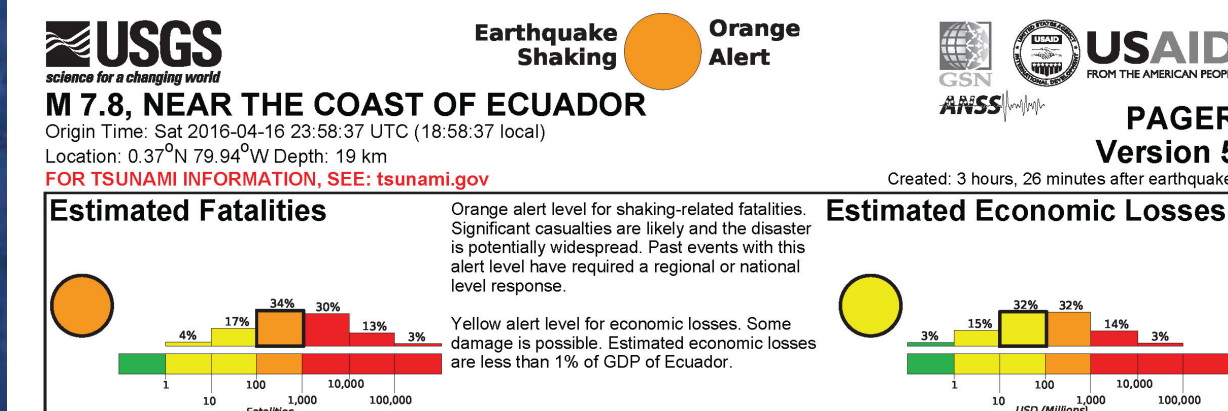


* THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE LOCATION		GAUGE COORDINATES		TIME OF MEASURE (UTC)	MAXIMUM TSUNAMI HEIGHT	WAVE PERIOD (MIN)
LA	LIBERTAD EC	2.25	80.9W	0218	0.14M/ 0.5FT	70

<http://ptwc.weather.gov/text.php?id=pacific.TSUPAC.2016.04.17.0259>

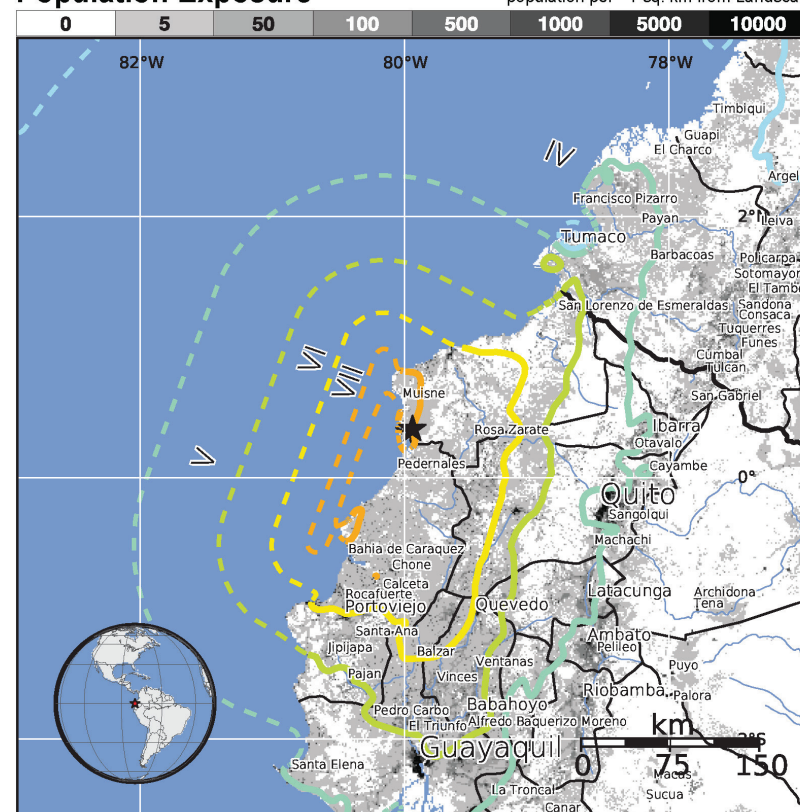


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE ($k = x1000$)		- -	115k*	5,238k*	5,971k	2,085k	1,767k	96k	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



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/us20005j32>

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 unreinforced brick masonry and mud wall construction.

Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1979-03-01	31	5.7	VIII(4k)	
1996-03-28	212	5.9	VIII(14k)	2
1987-03-06	245	7.1	IX(2k)	1

Recent earthquakes in this area have caused secondary hazards such as tsunamis and landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI City	Population
VIII Muisne	13,000
VIII Tosagua	15,000
VIII Pedernales	6,000
VII Bahía de Caraquez	37,000
VII Rosa Zarate	42,000
VII Chone	45,000
VII Portoviejo	170,000
V Guayaquil	1,952,000
IV Pasto	382,000
IV Quito	1,400,000

bold cities appear on map (*k* = $\times 1000$)

Event ID: us20005i32

