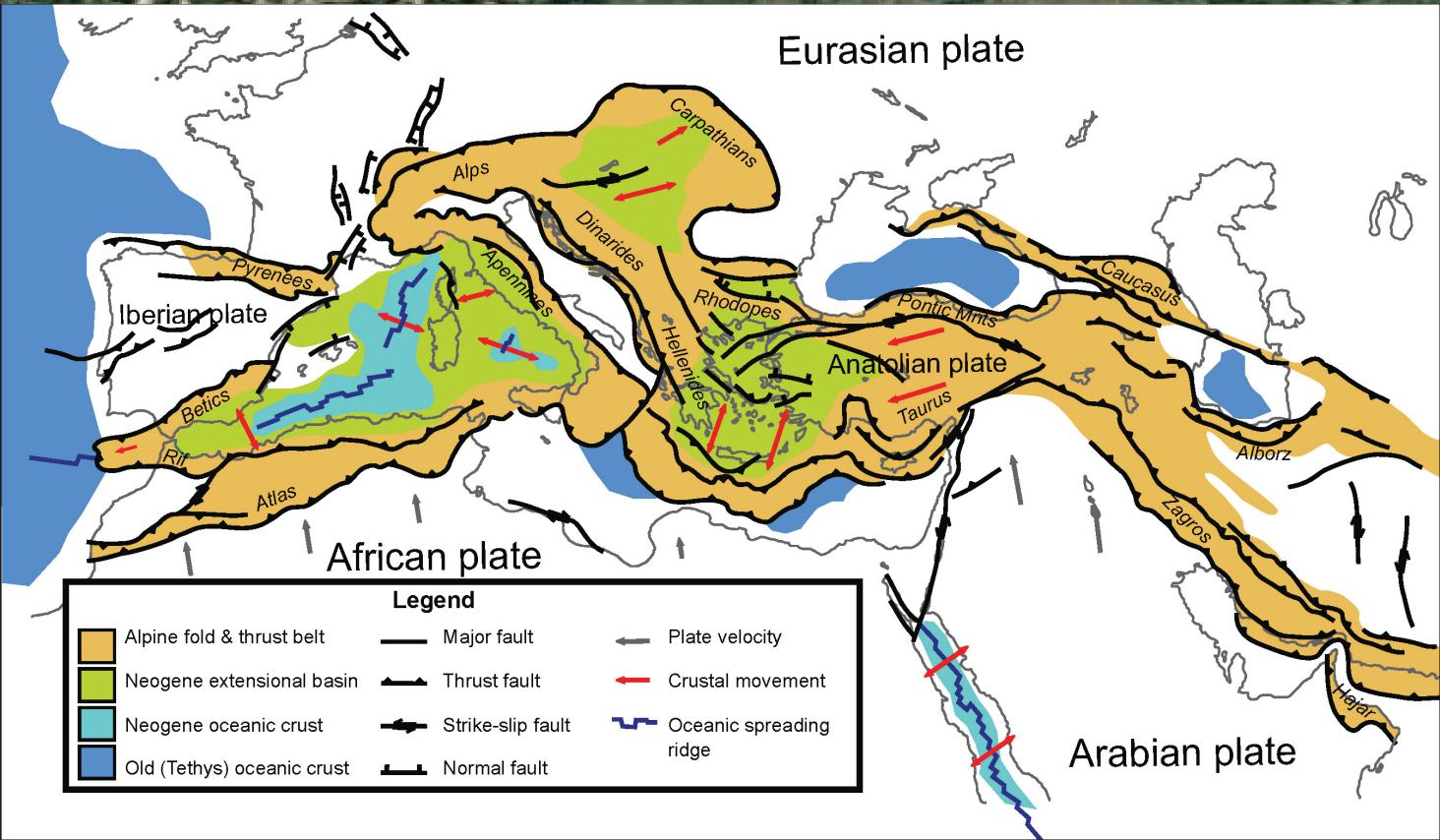
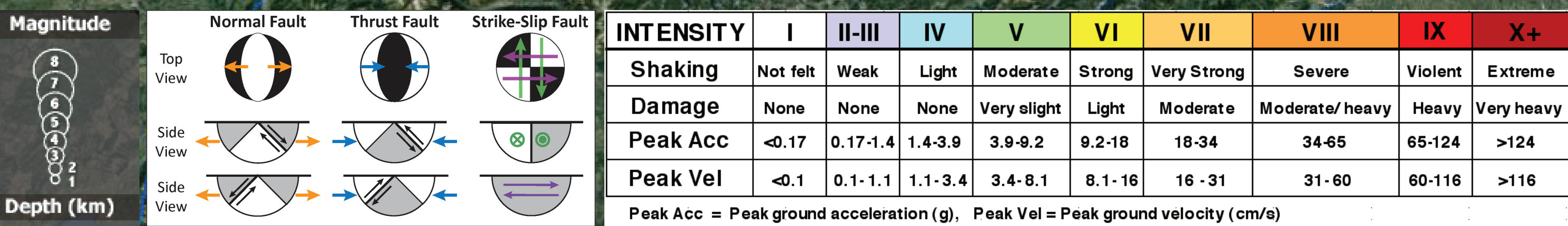
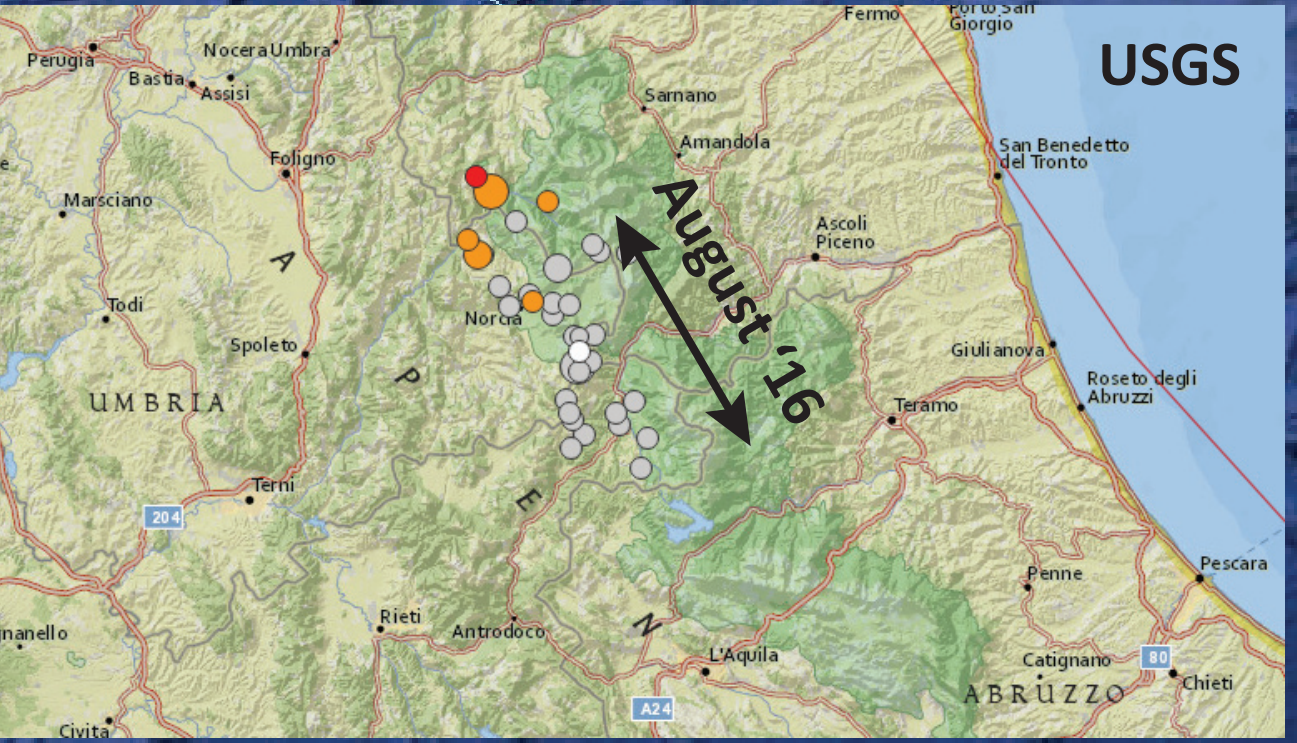
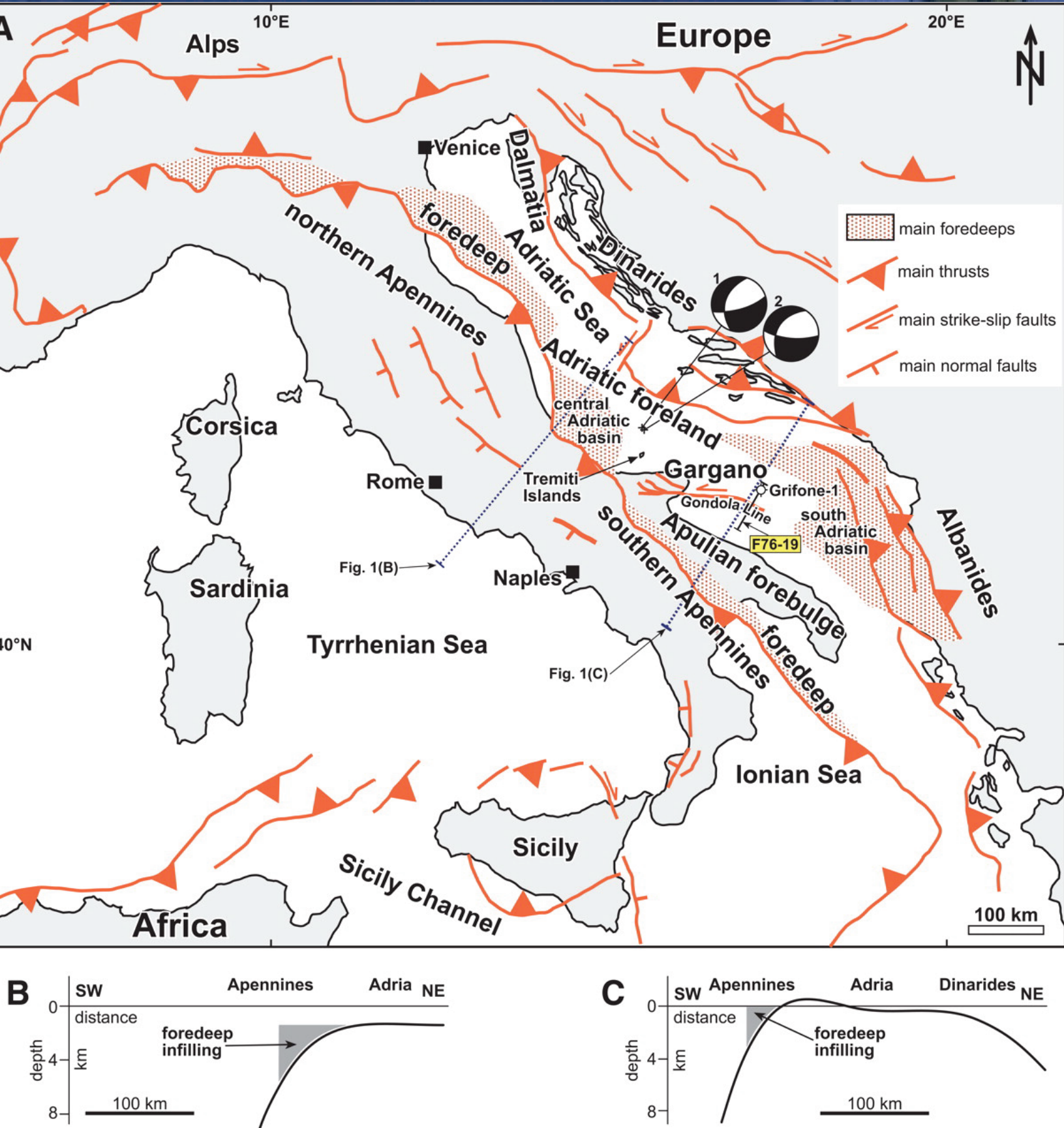


Earthquake Report: 2016.10.26 M 6.1 Italy



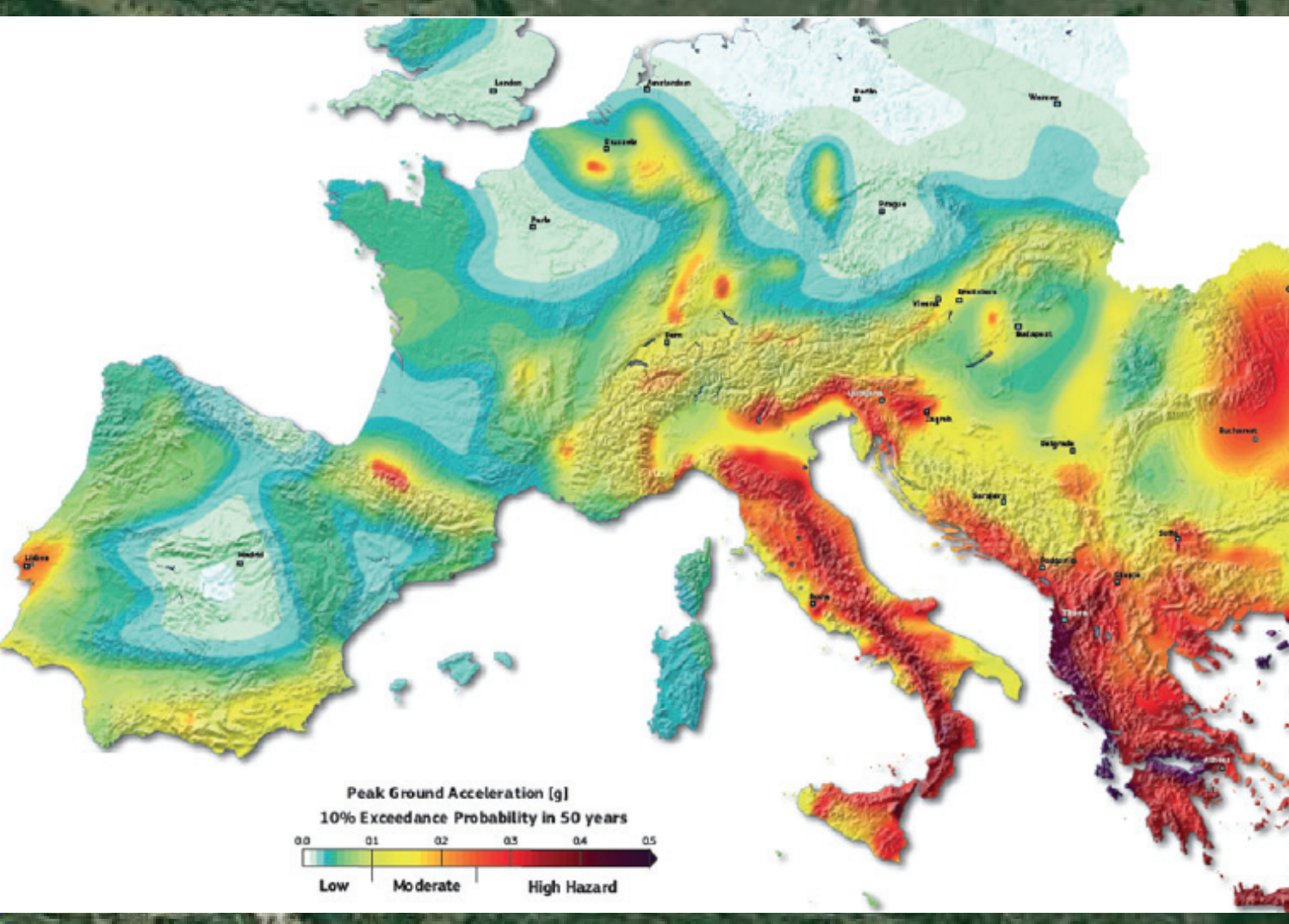
Woudloper, 2009

Billi et al., 2006



2016.10.26
M 6.1

2016.10.26
M 5.5



Giardini et al., 2013

USGS

science for a changing world

Earthquake Shaking

Red Alert

M 6.1, CENTRAL ITALY

Origin Time: Wed 2016-10-26 19:18:08 UTC (20:18:08 local)

Location: 42.93°N 13.04°E Depth: 10 km

Created: 3 hours, 57 minutes after earthquake

Estimated Fatalities

Red alert level for economic losses. Extensive damage is probable and the disaster is likely widespread. Estimated economic losses are less than 1% of GDP of Italy. Past events with this alert level have required a national or international level response.

Orange alert level for shaking-related fatalities. Significant casualties are likely.

Estimated Economic Losses

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are unreinforced brick with mud and mid-rise nonductile concrete frame with infill construction.

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)	--	1,594k*	9,481k*	10,457k	2,142k	506k	21k	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures: none	Resistant Structures: none	Resistant Structures: none	V. Light	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy
	Vulnerable Structures: none	Vulnerable Structures: none	Vulnerable Structures: none	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per ~1 sq. km from Landsat

0 5 50 100 500 1000 5000 10000

11°E 13°E 15°E

44°N 43°N 42°N

60°E 50°E 40°E

100 km

Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1997-09-26	21	5.7	VIII(2k)	14
1976-05-06	381	6.5	IX(55k)	965
1980-11-23	304	6.9	IX(37k)	2k

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeolNames.org

MMI City	Population
VIII Fluminata	< 1k
VIII Visso	1k
VIII Valle e Castello	< 1k
VIII Montemonaco	< 1k
VIII Trebbio	< 1k
V Perugia	149k
IV Roma	2,563k
IV Firenze	372k
III Napoli	989k
III Bologna	371k

bold cities appear on map (k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<http://earthquake.usgs.gov/earthquakes/eventpage/us1000725y>

Event ID: us1000725y