

M 5.9, NEAR THE COAST OF ECUADOR

Origin Time: Mon 2016-07-11 02:01:09 UTC (21:01:09 local)

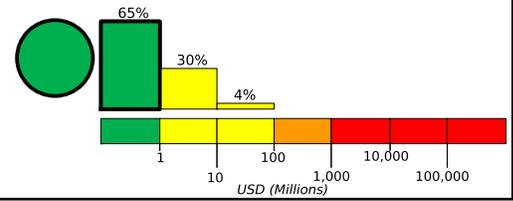
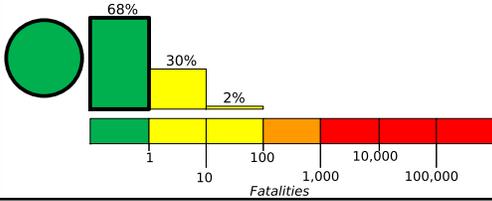
Location: 0.59°N 79.64°W Depth: 17 km

Created: 7 weeks, 1 day 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

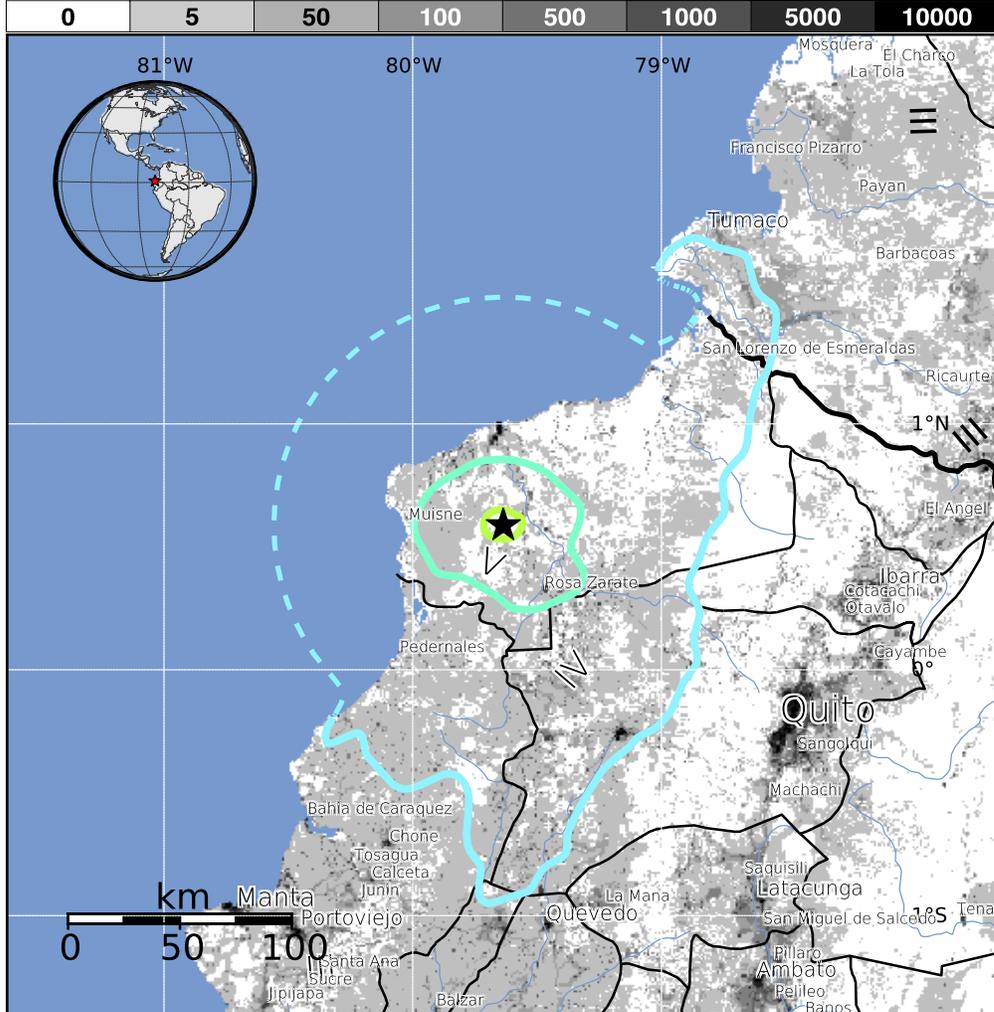


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)	--*	6,636k*	1,316k	98k	9k	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
	Vulnerable Structures	none	none	none	Light	Moderate	Moderate/Heavy	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
1996-12-16	145	5.5	V(330k)	0
1995-03-26	300	5.6	V(1,813k)	1
1987-03-06	213	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
V	Rosa Zarate	42k
V	Muisne	13k
IV	Pedernales	6k
IV	Valdez	11k
III	Quito	1,400k
III	Latacunga	52k
III	Tulcan	< 1k
III	Manta	183k
III	Portoviejo	170k

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/us100062hd>

Event ID: us100062hd