

Station Description Sheet **BUT**

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1. GENERAL INFORMATION



Photo 1: Outside view of the hosting building



Photo 2: Inside of the BUT installation box

Station Code: BUT Network: Euroseis Instrumentation: Check the up-to-date EUROSEISTEST stations history file at http://euroseisdb.civil.auth.gr/stations Power supply: Solar panel & external battery

Housing: in a 1-storey structure (abandoned coffee house) in Stivos village

2. GEOGRAPHICAL INFORMATION / GEOMORPHOLOGY



Figure 1: Location map of BUT station

Location: in the Mygdonian basin, in Stivos village Elevation (from sea level): 118 m Station coordinates: 23.300668°E / 40.652694°N Projection system: WGS84 Site morphology: Valley edge (south edge)



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3. GEOLOGICAL INFORMATION



Figure 2: Geological map of the central Mygdonian basin

Surface geology (from geological map): on Quaternary alluvial fans

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

Geotechnical site characterization data for station BUT include:

1. Cone penetration test (EUROSEISRISK project reports, 2002 – 2005).

Data are available in ascii format in:

http://euroseisdb.civil.auth.gr/uploads/station/geotechnical/ 2/Site_characterization_geotechnical_BUT.txt



5. GEOPHYSICAL SITE CHARACTERIZATION

No available data.







6. SITE RESPONSE

Site response data for station BUT include:

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/2/Site_response_BUT.txt





7. REFERENCES

EUROSEISRISK Project Reports, 2002–2005. (Available in PDF upon request)

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

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.



