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Earthquake Shaking Orange Alert

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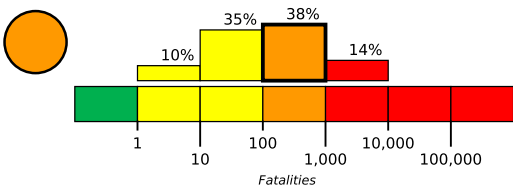
# M 6.4, 15km WSW of Mamurras, Albania

Origin Time: 2019-11-26 02:54:12 UTC (Tue 03:54:12 local)
Location: 41.5149° N 19.5212° E Depth: 20.0 km

**PAGER Version 8**

Created: 3 weeks, 1 day after earthquake

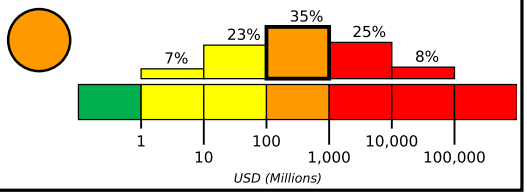
## Estimated Fatalities




Orange alert for shaking-related fatalities and economic losses. Significant casualties and damage are likely and the disaster is potentially widespread. Past orange alerts have required a regional or national level response.

Estimated economic losses are 0-8% GDP of Albania.

## Estimated Economic Losses



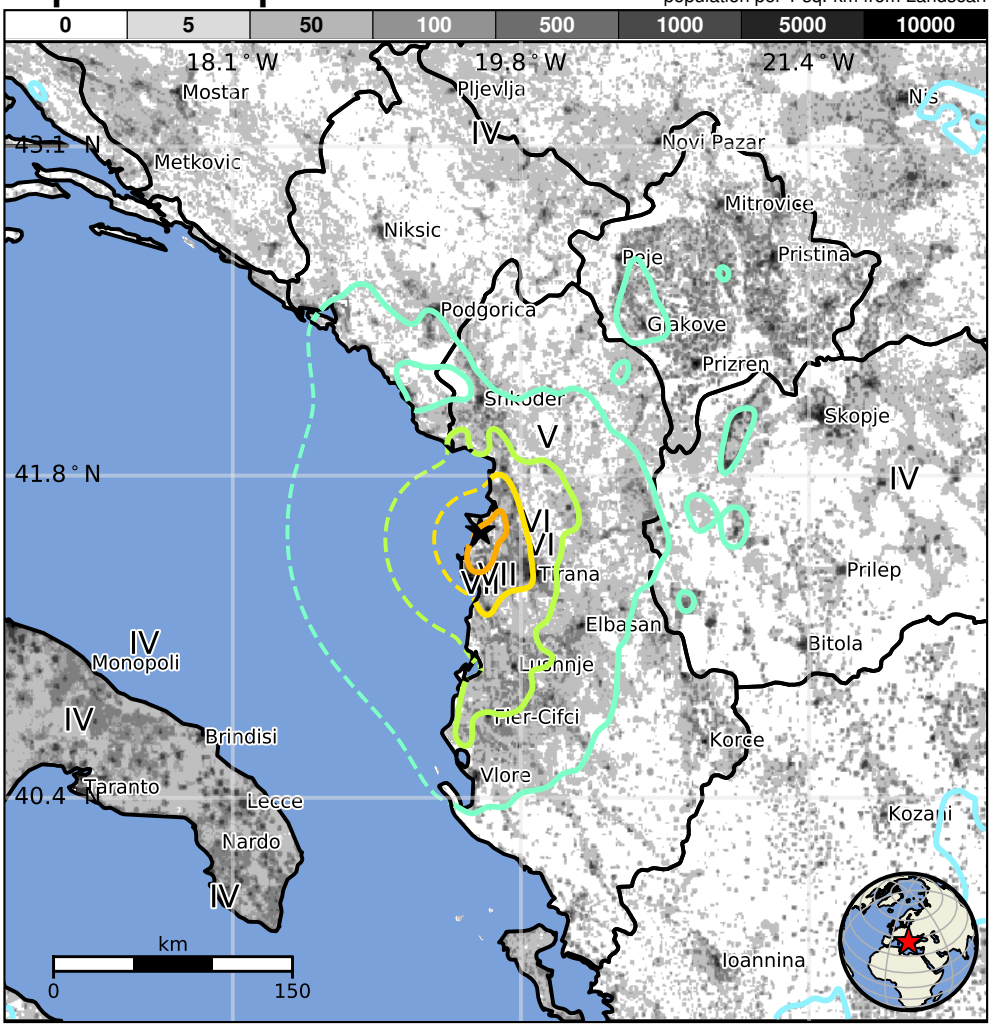

## Estimated Population Exposed to Earthquake Shaking

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ESTIMATED POPULATION EXPOSURE (k=x1000) | | –* | 97k* | 9,192k* | 1,833k | 817k | 712k | 145k | 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 a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are unreinforced brick with timber floor and nonductile reinforced concrete frame construction.

## Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|---|---|---|---|---|
| 1979-04-15 | 62 | 6.9 | IX(38k) | 156 |
| 1963-07-26 | 176 | 6.0 | IX(23k) | 1k |
| 1980-11-23 | 361 | 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 GeoNames.org

| MMI | City | Population |
|---|---|---|
| VIII | Katundi i Ri | <1k |
| VIII | Sukth | <1k |
| VIII | Xhafzotaj | <1k |
| VIII | Hasan | <1k |
| VII | Thumane | <1k |
| VII | Fushekuqe | <1k |
| **VII** | **Tirana** | **375k** |
| IV | Bari | 277k |
| **IV** | **Skopje** | **475k** |
| **IV** | **Pristina** | **550k** |
| **IV** | **Prizren** | **171k** |

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/us70006d0m#pager**

**Event ID: us70006d0m**