Earthquake Shaking Green Alert

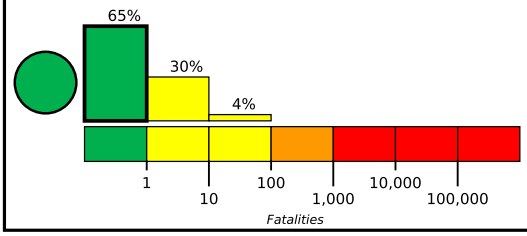
M 5.9, 18 km WSW of Batiano, Philippines

Origin Time: 2023-10-19 18:58:51 UTC (Fri 02:58:51 local)
Location: 7.4680° N 126.3431° E Depth: 10.1 km

PAGER Version 6

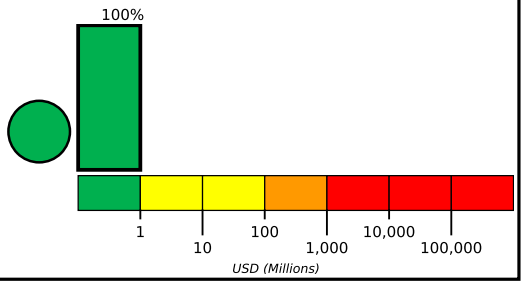
Created: 5 days, 1 hour after earthquake

Estimated Fatalities



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

Estimated Economic Losses



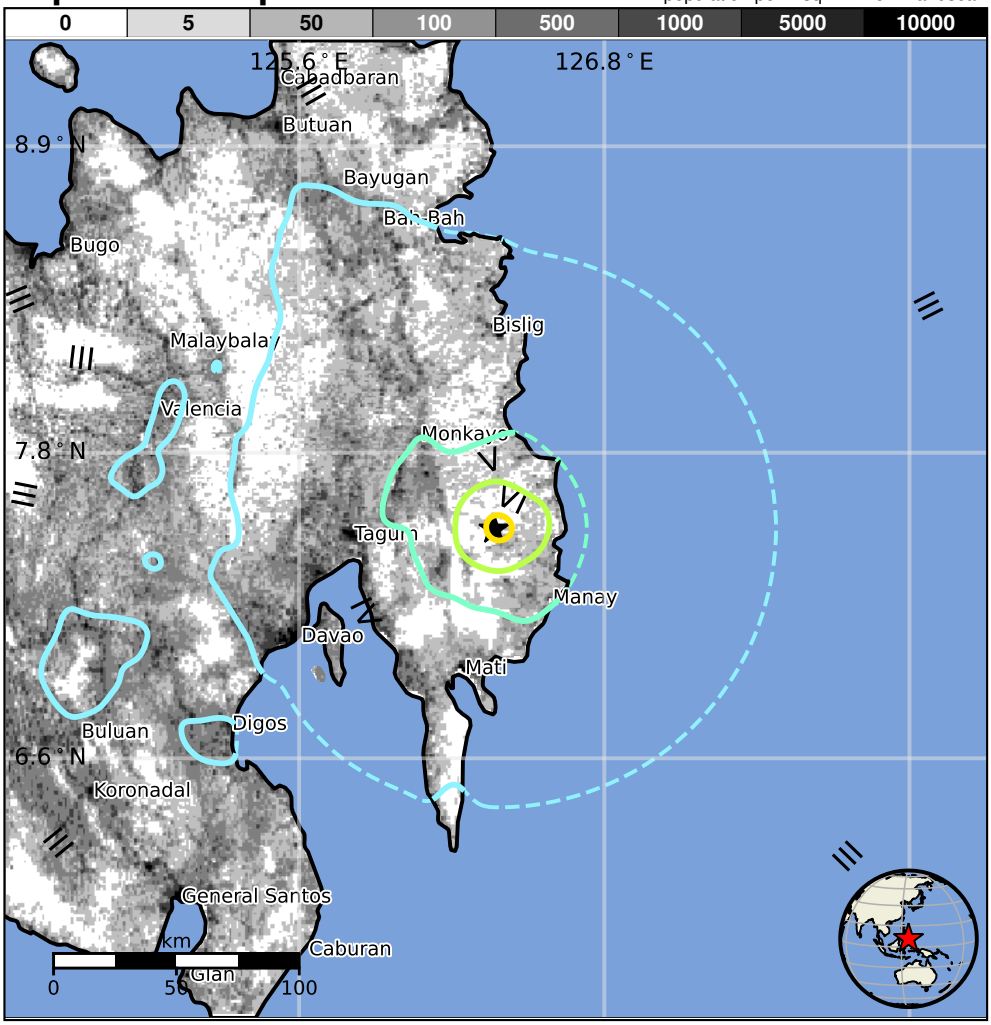
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	7,807k*	6,878k	685k	58k	3k	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	113	5.7	VII(70k)	1
1990-02-08	317	6.7	VIII(96k)	1
2002-03-05	285	7.5	VIII(12k)	15

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	Bantacan	3k
VI	Batiano	2k
VI	Baculin	3k
VI	Mahanob	4k
VI	San Pedro	4k
VI	San Rafael	2k
IV	**Davao**	**1,213k**
IV	**Butuan**	**310k**
III	**Koronadal**	**126k**
III	Cagayan de Oro	445k
III	**General Santos**	**680k**

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/us6000lgpg#pager

Event ID: us6000lgpg