Earthquake Shaking Green Alert

M 5.6, 59 km W of Agat Village, Guam

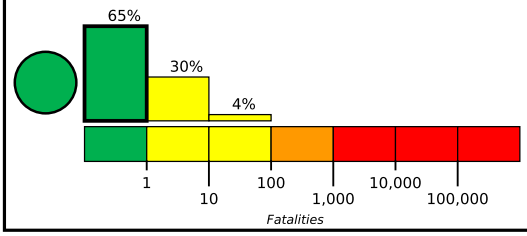
Origin Time: 2023-08-09 09:20:29 UTC (Wed 19:20:29 local)
Location: 13.4243° N 144.1103° E Depth: 451.0 km

PAGER Version 3

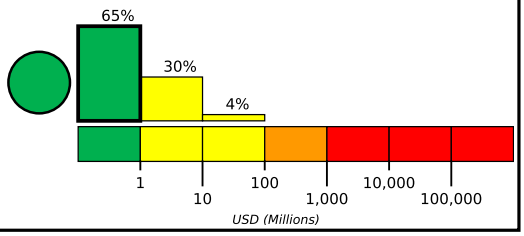
Created: 2 hours, 4 minutes after earthquake

Estimated Fatalities

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



Estimated Economic Losses



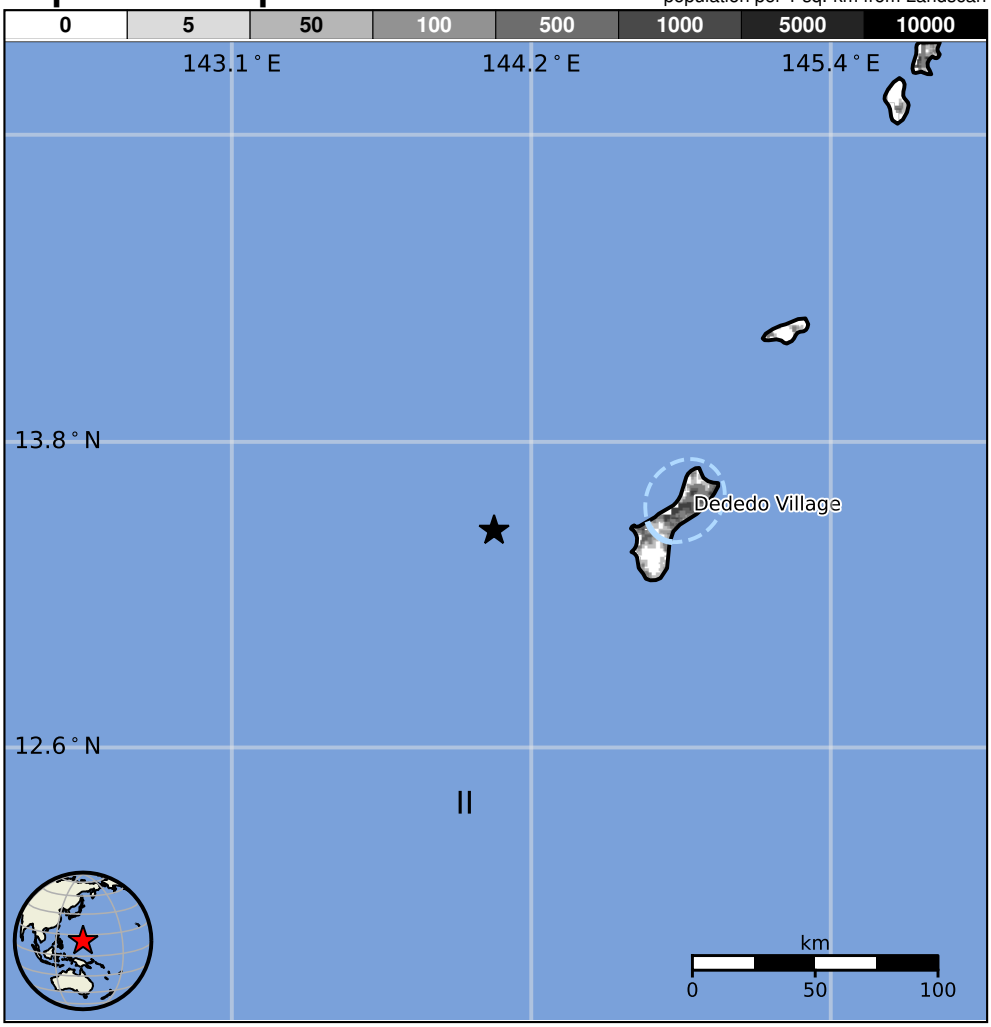
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	228k	0	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 informal (metal, timber, GI etc.) and unknown/miscellaneous types construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2001-10-12	125	7.0	VII(48k)	0
2002-04-26	70	7.0	VIII(2k)	0
1993-08-08	95	7.7	IX(3k)	0

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
III	**Dededo Village**	**45k**
III	Tamuning-Tumon-Harmon Village	20k
III	Barrigada Village	9k
III	Yigo Village	21k
III	Mongmong-Toto-Maite Village	7k
III	Mangilao Village	15k
III	Chalan Pago-Ordot Village	7k
III	Yona Village	6k
II	Santa Rita Village	8k
II	Saipan	48k
II	San Jose Village	15k

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/us6000kytu#pager

Event ID: us6000kytu