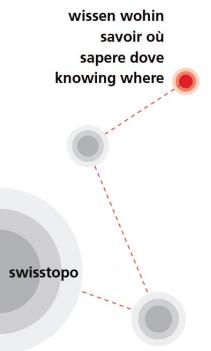




Schweizerische Eidgenossenschaft
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Federal Office of Topography swisstopo



National Report of Switzerland EUREF 2019 Symposium

E. Brockmann et al.



Zimmerwald



- 4 GNSS stations (ZIMM, ZIM2, ZIM3, ZIMJ) actively delivering data to IGS/EPN
- SLR stable operation (laser replacement planning)
- 2 new domes (for space debris / CCD) – inaugurated to public a year ago

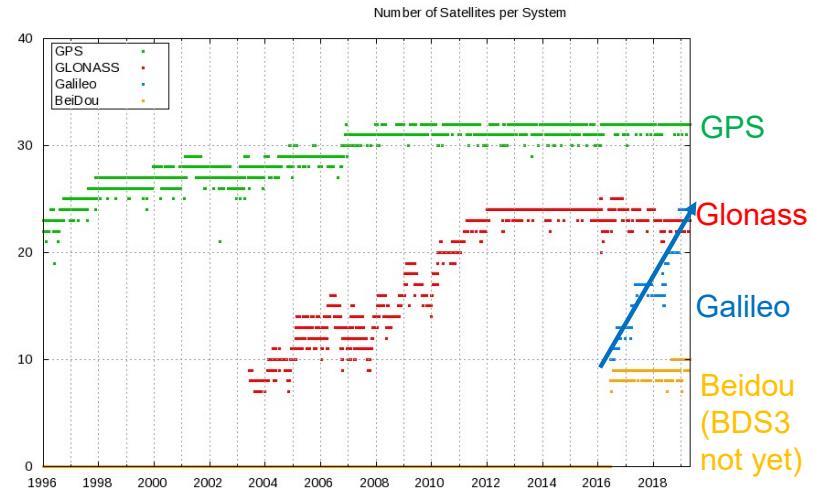
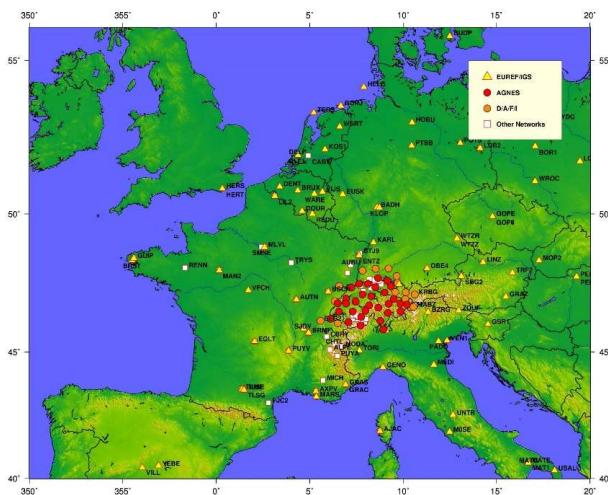




Analysis Center

<http://pnac.swisstopo.admin.ch>

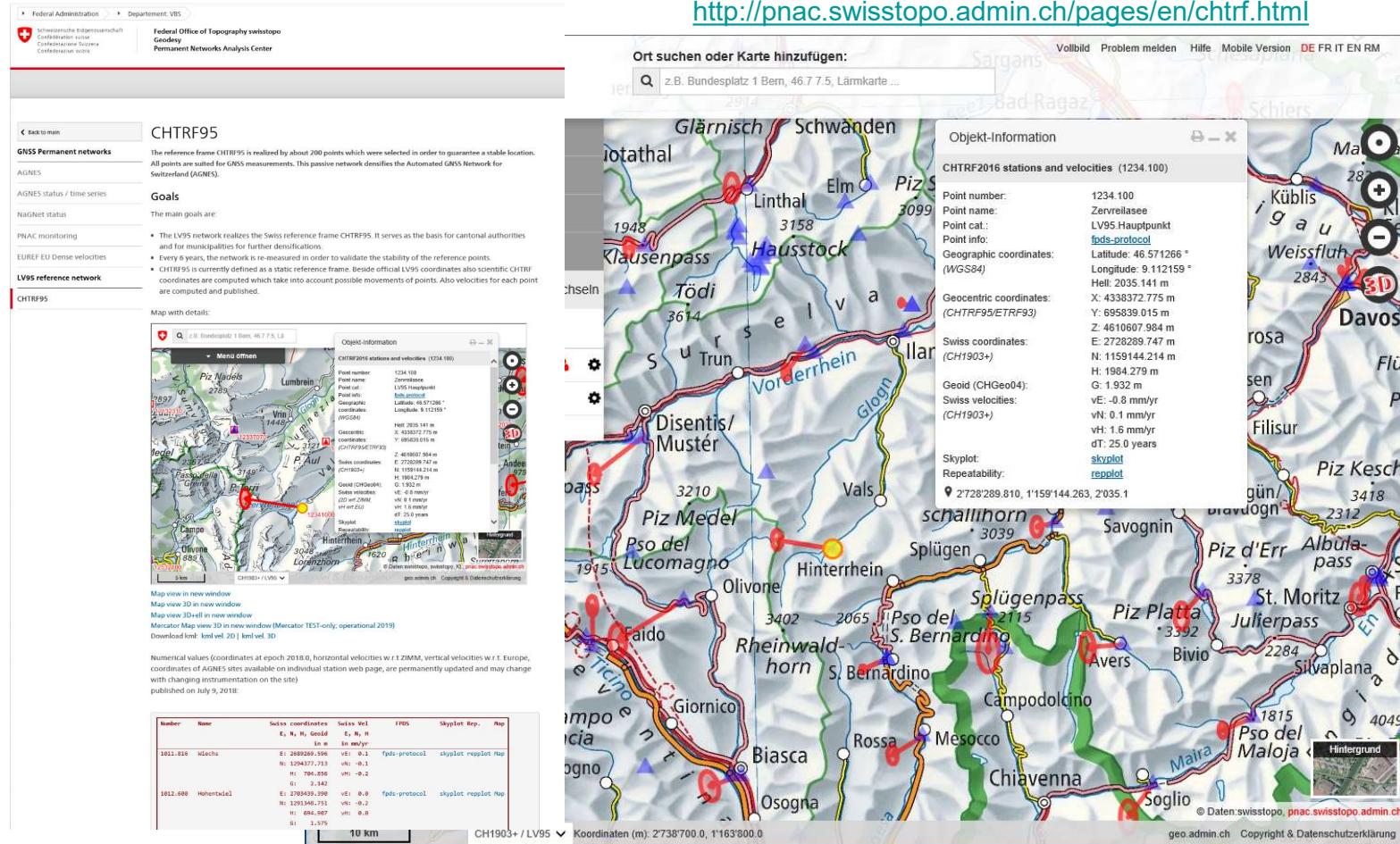
- Multi-GNSS processing established (based on BSW53; GPS+GLO+GAL+BDS) since Mid 2016
- Passive sites (200): CHTRF2016 solution published
- Permanent network AGNES + EPN + IGS: hourly and daily products -> EUREF, EUMETNET





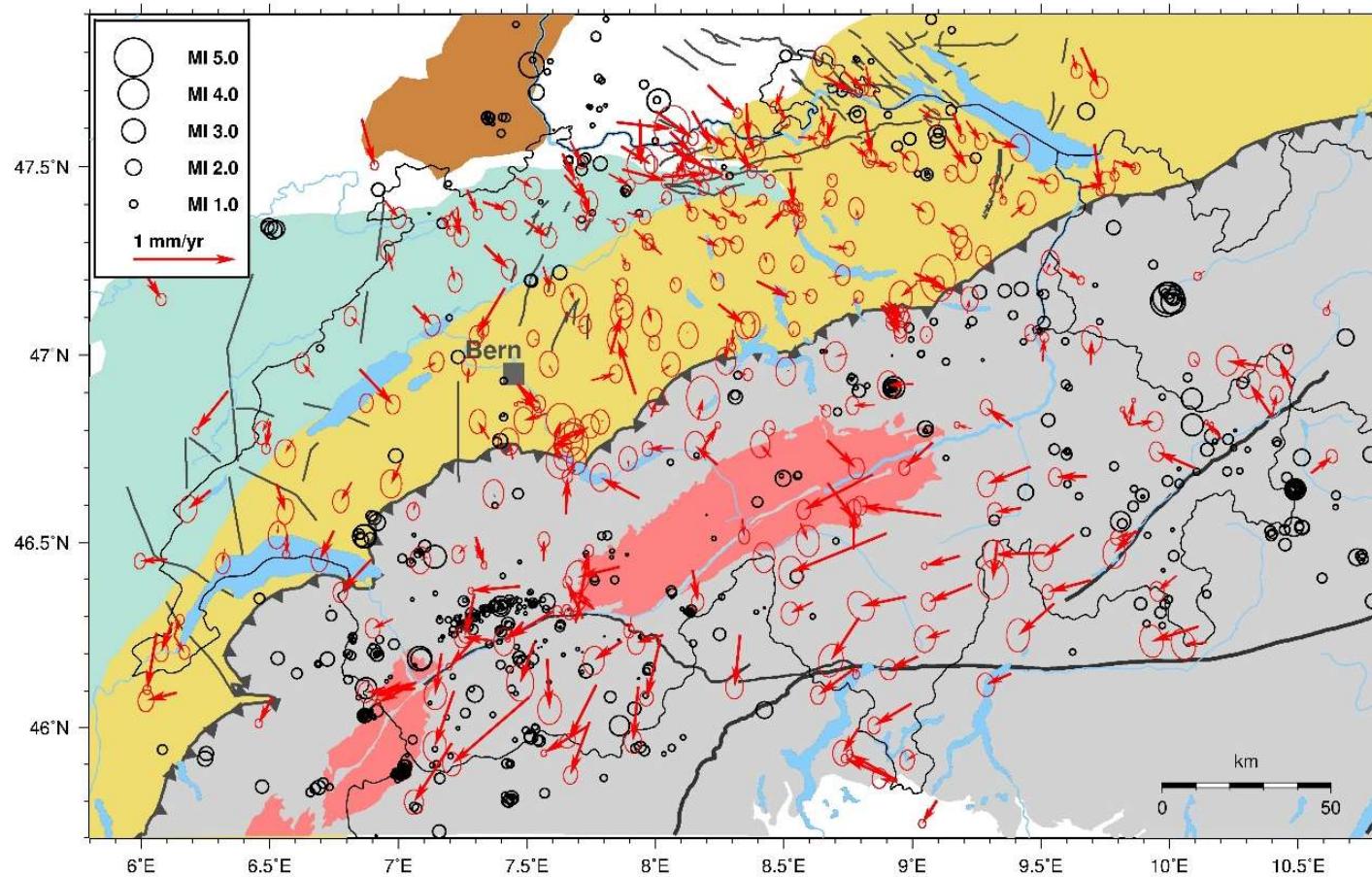
Publication CHTRF2016 on pnac web

<http://pnac.swisstopo.admin.ch/pages/en/chtrf.html>





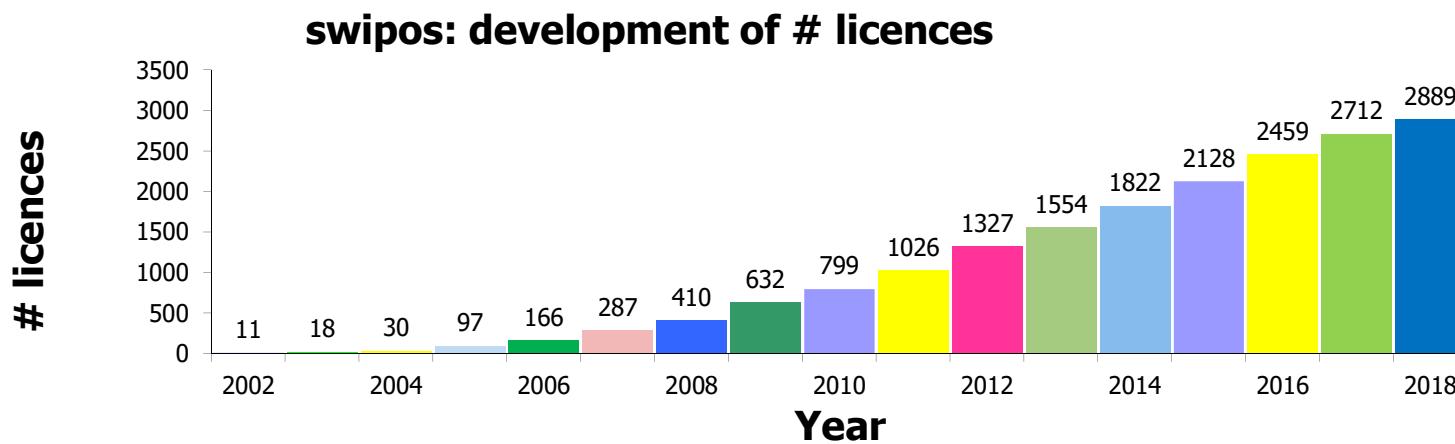
Correlation with Geology / Seismology





Swiss Positioning Service swipos

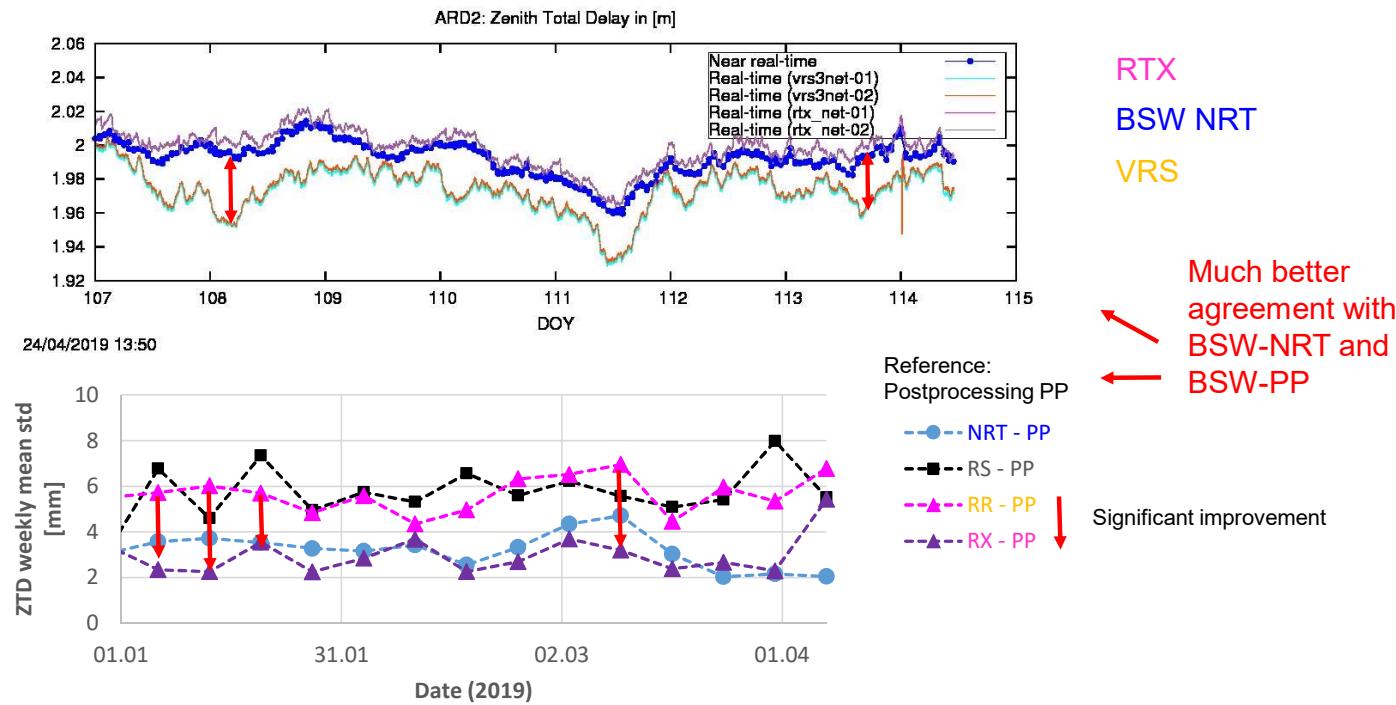
- Integration of BeiDou and Galileo in the Trimble Pivot Platform
 - Software (TPP 3.10) in June 2017; Trimble RTXNet – Processor Trimble RTX Real-time Orbit
- New RTCM 3.2 MSM mountpoints (GPS/GLO/BDS/GAL) are used by 10% users, GPS/GLO only mountpoints used by 90% of users





Benefit of real-time Multi-GNSS for GNSS-Meteorology

- Real real-time contribution to EUMETNET switched to Trimble from VRS3 (differential, GPS+GLO) to RTX (PPP, Multi-GNSS)





Multi-GNSS antenna calibrations

- Collaboration with ETHZ (phd D. Willi)
- Validation campaign with 2 swisstopo field antennas 518, 519 using 3 PCV mod.
 - ground truth comparison
 - Intersystem parameter checks

