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armasuisse  
Swiss Federal Office of Topography swisstopo



wissen wohin  
savoir où  
sapere dove  
knowing where

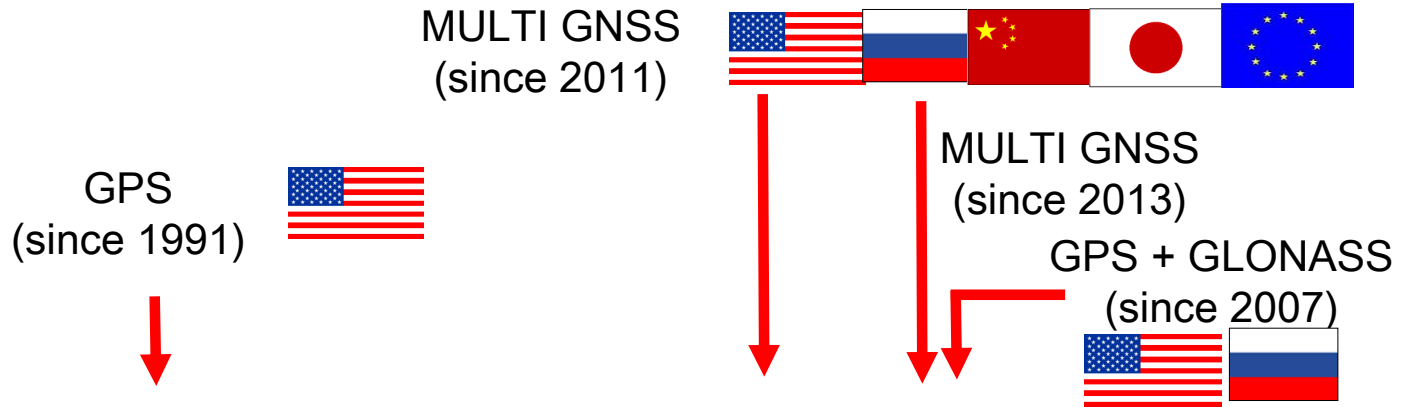
# National Report of Switzerland

E. Brockmann, D. Ineichen, M. Kistler, U. Marti,  
S. Schaer, A. Schlatter, B. Vogel, A. Wiget, U. Wild



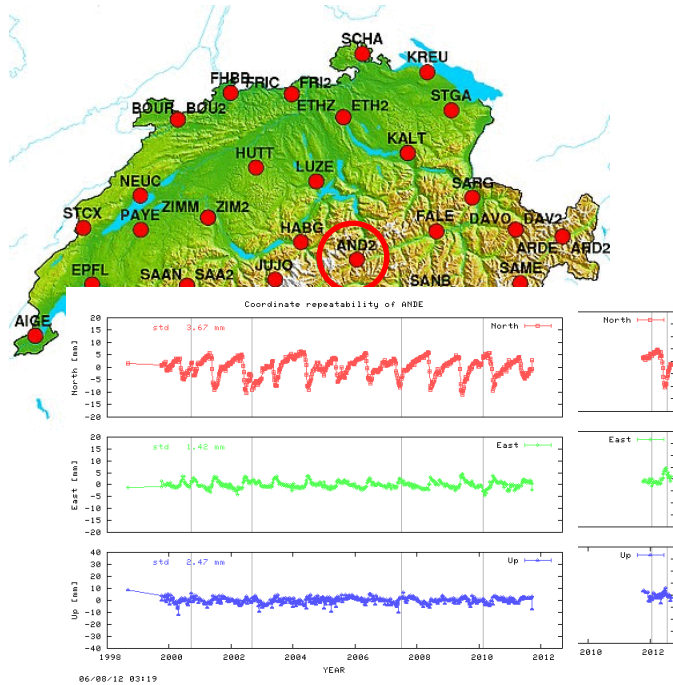
# Geostation Zimmerwald: GNSS

- RINEX3 data generation for ZIM2, ZIM3, ZIMJ

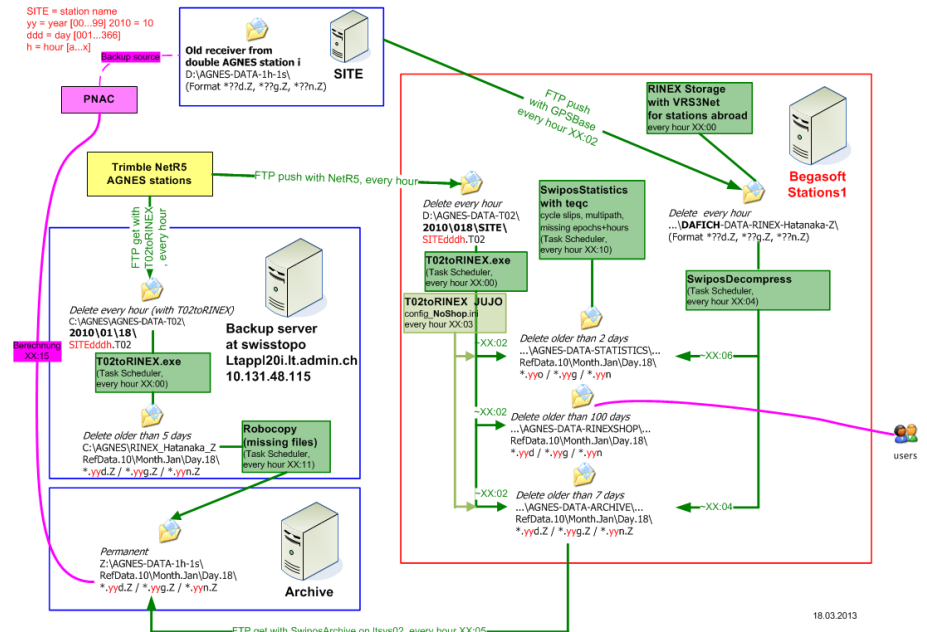




# AGNES / Permanent Networks



site ANDE/AND2: 2 cm annual variations



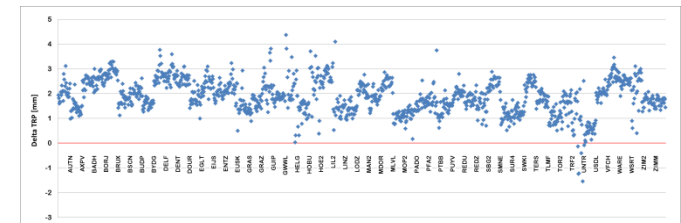
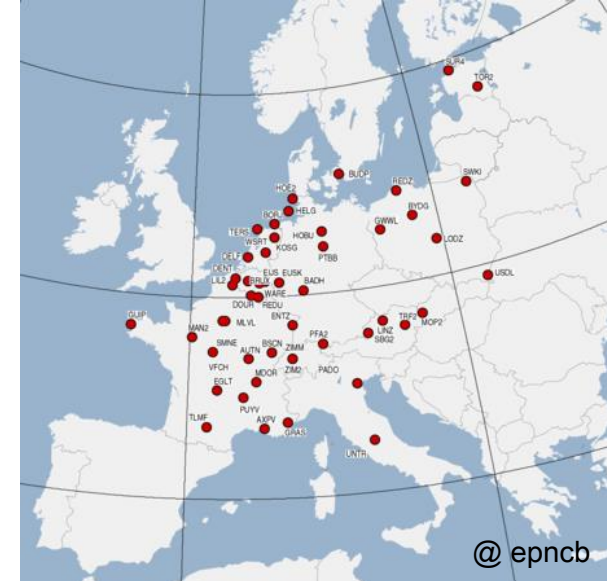
New RINEX data flow

- 2<sup>nd</sup> replacement of station ANDE/AND2 due to local instabilities prepared -> new location later this year
- New data flow of RINEX files



# Analysis Center

- Contribution to the EPN (52 stations, GNSS processing, contribution to Final, Rapid, Ultra-rapid, real-time products)
- Quality control improvements (-> see paper “Double Stations”)
- Change from BSW50 to BSW52 and new model changes:
  - Scale: -2.3 ppb (-1.0 Shapiro, -0.3 IERS 2010, -1.0 Tropo mod. (GMF))
  - CRD-Differences: max. 2 mm hor., 5.5 mm vertically
  - Tropo-Differences: mean: 1.9 mm, std: 0.7 mm(see paper Schaer et al)

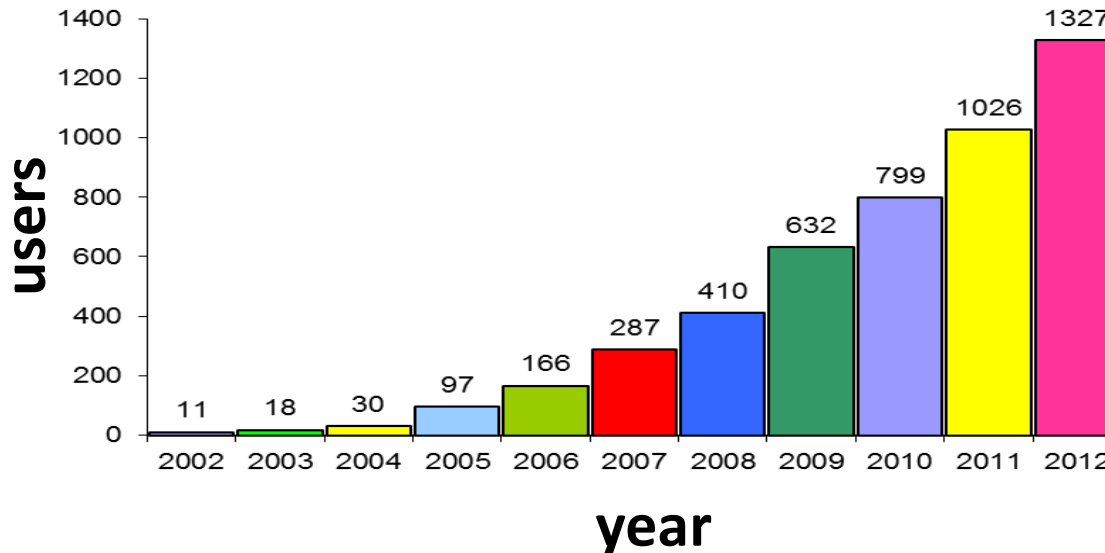




# Positioning service: swipos

- Software changed from GPSNet<sup>2012.2</sup> → VRS3Net<sup>2013.3</sup> → Pivot
- New “business-to-business” (B2B) mode: customers closer to the GNSS commercial companies – sales on swisstopo-side reduced by ~ 25%.

## swipos licences



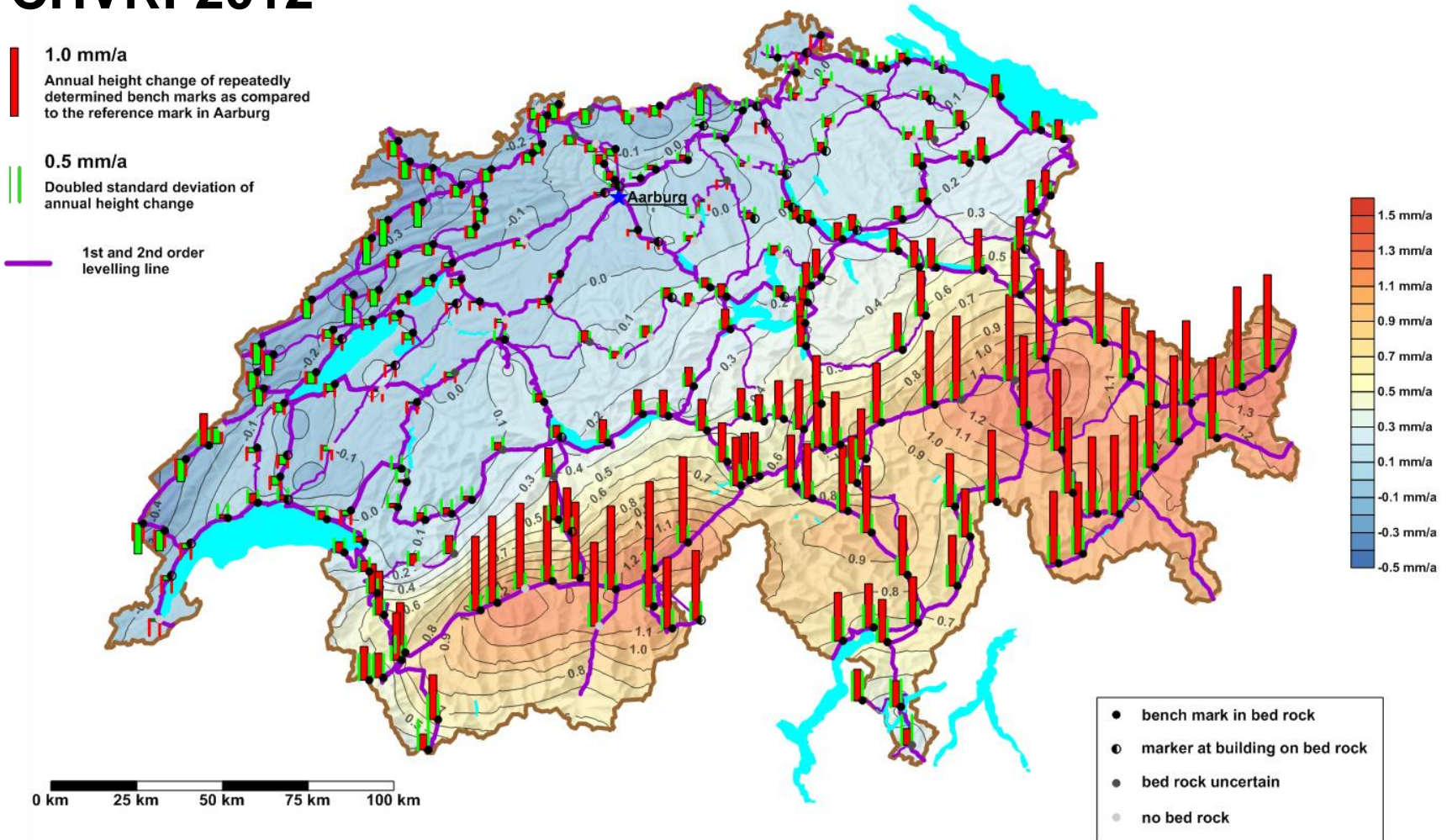


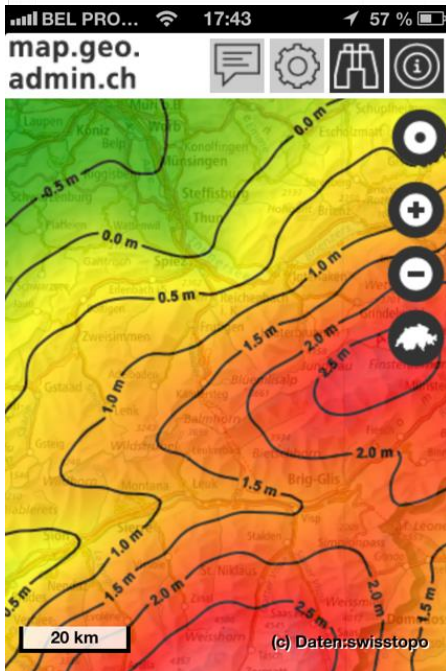


# Alpine rise from > 100 years levelling

No significant new results compared to last adjustment in 2004 (+ 10 years observations)

## CHVRF2012





## Web service for coordinate transformations ETRF $\leftrightarrow$ Swiss LV95

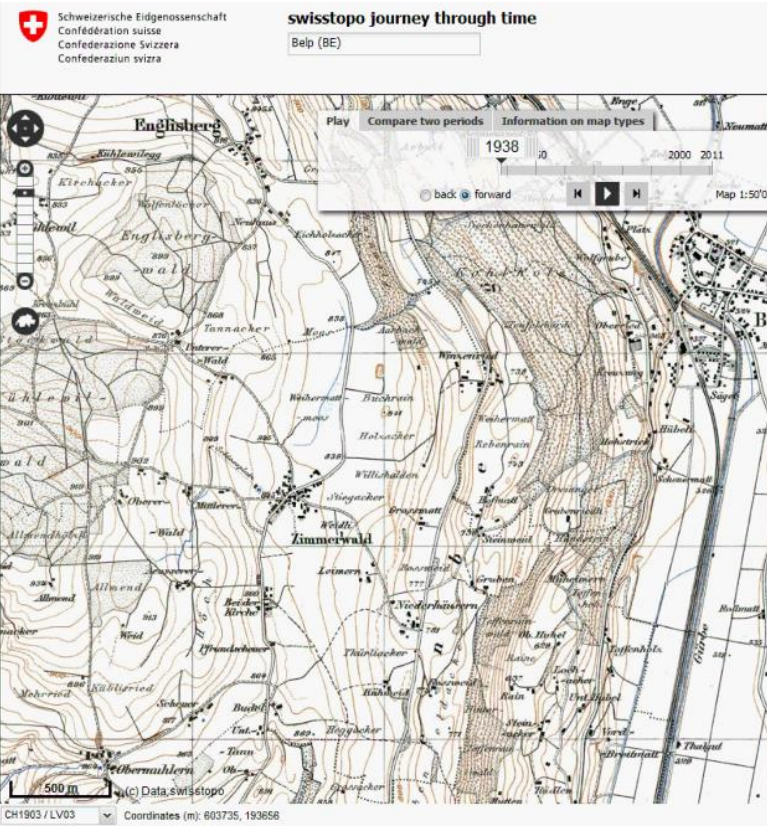
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```

**Geoid on geodata portal** since May 2013  
also on mobile version





# 175 years anniversary: time change as topic



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swisstopo journey through time  
Belp (BE)

Play Compare two periods Information on map types


1938 2000 2011

back forward

Map 1:50'000

ade fairs  
Belp

CH1903 / LV03 Coordinates (m): 603735, 193656



Federal Administration admin.ch  
Federal Department of Defence, Civil Protection and Sport  
Federal Office of Topography swisstopo

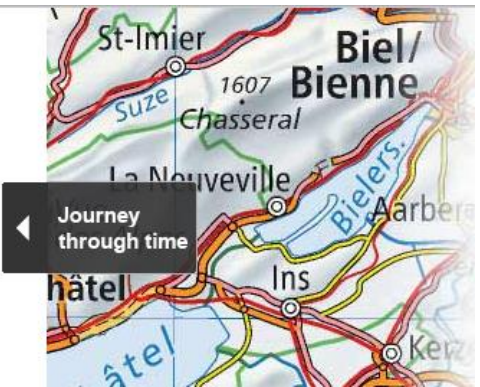
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