## **EUREF 2008 - Bruxelles ISTITUTO GEOGRAFICO MILITARE ITALIANO Geodetic Service**





## **GPS STATIC** NETWORK **IGM95**

- **EUREF** points
- **IGM95** points
- **Densification points (done)**
- **Densification points (ongoing)**





# GPS DYNAMIC PERMANENT NETWOORK

- Setting up a "back bone" reference on the territory 100 stations:
  - with mean inter-distance: 150 km
  - Several ASI and INGV stations
- Monitoring the reference system possible variations
- Reference period on four weeks observations (from 1459 to 1462)
- Computations performed at the IGMI Geodetic Service and verified by two other Computing Centers (Padua and Como)
- Stazioni RDN calcolat Stazioni RDN fisse IERS Stazioni RDN fisse EURE

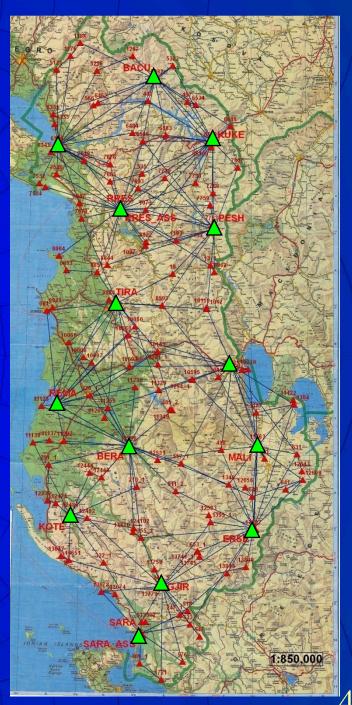


#### STATIC AND DYNAMIC GEODETIC NETWORK IN ALBANIA

14 Points Dynamic Network
 133 Points Static Network

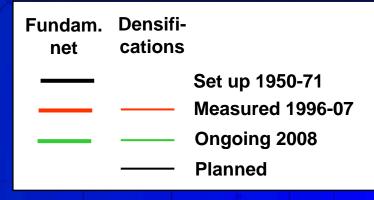
Realized during three surveys, each of 20 days (from November 2007 to May 2008)

It provides Albania with a modern reference network in ITRS and ETRS





### HIGH PRECISION LEVELING NET







### SOFTWARE

The software VERTO is currently being used for transformations between EUREF related systems and Local Datums (Roma40 and ED50)



## Activities at the University of Padova within EUREF

- Infrastructures
  - Permanent GPS station
    PADO: daily and hourly
    RINEX files, participates to
    EUREF-IP
- Local Analysis Center UPA:
  - production of weekly SINEX files;
  - daily SINEX files using rapid IGS orbits
- Participation in the activities of the TWG

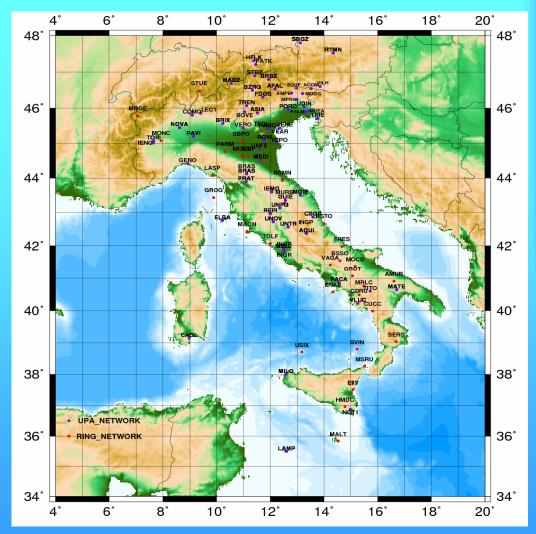


The UPA subnetwork within the EPN



#### Other activities related to EUREF

- Institutional
  - Represents EUREF in the Wegener Board
  - Participation in the CEGRN Consortium
- Italian Network: weekly processing 90 permanent stations network(includes INGV's RING network), EUREF standards
- Cooperation with IGMI, the Italian NMA, and ASI
- Cooperation with Regional Mapping Authority of Veneto for GPS geodesy, 1° order leveling, regional GPS network with 15 permanent stations
- Science projects (geokinematics, seismology) using EUREF products



National densification of EPN with permanent stations

