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Earthquake Shaking Green Alert

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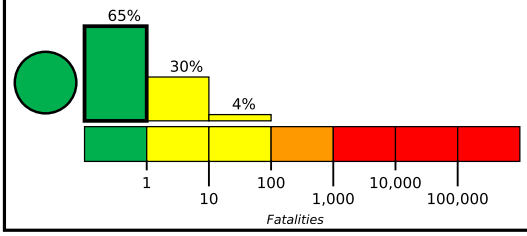
M 6.4, 66 km E of Sarangani, Philippines

Origin Time: 2023-10-04 11:21:48 UTC (Wed 19:21:48 local)
Location: 5.3416° N 126.0595° E Depth: 121.7 km

PAGER Version 3

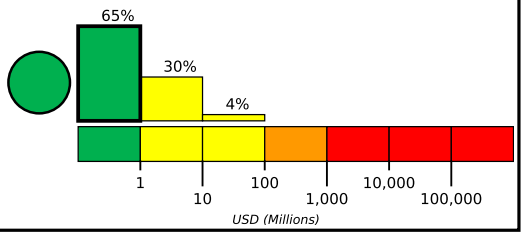
Created: 1 day, 0 hours after earthquake

Estimated Fatalities



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

Estimated Economic Losses



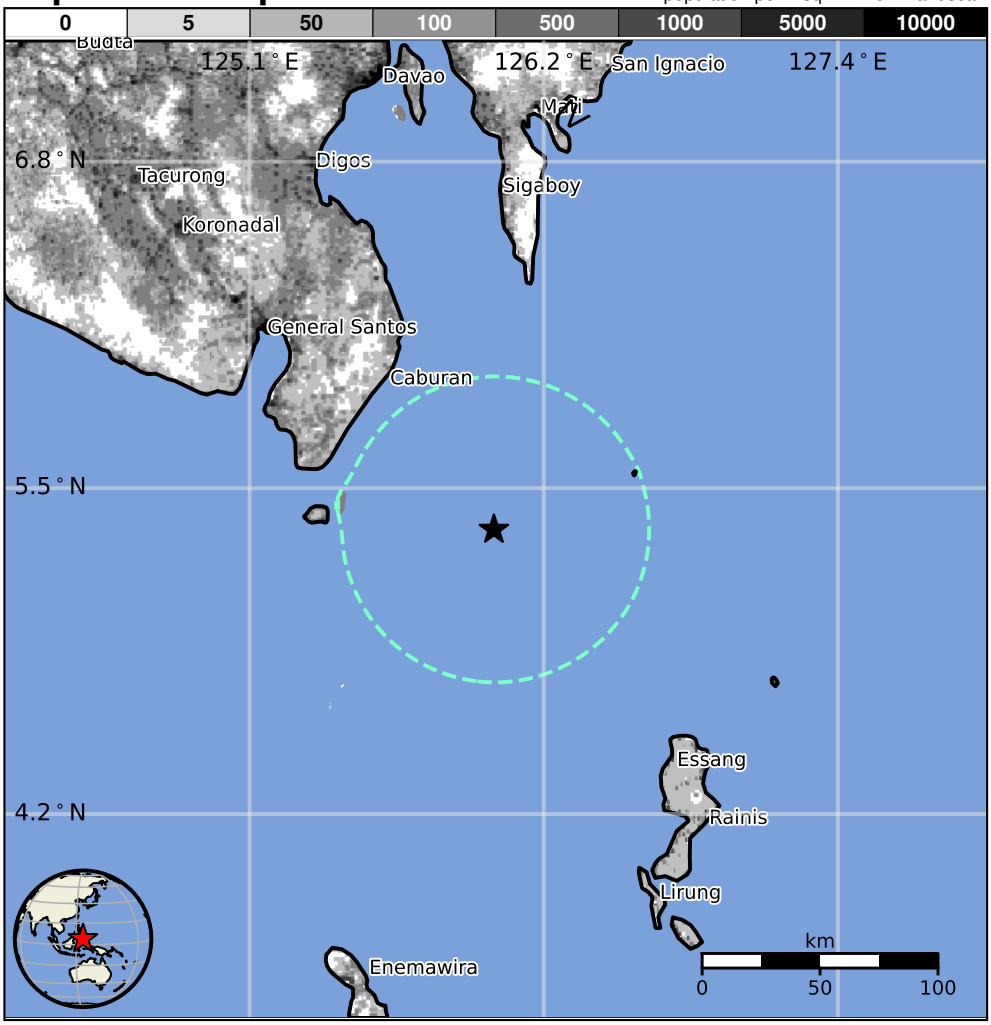
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	5k*	9,037k	26k	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	304	5.7	VII(70k)	1
1987-05-18	335	6.2	VIII(12k)	1
2002-03-05	218	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
V	Sarangani	8k
IV	Balangonan	2k
IV	Bukid	2k
IV	Butulan	2k
IV	Nuing	3k
IV	Lun Pequeno	12k
IV	**General Santos**	**680k**
IV	**Koronadal**	**126k**
IV	**Davao**	**1,213k**
IV	Malingao	1,122k
IV	**Budta**	**1,274k**

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/us6000lcri#pager

Event ID: us6000lcri