

Station Description Sheet

PRS

1. General Information
2. Geographical Information / Geomorphology
3. Geological Information
4. Geotechnical Site Characterization
5. Geophysical Site Characterization
6. Site Response
7. References

1. GENERAL INFORMATION



Photo 1: Outside view of the hosting building

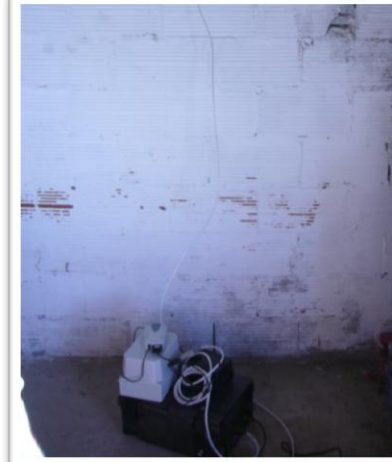


Photo 2: The PRS station

Station Code: PRS

Network: Euroseis

Instrumentation: Check the up-to-date EUROSEISTEST stations history file at <http://euroseisdb.civil.auth.gr/stations>

Power supply: AC

Housing: in a greenhouse close to Profitis village

2. GEOGRAPHICAL INFORMATION / GEOMORPHOLOGY



Figure 1: Location map of PRS station

Location: in the Mygdonian basin, close to Profitis village

Elevation (from sea level): 66 m

Station coordinates: 23.286038°E / 40.679617°N

Projection system: WGS84

Site morphology: Valley center (north part of the valley)

3. GEOLOGICAL INFORMATION

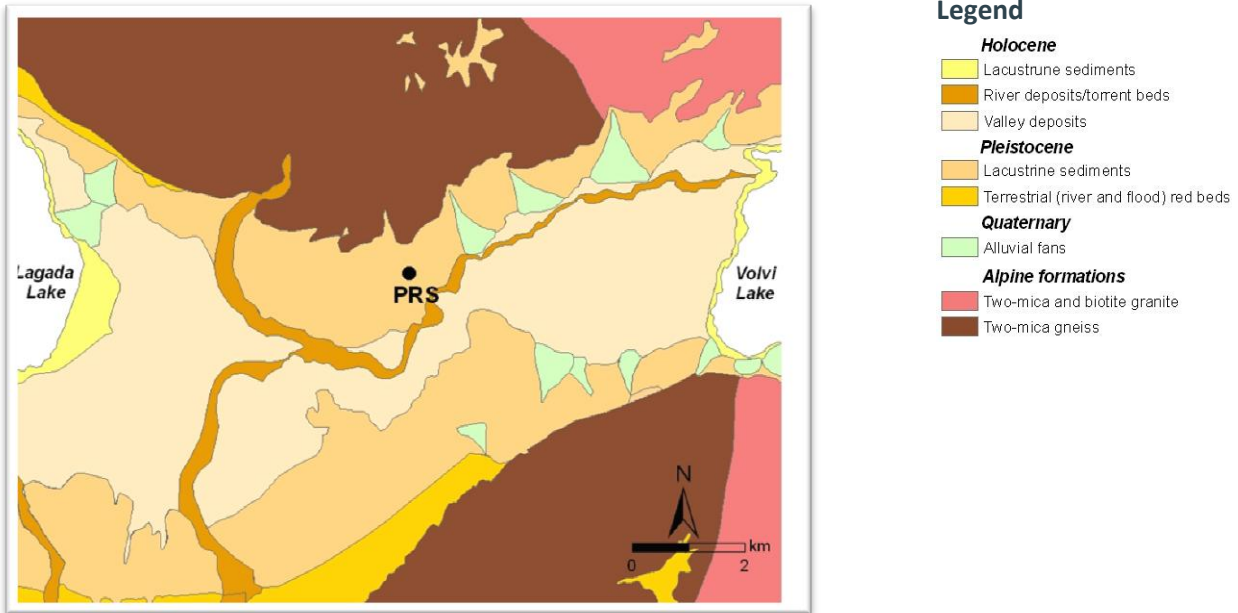


Figure 2: Geological map of the central Mygdonian basin

Surface geology (from geological map): on lacustrine sediments

Reference for geological map: Geological map of Greece - Scale 1:50000, Map Sheets of "Thermi" and "Zagliverion", (IGME, 1978)

Boreholes (with core description) in the proximity of the station: not known

4. GEOTECHNICAL SITE CHARACTERIZATION

No information.

5. GEOPHYSICAL SITE CHARACTERIZATION

Geophysical site characterization data for station PRS include:

1. Shear wave velocity values (V_s) / determined by Surface Wave Inversion method (Raptakis et al., 2000).
2. Compression wave velocity values (V_p) / determined by Surface Wave Inversion method (Raptakis et al., 2000).

Data are available in ascii format in:

http://euroseisdb.civil.auth.gr/uploads/station/geophysical/13/Site_characterization_geophysical_PRS.txt

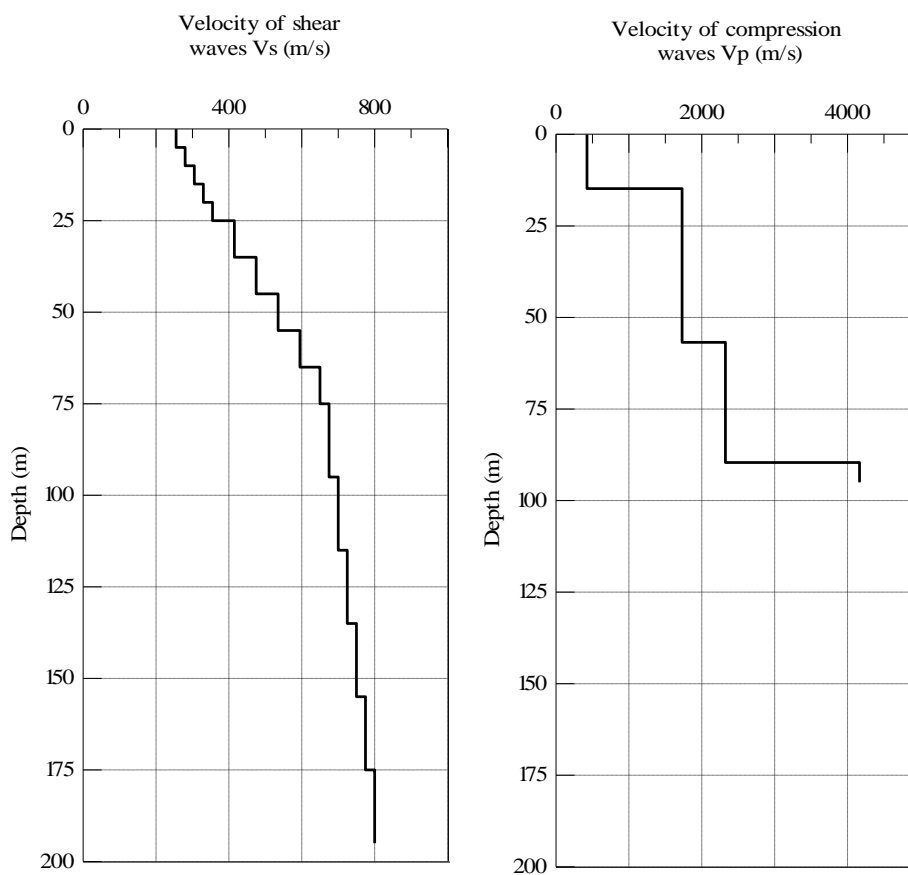


Figure 3: Shear and compression wave velocity values at station PRS.

6. SITE RESPONSE

Site response data for station PRS include:

1. Horizontal-to-vertical spectral ratios (HVSr) / applied on single station noise measurements (Raptakis et al., 2005)

Data are available in ascii format in:

http://euroseisdb.civil.auth.gr/uploads/station/response/13/Site_response_PRS.txt

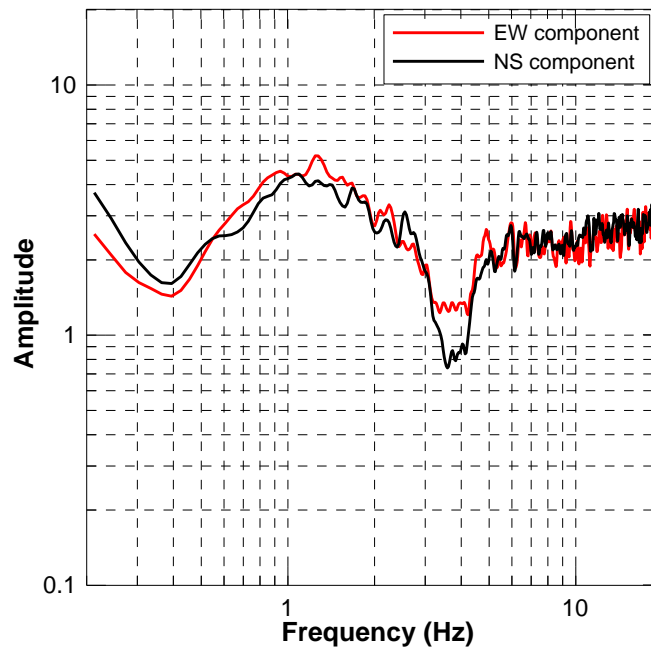


Figure 4: Horizontal-to-Vertical Spectral Ratios (HVSr) for the two horizontal components at station PRS. Ratios are based on single station noise measurements

7. REFERENCES

- IGME, 1978. Geological map of Greece - Scale 1:50.000. Map Sheets of "Thermi" and "Zagliverion".
- Raptakis D., F.J. Chávez-García, K. Makra and K. Pitilakis, 2000. Site effects at Euroseistest Part I. Determination of the valley structure and confrontation of observations with 1D analysis, *Soil Dynamics and Earthquake Engineering*, Vol. 19, pp. 1-22.
- Raptakis D., M. Manakou, F.-J. Chavez-Garcia, K. Makra and K. Pitilakis, 2005. 3D configuration of Mygdonian basin and preliminary estimate of its site response. *Soil Dynamics and Earthquake Engineering*, Vol. 25, pp. 871-887.