

# M 5.8, Turkmenistan-Iran border region

Origin Time: 2017-05-13 18:01:01 UTC (Sat 22:31:01 local)  
 Location: 37.8531° N 57.2677° E Depth: 12.4 km

**PAGER**  
Version 3

Created: 6 hours, 36 minutes 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.

### Estimated Economic Losses

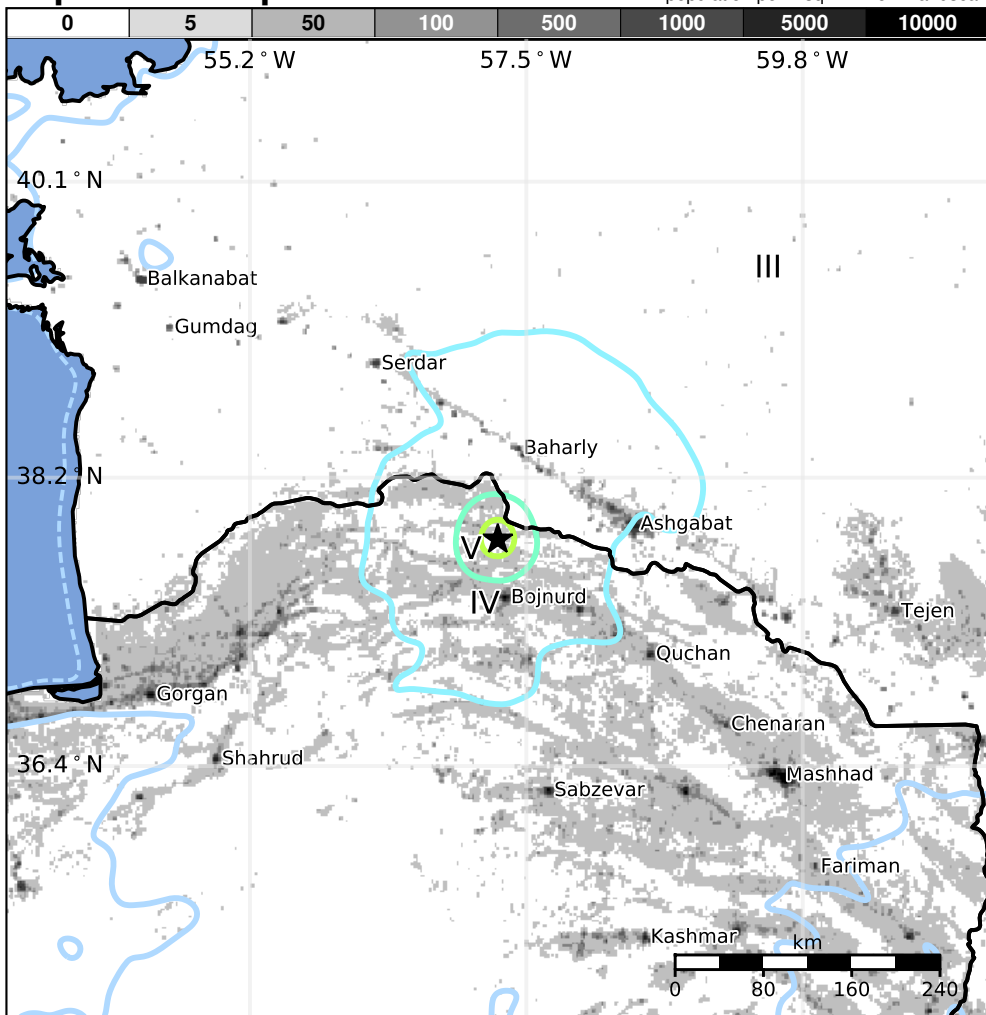
Green alert for economic losses. There is a low likelihood of damage.

## Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	10,678k	1,164k	58k	8k	2k	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 vulnerable to earthquake shaking, though resistant structures exist. The predominant vulnerable building types are adobe block and low-rise nonductile concrete frame with infill construction.

## Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2000-12-06	283	7.0	VI(138k)	11
2000-02-02	302	5.3	VII(79k)	1
1997-02-04	16	6.5	VII(9k)	100

## Selected City Exposure

MMI	City	Population
IV	<b>Bojnurd</b>	192k
IV	Ashkhaneh	<1k
IV	<b>Baharly</b>	23k
IV	Shirvan	83k
IV	Abadan	39k
IV	Arcabil	3k
III	<b>Mashhad</b>	2,307k
III	<b>Ashgabat</b>	728k
III	<b>Gorgan</b>	245k
III	<b>Balkanabat</b>	88k
II	Semnan	125k

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/us10008s7b#pager>

bold cities appear on map.

(k=x1000)

Event ID: us10008s7b