Earthquake Shaking **Green Alert**

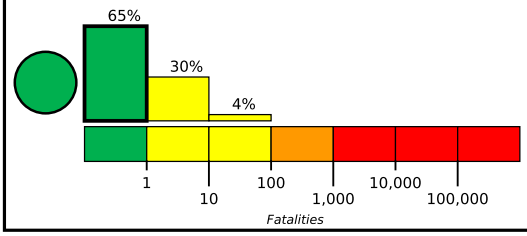
M 6.9, 35 km ENE of Aras-asan, Philippines

Origin Time: 2023-12-03 19:49:37 UTC (Mon 03:49:37 local)
Location: 8.9571° N 126.6277° E Depth: 30.5 km
FOR TSUNAMI INFORMATION, SEE: tsunami.gov

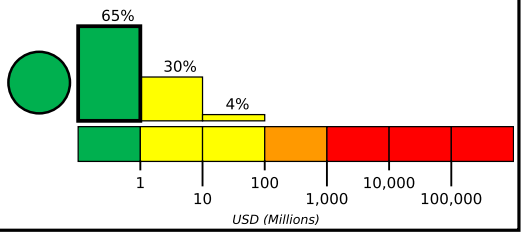
PAGER Version 3
Created: 2 hours, 5 minutes after earthquake

Estimated Fatalities

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



Estimated Economic Losses



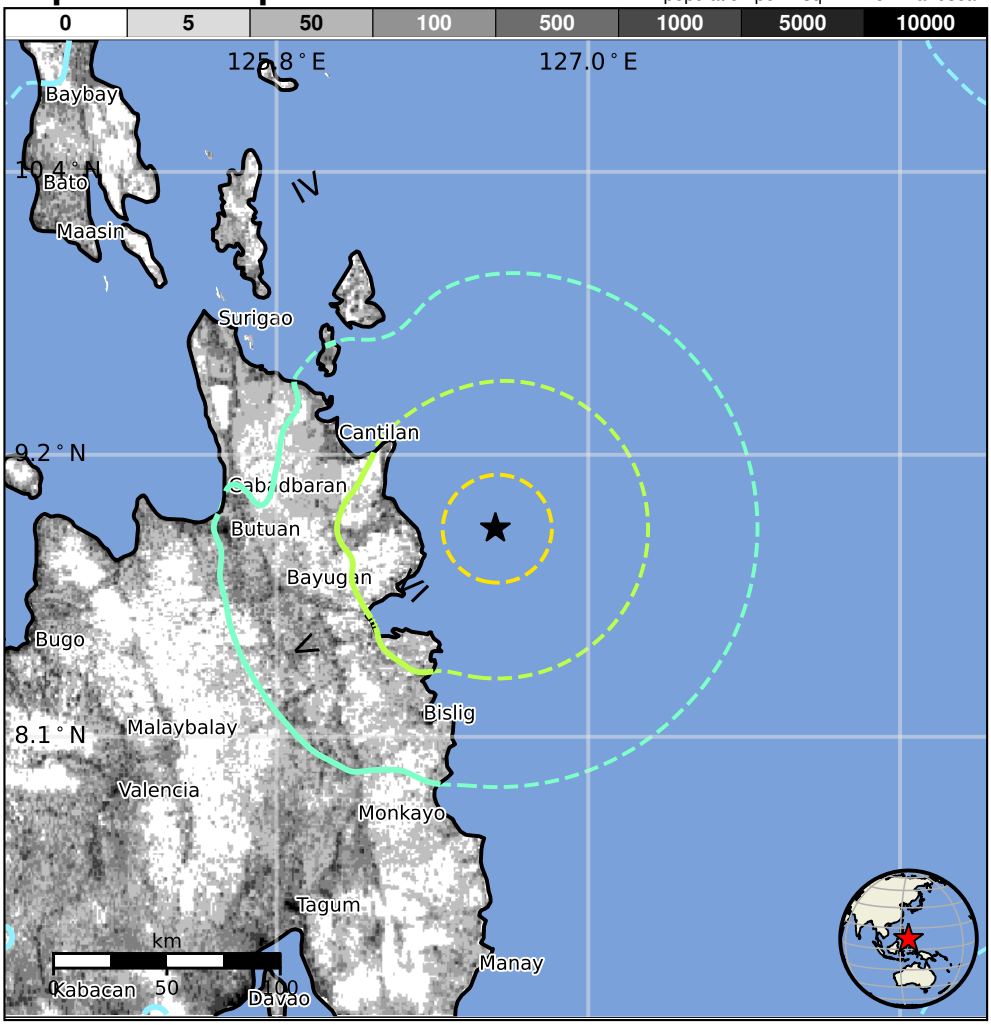
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	36k*	9,601k	1,718k	305k	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	347	4.8	VI(34k)	1
1987-05-23	163	5.7	VII(70k)	1
1989-12-15	66	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
VI	Cagwait	<1k
VI	Bayabas	<1k
VI	Aras-asan	5k
VI	Bacolod	2k
VI	La Paz	2k
VI	Marihatag	4k
V	**Butuan**	**310k**
V	Libertad	250k
IV	Magugpo	233k
IV	**Davao**	**1,213k**
IV	Cagayan de Oro	445k

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/us7000lfxx#pager

Event ID: us7000lfxx