Earthquake Shaking Yellow Alert

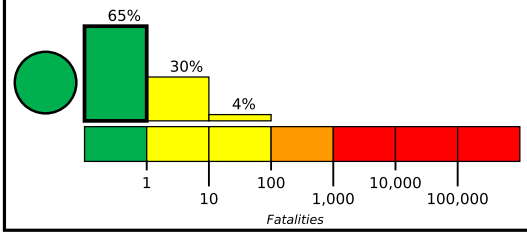
M 5.8, 12 km E of Verdikossa, Greece

Origin Time: 2021-03-04 18:38:19 UTC (Thu 20:38:19 local)
Location: 39.7886° N 22.1189° E Depth: 10.0 km

PAGER Version 7

Created: 2 days, 14 hours after earthquake

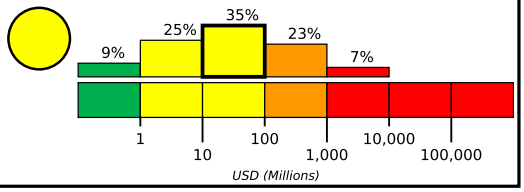
Estimated Fatalities



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

Estimated Economic Losses



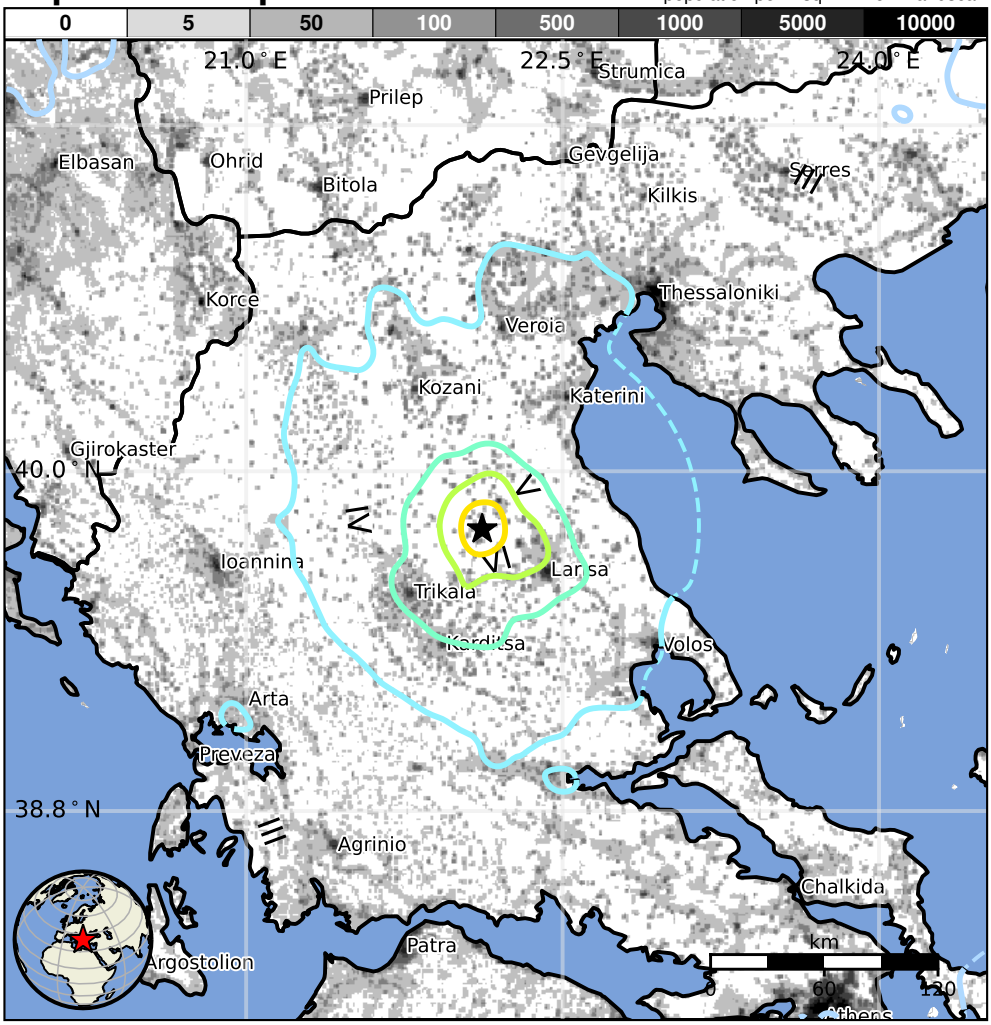
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	7,731k*	979k	291k	48k	16k	1k	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	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan



Structures

Overall, the population in this region resides in structures that are vulnerable to earthquake shaking, though resistant structures exist. The predominant vulnerable building types are mud wall with wood and unreinforced brick with mud construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2002-04-24	296	5.7	VIII(8k)	1
1982-11-16	235	5.6	VIII(3k)	1
1963-07-26	262	6.0	IX(23k)	1k

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	Tyrnavos	11k
VI	Elassona	7k
VI	Ampelona	6k
VI	Tsaritsani	3k
VI	Verdikoussa	2k
VI	Falanna	4k
V	**Larisa**	**145k**
III	**Thessaloniki**	**354k**
III	**Patra**	**168k**
III	**Elbasan**	**101k**
II	**Athens**	**664k**

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.

https://earthquake.usgs.gov/earthquakes/eventpage/us7000dfku#pager

Event ID: us7000dfku