



National Report of Italy

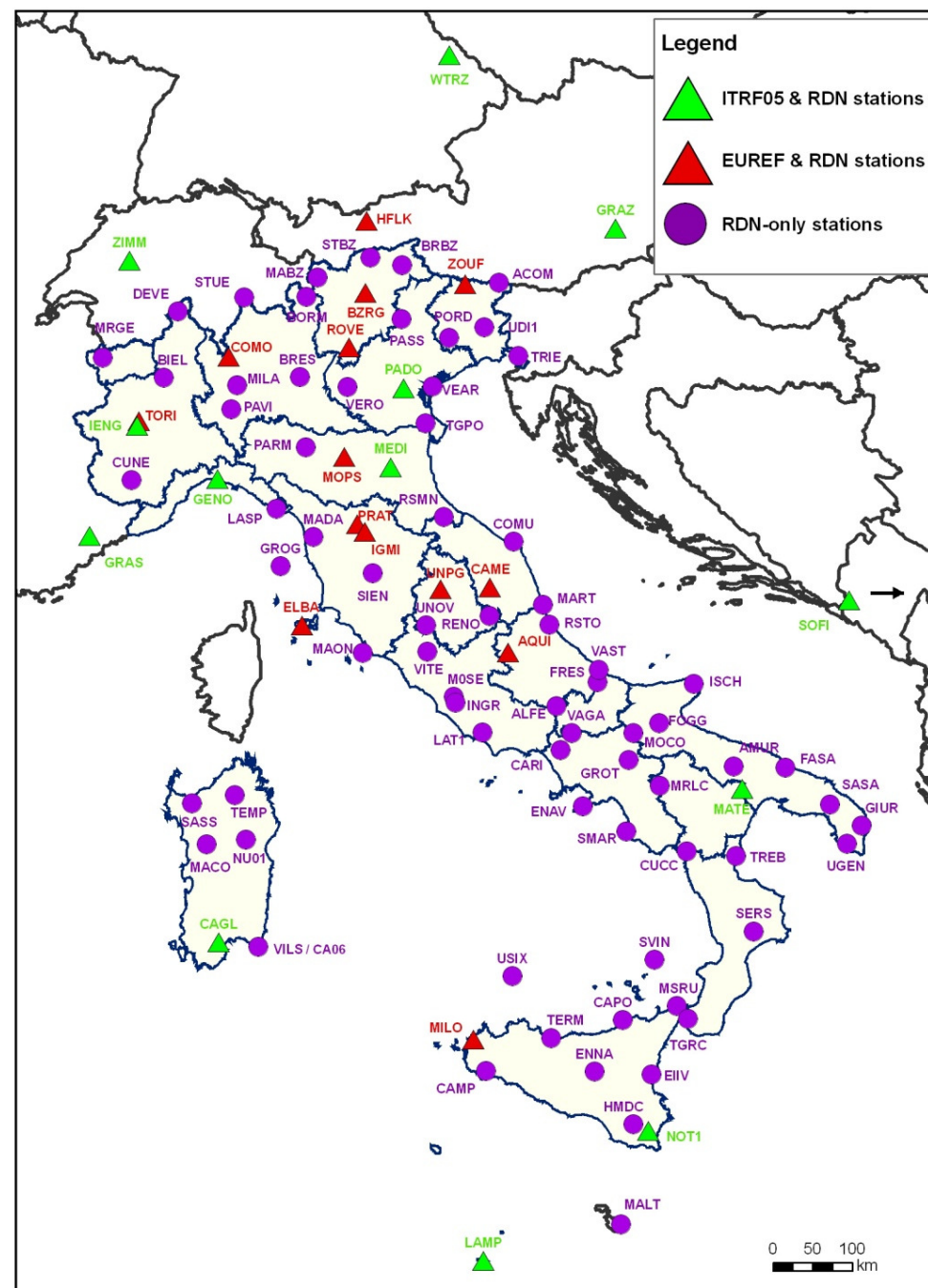
EUREF 2010 – Gavle

ISTITUTO GEOGRAFICO MILITARE ITALIANO
Geodetic Service



On 6th April 2009 the earthquake in Abruzzo caused a change in the position of AQUI station (situated in the town of L'Aquila) :

Nord	-51.6 mm
Est	+5.4 mm
Up	-86.0 mm





GPS DYNAMIC PERMANENT NETWORK RDN

In the official IGM website:

www.igmi.org

you can find a RDN section
with the dynamic graph and
the site descriptions of all
stations

In a short time a connection
will be activated with the DB
where all the observations
are stored, in order to
download daily RINEX (30
seconds)

Rete Dinamica Nazionale IGM - Microsoft Internet Explorer

Indirizzo: <http://www.igmi.org/rdn/>

RDN (Rete Dinamica Nazionale) Site Map

Mappe | Satellite | Rilievo

▲ - station is active in RDN network
△ - station is presently inactive

ACOM	12767M001	Malborghetto-Valbruna, UDINE		
ALRA	00000M000	Alfedena, L'AQUILA		
AMUR	00000M000	Altamura, BARI		
AQUI	12757M001	L'Aquila, L'AQUILA		EPN
BIEL	00000M000	Biella, BIELLA		
BORM	00000M000	Bormio, SONDRIO		
BRBZ	00000M000	Brunico, BOLZANO		
BREA	00000M000	Brescia, BRESCIA		
BZRG	12751M001	Bolzano, BOLZANO	IGS	EPN
CAGL	12725M003	Cagliari, CAGLIARI		EPN
CAME	12754M001	Camerino, MACERATA		EPN
CAMP	00000M000	Campobello di Mazara, TRAPANI		
CAPO	00000M000	Capo d'Orlando, MESSINA		
CARI	00000M000	Carinola, CASERTA		
COMO	12761M001	Como, COMO		EPN
COMU	00000M000	Ancona, ANCONA		
CUCC	00000M000	Castrocuoco, POTENZA		
CUNE	00000M000	Cuneo, CUNEO		
DEVE	12779M001	Baceno, VERBANO/CUSIO/OSSOLA		
EIVV	00000M000	Catania, CATANIA		
ELBA	12721M002	San Piero Campo nell'Elba, LIVORNO		EPN
ENAV	00000M000	Massalubrense, NAPOLI		
ENNA	00000M000	Enna, ENNA		
FASA	00000M000	Fasano, BRINDISI		
FOGG	00000M000	Foggia, FOGGIA		
FRES	00000M000	Fresagrandinaria, CHIETI		
GENO	12712M002	Genova, GENOVA	IGS	EPN
GIUR	00000M000	Giurdignano, LECCE		
GRAS	10002M006	Caussols, FRANCE	IGS	EPN
GRAZ	11001M002	Graz, AUSTRIA	IGS	EPN
GROG	00000M000	Gorgona island, LIVORNO		
GROT	00000M000	Grottaminarda, AVELLINO		



GPS STATIC NETWORK IGM95

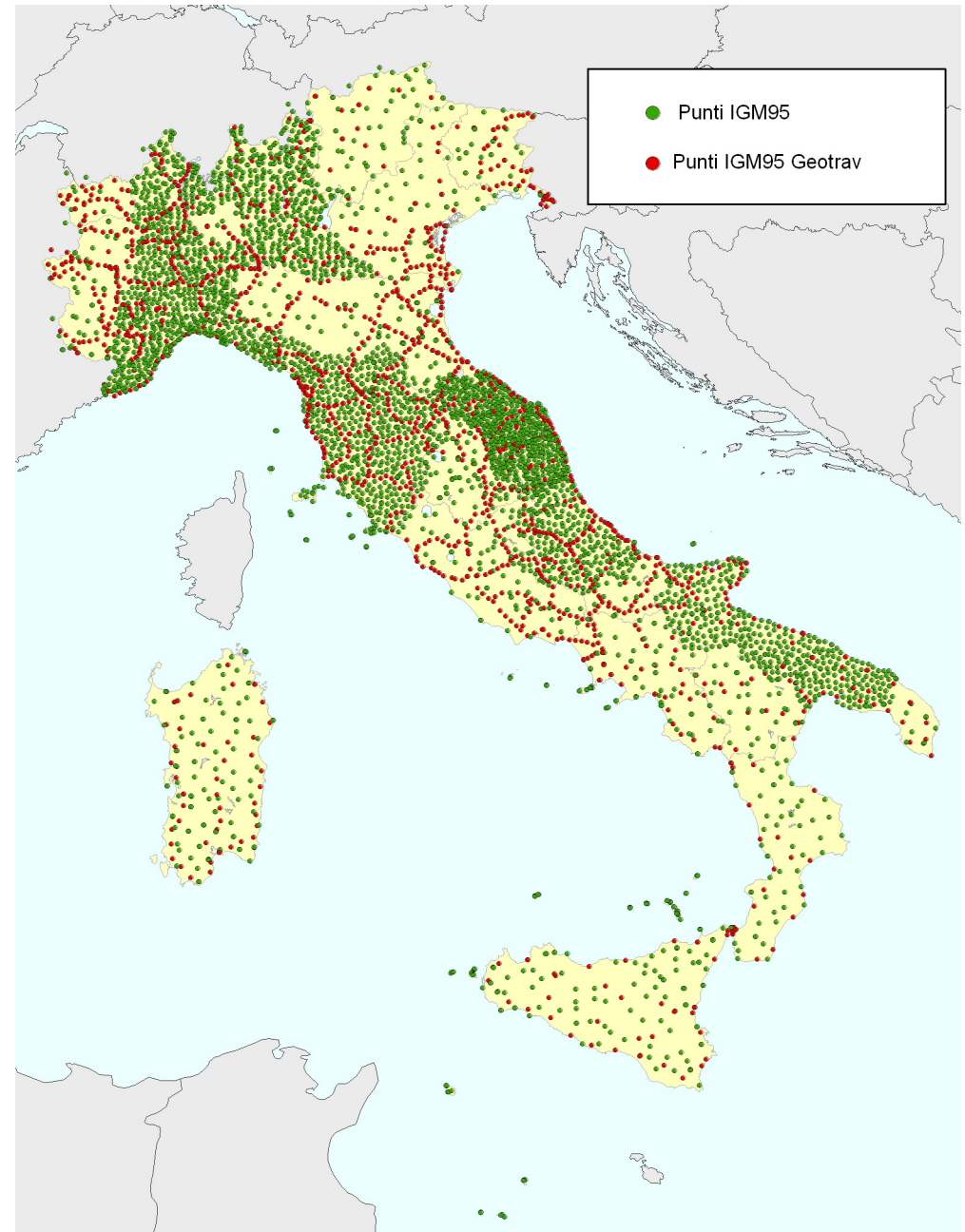
Original network realized from 1990 to 1995: ~1230 points (~450 points, called GEOTRAV, coincident with levelling benchmarks)

Subsequently densified:

- 800 GEOTRAV
- 2500 points from regional densification (mean distance 7 km)

At present: ~ 4500 points

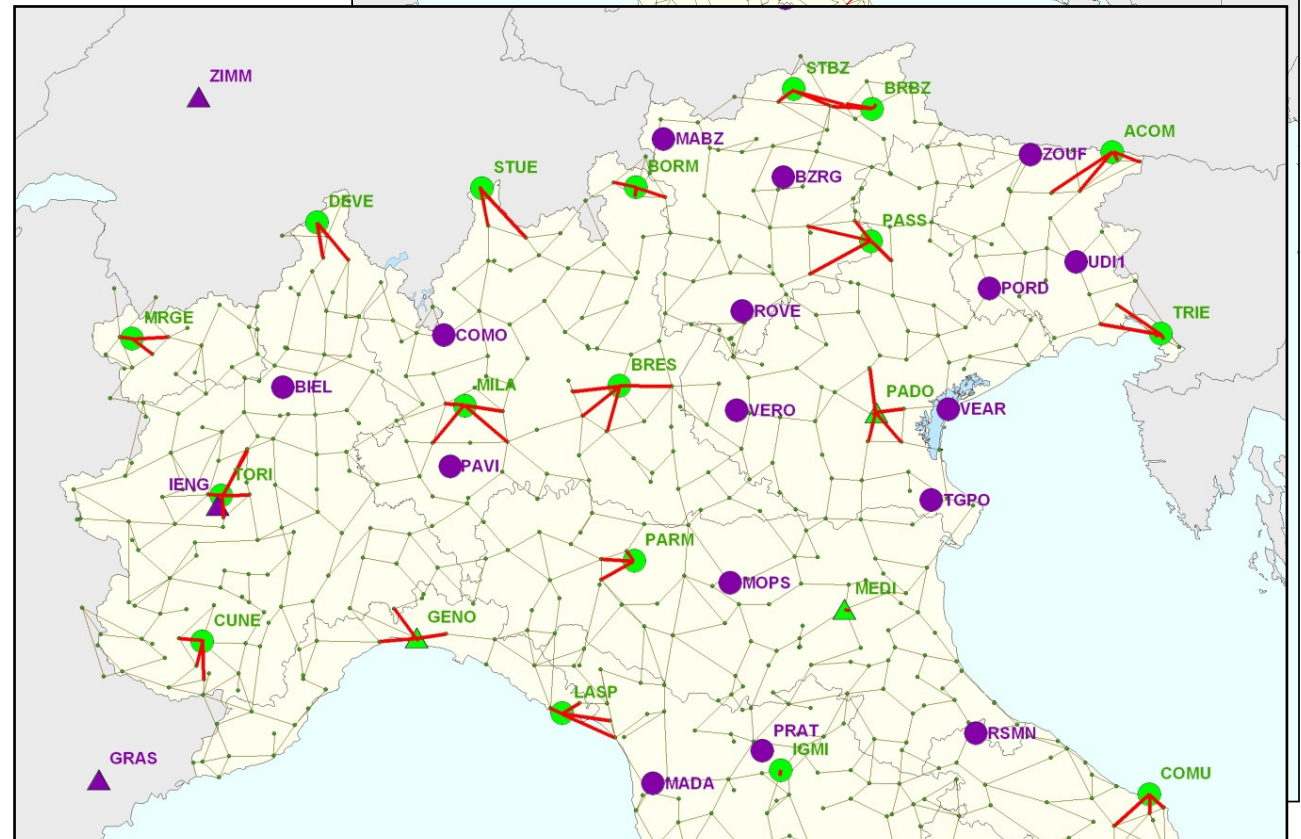
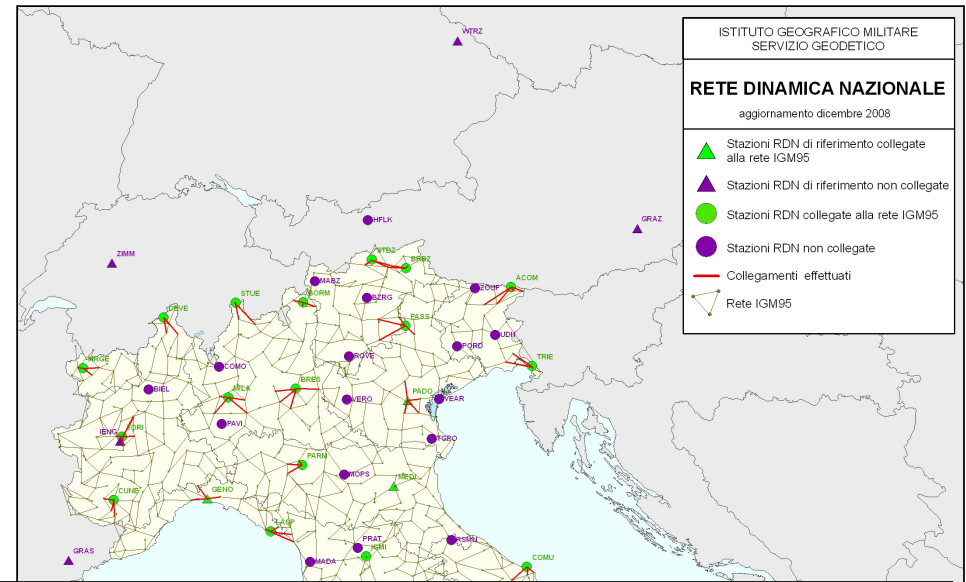
Realization of ETRF89





GPS STATIC NETWORK IGM95







After the realization of RDN all the IGM95 network was recomputed from ETRF89 to ETRF2000 through GPS connections (red lines) among RDN stations (green circles) and IGM95 original points

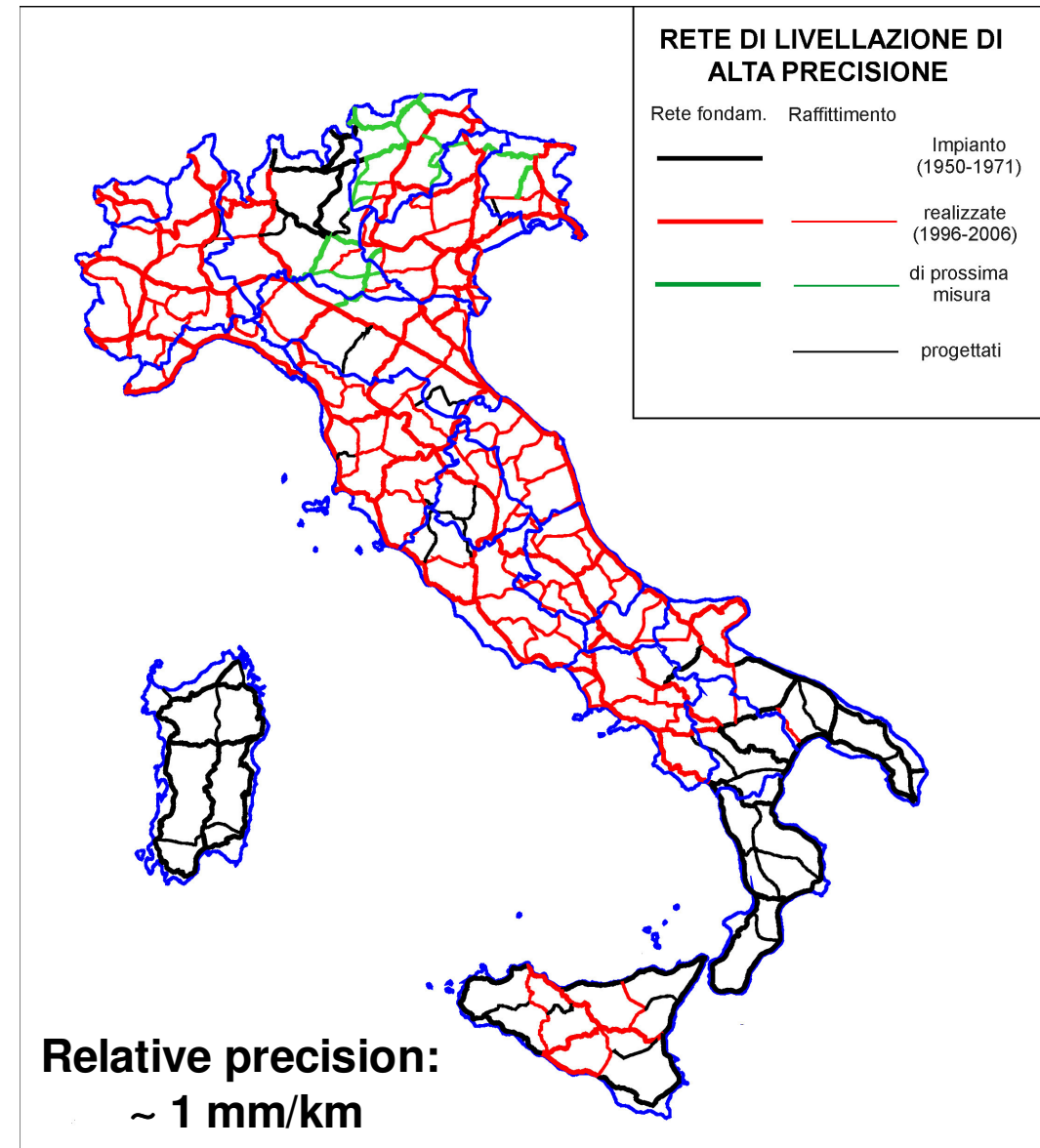




HIGH PRECISION LEVELING NET

- Ancient network (1878-1900)
- Modern network (1950-1971) 13.000 km
3 tide gauges: Continental Italy: Genova 1942
Sardinia: Cagliari 1956
Sicily: Catania 1965
- On-going densification (1996-2010):
up to 20.000 km

Fundam. net	Densifi- cations	
		Set up 1950-71
		Measured 1996-08
		Ongoing 2009
		Planned





Thank you for your attention!

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