

Alpine Network

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Motivation

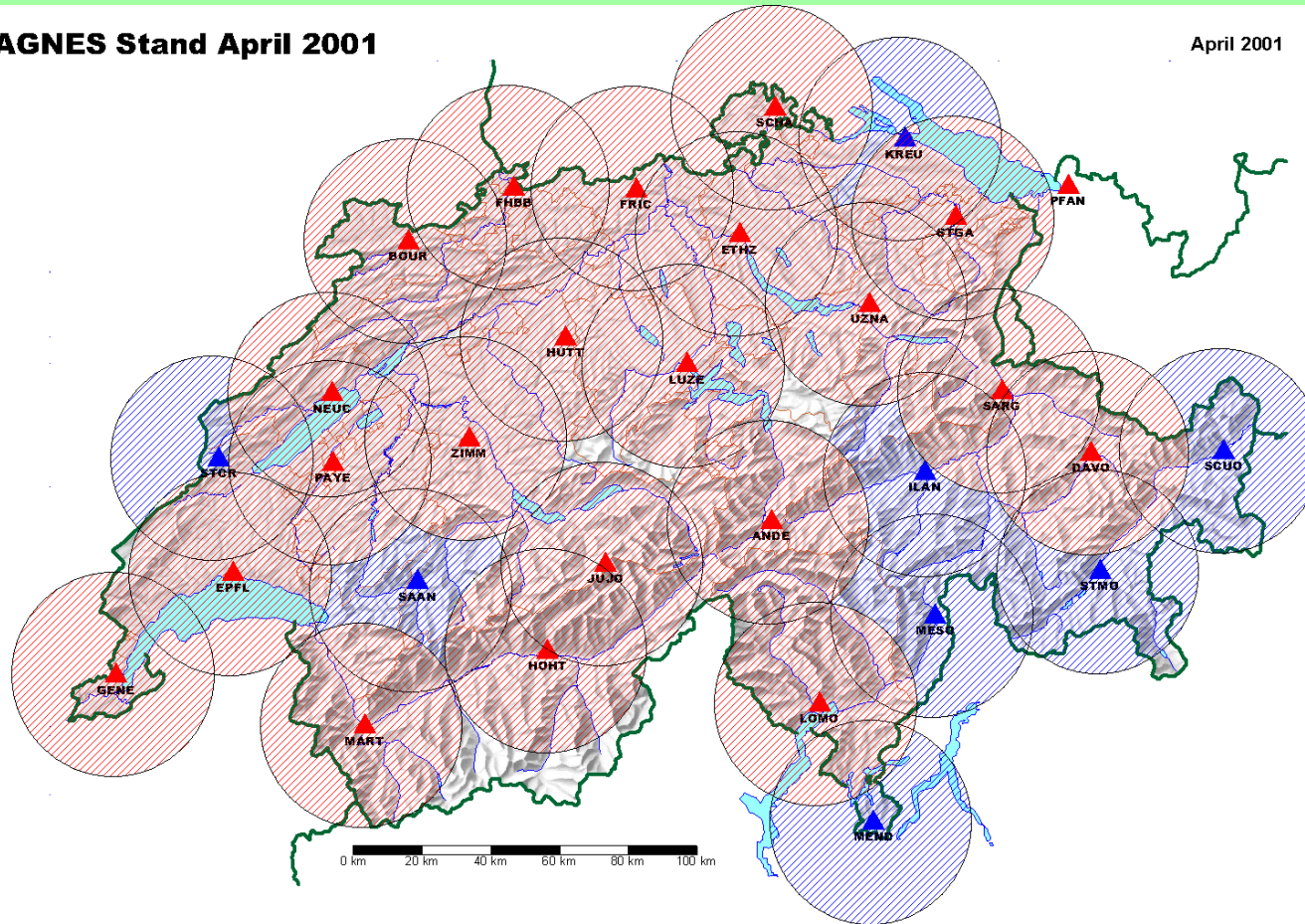
- Kinematics in the alpine region
- Densification of EUREF
- Collaboration with the EUREF EPN special project on geokinematics
- Collaboration between France, Austria, Germany, Italy and Switzerland



Switzerland

AGNES Stand April 2001

April 2001



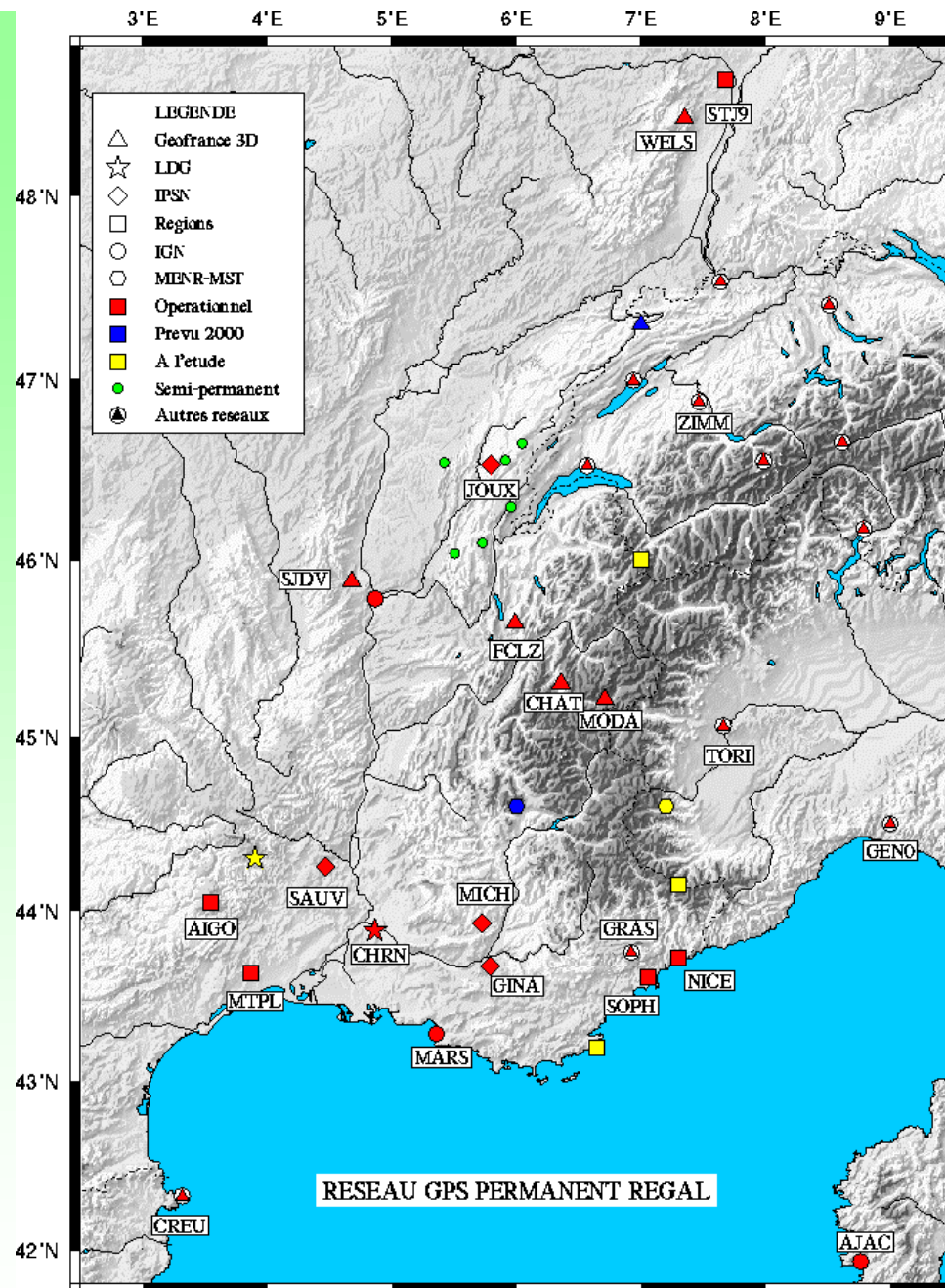
21 **AGNES**
sites
operational
8 additional
planned
(21 „private“
RTK sites)

Data not
available



Bundesamt für Landestopographie
Office fédéral de topographie
Ufficio federale di topografia
Uffizi federal da topografia

E. Brockmann



France

8 additional sites

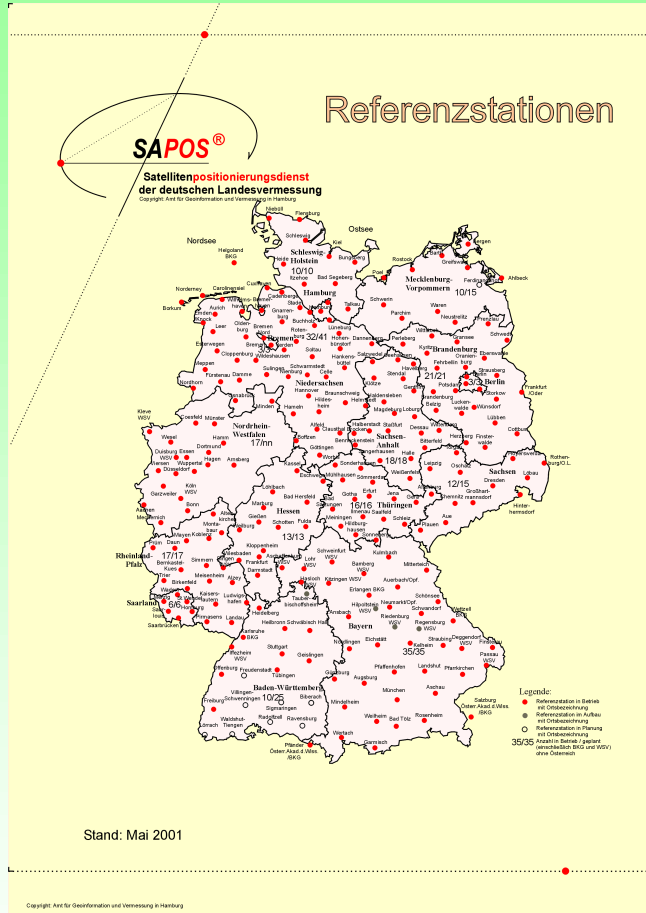
- Regal network (Geofrance 3D, LDG, IPSN, universities)
- RGP (IGN)

8 planned:

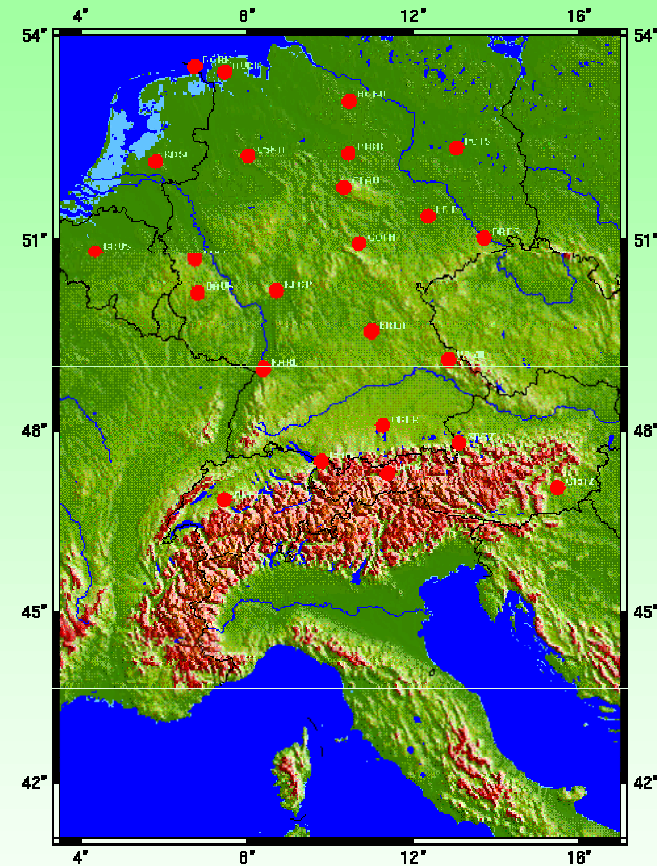
[Annecy](#), [Bure](#), [Queyras](#), [Mercantour](#), [Nord Jura](#), [Camarat](#), [Ouest Cevennes](#), [Aigoual](#)



Germany



20 SAPOS sites in Bavaria and Baden-Württemberg available, but data not available and data not processed



No „alpine sites“

200 SAPOS sites

+7 GREF sites (additional to EUREF)



Italy



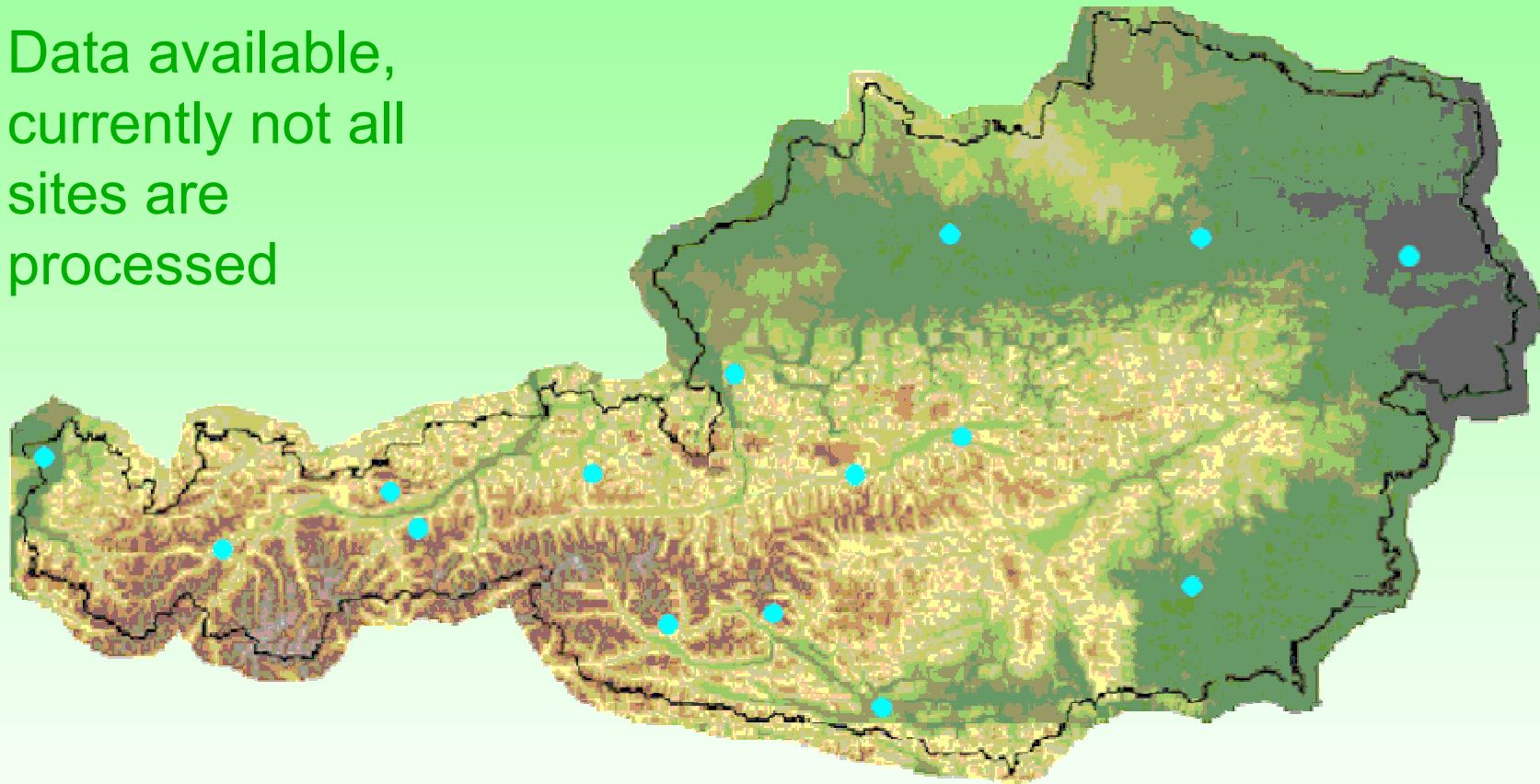
- Data archived at ASI, UPAD, Universities, ...
- Processed by UPAD, some by ASI
- Many other sites not available

3 additional „alpine sites“: MERA, NOVA, TREN



Austria

Data available,
currently not all
sites are
processed

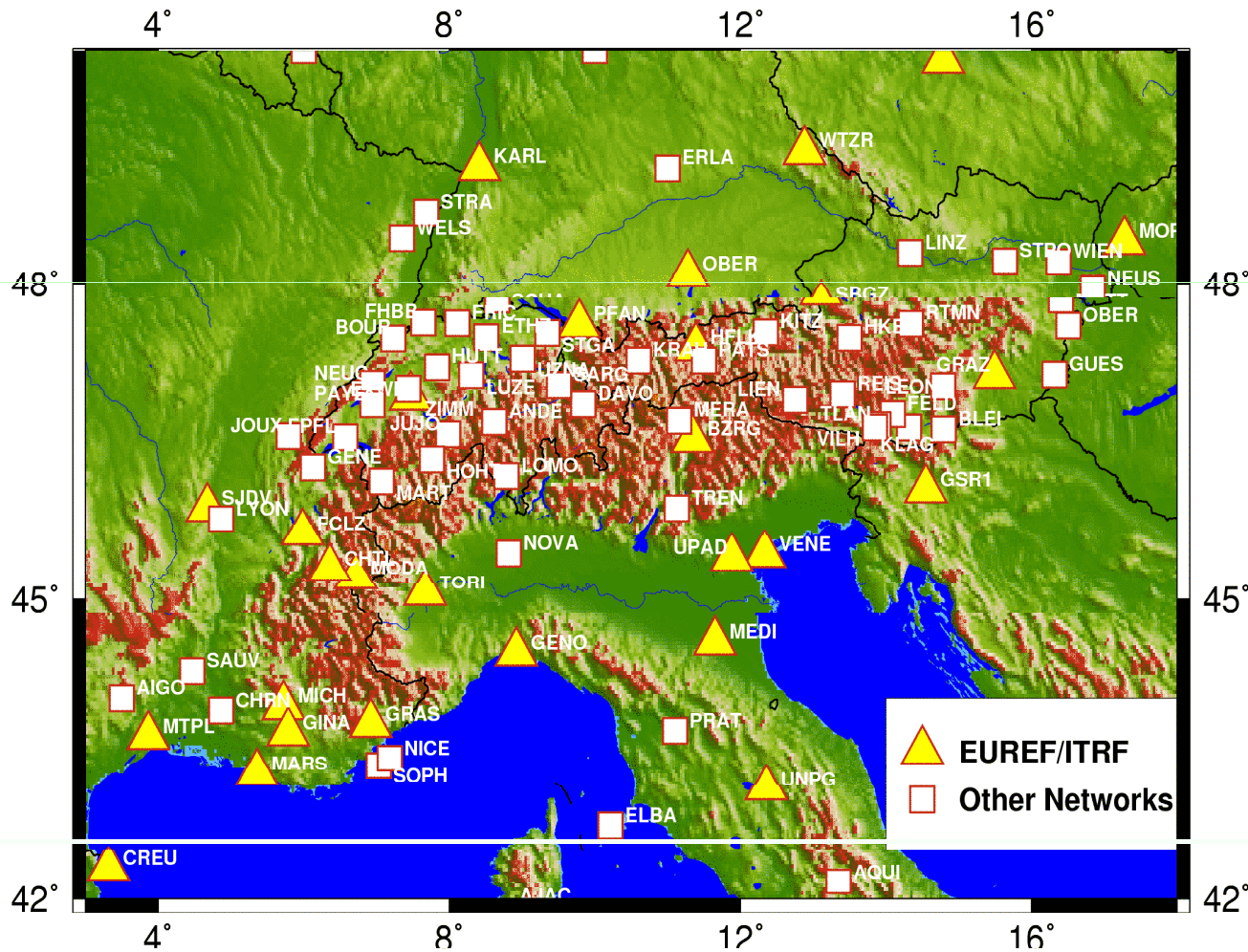


- Graz Lustbühl / BEK
(4 EUREF, 8 add.)

Ca. 8 sites: Univ. Vienna
(GPS + Glonass)



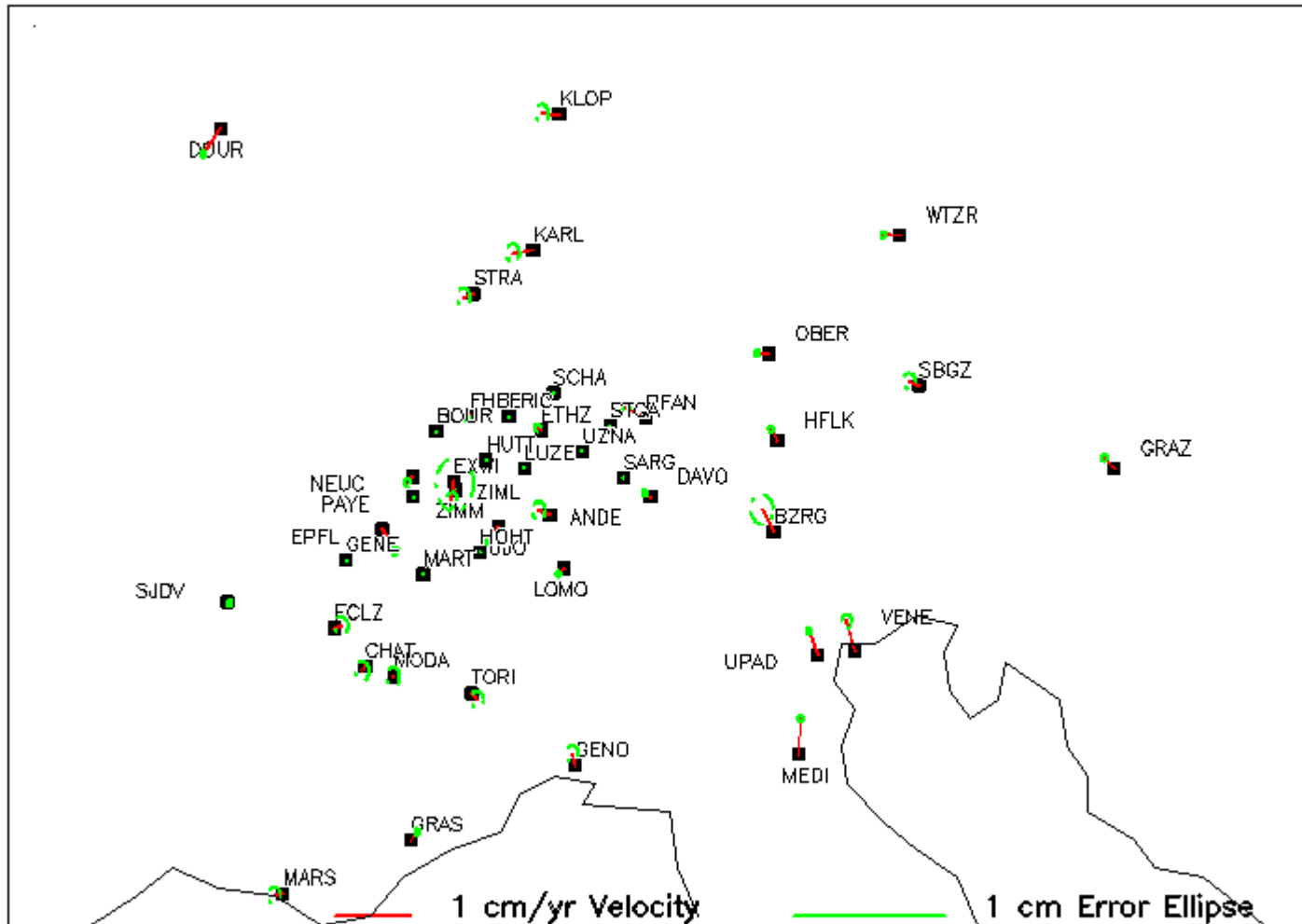
Alpine Network



- 50 sites available additionally to EUREF
- more sites are planned / existing (SAPOS, Austria, „private“...)



Differential Velocities w.r.t Zimmerwald ITRF97 Velocities

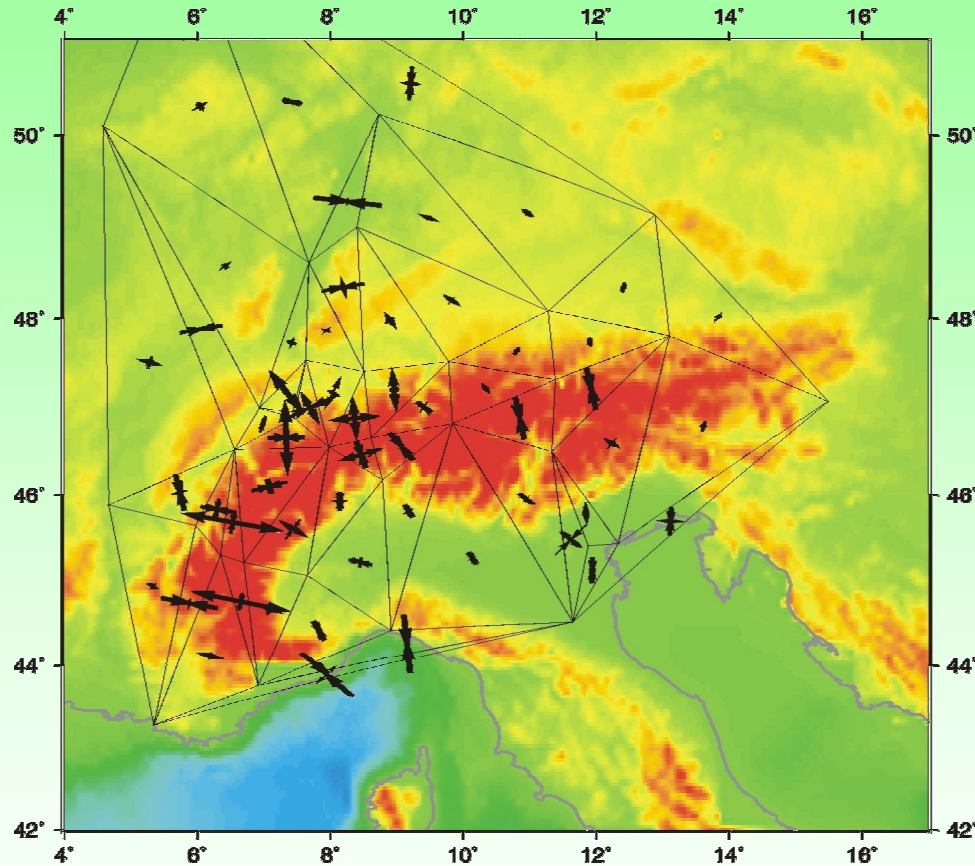


- Individual solutions available

Example
Switzerland



First Tests



- Exchange of SINEX LPT, France
- Combination using program of Z. Altamimi
- Strain computation



Procedure

- Method: Exchanging results (no struggling with data, no conflicts with proprietary data)
- Tests will be continued, additional solutions included (Italy)?
- **Long time span** and **continuity** needed !!!
- Partners with **suited sites** are / will be contacted (for data availability / processing)



Procedure (cont.)

- Standards for combination procedure to be worked out (weekly coordinates / coordinates+velocities in SINEX format)
- Framework of collaboration to be defined:
 - collaboration with EUREF special project on geokinematics
 - cooperation of the contributing alpine countries (another project, loose collaboration, ?)

