
- about 65 points observed
- Standard for metrology
part of quality management system
for metrology - hierarchy scheme

New Business Model for Products of BEV

Since 2006-01

Reduction of fees: 50 - 97 %

Multiuser-licences

Main part of revenue: cadastre, orthophoto, digital cartographic models

Final conclusion not yet available

INSPIRE:

BEV not in accordance with the suggestion of EU-commission:

- (low) fees are necessary! (political decision)