

Station Code

MZ83

Recording Station

Capodacqua

Network

Temporary network

First compilation

Last update

Year	Month	Day
2016	10	01
1970	01	01

General Information

Station
photograph



Code

MZ83

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 Capodacqua
ISTAT Code	044006
Notes	



Location map
(Italy and Region)

Geographical Information (2 / 2)

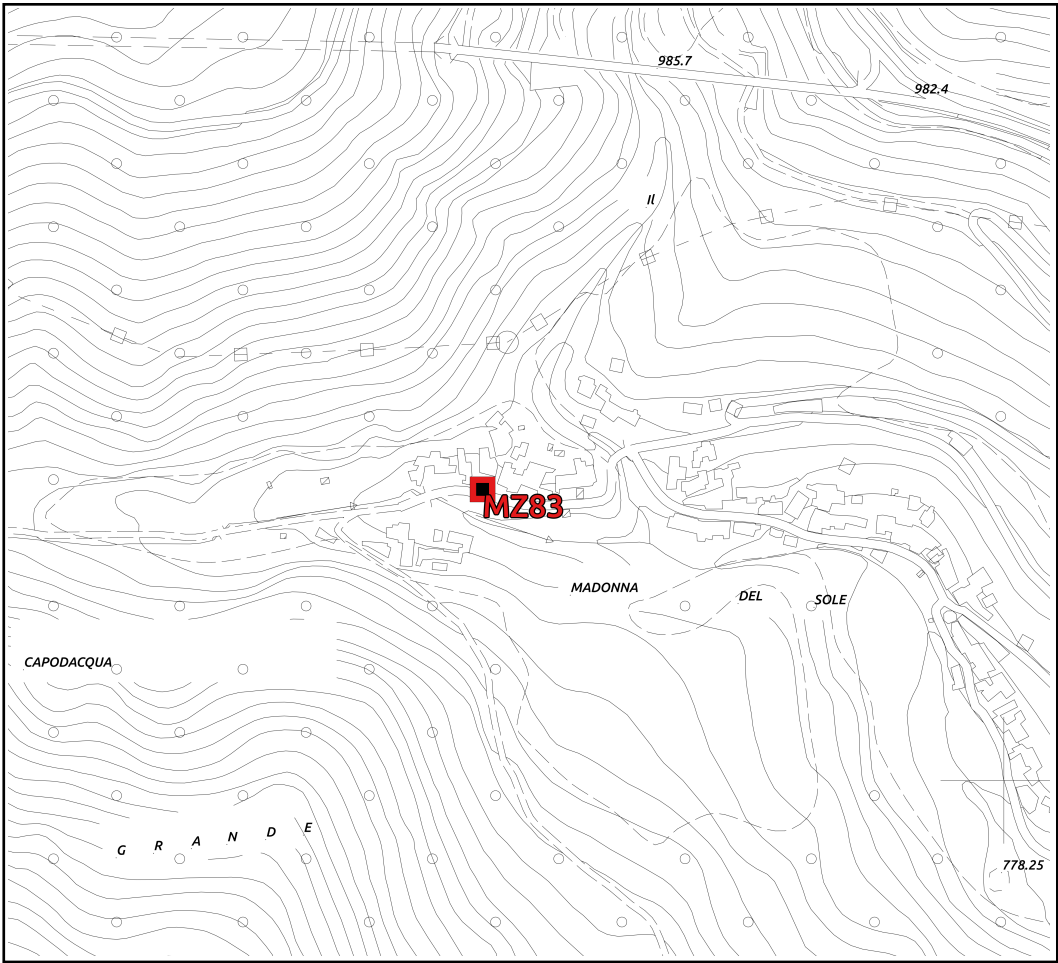
Coordinates

	Latitude	Longitude
Geographic (WGS84)	42.737894	13.235684
Elevation (m a.s.l.)	887	

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

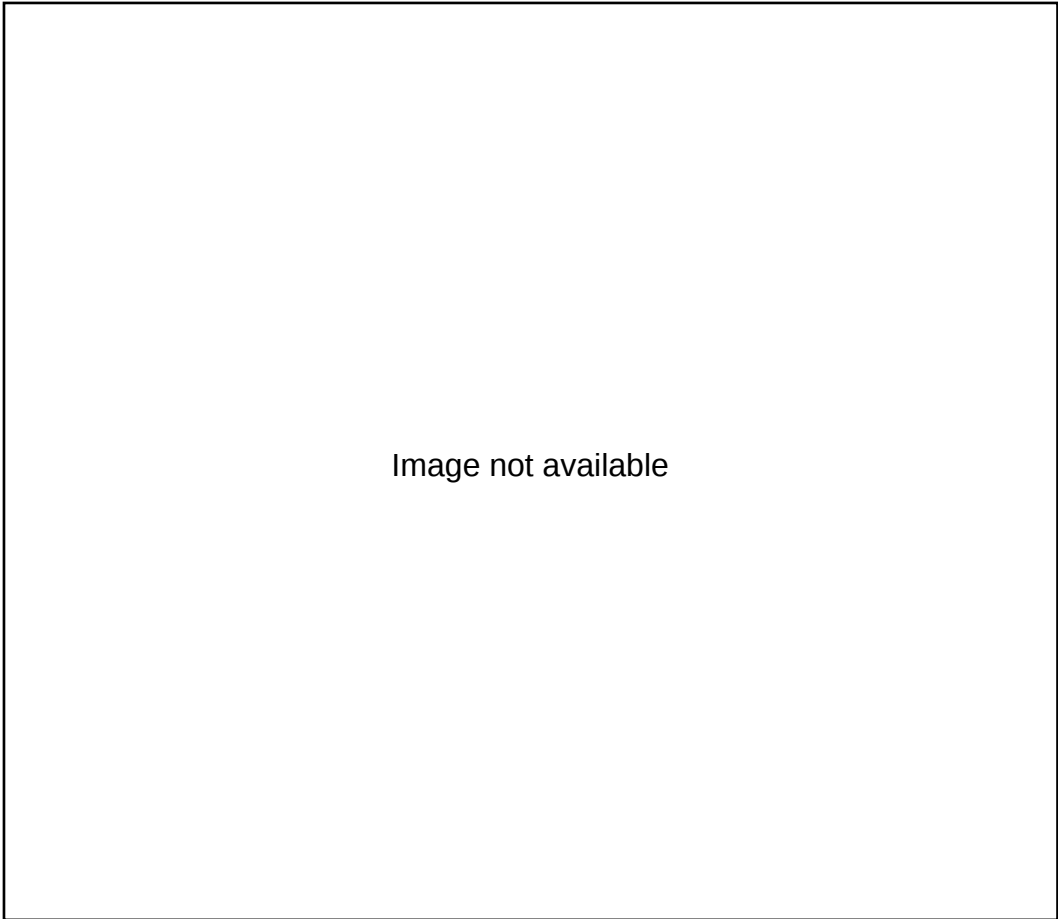
☐

Active or quiescent

☐

Inactive or stabilized

Distance (m)



I.F.F.I. map

Notes

Geology

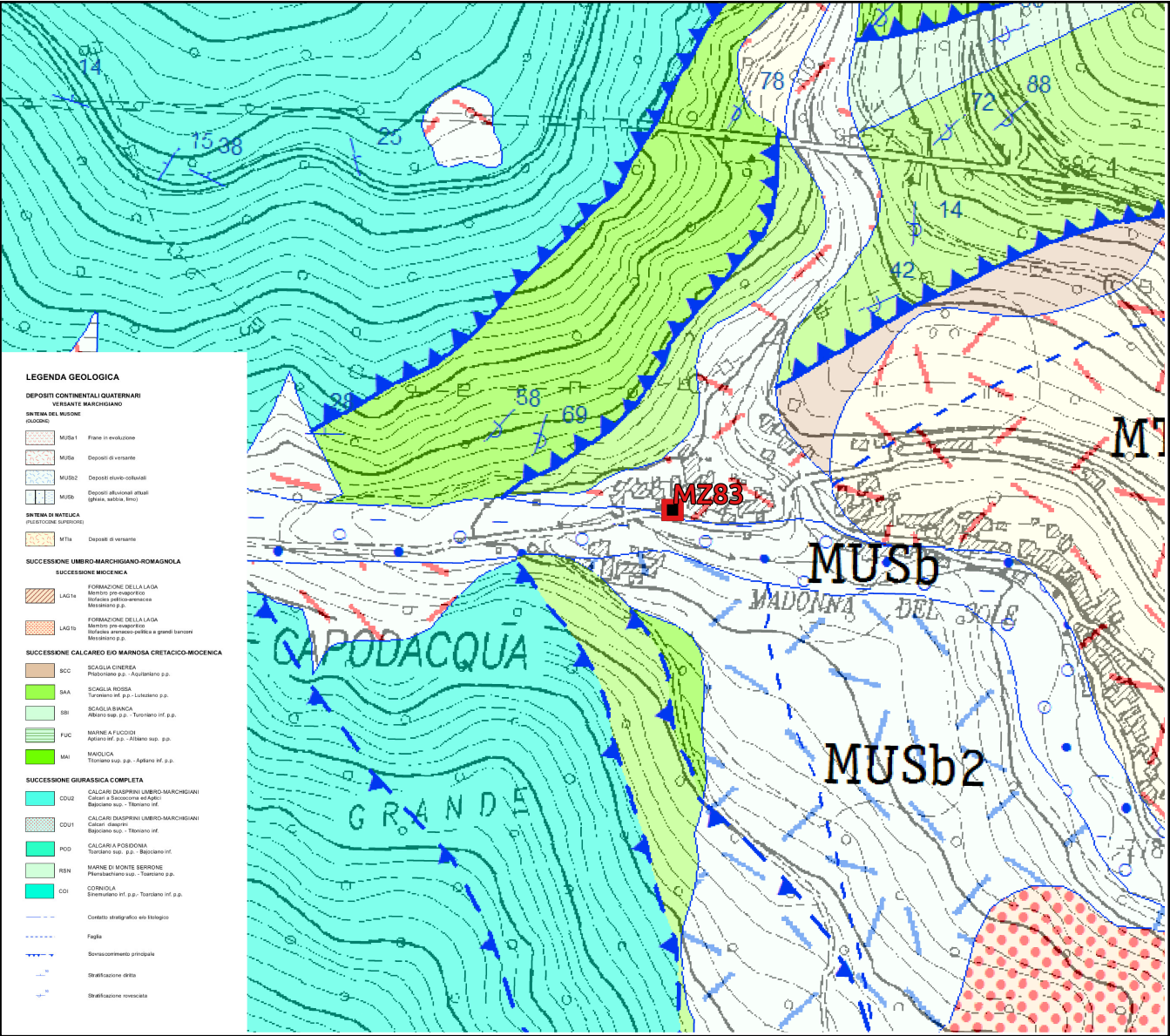
Cartography

Scale

Sheet number

Sheet name

Geological map



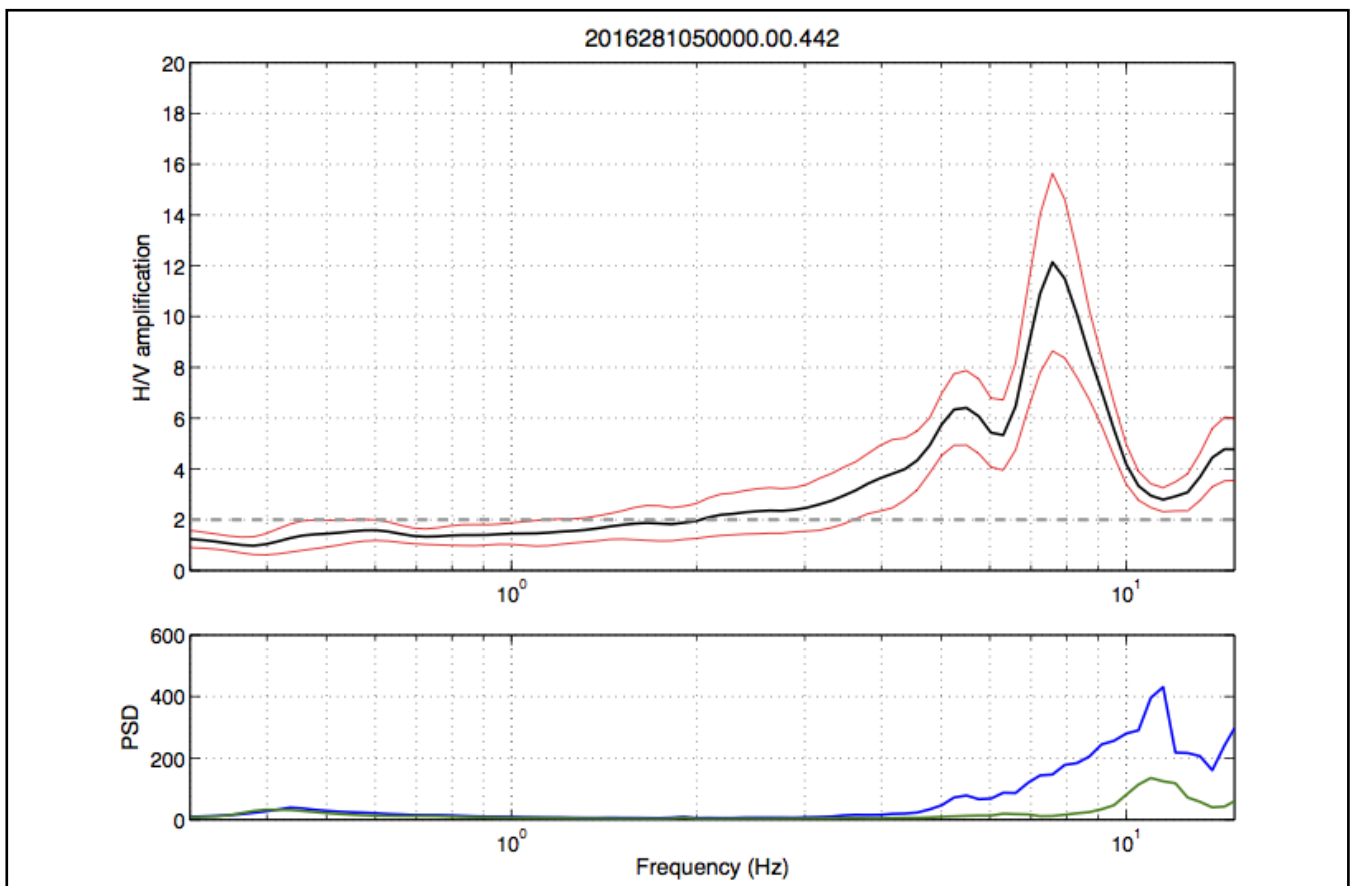
Fault proximity

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 ¹	Soil class ²	Notes

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

Based on in-situ measurements

Method ³	V_{s30} (m/s)	Soil class ²

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 ($V_{s30} = 360\text{--}800$ 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 ($V_{s30} = 180\text{--}360$ 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 ⁴

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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