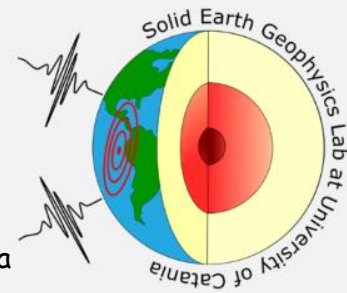
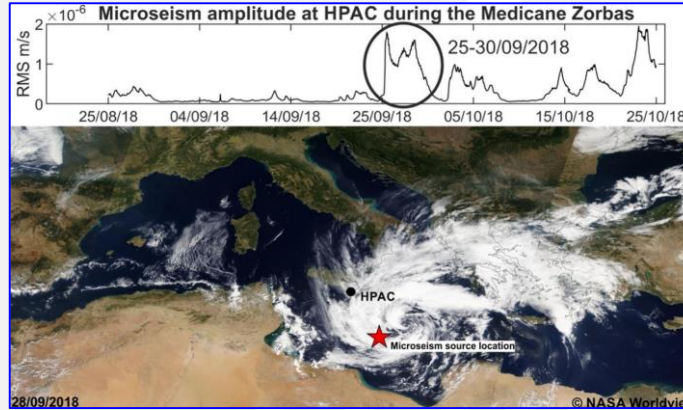


Laboratory of Seismology



About us:

We study the whole spectrum of seismic signals in tectonic and volcanic environment. We also collaborate in the development of experimental devices for the acquisition and processing of seismic signals. We are above all specialized in volcano seismology, environmental seismology and engineering seismology.



Team:

Head of laboratory:
Prof. Francesco Panzera

Members @unict:

Prof. Giovanni Distefano; Prof. Andrea Cannata

Postdoc and PhD students:

Dr. Marco Alfio Borzì; PhD.Stud. Gabriele Amato; PhD.Stud. Salvatore D'Amico; PhD.Stud. Mario Valerio Gangemi; PhD.Stud. Giuseppe Orefice; PhD.Stud. Steven Jeffrey Brooks; PhD.Stud. Enrico Indovina

Laboratory activities:

We are involved in deployment of seismic and infrasound stations in volcanic area. In collaboration with INGV, we also coordinate the Italian Volcanological Observatory in Antarctica, and manage the corresponding multiparametric monitoring network of Melbourne and Rittmann volcanoes.

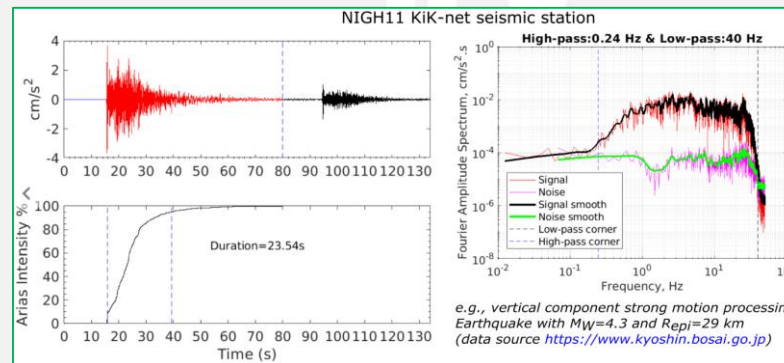
We manage a 5 seismic stations network to record microseism along the coast of the Mediterranean Sea both to investigate the state of the sea and the mechanisms of elastic energy transfer from the hydrosphere to the solid Earth.

We participate in activities related to seismic hazard assessment, seismic site effects estimation and microzonation. Our topics also includes researches related to macroseismic intensity, historical seismicity and earthquake catalogues.



Instrumentations:

- ✓ 8 broad band seismic stations (120 s);
- ✓ 2 short period seismic stations (1 s);
- ✓ Multiparametric stations in Antarctica
- ✓ 1 infrasound seismic station;
- ✓ 1 Server for high performance computing;
- ✓ Collection of Etna volcano seismograms from 60s to 2000.



e.g., vertical component strong motion processing Earthquake with $M_W=4.3$ and $R_{epi}=29$ km (data source <https://www.kyoshin.bosai.go.jp>)

Contacts and links:

Andrea Cannata
andrea.cannata@unict.it

Giovanni Distefano
giovanni.distefano@unict.it

Francesco Panzera
francesco.panzera@unict.it

Website: <https://solidearthgeophysics-unict.com>