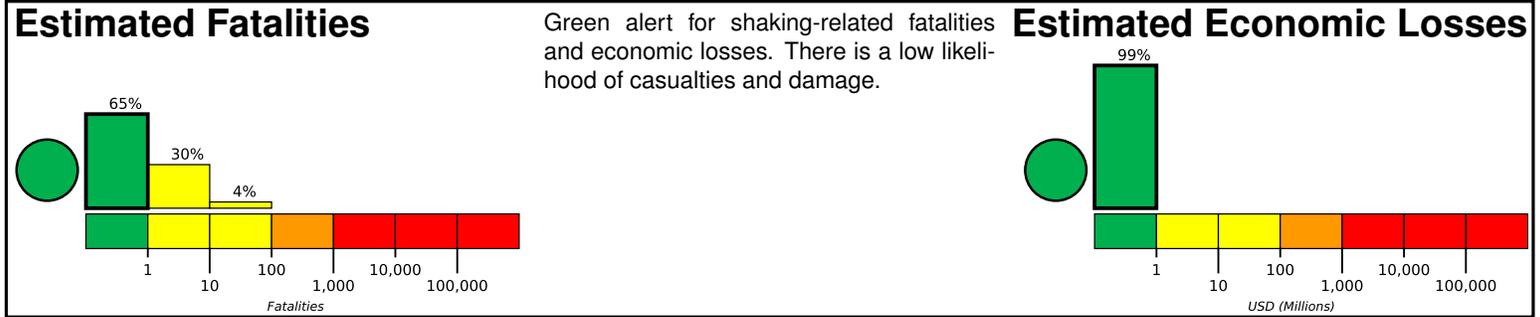


M 5.4, 3 km SSE of Chivay, Peru

Origin Time: 2023-06-03 01:49:15 UTC (Fri 20:49:15 local)
Location: 15.6647° S 71.5943° W Depth: 10.0 km

PAGER Version 4

Created: 8 weeks, 3 days after earthquake

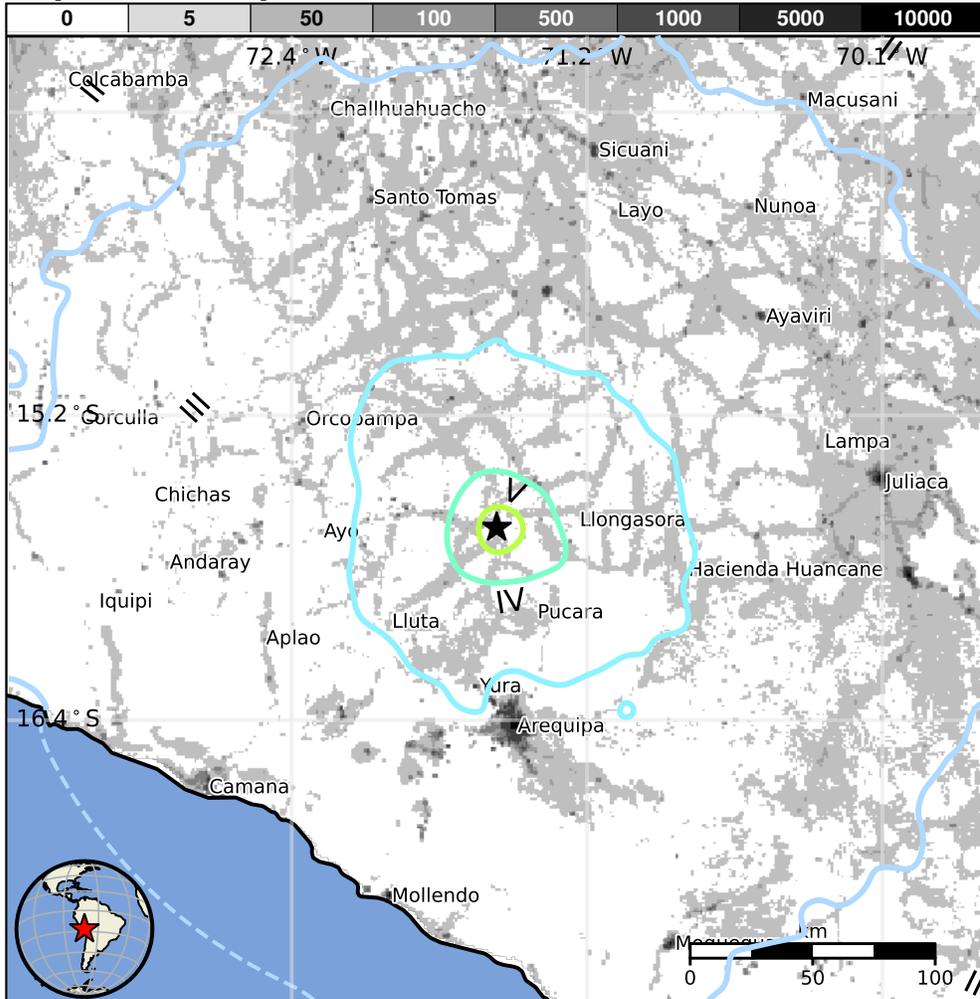


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	2,239k	830k	10k	6k	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



Structures

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are mud wall and reinforced/confined masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2001-12-04	96	5.8	VI(32k)	2
1987-08-13	258	6.5	VII(62k)	1
2001-06-23	218	8.4	VIII(179k)	48

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
VI	Chivay	5k
VI	Yanque	<1k
VI	Coporaque	<1k
V	Ichupampa	<1k
V	Achoma	<1k
V	Tuti	<1k
IV	Arequipa	841k
III	Juliaca	246k
III	Sicuaní	34k
III	Puno	117k
III	Moquegua	55k

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/us7000k5zj#pager>

Event ID: us7000k5zj