

M 7.5, PERU-BRAZIL BORDER REGION

Origin Time: Tue 2015-11-24 22:45:38 UTC (17:45:38 local)

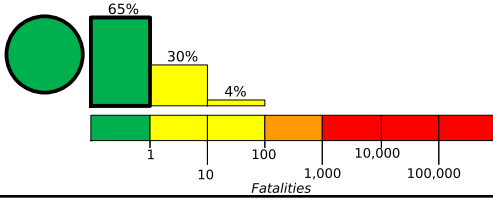
Location: 10.58°S 70.97°W Depth: 602 km

Created: 23 minutes, 41 seconds after earthquake

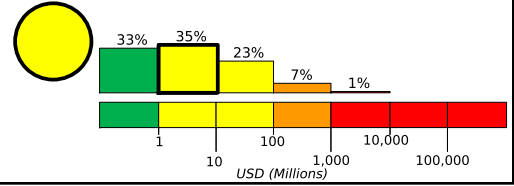
Estimated Fatalities

Yellow alert level for economic losses. Some damage is possible and the impact should be relatively localized. Estimated economic losses are less than 1% of GDP of Peru. Past events with this alert level have required a local or regional level response.

Green alert level for shaking-related fatalities. There is a low likelihood of casualties.



Estimated Economic Losses

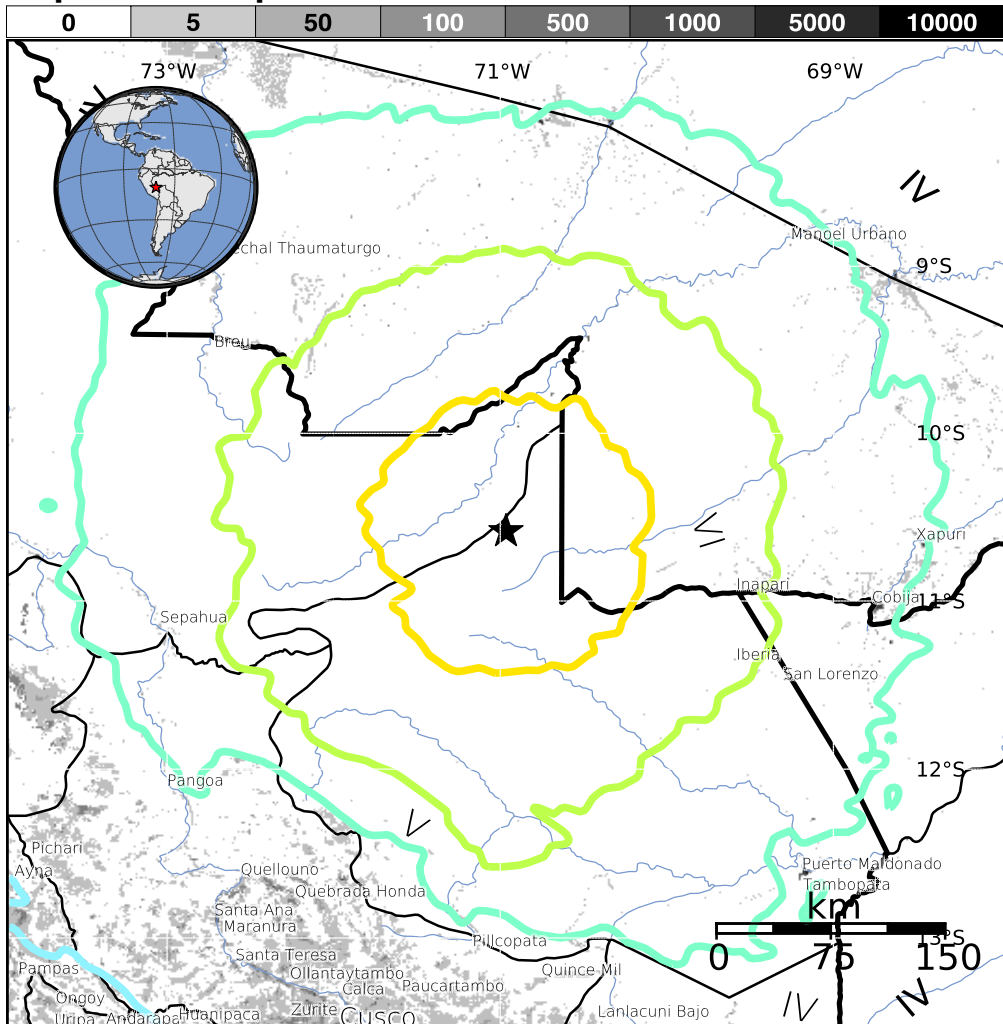


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)	- -*	61k*	835k*	246k	26k	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	Moderate/Heavy	Heavy	V. Heavy
	Vulnerable Structures	none	none	none	Light	Moderate	Moderate/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 some resistant structures exist. The predominant vulnerable building types are mud wall and ductile reinforced concrete frame construction.

Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2001-02-21	390	5.7	VII(5k)	0
1976-05-15	395	6.7	IX(100)	5
1986-04-05	325	5.2	V(403k)	16

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 Inapari	< 1k
V Iberia	4k
V San Lorenzo	< 1k
V Tarauaca	17k
V Xapuri	6k
V Brasileia	11k
V Cobija	27k
IV Puerto Maldonado	38k
IV Tambopata	39k
IV Santa Ana	25k
IV Cusco	312k

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.

<http://earthquake.usgs.gov/pager>

Event ID: us100040ww