





### Station Code

## **MZ87**

### **Recording Station**

Spelonga Chiesa

### Network

Temporary network

First compilation Last update

	Year	Month	Day
1	2016	10	01
•	1970	01	01

## **General Information**



Station photograph

Code

MZ87

Owner

CRS Centro di Ricerche Sismologiche, OGS

Housing

Instrumentation

## Geographical Information (1/2)

#### Location

Region MARCHE

Province Ascoli Piceno

City ARQUATA DEL TRONTO

ISTAT Code 044006

Notes



Location map (Italy and Region)

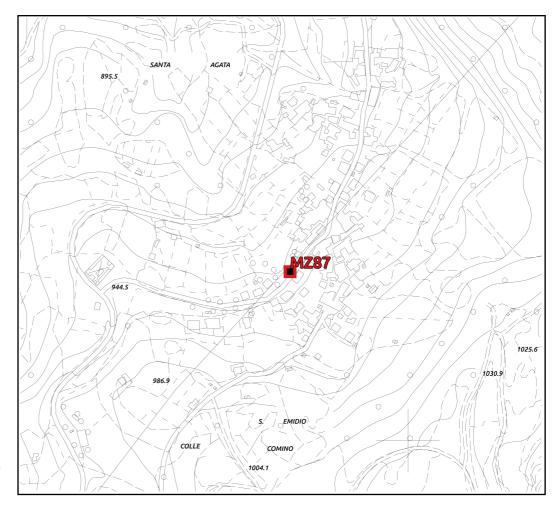
# Geographical Information (2/2)

#### Coordinates

	Latitude	Longitude
Geographic (WGS84)	42.757200	13.299000
Elevation (m a.s.l.)	952	

### Cartography

		Scale	Code
Topographic map (I.G.M.I.)	1:25.000		null null
		Scale	Element number
Regional technical map (C.T.R.)			



I.G.M.I. or C.T.R. map

# Geomorphology

### Site morphology

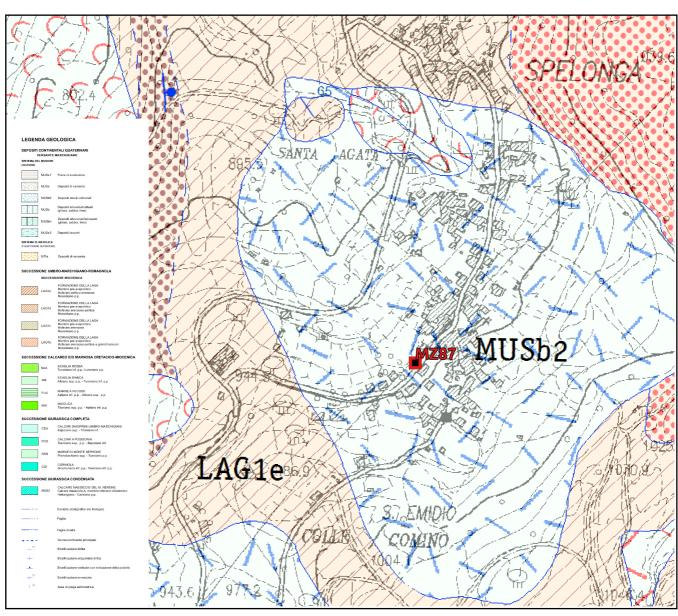
Plain	Valley (centre)	Valley (edge)	Alluvial fan
Saddle	Slope	Edge of scarp	Ridge

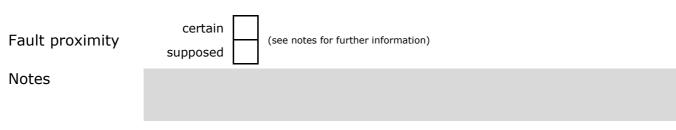
Landslides				
Not present				
Present	Active or quiescent	Distance (m)		
	Inactive or stabilized			
	Image	not available		
I.F.F.I. map				
Notes				
Notes				

## Geology

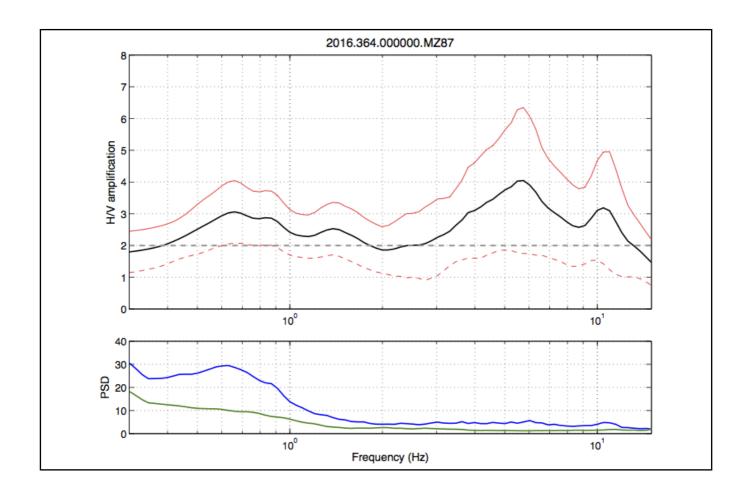
#### Cartography







## Microtremor H/V spectral ratio



### Site classification (EC8 - NTC2008)

#### Lithostratigraphic classification

#### **Estimated**

Method <sup>1</sup>	Soil class <sup>2</sup>	Notes

1 GEO Geological data
Legend EC Empirical correlation
HV H/V spectral ratio

#### Based on in-situ measurements

	Method <sup>3</sup>	V <sub>s30</sub> (m/s)		Soi	l class <sup>2</sup>
2 Legend A	weaker material at the surface	gical formation, including at most 5 m of $(V_{s30}>800 \text{ m/s})$ .	3 Legend	СН	Cross-Hole

Deposits of very dense sand, gravel, or very stiff clay, at least several tens of m in thickness, characterized by a gradual increase of mechanical properties with depth ( $V_{s30}$ =360-800 m/s).

Deep deposits of dense or medium dense sand, gravel or stiff clay with

thickness from several tens to many hundreds of m ( $V_{s30}$ =180-360 m/s). Deposits of loose-to-medium cohesionless soil (with or without some soft cohesive layers), or of predominantly soft-to-firm cohesive soil ( $V_{s30}$ <180

A soil profile consisting of a surface alluvium layer with  $V_s$  values of type C or D and thickness varying between about 5 m and 20 m, underlain by stiffer material with  $V_s > 800$  m/s.

3 Legend	СН	Cross-Hole
	DH	Down-Hole
	ES	ESAC
	FK	FK
	MW	MASW
	NW	NASW
	SH	SH-Refraction
	SW	SASW

### Topography classification

Topography category4

4 Legend T1 Flat surface, isolated slopes and cliffs with average slope angle i≤15°.

T2 Slopes with average slope angle i>15°.

T3 Ridges with crest width significantly less than the base width and average slope angle 15°≤i≤30°.

T4 Ridges with crest width significantly less than the base width and average slope angle i>30°.

# Synthesis of information

Information relevant to site classification	Notes		
V <sub>s30</sub> (m/s)			
Average N <sub>SPT</sub> to 30m			
Average c <sub>U</sub> to 30m (kPa)			
Site class (EC8 - NTC2008)			
Topography category (EC8 – NTC2008)			
Geological, geomorphological and geome	chanical information		
Lithology			
Morphology			
Rock mass			
Other information relevant to seismic site response			
Depth to bedrock (m)			
Average V <sub>s</sub> to bedrock (m/s)			
f <sub>0</sub> from H/V microtremors (Hz)			
f <sub>0</sub> from H/V earthquakes (Hz)			
Distinctive features of site response			