

## Station Code

MZ81

## Recording Station

Spelonga

## Network

Temporary network

**First compilation**

**Last update**

Year	Month	Day
2016	10	01
1970	01	01

# General Information

Station  
photograph



Code

MZ81

Owner

CRS Centro di Ricerche Sismologiche, OGS

Housing

Instrumentation

# Geographical Information (1/2)

## *Location*

Region	MARCHE
Province	Ascoli Piceno
City	ARQUATA DEL TRONTO
Place / Address	Arquata del Tronto, Frazione Spelonga
ISTAT Code	044006
Notes	



Location map  
(Italy and Region)

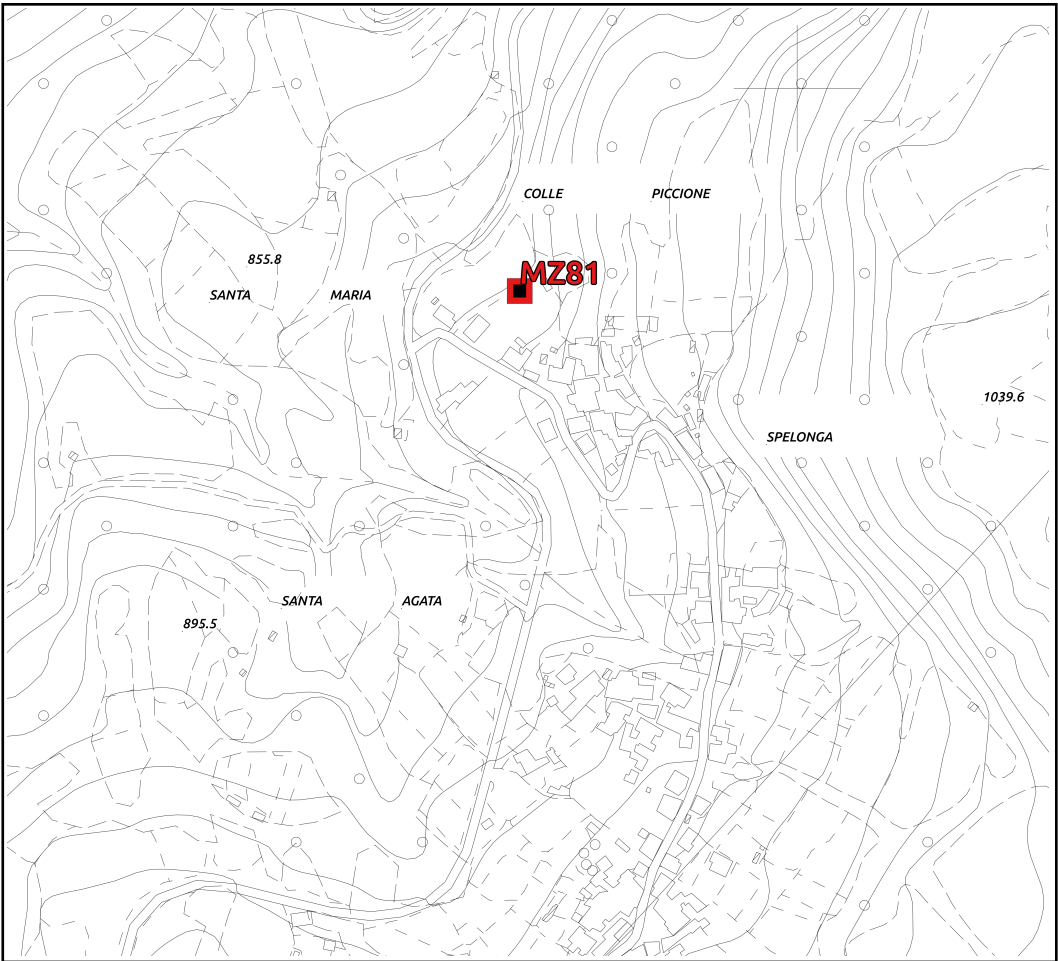
# Geographical Information (2/2)

## Coordinates

	Latitude	Longitude
Geographic (WGS84)	42.762345	13.298455
Elevation (m a.s.l.)	902	

## Cartography

	Scale	Code
Topographic map (I.G.M.I.)	1:25.000	null 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

☐

Inactive or stabilized

Distance (m)

Image not available

I.F.F.I. map

Notes



# Geology

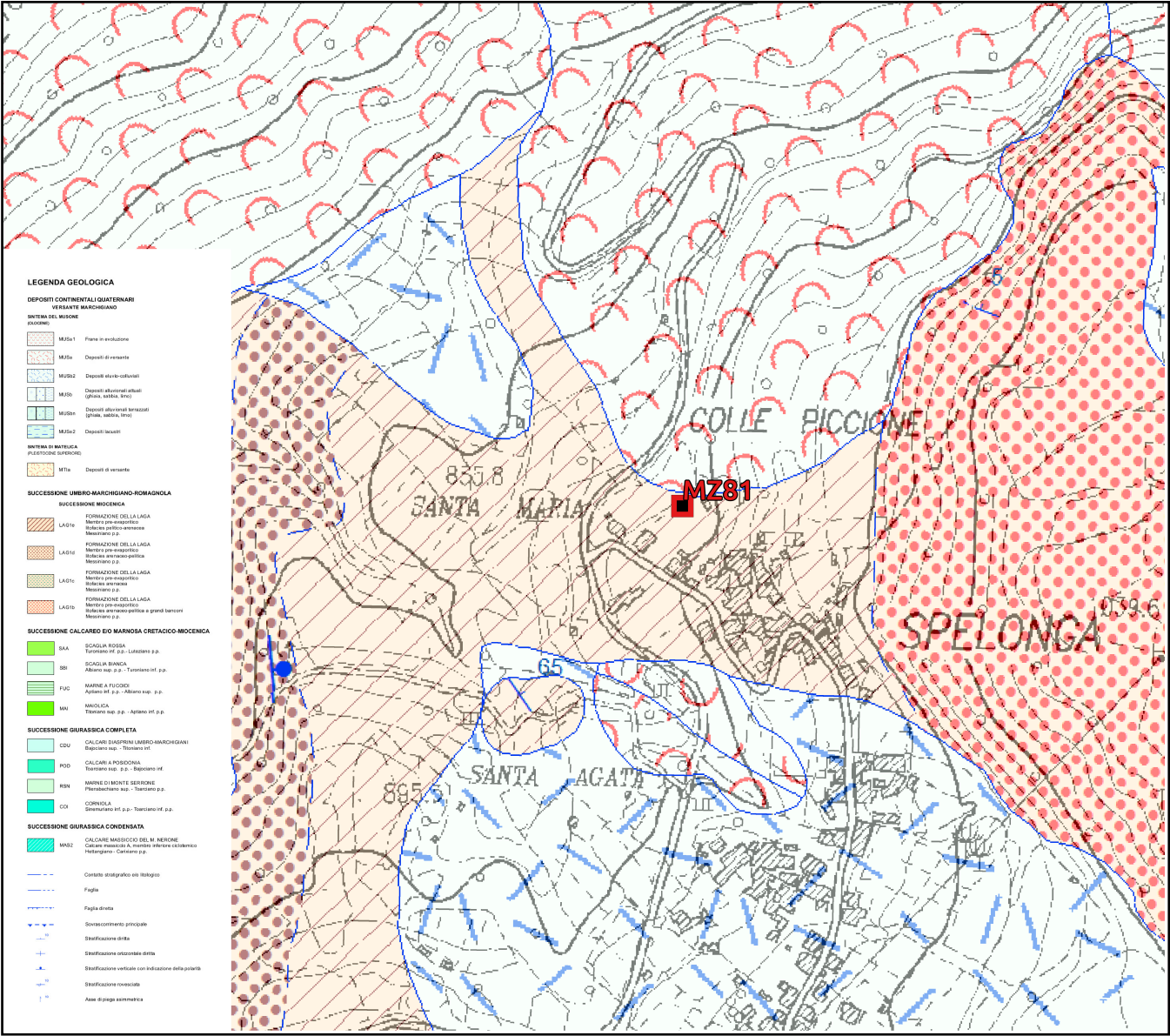
## Cartography

Scale

Sheet number

Sheet name

Geological map



Fault proximity

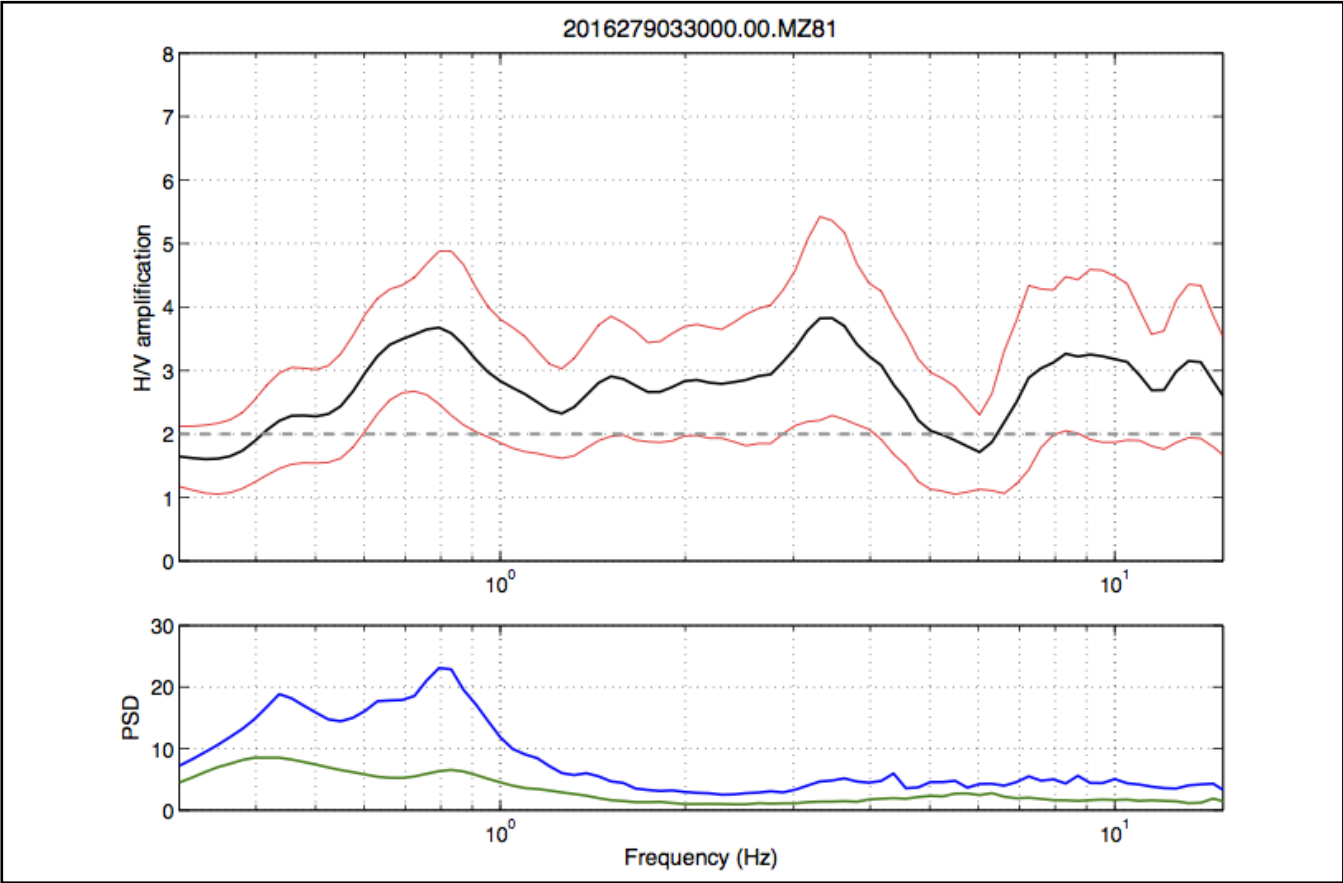
certain  
supposed



(see notes for further information)

Notes

# Microtremor H/V spectral ratio



$f_0$  (mt) (Hz)

# 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>	$V_{s30}$ (m/s)	Soil class <sup>2</sup>

2	A	Rock or other rock-like geological formation, including at most 5 m of weaker material at the surface ( $V_{s30} > 800$ m/s).
Legend	B	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).
	C	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).
	D	Deposits of loose-to-medium cohesionless soil (with or without some soft cohesive layers), or of predominantly soft-to-firm cohesive soil ( $V_{s30} < 180$ m/s).
	E	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	CH	Cross-Hole
Legend	DH	Down-Hole
	ES	ESAC
	FK	FK
	MW	MASW
	NW	NASW
	SH	SH-Refraction
	SW	SASW
	—	—

## Topography classification

Topography category <sup>4</sup>

4	T1	Flat surface, isolated slopes and cliffs with average slope angle $i \leq 15^\circ$ .
Legend	T2	Slopes with average slope angle $i > 15^\circ$ .
	T3	Ridges with crest width significantly less than the base width and average slope angle $15^\circ \leq i \leq 30^\circ$ .
	T4	Ridges with crest width significantly less than the base width and average slope angle $i > 30^\circ$ .



# Synthesis of information

## *Information relevant to site classification*

## Notes

$V_{s30}$ (m/s)		
Average $N_{SPT}$ to 30m		
Average $c_u$ to 30m (kPa)		
Site class (EC8 – NTC2008)		
Topography category (EC8 – NTC2008)		

## *Geological, geomorphological and geomechanical information*

Lithology		
Morphology		
Rock mass		

## *Other information relevant to seismic site response*

Depth to bedrock (m)		
Average $V_s$ to bedrock (m/s)		
$f_0$ from H/V microtremors (Hz)		
$f_0$ from H/V earthquakes (Hz)		

## *Distinctive features of site response*

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