

# M 7.6, PERU-BRAZIL BORDER REGION

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

Location: 10.54°S 70.94°W Depth: 606 km

Created: 11 weeks, 3 days after earthquake

## Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

## Estimated Economic Losses



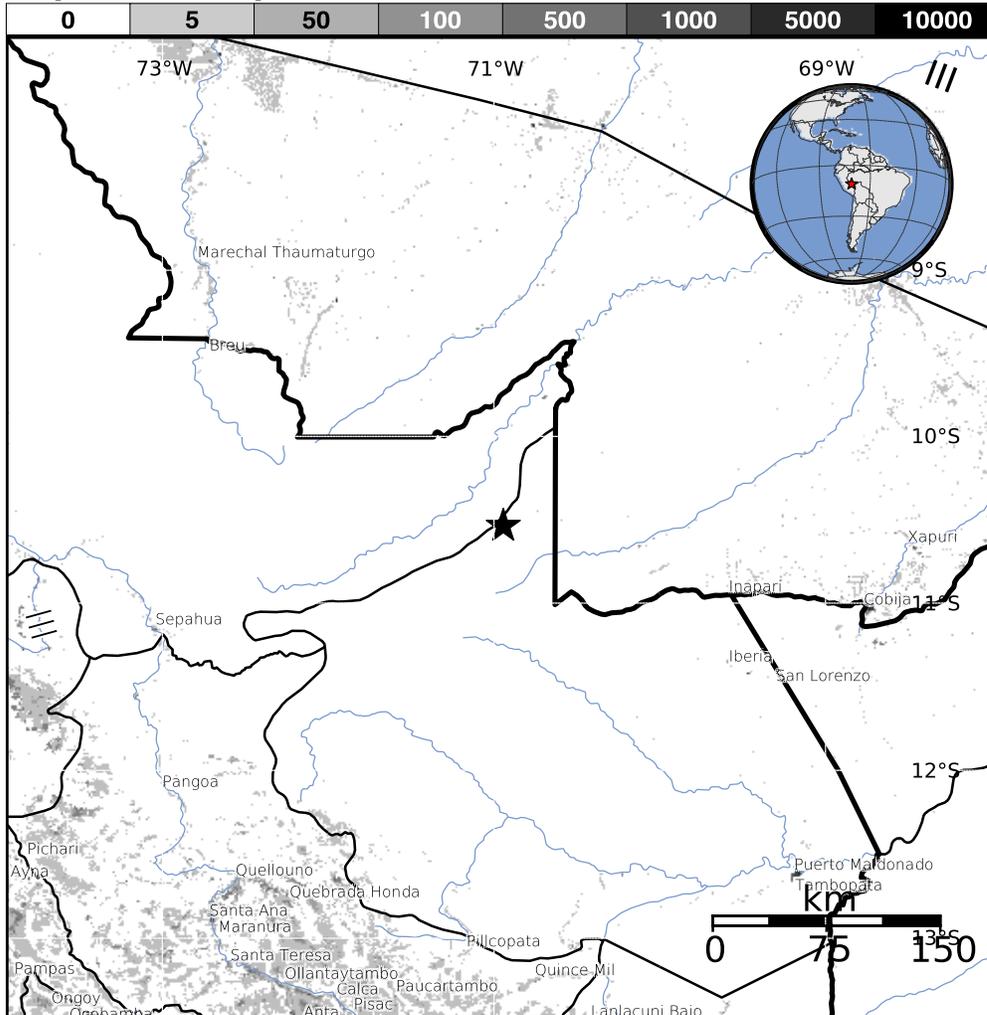
## Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)	--*	1,141k*	0	0	0	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	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

population per ~1 sq. km from Landsat



## 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
III	San Lorenzo	< 1k
III	Tarauaca	17k
III	Inapari	< 1k
III	Feijo	13k
III	Xapuri	6k
III	Sepahua	< 1k
III	Puerto Maldonado	38k
III	Cobija	27k
III	Sena Madureira	21k
III	Tambopata	39k
III	Santa Ana	25k

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/earthquakes/eventpage/us100040ww>

Event ID: us100040ww