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Earthquake Shaking Green Alert

GSN ANSS USAID FROM THE AMERICAN PEOPLE

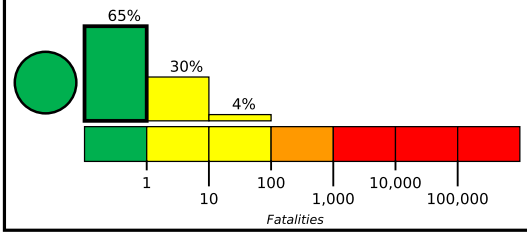
M 5.6, 68 km ENE of Barcelona, Philippines

Origin Time: 2023-12-03 10:53:06 UTC (Sun 18:53:06 local)
Location: 8.2878° N 127.0399° E Depth: 43.9 km

PAGER Version 3

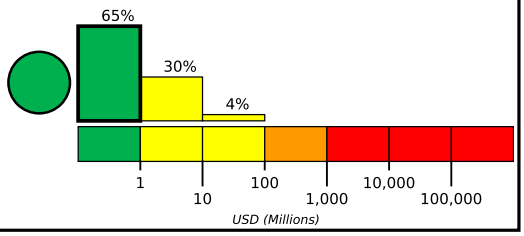
Created: 1 day, 0 hours after earthquake

Estimated Fatalities



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

Estimated Economic Losses



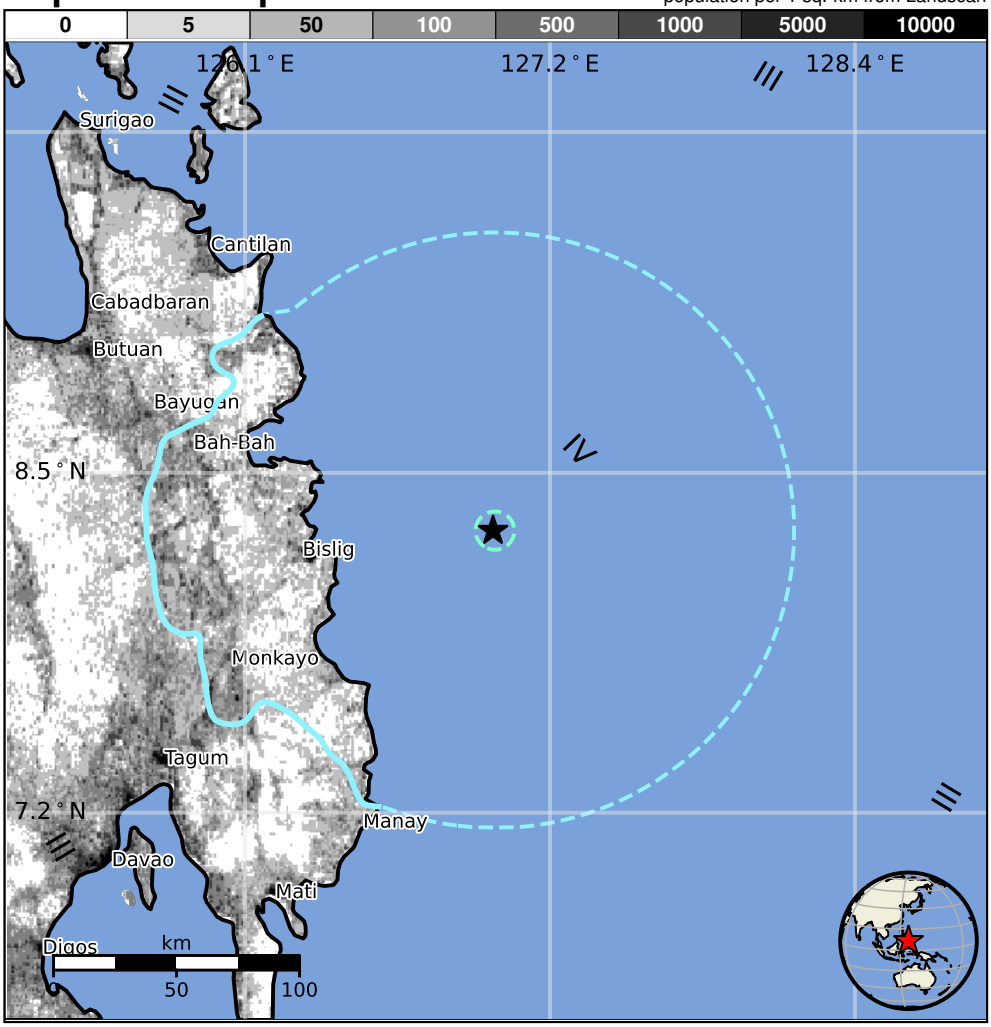
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	6,591k*	1,467k	0	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
1987-05-23	174	5.7	VII(70k)	1
1990-02-08	311	6.7	VIII(96k)	1
1989-12-15	39	7.5	VIII(1k)	2

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	**Bislig**	**68k**
IV	Hinatuan	10k
IV	Tidman	3k
IV	Barcelona	4k
IV	San Rafael	2k
IV	Lingig	6k
III	Magugpo	233k
III	Libertad	250k
III	**Butuan**	**310k**
III	**Davao**	**1,213k**
III	**Digos**	**116k**

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/us7000lfui#pager

Event ID: us7000lfui