

**M 5.9, NEAR THE COAST OF ECUADOR**

Origin Time: Fri 2016-04-22 03:20:13 UTC (03:20:13 local)

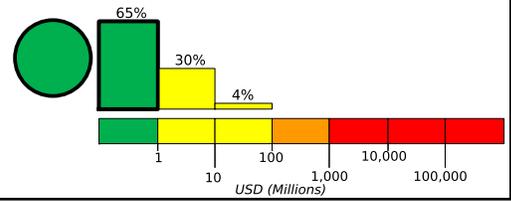
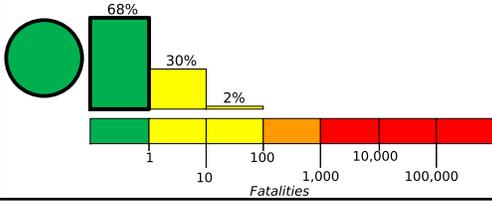
Location: 0.28°S 80.51°W Depth: 8 km

Created: 2 weeks, 6 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**

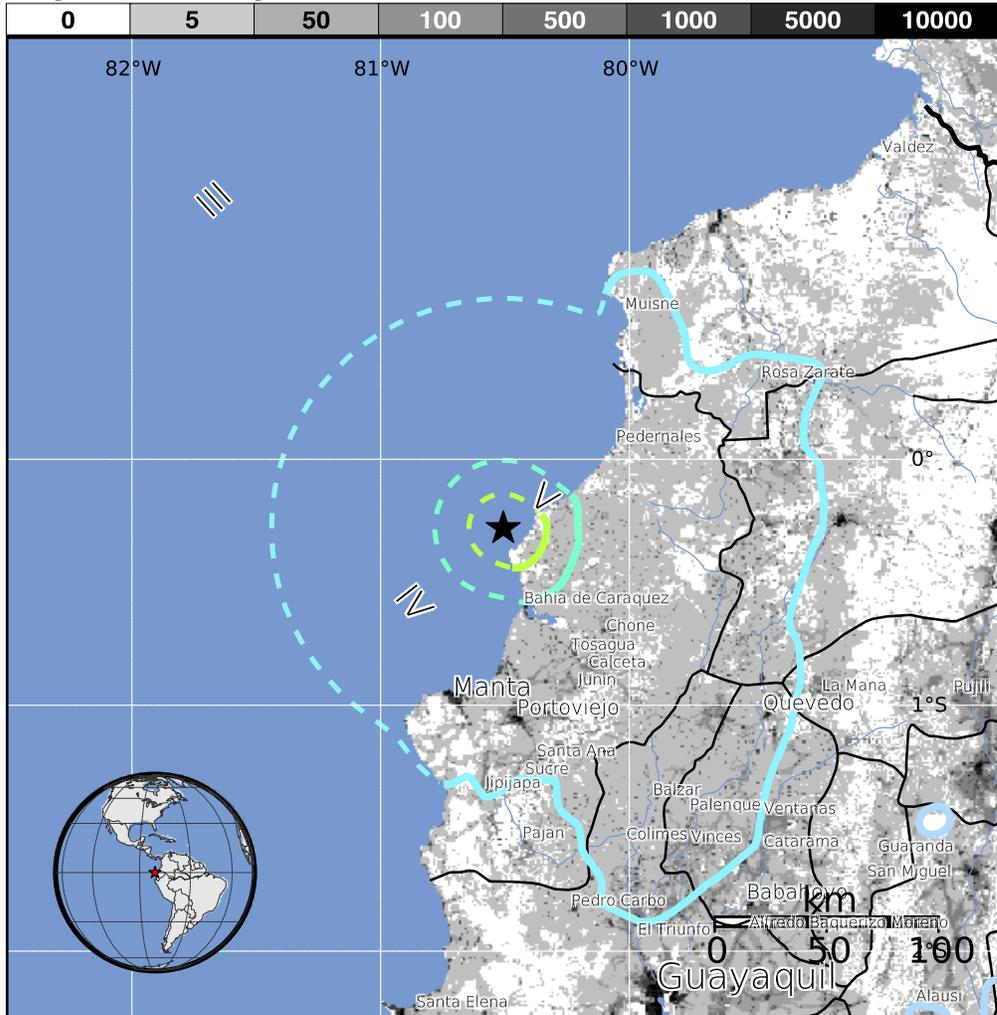


**Estimated Population Exposed to Earthquake Shaking**

ESTIMATED POPULATION EXPOSURE (k = x1000)	- -*	7,075k*	2,416k	161k	5k	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**



**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
2005-01-28	110	5.9	VI(594)	0
2000-09-20	184	5.5	VI(99k)	1
1987-03-06	305	7.1	IX(2k)	1k

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
<b>V Manta</b>	<b>183k</b>
<b>IV Bahia de Caraquez</b>	<b>37k</b>
<b>IV Tosagua</b>	<b>15k</b>
<b>IV Rocafuerte</b>	<b>10k</b>
<b>IV Pedernales</b>	<b>6k</b>
<b>IV Chone</b>	<b>45k</b>
<b>IV Portoviejo</b>	<b>170k</b>
<b>III Guayaquil</b>	<b>1,952k</b>
<b>III Riobamba</b>	<b>124k</b>
<b>III Quito</b>	<b>1,400k</b>

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/us20005kqp>