Earthquake Shaking Green Alert

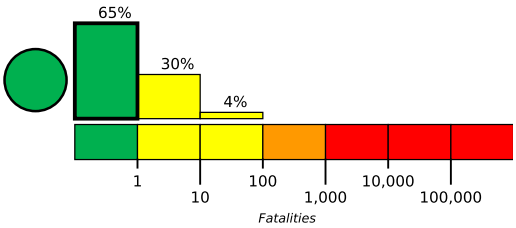
M 5.6, 23km SE of Bobon, Philippines

Origin Time: 2019-09-10 05:39:24 UTC (Tue 13:39:24 local)
Location: 6.7042° N 126.4689° E Depth: 55.5 km

PAGER Version 3

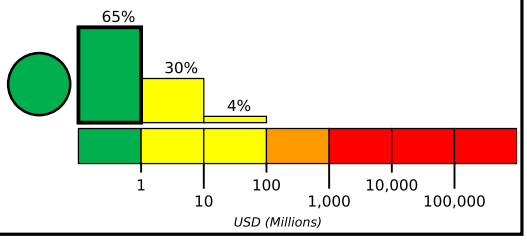
Created: 2 hours, 2 minutes after earthquake

Estimated Fatalities



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

Estimated Economic Losses



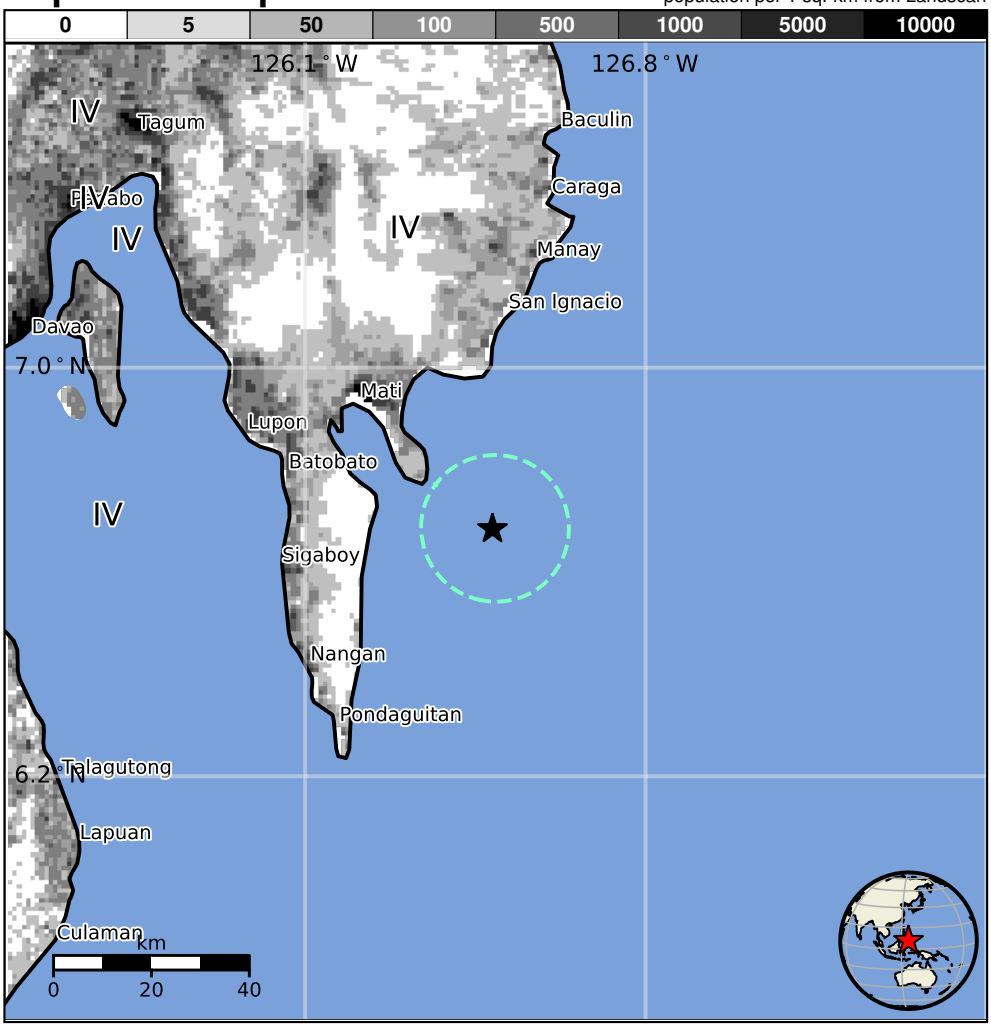
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	3k*	3,008k*	147k	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	182	5.7	VII(70k)	1
1990-02-08	396	6.7	VIII(96k)	1
2002-03-05	260	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	Bobon	5k
IV	**Davao**	**1,213k**
IV	Tamisan	3k
IV	Luzon	3k
IV	Manikling	2k
IV	Tibanbang	8k
IV	**Mati**	**106k**
IV	Magugpo	233k
IV	**Panabo**	**85k**
IV	Samal	44k
IV	Malita	41k

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/us70005dza#pager

Event ID: us70005dza