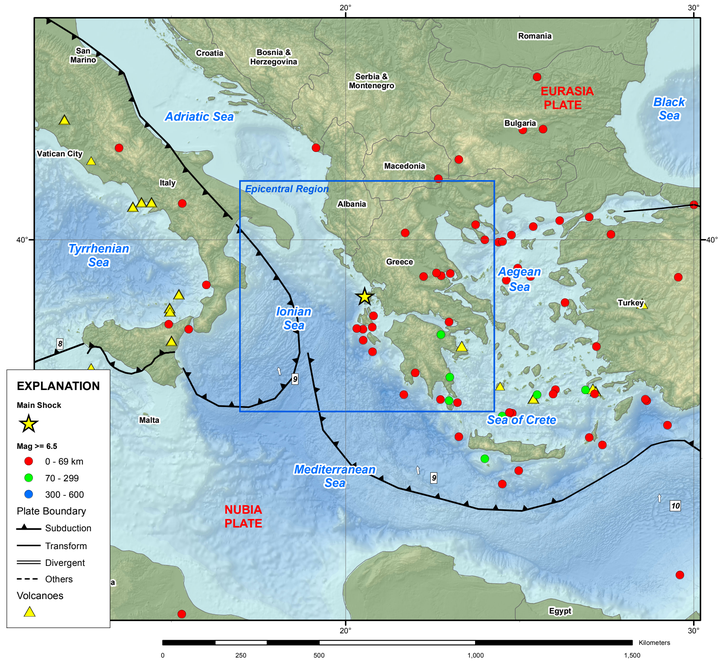
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

EARTHQUAKE SUMMARY MAP

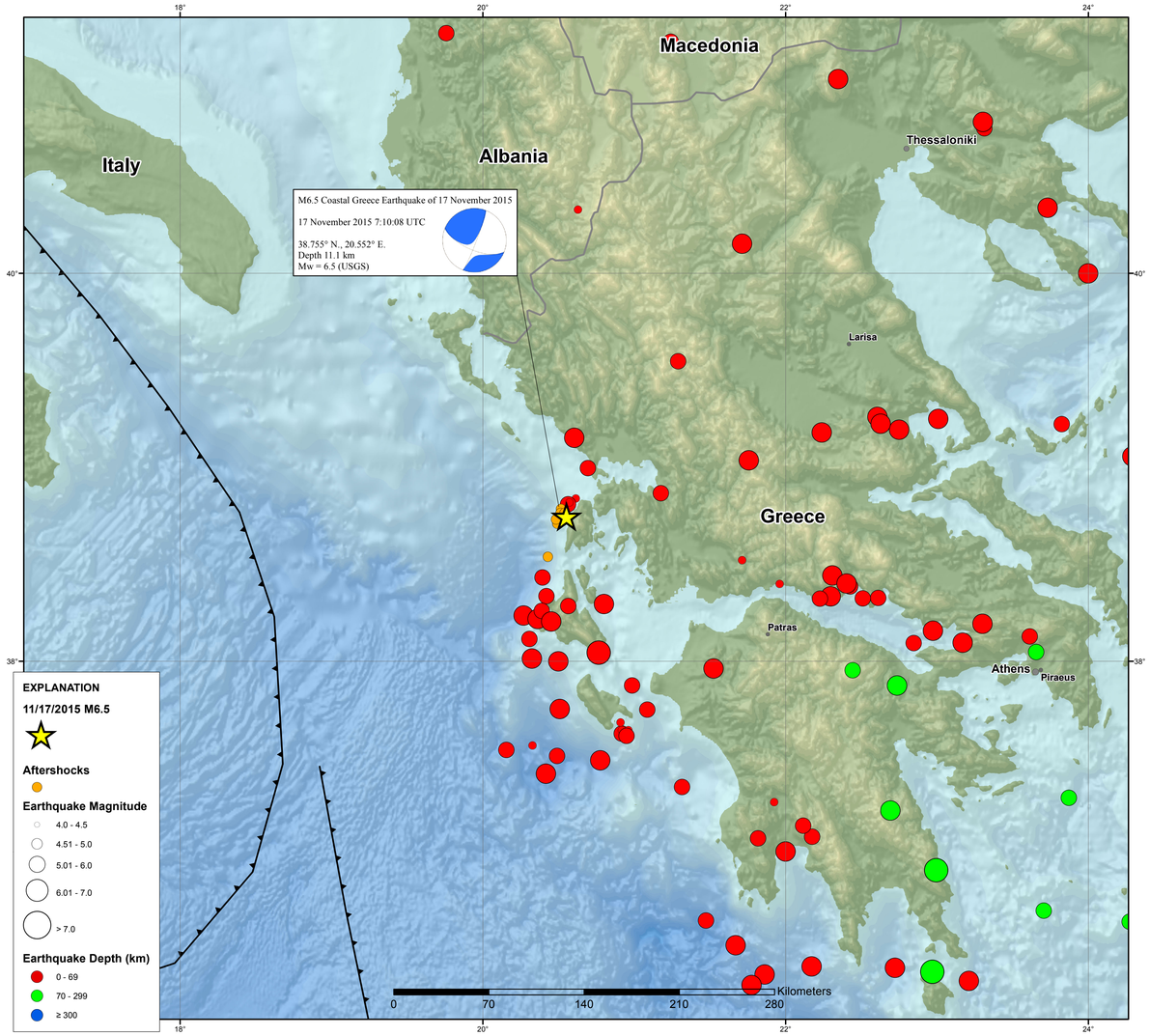
Prepared in cooperation with the Global Seismographic Network

M6.5 Coastal Greece Earthquake of 17 November 2015

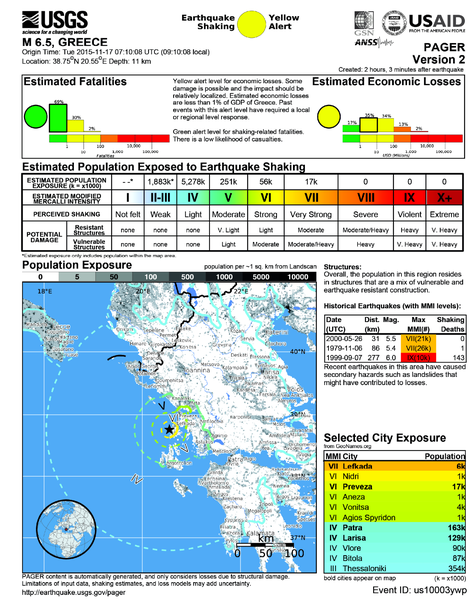
Tectonic Setting



Epicentral Region



PAGER



USGS science for a changing world

M 6.5, GREECE
Origin Time: Tue 2015-11-17 07:10:08 UTC (09:10:08 local)
Location: 38.75°N 20.55°E Depth: 11 km

Earthquake Shaking: Yellow Alert

ANSS USAID FROM THE AMERICAN PEOPLE

PAGER Version 2
Created: 2 hours, 3 minutes after earthquake

Estimated Fatalities

65% 30% 2%
1 10 100 1,000 10,000 100,000
FATALITIES

Yellow alert level for economic losses. Some damage is possible and the impact should be relatively localized. Estimated economic losses are less than 1% of GDP of Greece. Past events with this alert level have required a local or regional level response.

Green alert level for shaking-related fatalities. There is a low likelihood of casualties.

Estimated Economic Losses

15% 35% 34% 13% 2%
10 100 1,000 10,000 100,000
USD (Millions)

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		- -*	1,883k*	5,278k	251k	56k	17k	0	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	none	none	V. Light	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy
	Vulnerable Structures	none	none	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 Landscan

0 5 50 100 500 1000 5000 10000

18°E 20°E 22°E 40°N 38°N

km 0 50 100

Structures:
Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction.

Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2000-05-26	31	5.5	VII(21k)	0
1979-11-06	86	5.4	VII(26k)	1
1999-09-07	277	6.0	VIII(9k)	143

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

Selected City Exposure
from GeoNames.org

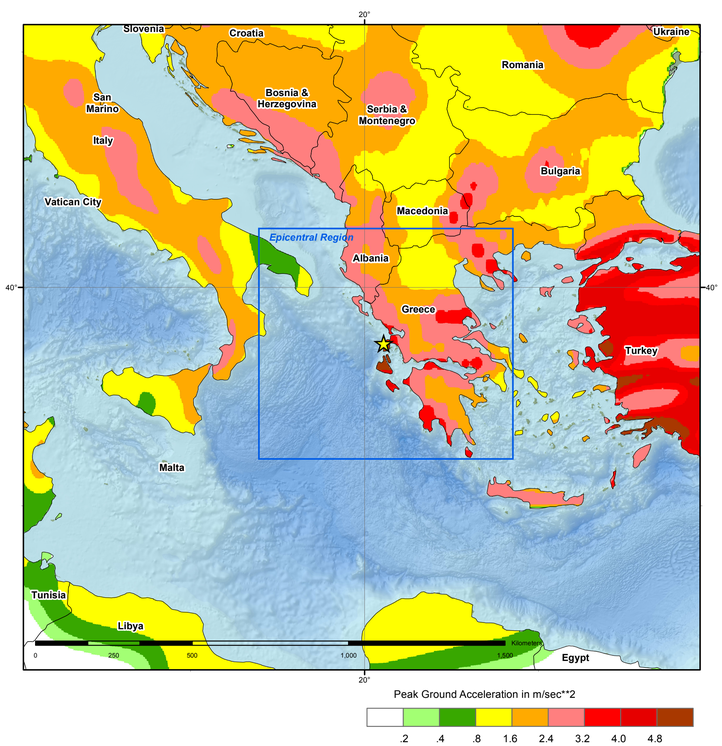
MMI	City	Population
VII	Lefkada	6k
VI	Nidri	1k
VI	**Preveza**	**17k**
VI	Aneza	1k
VI	Vonitsa	4k
VI	Agios Spyridon	1k
IV	**Patra**	**163k**
IV	**Larisa**	**129k**
IV	Vlore	90k
IV	Bitola	87k
III	Thessaloniki	354k

bold cities appear on map (k = x1000)

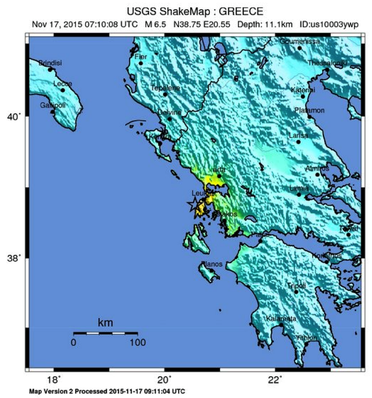
PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.
http://earthquake.usgs.gov/pager

Event ID: us10003ywp

Seismic Hazard



ShakeMap


USGS ShakeMap : GREECE
Nov 17, 2015 07:10:08 UTC M 6.5 N38.75 E20.55 Depth: 11.1km ID:us10003ywp
Kefallinia
Zakynthos
Gavdos
Kythira
Antikythira
Kythira
Kythira
K