USGS science for a changing world

Earthquake Shaking Green Alert

GSN ANSS USAID FROM THE AMERICAN PEOPLE

M 5.5, OFF THE COAST OF SOUTHERN PERU

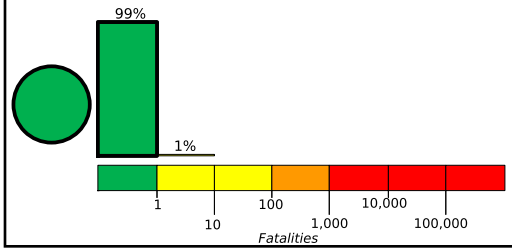
Origin Time: Mon 2014-07-14 11:24:39 UTC (06:24:39 local)

Location: 17.92°S 73.42°W Depth: 33 km

PAGER
Version 1

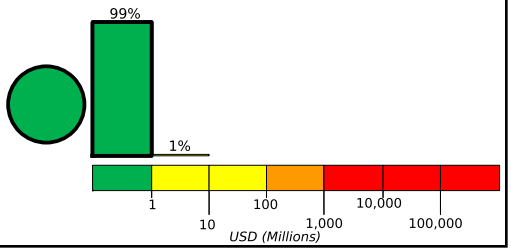
Created: 21 minutes, 19 seconds after earthquake

Estimated Fatalities



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

Estimated Economic Losses



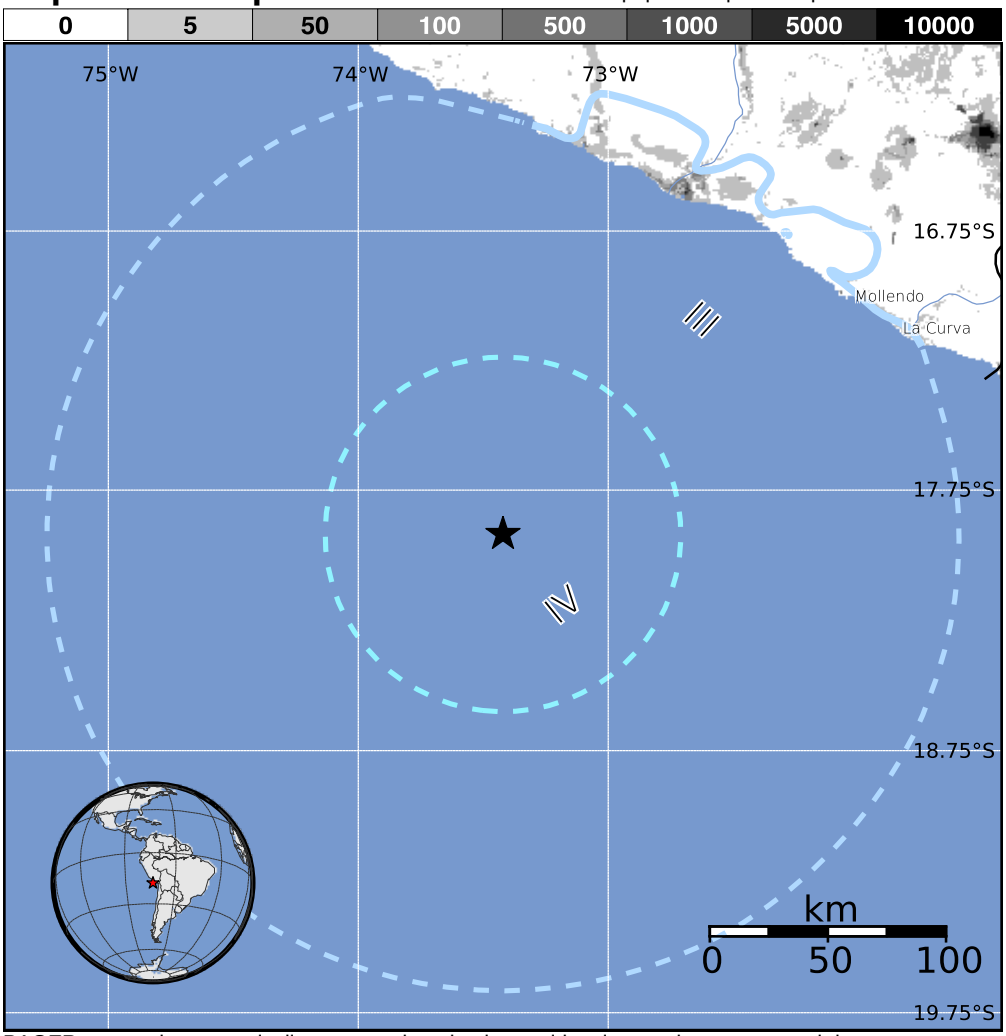
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		- -*	1,049k	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 Landscan



Structures:
Overall, the population in this region resides in structures that are vulnerable to earthquake shaking, though some resistant structures exist.

Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1988-07-04	180	5.8	V(61k)	0
2001-12-04	304	5.8	VII(136)	2
2001-06-23	171	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
III	La Pampa	< 1k
III	El Cardo	< 1k
III	Camana	16k
III	Quilca	< 1k
III	**Mollendo**	**29k**
III	Urasqui	< 1k
III	**La Curva**	**< 1k**
III	Punta de Bombon	6k
II	Cocachacra	9k
II	Arequipa	841k
II	Yura	6k

bold cities appear on map (k = x1000)

http://earthquake.usgs.gov/pager

Event ID: usb000rss6