Earthquake Shaking **Green Alert**

M 5.7, 34 km ENE of Hernani, Philippines

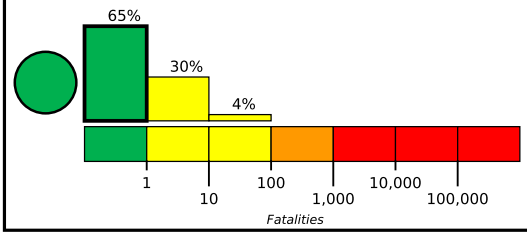
Origin Time: 2023-11-02 06:50:26 UTC (Thu 14:50:26 local)
Location: 11.4176° N 125.9187° E Depth: 20.1 km

PAGER Version 3

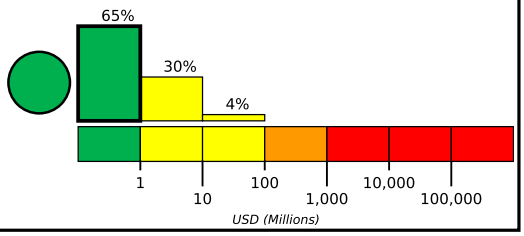
Created: 7 hours, 53 minutes after earthquake

Estimated Fatalities

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



Estimated Economic Losses



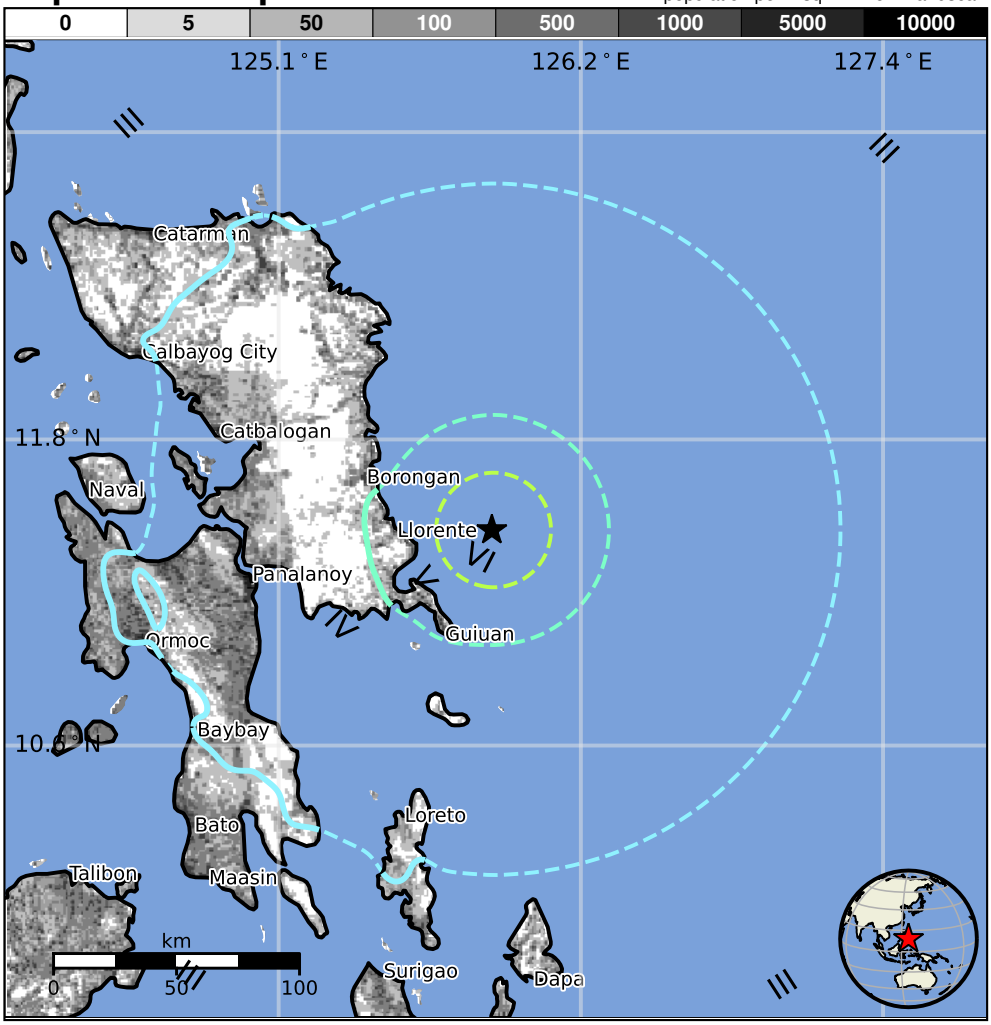
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	3,119k*	3,324k	221k	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	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

population per 1 sq. km from Landscan



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are unknown/miscellaneous types and heavy wood frame construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1999-12-15	153	4.8	VI(34k)	1
1987-05-23	380	5.7	VII(70k)	1
1989-12-15	349	7.5	VIII(1k)	2

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	Hernani	2k
V	**Llorente**	**8k**
V	Salcedo	4k
V	Cabay	2k
V	General MacArthur	4k
V	Maydolong	5k
IV	**Panalanoy**	**189k**
IV	**Catbalogan**	**68k**
IV	**Calbayog City**	**68k**
IV	**Ormoc**	**191k**
III	**Surigao**	**88k**

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/us7000l89a#pager

Event ID: us7000l89a