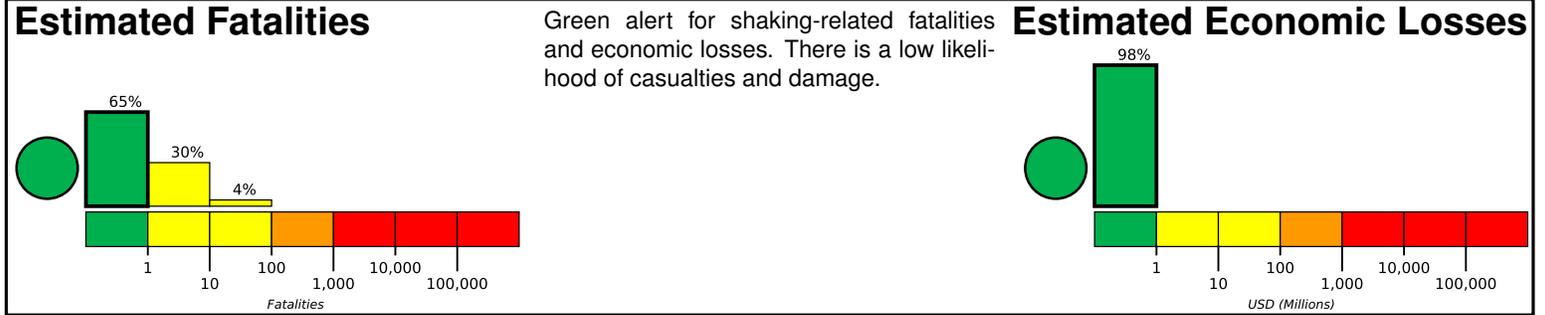


# M 5.8, 7 km SE of Esmeraldas, Ecuador

Origin Time: 2022-03-27 04:28:12 UTC (Sat 23:28:12 local)  
Location: 0.9038° N 79.6109° W Depth: 19.0 km

Created: 5 weeks, 2 days after earthquake

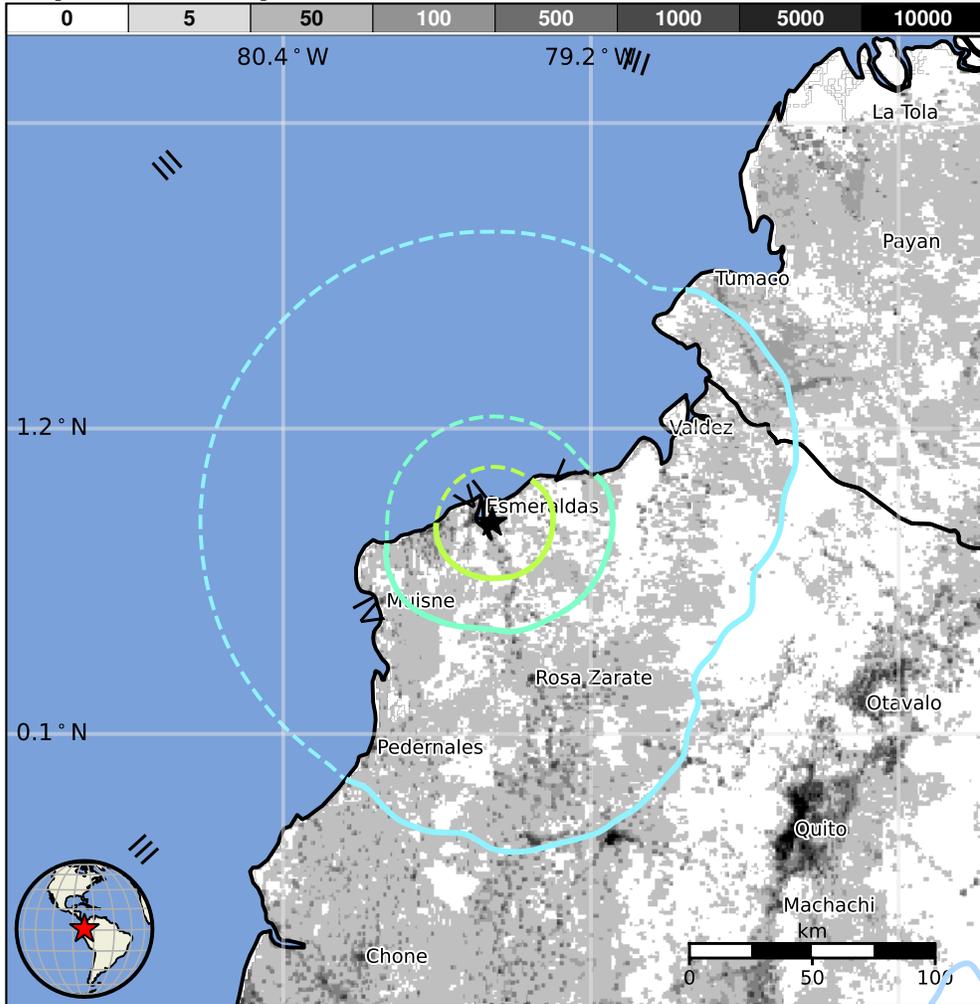


## Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	4,917k*	935k	83k	243k	2k	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	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./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 highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are mud wall and informal (metal, timber, GI etc.) construction.

## Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1990-08-11	173	5.3	VII(390k)	4
1976-04-09	7	6.6	VII(131k)	8
1987-03-06	222	7.1	IX(2k)	1k

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

## Selected City Exposure

from GeoNames.org

MMI	City	Population
<b>VI</b>	<b>Esmeraldas</b>	<b>165k</b>
V	Cube	<1k
IV	Muisne	13k
IV	Rosa Zarate	42k
IV	Valdez	11k
IV	San Lorenzo de Esmeraldas	20k
IV	Santo Domingo de los Colorados	200k
III	Tumaco	87k
III	Ibarra	133k
III	Tutamandahostel	140k
III	Quito	1,400k

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.

<https://earthquake.usgs.gov/earthquakes/eventpage/us7000gxlu#pager>

Event ID: us7000gxlu