



EUREF 2005 SYMPOSIUM

Vienna, 1 – 4 June



NATIONAL REPORT OF SPAIN

Instituto Geográfico Nacional

Spanish National GPS Reference Stations Network (ERGPS)



- ✓ 18 stations
- ✓ 11 EPN
- ✓ COBA included week 1312
- ✓ Public ftp data access (1,5,15,30 s)
<ftp://ftp.geodesia.ign.es>
- ✓ Main activity: maintenance
- ✓ Future: + 3 st.
- ✓ Collaboration with INME (TOUGH)

EUREF-IP NTRIP Caster at IGN-E

- ✓ Dissemination of real-time GNSS data through Internet
- ✓ Broadcasting data streams belonging to the ERGPS net
- ✓ 3 RTK (Madrid, Cordoba, Valencia)
- ✓ Integrated 10 stations → 14 total
- ✓ Data availability:

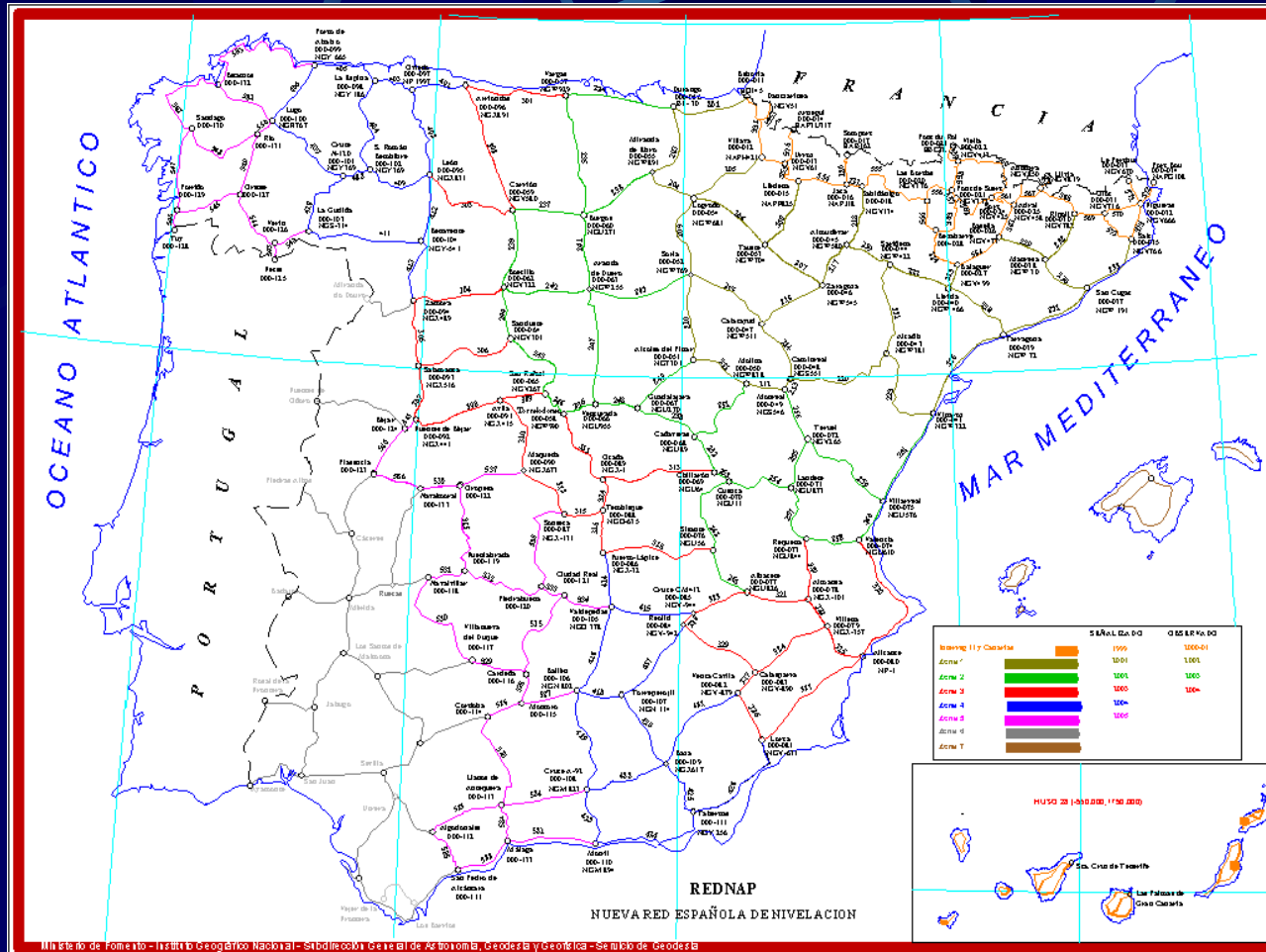
14 stations broadcasting DGPS (Madrid, *ACOR, ALBA, ALME, CACE, CANT, CEUT, COBA, HUEL, MALA, MALL, RIOJ, VALE, VIGO*).

3 stations broadcasting RTK (Madrid, VALE, COBA)

15 virtual EGNOS DGPS covering the Iberian Peninsula.

- ✓ Last week, version 0.1.5 of Ntripcaster has been installed

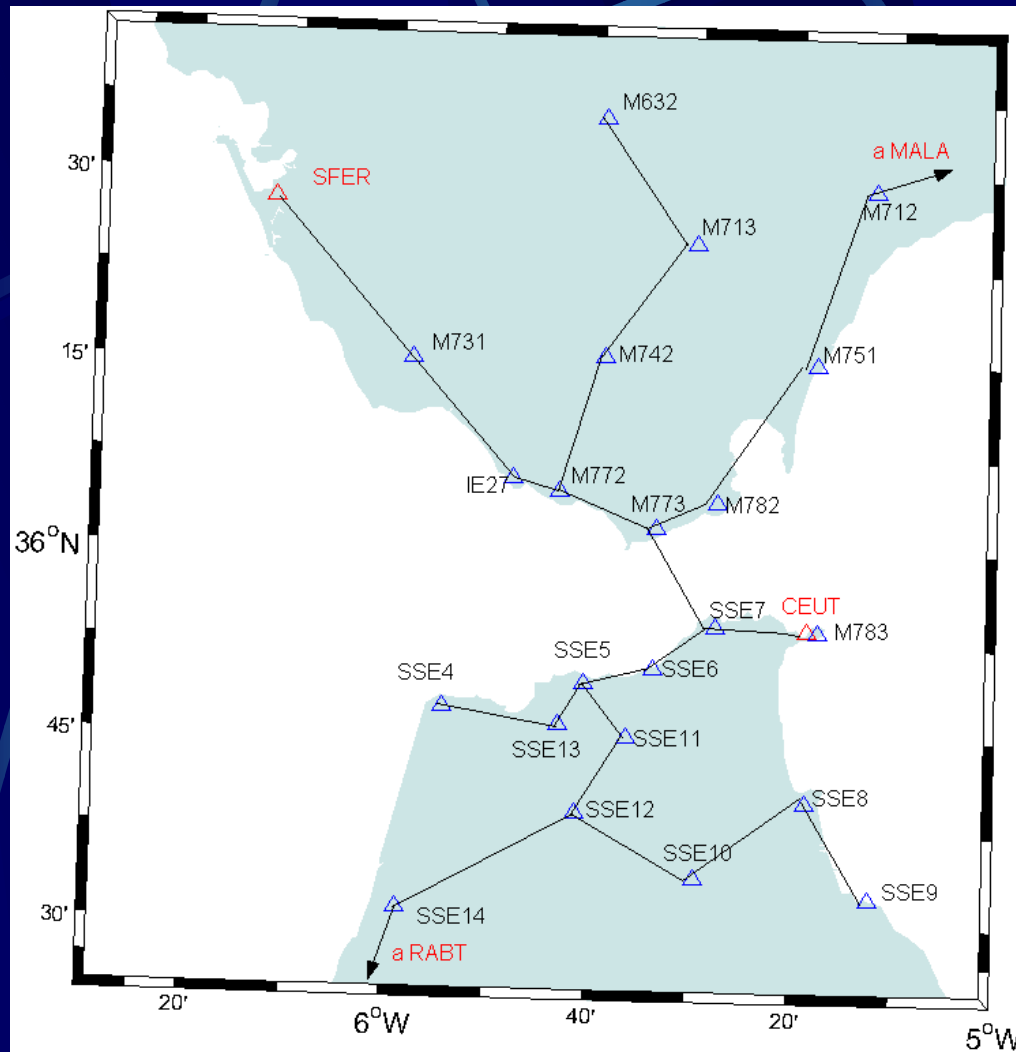
REDNAP Project: status



- ✓ New High Precision Levelling Network (18000 km)
- ✓ 2004: 2500 km (3000 points) monumented and observed: gravimetry + GPS + Prec. Levelling

High Prec. Geoid

Gibraltar Strait GPS Network (RGOG 2004)

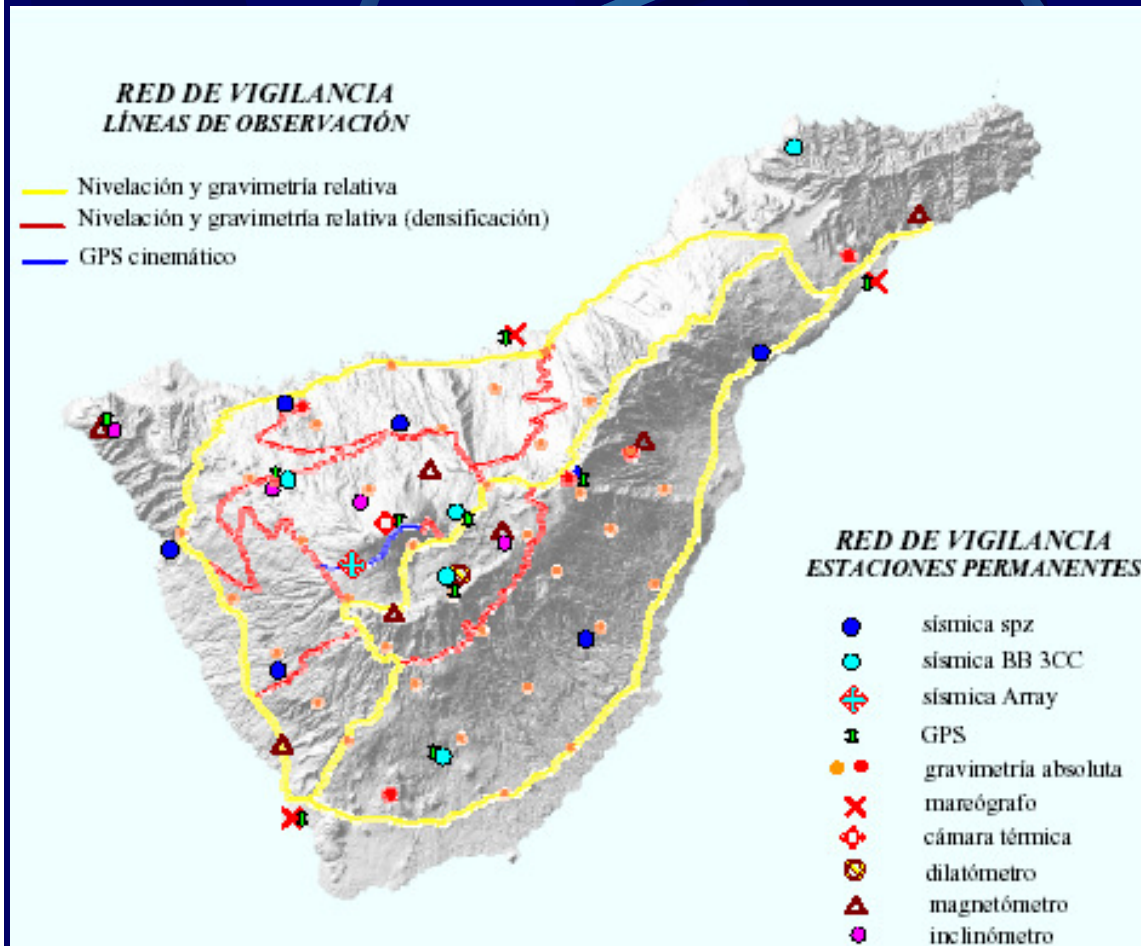


✓ Spain and Morocco governments have been collaborating with the aim of build a fixed-link in Gibraltar Strait between the European and African Continents from eighties of last century.

✓This project needs a geodynamical study, so different tectonic plates join in Gibraltar Strait.

✓Last October the Spanish and Moroccan national geodetic agencies have observed a five days GPS campaign of 22 points.

Tenerife Volcanic Monitoring System Project



✓ Several seismic movements affected Tenerife Island, the biggest of the Canary islands, last year.

✓ The Spanish Government decided to develop a Volcanic Monitoring System basic project.

✓ Seismic, geodetic and geophysical data sub-systems and the broadcasting of these data have been taken into account to determinate the instrumental systems .



Thanks!

EUREF 2005 Symposium - Vienna, 1 - 4 June