M 7.0, 15 km NNE of Non Karlovsion, Greece
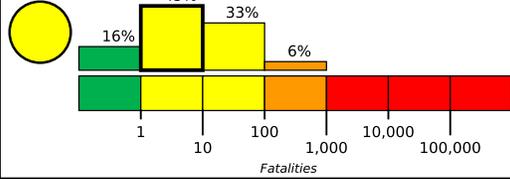
Origin Time: 2020-10-30 11:51:27 UTC (Fri 13:51:27 local)
Location: 37.9175° N 26.7901° E Depth: 21.0 km

PAGER
Version 3

Created: 2 hours, 19 minutes after earthquake

Estimated Fatalities
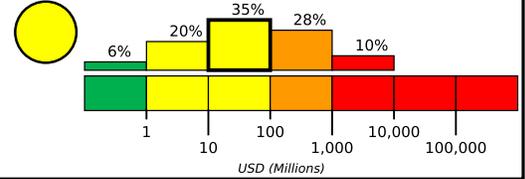
16% — 45% — 33% — 6%

1 10 100 1,000 10,000 100,000
Fatalities

Yellow alert for shaking-related fatalities and economic losses. Some casualties and damage are possible and the impact should be relatively localized. Past yellow alerts have required a local or regional level response.

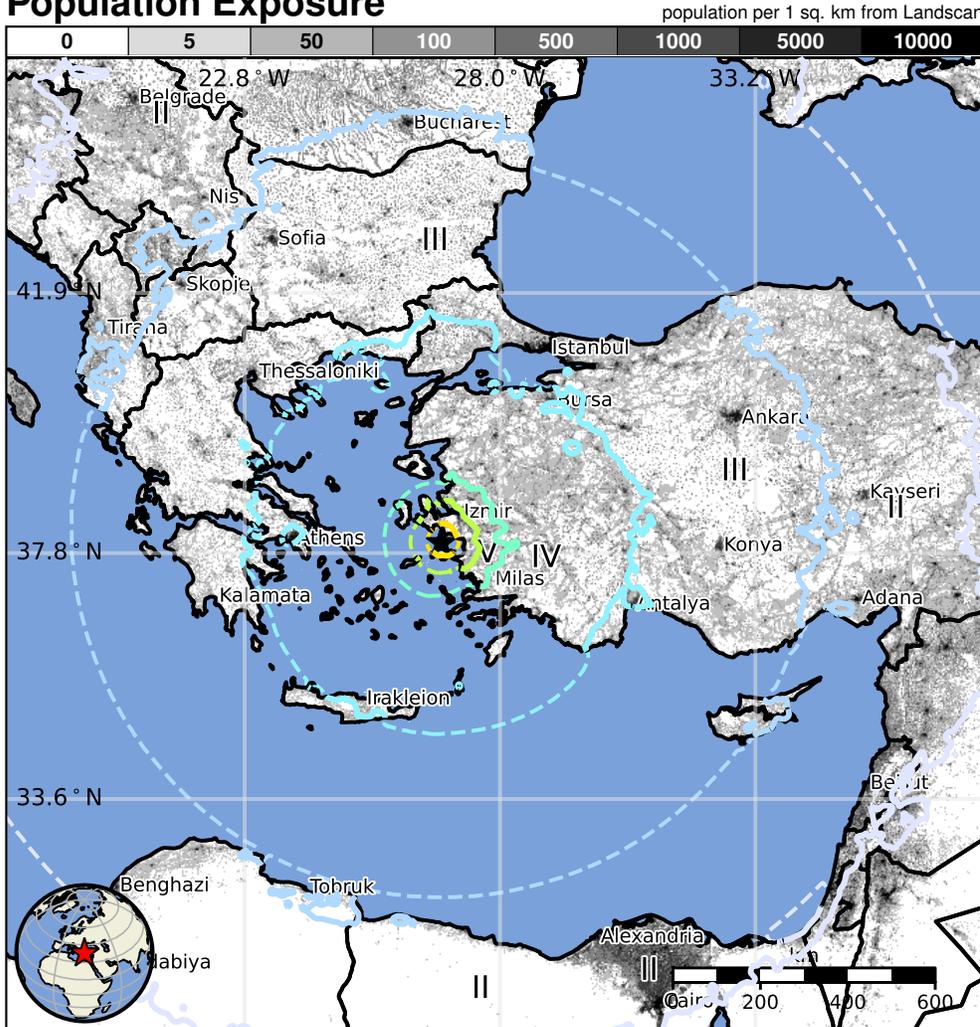Estimated economic losses are less than 1% of GDP of Turkey.

Estimated Economic Losses

6% — 20% — 35% — 28% — 10%

1 10 100 1,000 10,000 100,000
USD (Millions)

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		22,725k*	193,818k	14,823k	2,163k	3,213k	71k	6k	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

0	5	50	100	500	1000	5000	10000

Structures

Overall, the population in this region resides in structures that are extremely vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are unreinforced brick masonry and low-rise nonductile concrete frame with infill construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1995-10-01	294	6.4	VIII(173k)	101
1981-02-24	335	6.6	IX(4k)	21
1970-03-28	277	6.9	IX(66k)	1k

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

Selected City Exposure

from GeoNames.org

MMI	City	Population
VII	Neon Karlovasion	7k
VII	Kokkari	1k
VII	Seferihisar	20k
VII	Mytilinioi	2k
VII	Vathy	2k
VII	Samos	2k
VI	**Izmir**	**2,501k**
III	**Ankara**	**3,517k**
III	**Istanbul**	**11,174k**
II	**Alexandria**	**3,812k**
II	**Cairo**	**7,735k**

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/us7000c7y0#pager

Event ID: us7000c7y0