ISTITUTO NAZIONALE DI OCEANOGRAFIA E DI GEOFISICA SPERIMENTALE



Ministero dell'Istruzione, dell'Università e della Ricerca
PRIN - Progetti di Ricerca di Interesse Nazionale

Station Code

MZ77

Recording Station

Balzo

Network

Temporary network

	Year	Month	Day
First compilation	2016	10	01
Last update	1970	01	01

General Information

Station photograph	
Code	MZ77
Owner	CRS Centro di Ricerche Sismologiche, OGS
Housing	
Instrumentation	

Geographical Information (1/2)

Location

Region	MARCHE
Province	Ascoli Piceno
City	MONTEGALLO
Place / Address	Montegallo, Frazione Balzo. Municipio
ISTAT Code	044038
Notes	

Location map
(Italy and Region)



Geographical Information (2/2)

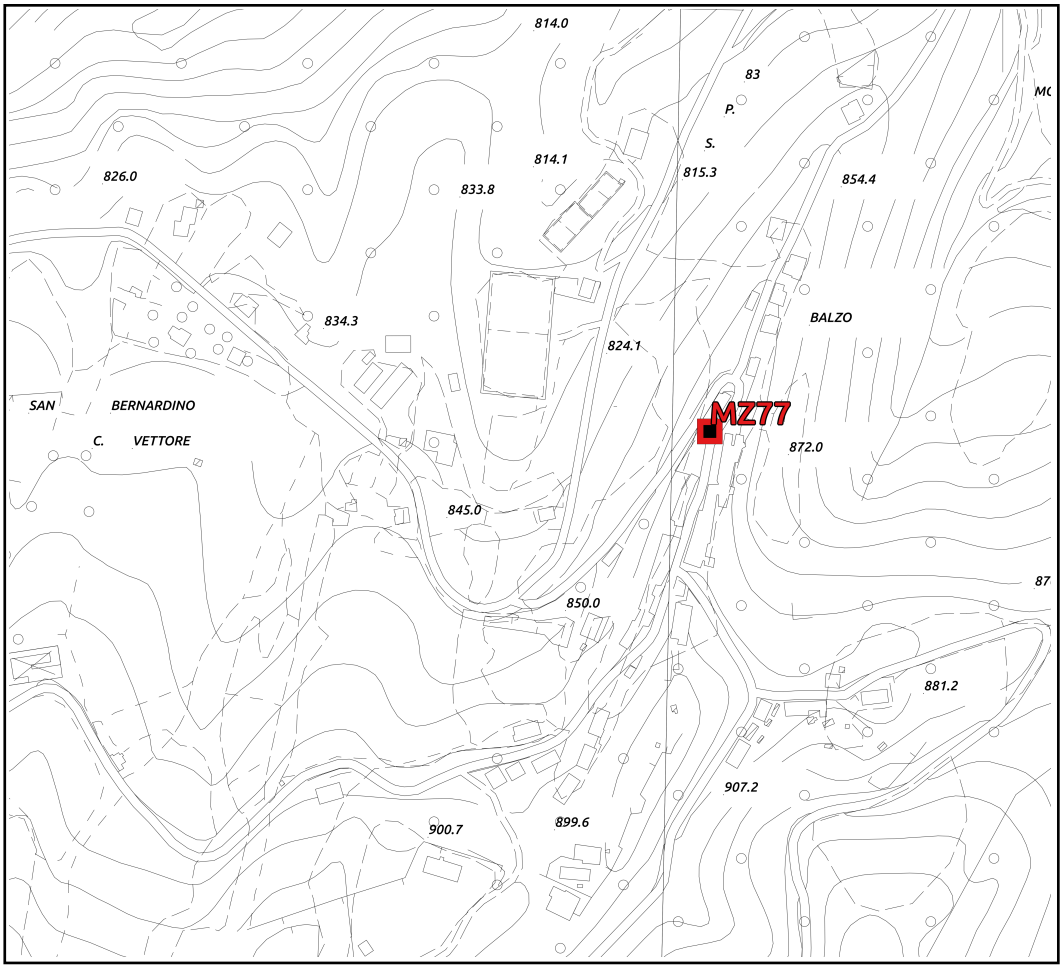
Coordinates

	Latitude	Longitude
Geographic (WGS84)	42.842327	13.332820
Elevation (m a.s.l.)	942	

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

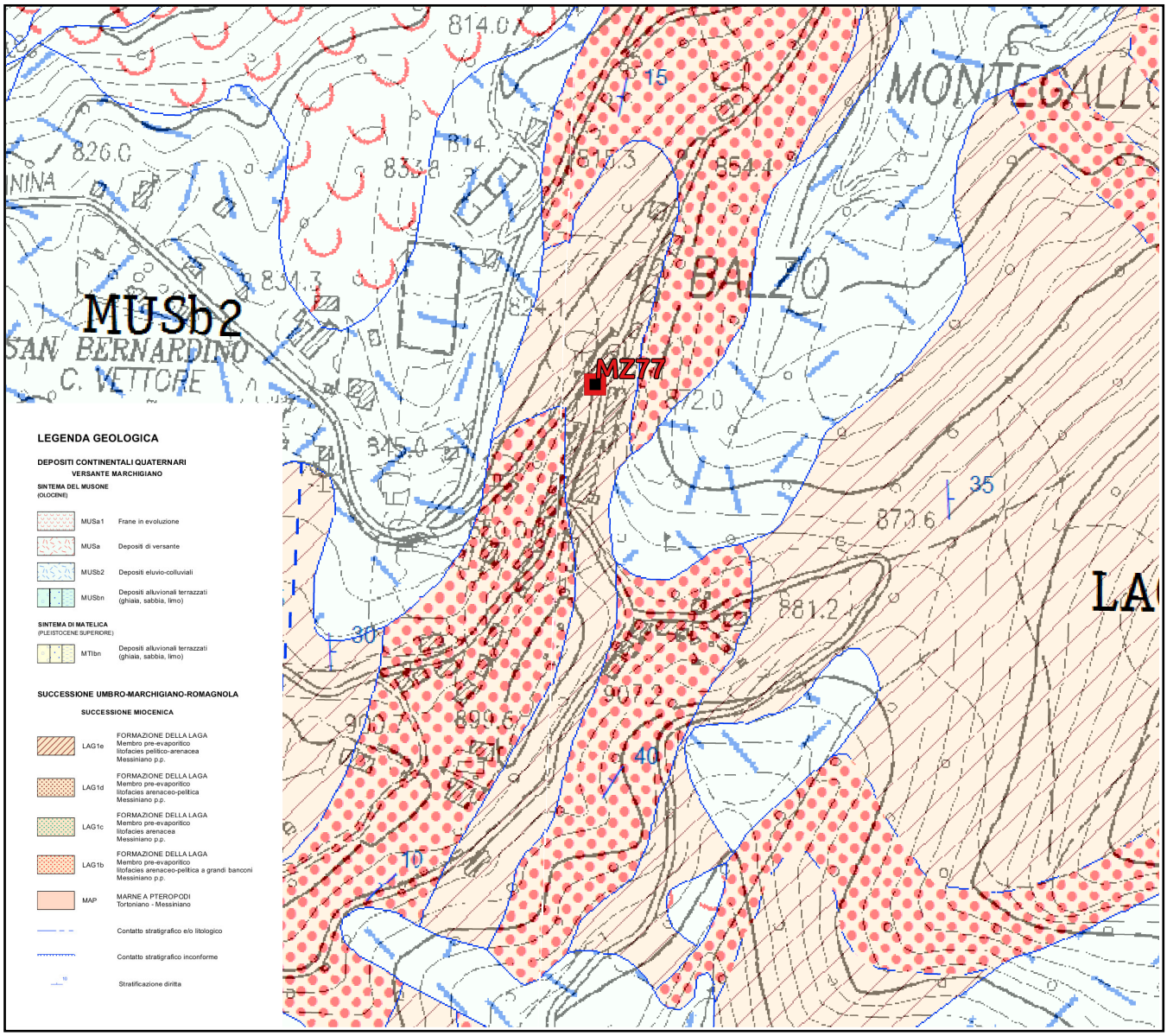
Image not available

Notes

Geology

Cartography

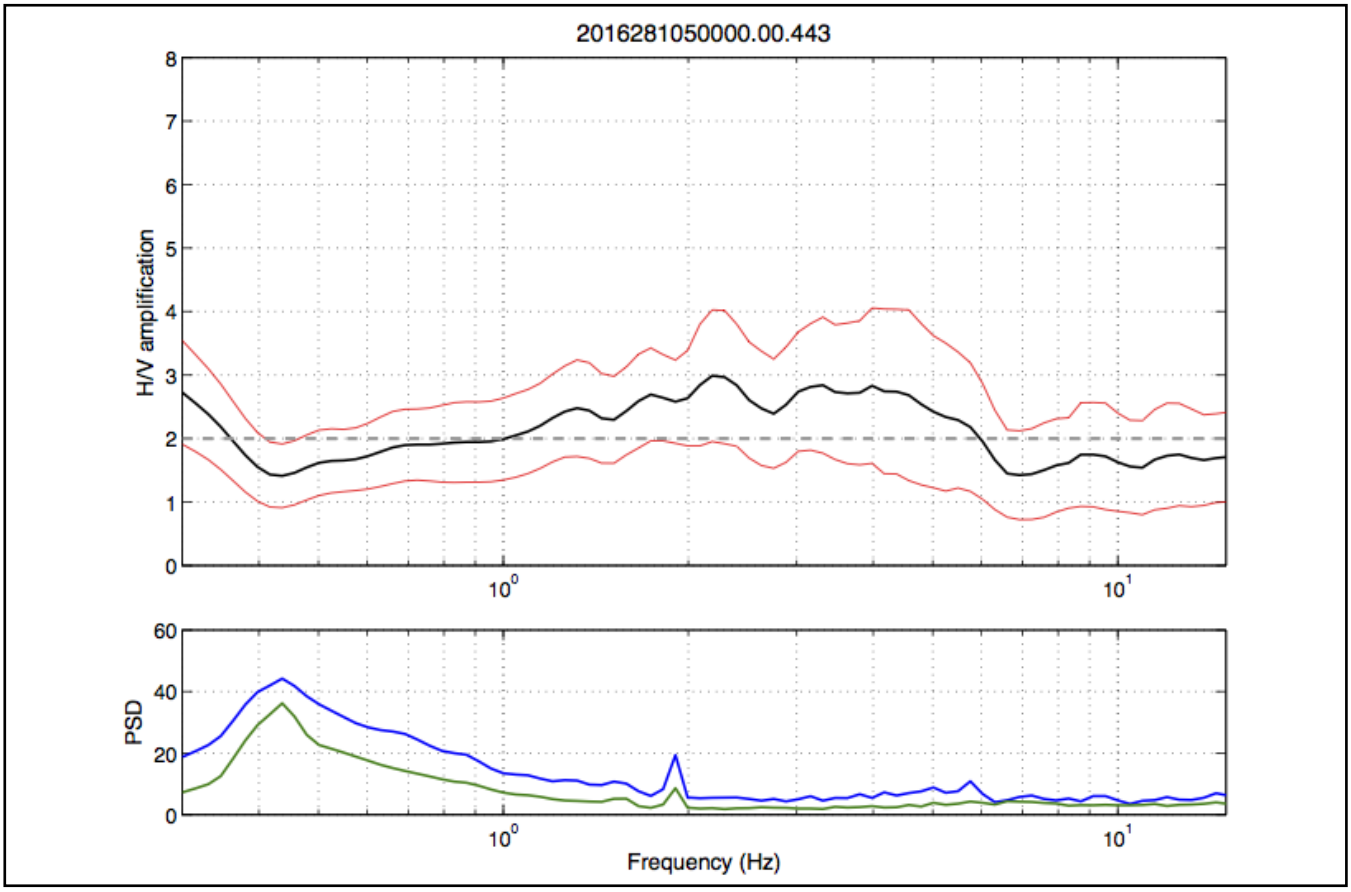
	Scale	Sheet number	Sheet name
Geological map			



Fault proximity	certain	☐	(see notes for further information)
	supposed	☐	

Notes

Microtremor H/V spectral ratio



$f_{0\ (mt)}$ (Hz)

Site classification (EC8 – NTC2008)

Lithostratigraphic classification

Estimated

Method[1]	Soil class[2]	Notes

1 Legend

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

Based on in-situ measurements

Method[3]	V_{s30} (m/s)	Soil class[2]

2 Legend

A	Rock or other rock-like geological formation, including at most 5 m of weaker material at the surface (V_{s30}>800 m/s).
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 Legend

CH	Cross-Hole
DH	Down-Hole
ES	ESAC
FK	FK
MW	MASW
NW	NASW
SH	SH-Refraction
SW	SASW
___	_____

Topography classification

Topography category[4]

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_{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		