

M 5.7, 25km SE of Saray, Turkey

Origin Time: 2020-02-23 05:53:01 UTC (Sun 09:23:01 local)
 Location: 38.5041° N 44.4046° E Depth: 6.4 km

PAGER
Version 3

Created: 42 minutes, 14 seconds after earthquake

Estimated Fatalities

Yellow alert for shaking-related fatalities. Some casualties are possible and the impact should be relatively localized. Past events with this alert level have required a local or regional level response.

Green alert for economic losses. There is a low likelihood of damage.

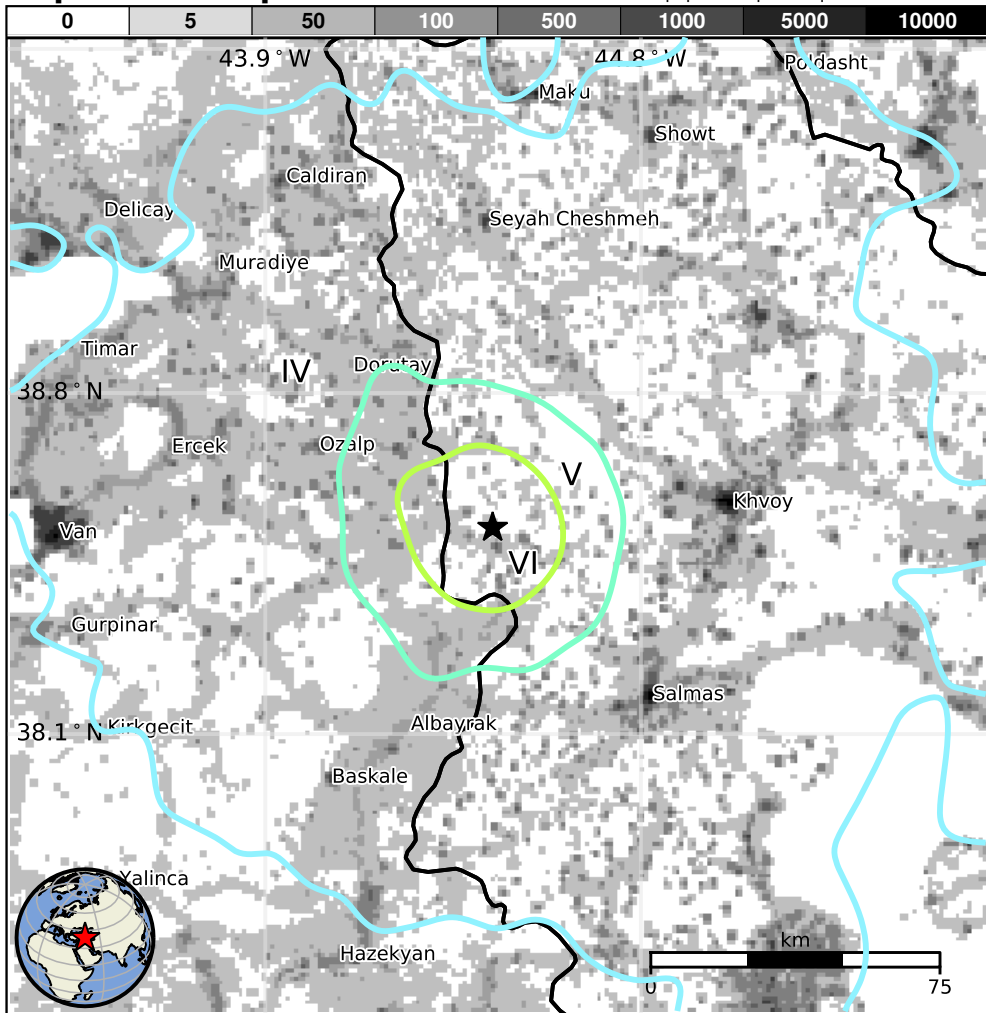
Estimated Economic Losses

Estimated Population Exposed to Earthquake Shaking

| | | | | | | | | | | |
|---|-----------------------|--------|--------|----------|----------|-------------|------------|------------|----------|----------|
| ESTIMATED POPULATION EXPOSURE (k=x1000) | —* | 359k* | 1,942k | 54k | 23k | 4k | 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 | 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



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 adobe block and dressed stone/block masonry construction.

Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 1991-07-24 | 214 | 5.5 | VII(2k) | 20 |
| 1977-03-25 | 378 | 5.3 | VII(1k) | 30 |
| 1988-12-07 | 269 | 6.7 | IX(50k) | 25k |

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

Selected City Exposure

| MMI | City | Population |
|-----|-------------------|------------|
| V | Saray | <1k |
| IV | Ozalp | 8k |
| IV | Salmas | 82k |
| IV | Dorutay | <1k |
| IV | Khvoy | 175k |
| IV | Albayrak | <1k |
| IV | Qarah Zia' od Din | 32k |
| IV | Baskale | 15k |
| IV | Van | 372k |
| IV | Ercis | 92k |
| III | Nakhchivan | 65k |

bold cities appear on map.

(k = x1000)