Earthquake Shaking Yellow Alert

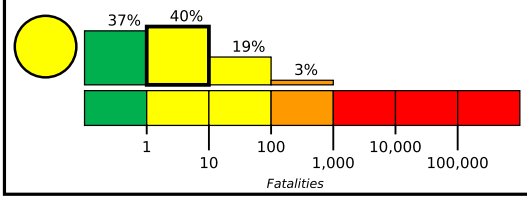
M 5.4, 27 km N of Hert, Afghanistan

Origin Time: 2023-10-15 03:56:28 UTC (Sun 08:26:28 local)
Location: 34.5926° N 62.1483° E Depth: 10.0 km

PAGER Version 4

Created: 1 day, 0 hours after earthquake

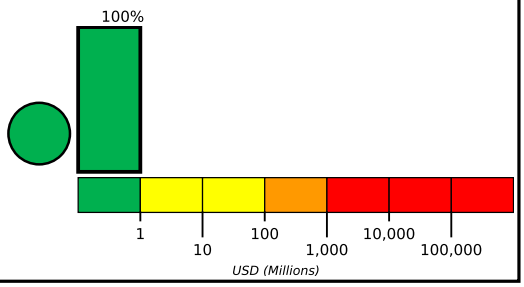
Estimated Fatalities



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



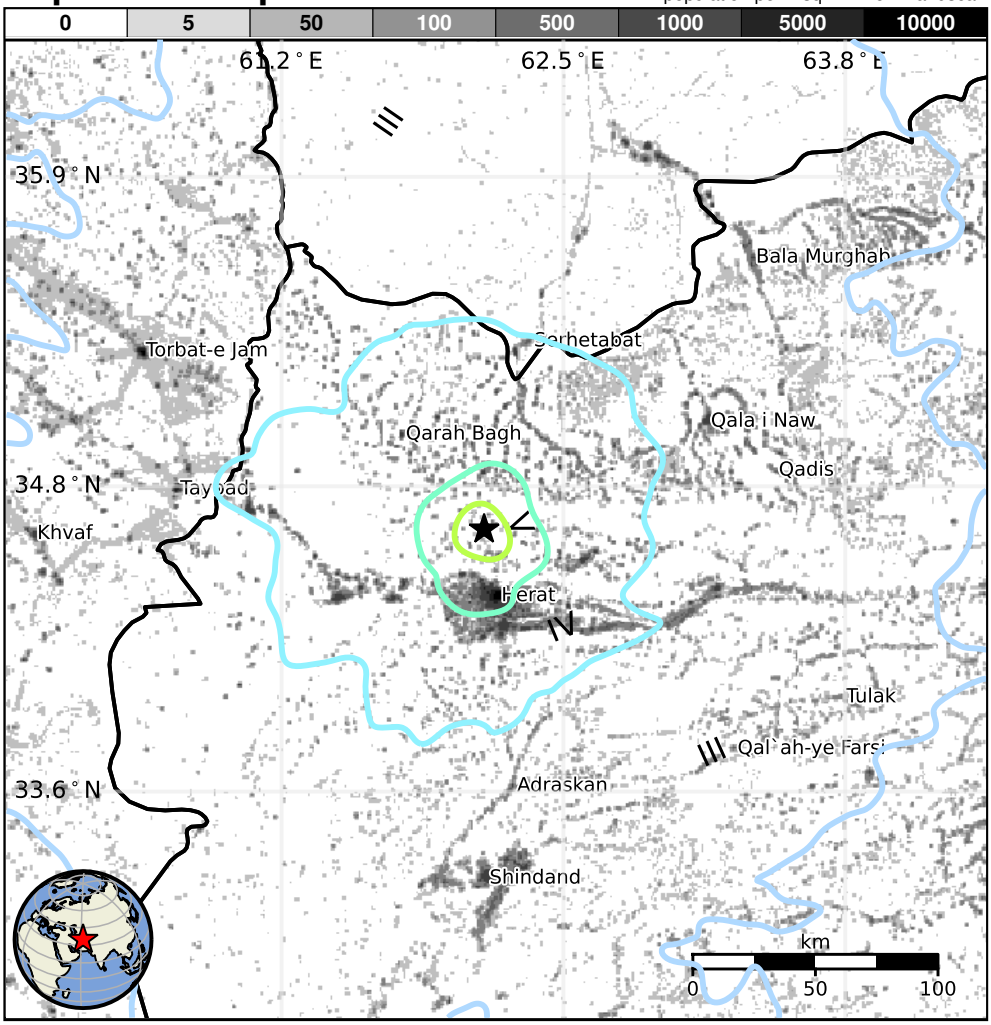
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	2,563k	1,233k	836k	12k	0	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

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 adobe block and unreinforced brick with mud and timber post construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1998-04-10	308	5.7	VI(4k)	12
1979-11-14	233	6.5	VI(4k)	280
1968-08-31	299	7.2	IX(3k)	15k

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
V	**Herat**	**273k**
V	Rabat-e Sangi-ye Pa'in	<1k
V	Injil	<1k
IV	Chahar Burj	12k
IV	Guzarah	<1k
IV	Zindah Jan	10k
III	**Qala i Naw**	**9k**
III	**Taybad**	**38k**
III	**Shindand**	**29k**
III	**Torbat-e Jam**	**59k**
III	Ghormach	30k

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/us6000lfng#pager

Event ID: us6000lfng