

Research Infrastructure PSLNET

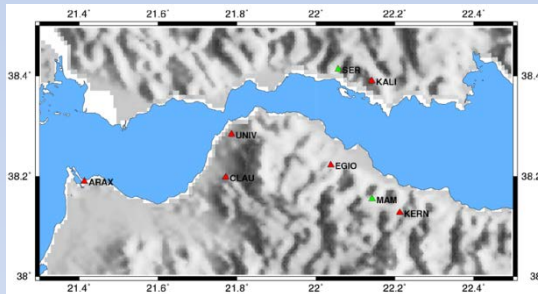
Joint project between
Charles University Prague
and
Patras University

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History

- Charles University Prague and Patras University have started to collaborate in the **middle of the nineties**.
- The first Broad Band (BB) stations (Guralp CMG-3T sensors, DM-24 digitizers, SAM data acquisition units) were installed in **1997 as stand alone systems**.



From the beginning we have concentrated on area of Corinth and Patras gulf. The map shows all station positions tested since 1997 (red triangles).

- During last years, the BB stations were complemented with the **Strong Motion** (Guralp CMG-5T) instruments (SM)
- The network was expanded by **permanent GNSS** stations (PPGNet).
- In the present time the network contains **8 BB**, **10 SM** and **6 GNSS** stations.
- The seismic data are available through NOA EIDA Data Archives.

<http://eida.gein.noa.gr/webdc3/>

Present status

- **Broad band stations**
 - Guralp CMG-3T (120s), 3ESP
 - Nanometrics 120s, 40s
- **Accelerographs**
 - Guralp CMG-5T, 5TD, 5TDE
- **GNNS**
 - Leica

Three kind of instalations

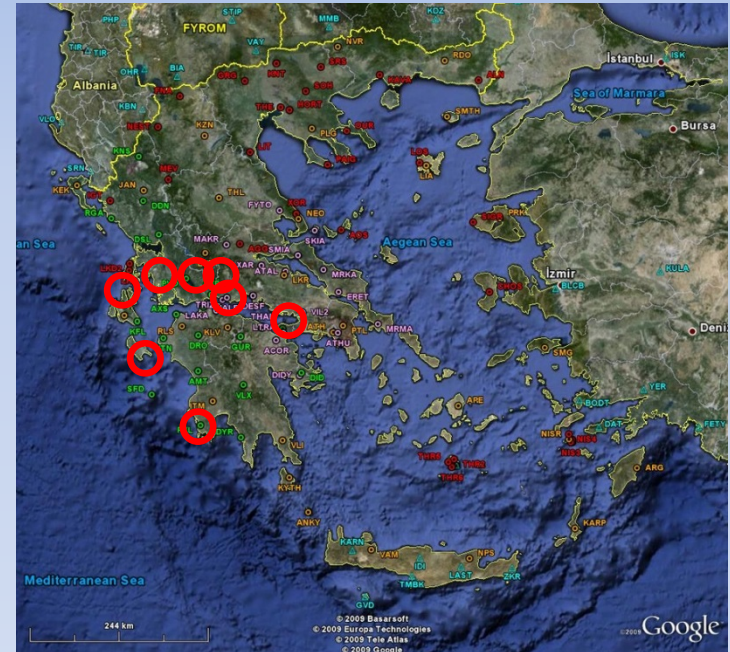
Old houses



Built small houses



Concrete bunkers



| Code | Latitude | Longitude | Altitude | Site name | Seismometer | Transmission | Start |
|------|----------|-----------|----------|------------|-------------------------|--------------|-------|
| ANX | 38.5933 | 21.9208 | 1020 | Ano Chora | CMG-3T | GPRS | 2010 |
| | | | | | CMG-5TDE | Stand-alone | |
| FSK | 38.4593 | 20.5623 | 113 | Fiskardo | CMG-3ESP CMG-5T | GPRS | 2012 |
| LTK | 38.0228 | 22.9673 | 408 | Loutraki | CMG-3T | GPRS | 2003 |
| | | | | | CMG-5TDE | Stand-alone | |
| PDO | 38.5986 | 21.1833 | 227 | Prodromos | CMG-3T CMG-5TDE | Stand-alone | 2009 |
| PVO | 38.6167 | 21.5259 | 188 | Paravola | Trillium 120 | GPRS | 2009 |
| | | | | | CMG-5TDE | | |
| PYL | 36.8955 | 21.7420 | 220 | Pylos | CMG-3T | GPRS | 2003 |
| | | | | | CMG-5TDE | Stand-alone | |
| SERG | 38.4142 | 22.0573 | 480 | Sergoula | CMG-3T | GPRS | 1998 |
| | | | | | CMG-5TDE | | |
| LTHK | 37.7095 | 20.8367 | 35 | Zakynthos | Trillium 40 CMG-5TDE | GPRS | 2015 |
| AAMF | 37.1070 | 22.0690 | 285 | Ano Amfeia | CMG-5TD | ADSL | 2011 |
| LAMP | 37.1473 | 21.9672 | 47 | Lampainy | CMG-5TDE | ADSL | 2011 |

Sergoula

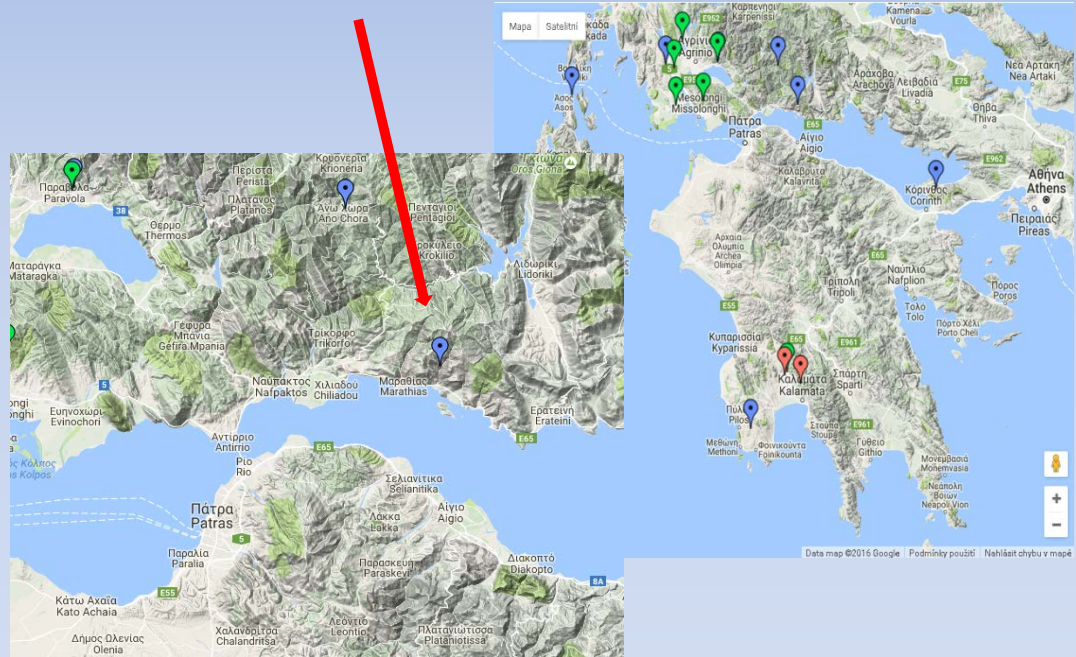
Operated since 1998

Guralp CMG-3T (120s)

- CMG-DAS-U-S3
- 3m deep bore-hole
- thermally protected

CMG-5TDE

Sample frequency 100Hz
GPRS telemetry



Prodromos

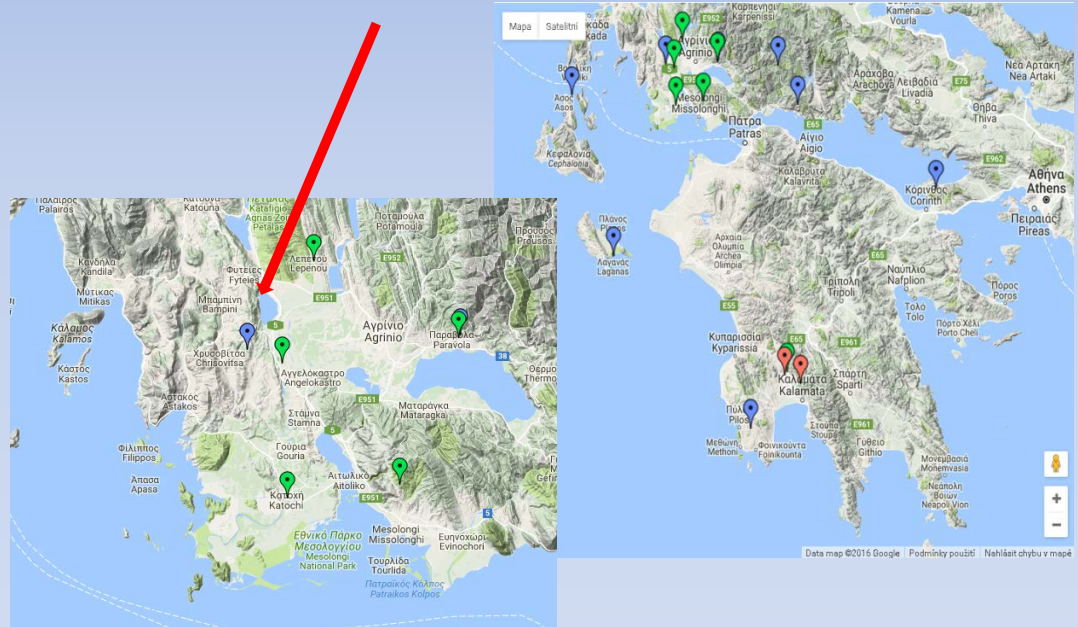
Operated since 2009

Guralp CMG-3T (120s)

- CMG-EAM
- 3m deep bore-hole
- thermally protected

CMG-5TDE

Sample frequency 100Hz
Stand-alone system



Pylos

Operated since 2003

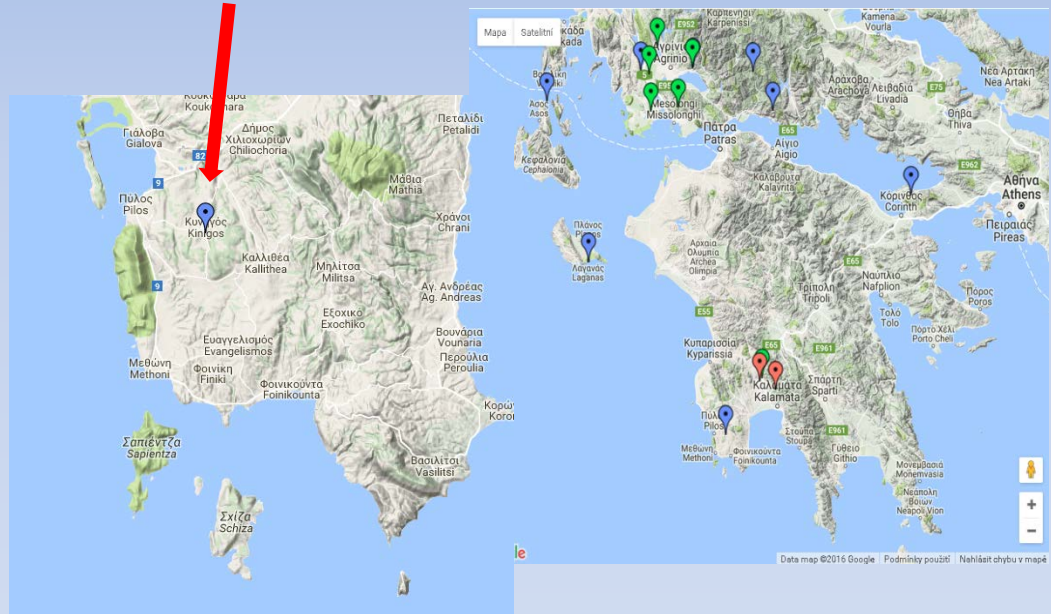
Guralp CMG-3T (120s)

- Nanometrics Trident

CMG-5TDE

Sample frequency 100Hz

GPRS



Problems

- Lack of human resources in Greece
- Technical problems:
 - Stations are damaged by lightning.
 - Gaps in telemetred records, -> data are stored locally also.
 - Problem with power



Thank you for your attention