

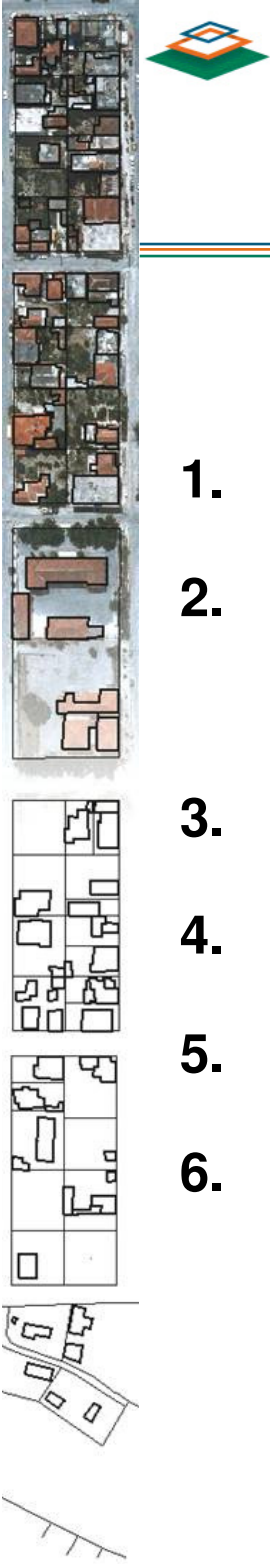


KTIMATOLOGIO S.A.

National Report of Greece

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KTIMATOLOGIO S.A. (Hellenic Cadastre)



Outline

1. **KTIMATOLOGIO S.A. member of EuroGeographics**
2. **Participation in the project for *Monitoring National ETRF Coordinates***
3. **New EPN station in Greece**
4. **Geodetic connection with FYROM**
5. **Operation of HEPOS**
6. **Computation of a geometric geoid model**



1. KTIMATOLOGIO S.A. member of EuroGeographics



KTIMATOLOGIO S.A.

**In October 2010, KTIMATOLOGIO S.A. (Hellenic Cadastre)
became member of EuroGeographics.**



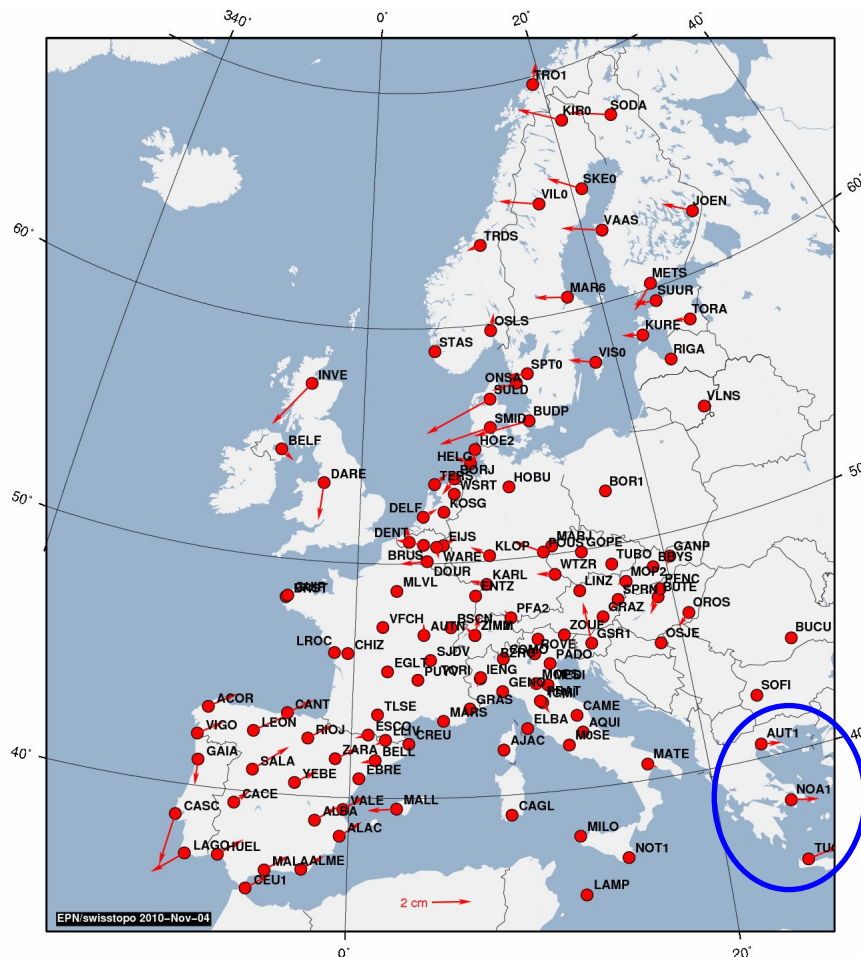
2. Participation in the project for Monitoring National ETRF Coordinates

Participation in the EUREF TWG project “*Monitoring official National ETRF coordinates on the EPN web site*”:

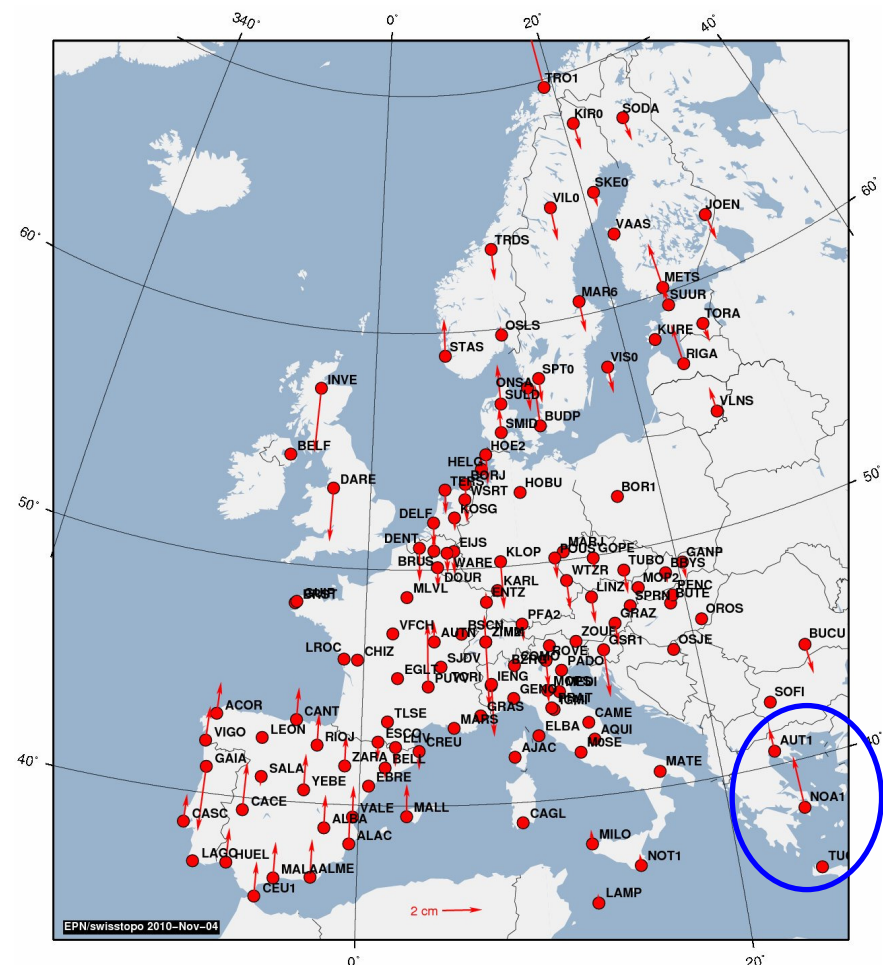
- In May 2010 the EUREF GR 2007 campaign was validated by EUREF.
- The coordinates of the three Greek EPN stations included in the EUREF GR 2007 campaign are now included in the comparisons.
- The level of consistency is quite satisfactory, especially considering the strong tectonic activity in Greece.

2. Participation in the project for Monitoring National ETRF Coordinates

Horizontal differences

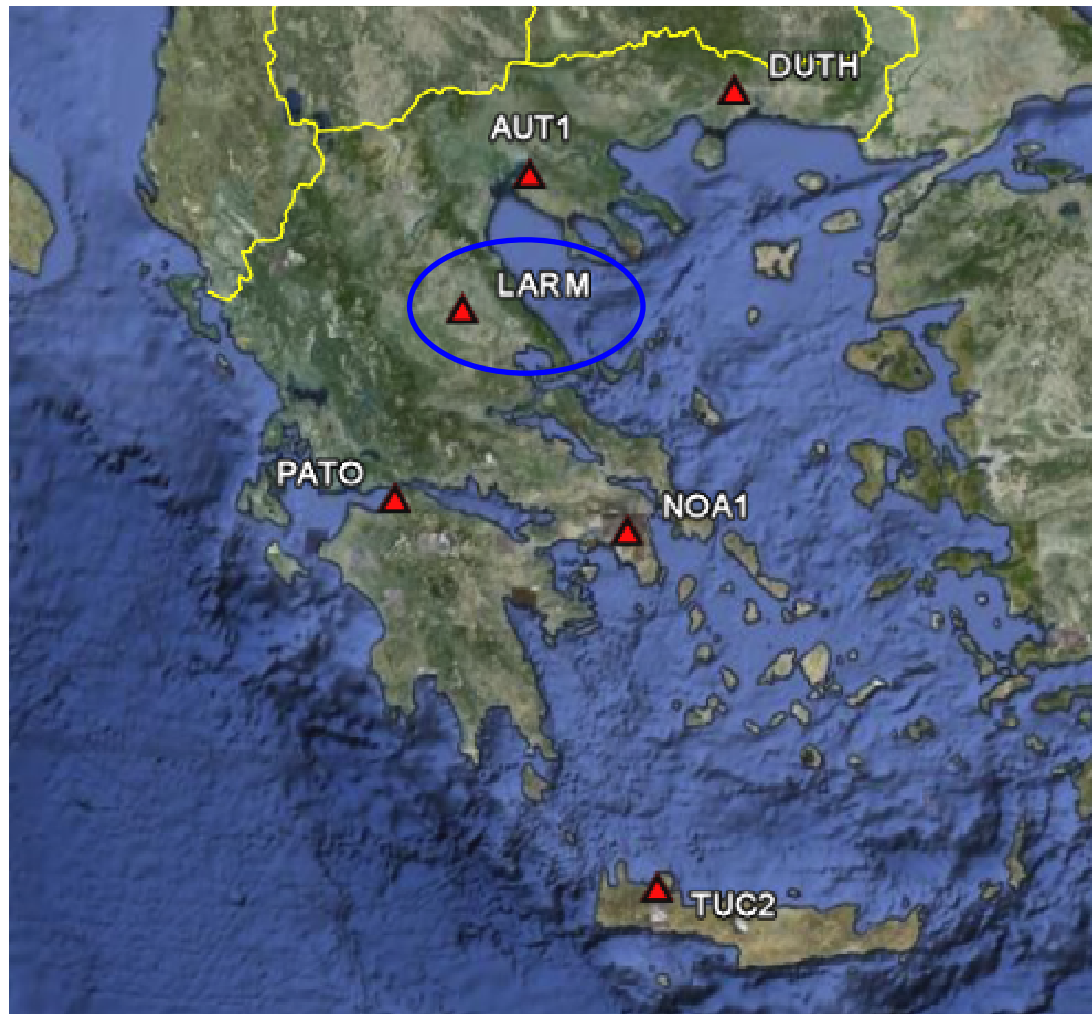


Vertical differences



3. New EPN station in Greece

In January 2011 the 6th Greek EPN station was installed.



3. New EPN station in Greece

- Name: LARM
- IERS DOMES Number: 12610M002
- EPN inclusion: 2011-05-01
- Location: University of Thessaly, Larisa, central Greece
- Installed by: Profs A. Fotiou and C. Pikridas
Department of Geodesy and Surveying,
Aristotle University of Thessaloniki
- Tracking: GPS+GLONASS, Galileo ready



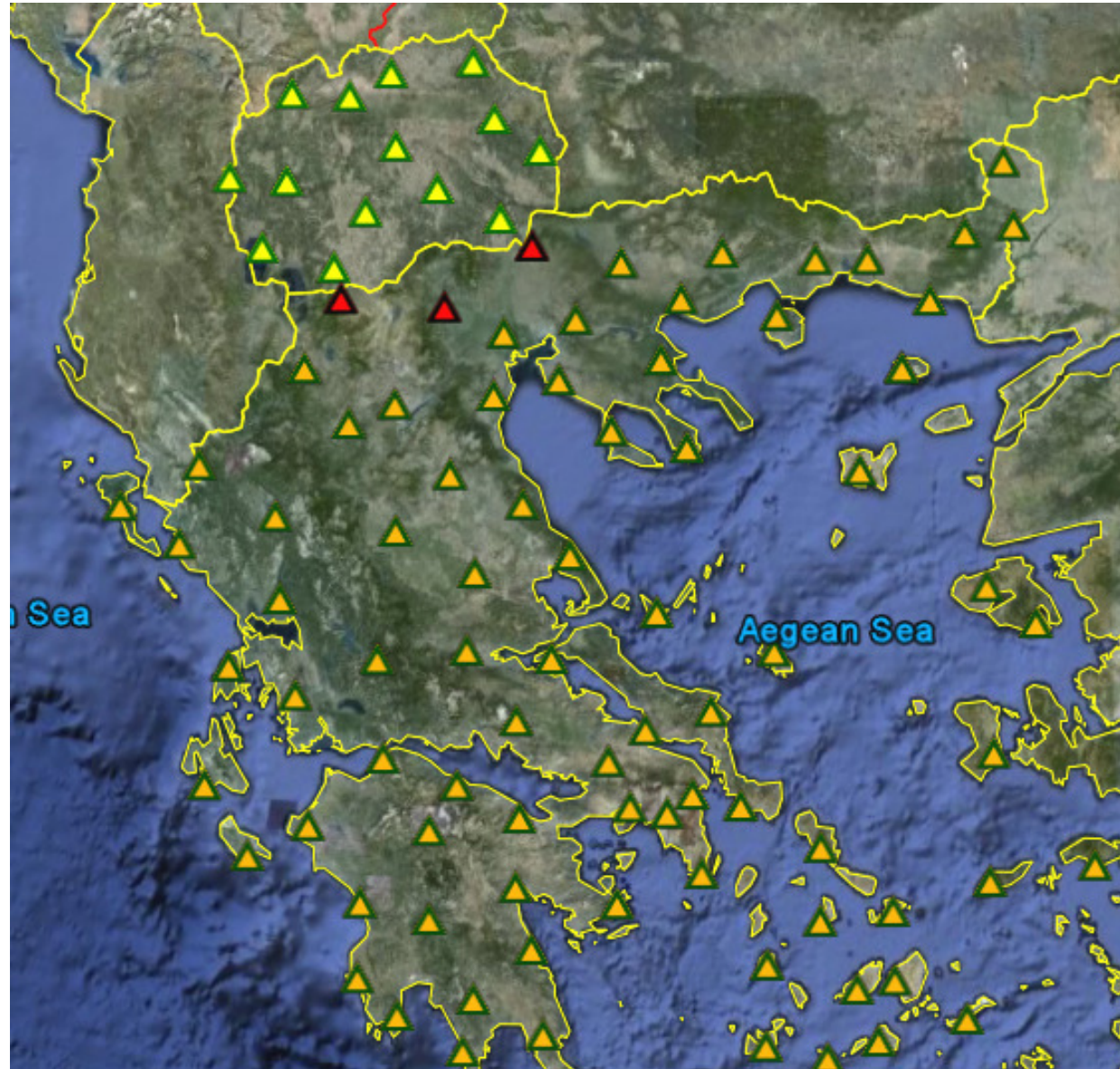


4. Geodetic connection with FYROM

- In 2010 FYROM conducted a campaign to compute a realization of ETRS89.
- In order to establish a geodetic connection in ETRS89 between the two neighbor countries, data from 3 HEPOS stations were supplied to Lantmäteriet, that assists FYROM in the computations.
- The data will be used to assess the level of compatibility between the two ETRS89 realizations.

4. Geodetic connection with FYROM

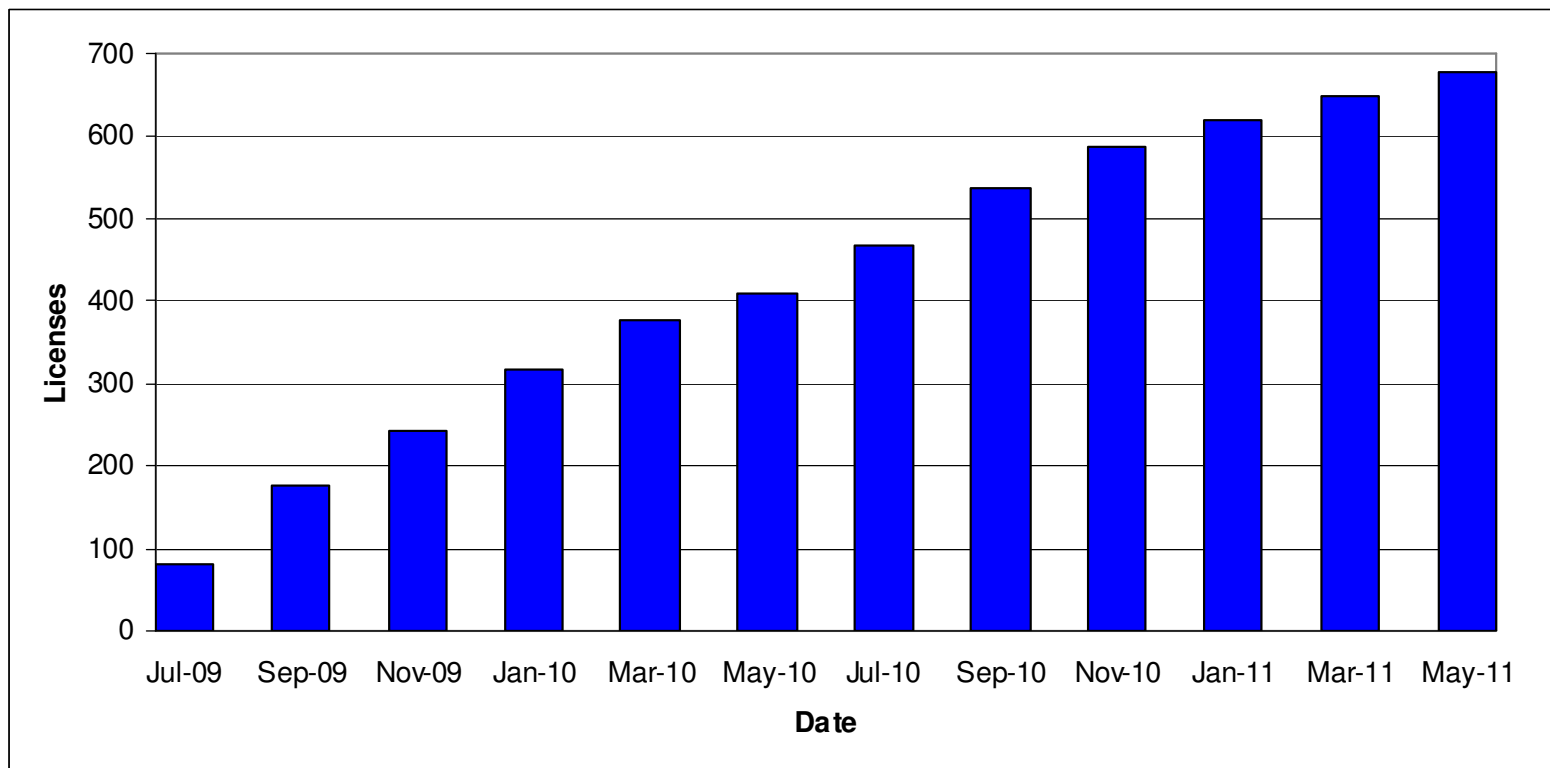
The three HEPOS stations used for the geodetic connection between Greece and FYROM



5. Operation of HEPOS



- HEPOS services are available to the users since 25/5/2009
- The number of users steadily increases

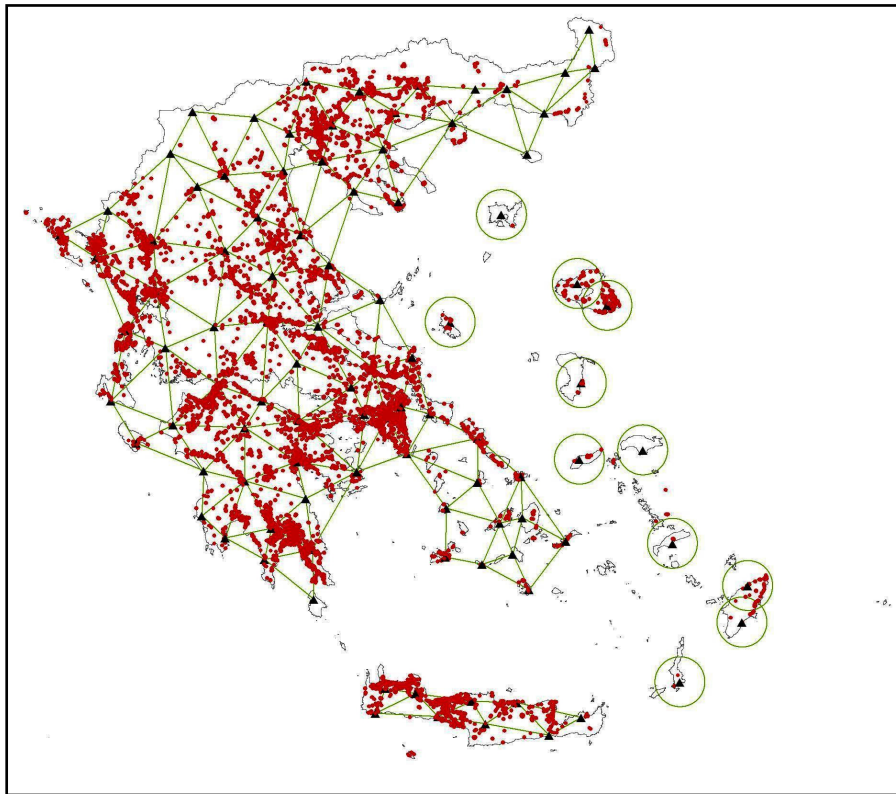




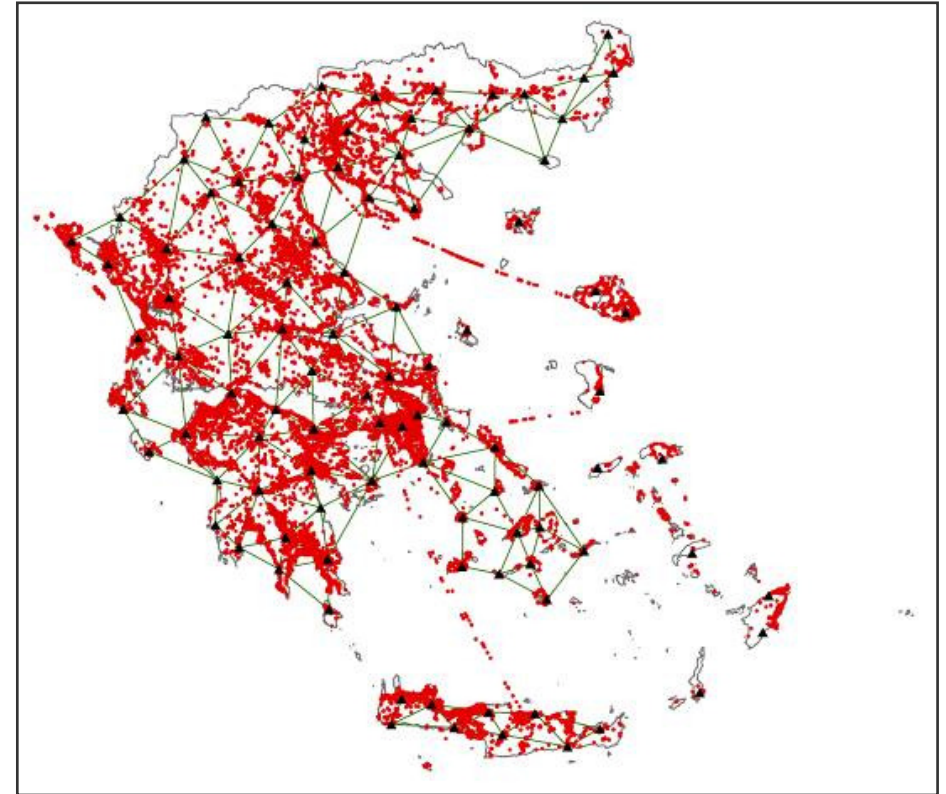
5. Operation of HEPOS

Usage of RTK services

Up to May 2010



Up to Dec 2010





6. Computation of a geometric geoid model

HEPOS is progressively being used by an increasing number of professional geoscientists.

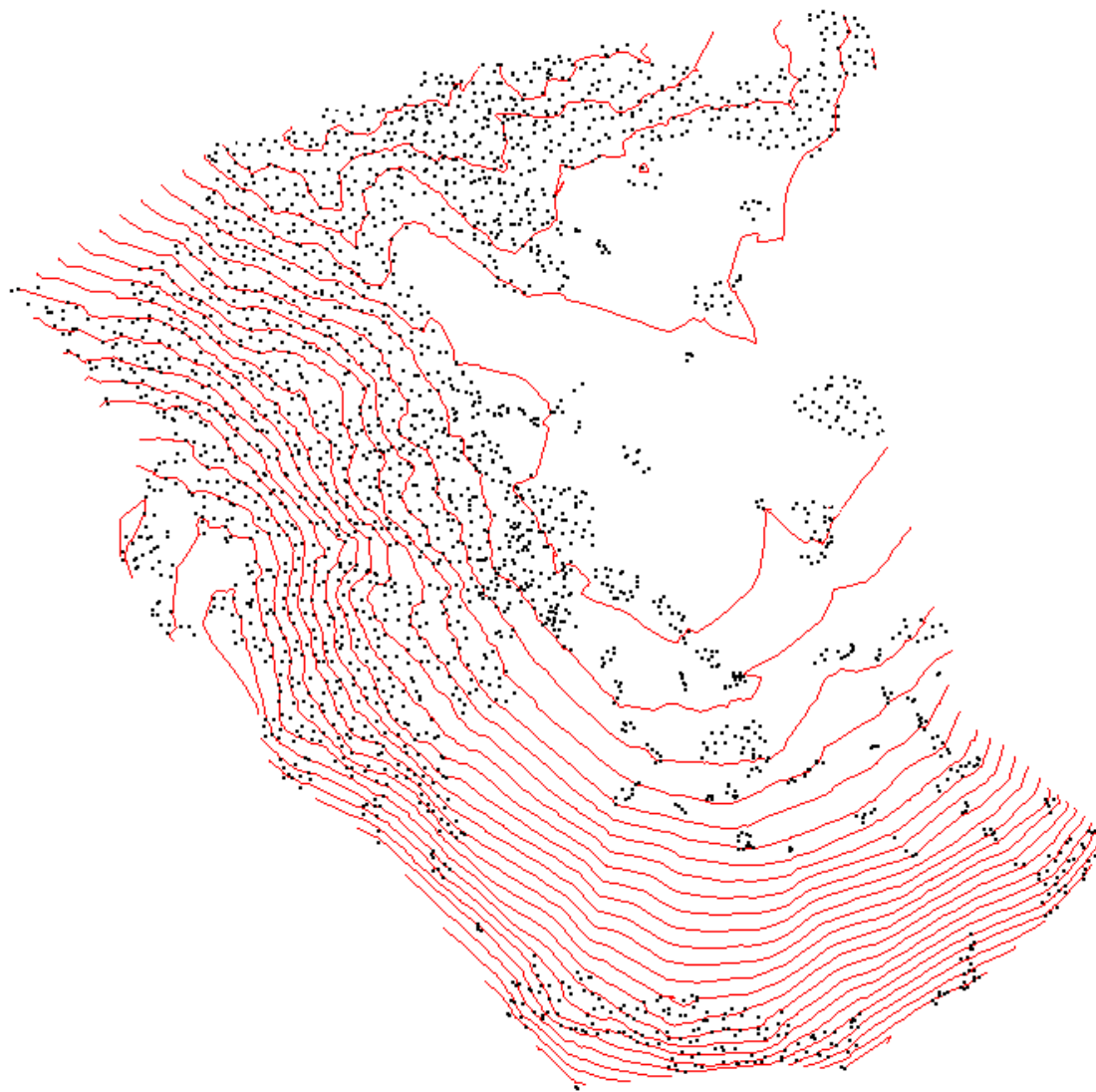
The users often need to determine precise (orthometric) heights.

KTIMATOLOGIO S.A. computed a geometric geoid model to be used with HEPOS.

The geoid model is implemented in a new transformation software (HEPOS Transformation Tool), available on the HEPOS website (www.hepos.gr).



6. Computation of a geometric geoid model



The model was computed using about 2700 points distributed all over the country, i.e. points of the national triangulation network and selected leveling points that have been measured with GPS and connected to HEPOS, to obtain ellipsoidal height in ETRS89.

Acknowledgments



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