Earthquake Shaking Green Alert

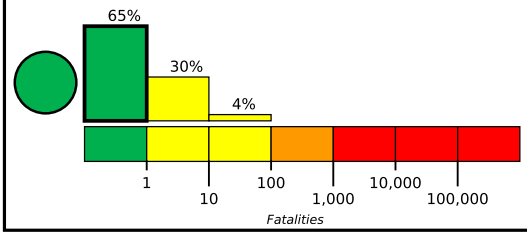
M 5.7, 53 km ESE of Marihatag, Philippines

Origin Time: 2023-12-02 17:55:26 UTC (Sun 01:55:26 local)
Location: 8.7034° N 126.7676° E Depth: 52.2 km

PAGER Version 3

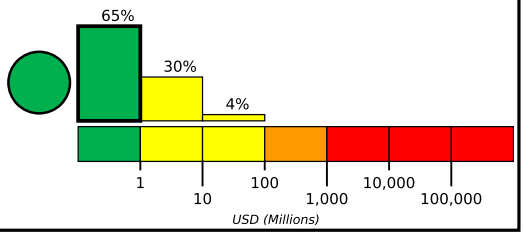
Created: 1 day, 0 hours after earthquake

Estimated Fatalities



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

Estimated Economic Losses



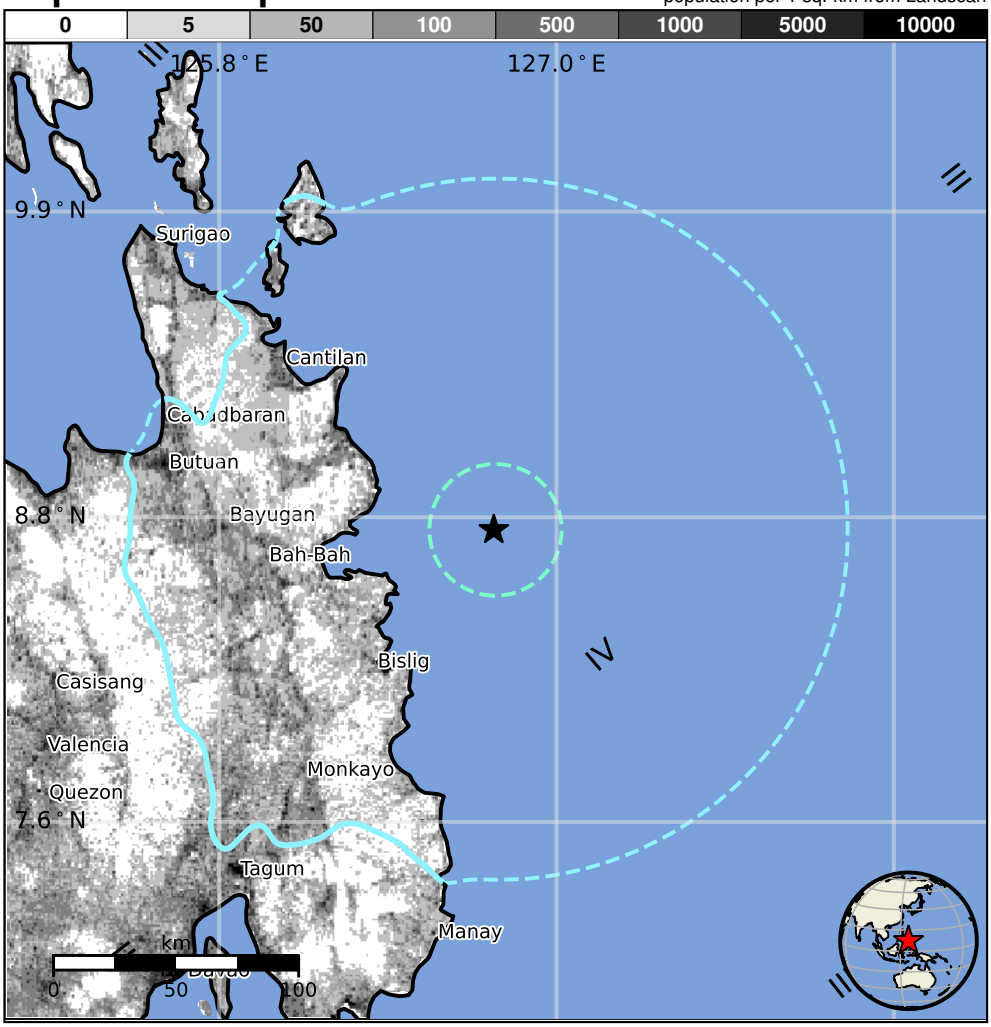
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	5,809k*	3,480k	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
1999-12-15	379	4.8	VI(34k)	1
1987-05-23	160	5.7	VII(70k)	1
1989-12-15	38	7.5	VIII(1k)	2

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Hinatuan	10k
IV	Marihatag	4k
IV	Salvacion	2k
IV	Cagwait	<1k
IV	Bayabas	<1k
IV	Unidad	3k
IV	**Butuan**	**310k**
IV	Libertad	250k
IV	Magugpo	233k
III	**Davao**	**1,213k**
III	Mati	106k

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/us7000lfk5#pager

Event ID: us7000lfk5