

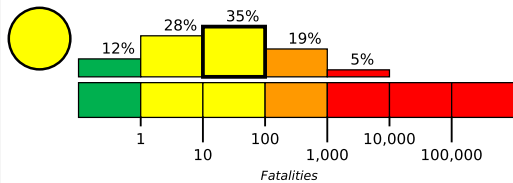
M 5.9, 11 km NNE of Harnai, Pakistan

Origin Time: 2021-10-06 22:01:08 UTC (Thu 03:01:08 local)
 Location: 30.1933° N 67.9948° E Depth: 9.0 km

PAGER Version 10

Created: 8 weeks, 2 days after earthquake

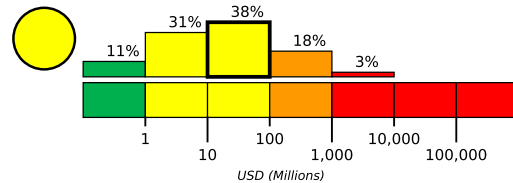
Estimated Fatalities



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 Pakistan.

Estimated Economic Losses

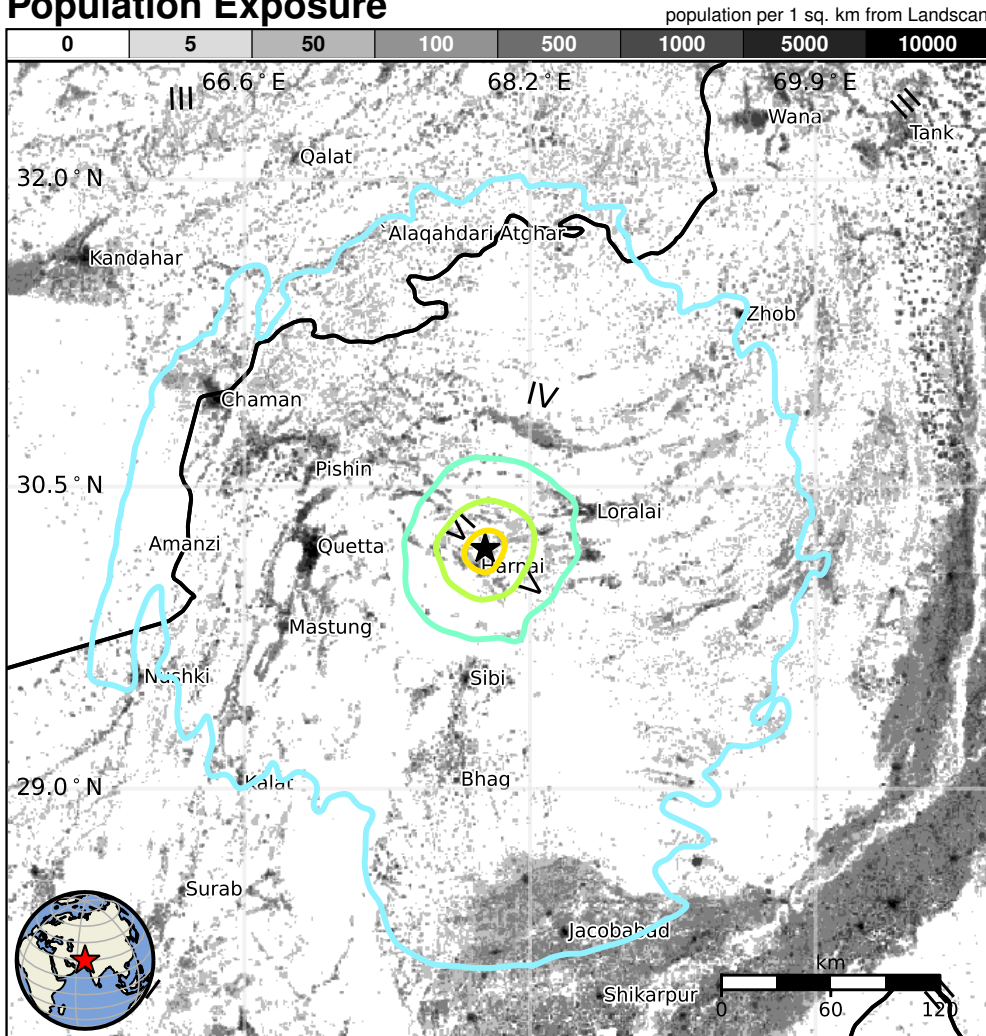


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)	—*	17,590k*	7,774k	196k	56k	33k	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 extremely vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are adobe block and informal (metal, timber, GI etc.) construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2006-10-09	162	4.4	V(343k)	0
1990-03-04	213	6.0	VIII(3k)	11
1997-02-27	33	7.1	VIII(139k)	60

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
VII	Harnai	11k
V	Ziarat	1k
V	Duki	6k
IV	Quetta	734k
IV	Loralai	38k
IV	Kot Malik Barkhurdar	69k
IV	Jacobabad	171k
III	Dera Ghazi Khan	236k
III	Qalat	12k
III	Kandahar	391k
III	Sadiqabad	190k

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.

bold cities appear on map.

(k = x1000)