Station Description Sheet

# STC

## 1. GENERAL INFORMATION

**Photo 1:** Outside view of the hosting building

**Photo 2:** The STC station

**Station Code:** STC
**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 Stivos community building (basement)

## 2. GEOGRAPHICAL INFORMATION / GEOMORPHOLOGY


**Figure 1:** Location map of STC station

**Location:** in the Mygdonian basin, in Stivos village
**Elevation (from sea level):** 156 m
**Station coordinates:** 23.304856$^0$E / 40.648650$^0$N
**Projection system:** WGS84
**Site morphology**: Valley edge (south edge of the valley)

## 3. GEOLOGICAL INFORMATION

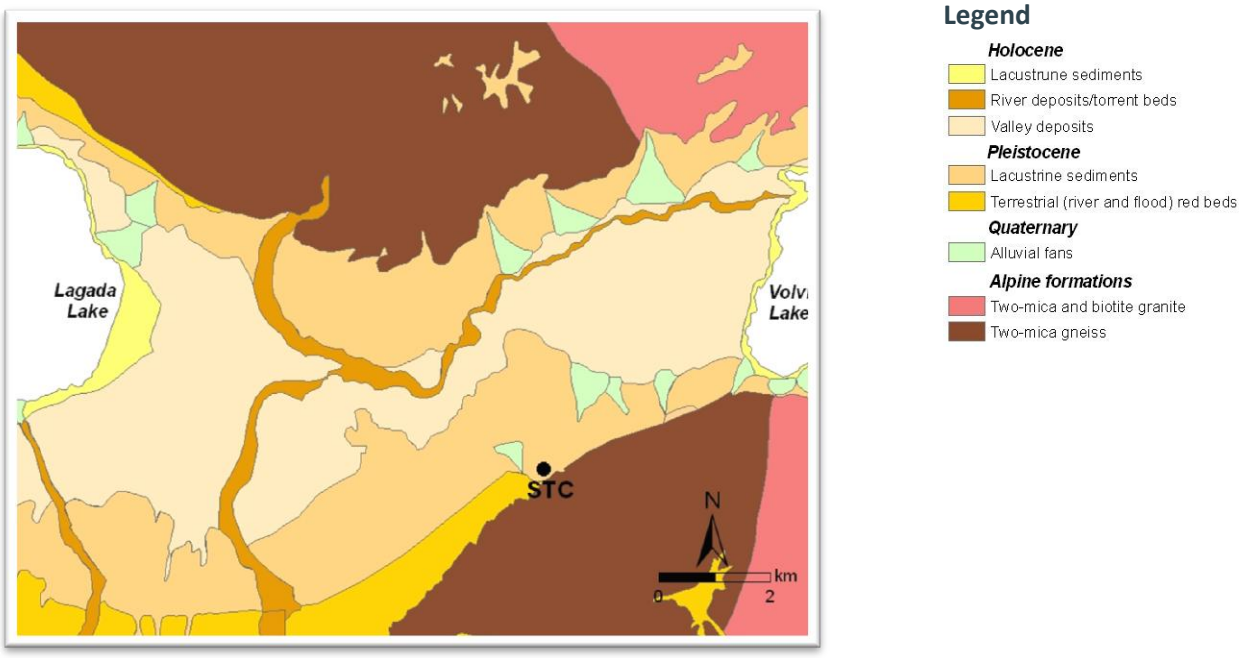


**Figure 2:** Geological map of the central Mygdonian basin

**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

No information.

## 6. SITE RESPONSE

**Site response data for station STC include:**

1. Standard Spectral Ratio technique (SSR) / applied on the whole part of earthquakes recorded in the permanent station GRA (Raptakis et al., 1998).

Data are available in ascii format in:
http://euroseisdb.civil.auth.gr/uploads/station/response/15/Site_response_STC.txt

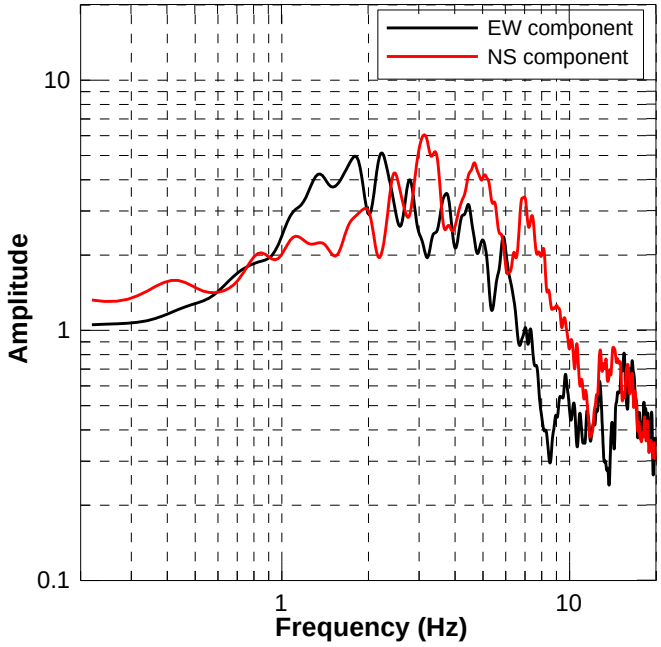


**Figure 3:** Standard Spectral Ratios (SSR) for the two horizontal components at station STC. Ratios are based on the whole part of earthquakes recorded in the permanent station STC

## 7. REFERENCES

IGME, 1978. Geological map of Greece - Scale 1:50.000. Map Sheets of "Thermi" and "Zagliverion".

Raptakis D, Theodulidis N, Pitilakis K., 1998. Data Analysis of the EURO-SEISTEST Strong Motion Array in Volvi (Greece): Standard and Horizontal-to-Vertical Spectral Ratio Techniques. Earthquake Spectra, Vol. 14(1), pp. 203-223.