

## Station Description Sheet

# **SCH**

1. General Information
2. Geographical Information / Geomorphology
3. Geological Information
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## 1. GENERAL INFORMATION

**Station Code:** SCH

**Network:** Euroseis

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

**Power supply:** AC

**Housing:** in the Scholari town-hall building

## 2. GEOGRAPHICAL INFORMATION / GEOMORPHOLOGY



Figure 1: Location map of SCH station

**Location:** in the Mygdonian basin, in Scholari village

**Elevation (from sea level):** 90 m

**Station coordinates:** 23.258°E / 40.670°N

**Projection system:** WGS84

**Site morphology:** Valley center (west part of the valley)

3. GEOLOGICAL INFORMATION



Legend

- Holocene**
  - Yellow: Lacustrine sediments
  - Dark brown: River deposits/torrent beds
  - Light brown: Valley deposits
- Pleistocene**
  - Orange: Lacustrine sediments
  - Bright yellow: Terrestrial (river and flood) red beds
- Quaternary**
  - Light green: Alluvial fans
- Alpine formations**
  - Pink: Two-mica and biotite granite
  - Dark brown: Two-mica gneiss

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.

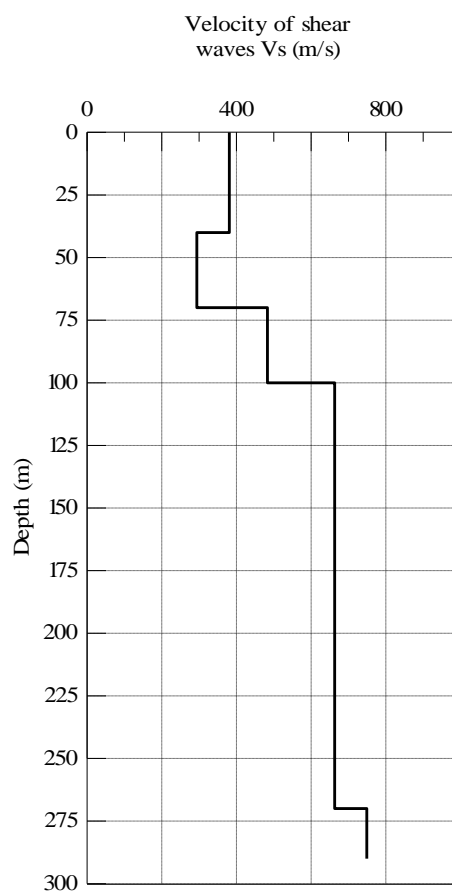
**5. GEOPHYSICAL SITE CHARACTERIZATION**

**Geophysical site characterization data for station SCH include:**

1. Shear wave velocity values ( $V_s$ ) / determined by array SPAC microtremor measurements (Manakou et al., 2010).

Data are available in ascii format in:

[http://euroseisdb.civil.auth.gr/uploads/station/geophysical/14/Site\\_characterization\\_geophysical\\_SCH.txt](http://euroseisdb.civil.auth.gr/uploads/station/geophysical/14/Site_characterization_geophysical_SCH.txt)



**Figure 3:** Shear wave velocity values close to station SCH

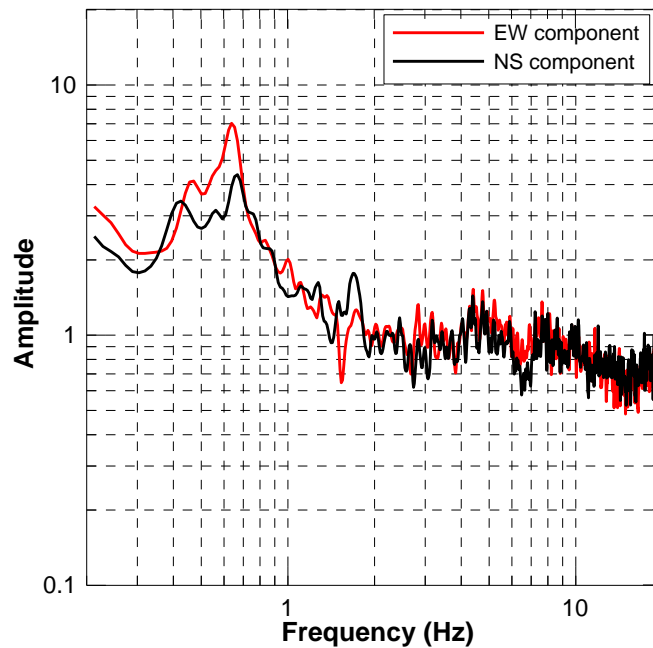
## 6. SITE RESPONSE

Site response data for station SCH include:

1. Horizontal-to-vertical spectral ratios (HVSr) / applied on array SPAC microtremor measurements (Manakou et al., 2010).

Data are available in ascii format in:

[http://euroseisdb.civil.auth.gr/uploads/station/response/14/Site\\_response\\_SCH.txt](http://euroseisdb.civil.auth.gr/uploads/station/response/14/Site_response_SCH.txt)



**Figure 4:** Horizontal-to-Vertical Spectral Ratios (HVSr) for the two horizontal components at station SCH. Ratios are based on array SPAC microtremor measurements

## 7. REFERENCES

- IGME, 1978. Geological map of Greece - Scale 1:50.000. Map Sheets of "Thermi" and "Zagliverion".
- Manakou M., D. Raptakis, F. J. Chavez-Garcia, P. Apostolidis and K. Pitilakis, 2010. 3D soil structure of the Mygdonian basin for site response analysis. *Soil Dynamics and Earthquake Engineering*, Vol. 30, pp. 1198-1211.