

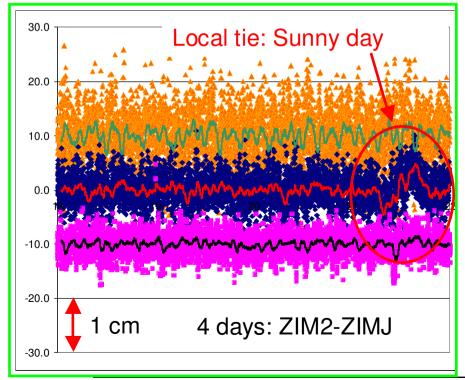
National Report of Switzerland

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

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Geostation Zimmerwald

- 3 sites deliver GPS/GNSS data to IGS/EUREF
- ZIMJ receiver stopped 22.Okt. 2010; new Javad Galileo receiver installed
- Yearly control of mast stability (21.Okt. 2010): temporal variations of the mast!



Height

North

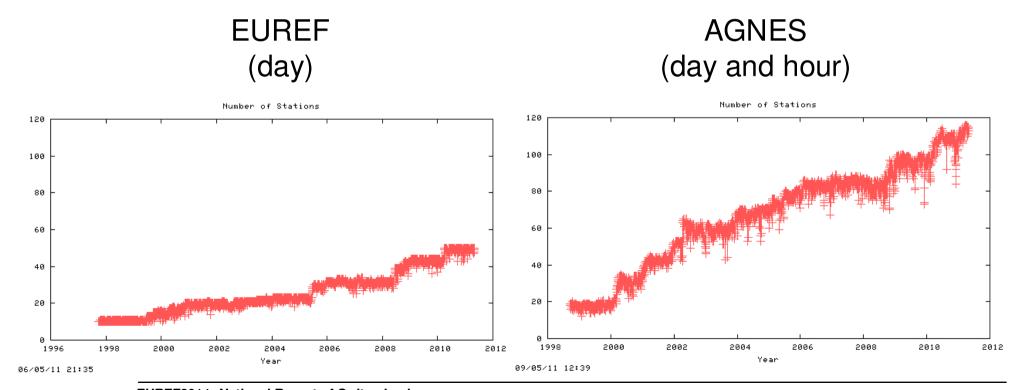
East



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Permanent GNSS Network AGNES: Bernese software analyses

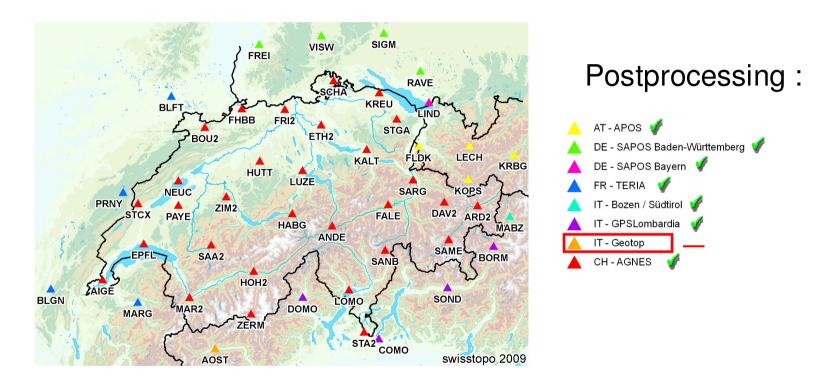
network (#stations)	availability	remark	
EUREF subnet (50)	100 % daily	Reference Frame Europe	euref
AGNES + subnet EUREF (118)	100 % daily	Reference Frame Switzerland	swisstopo + + +
AGNES + subnet EUREF (115)	98 % hourly	Monitoring + weather prediction	swisstopo



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Additional stations

Close the border and integrated also in positioning service



- ~10 Swiss third-party sites (all focus on geodynamics)
- New computer + processing in 3 clusters: hourly solutions 40% faster

CHTRF2010: 15 weeks / 15 pictures

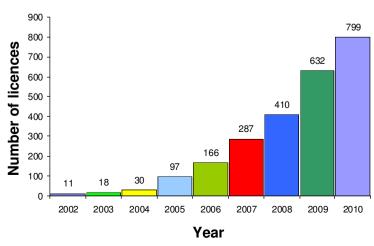


-> paper CHTRF2010 (E. Brockmann)

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Positioning service: swipos

- Increased licenses and reduced prices (30%)
- Products:
 - data streaming via NTRIP of an AGNES station: swipos-INFRA (prices identical as swipos-PP)
 - new user segment: agriculture
- Redesign of the swipos/AGNES operation:
 - S2S+ (ADSL+ GSM/GPRS) 99.7% availability
 - removal of PC at the station (not at double stations)
 - new network software and new private provider



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Cut-Through AlpTransit Gotthard

Base Tunnel (57 km)

 GNSS: LV95 as reference for the tunnel project plus 31 additional control points

 Heights: in old system LN02, but corrected with information from new LHN95 (plus CHGeo98 geoid) plus only 30 km levelling to portals

15.10.2010 Sedrun cut-through-results:

Cross: 8.1 cm (Tol.: 25 cm) Height: 1.1 cm (Tol.: 12.5

cm)

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