

M 5.4, LUZON, PHILIPPINES

Origin Time: Sun 2016-10-02 13:40:04 UTC (13:40:04 local)

Location: 16.48°N 119.75°E Depth: 10 km

Created: 5 weeks, 3 days after earthquake

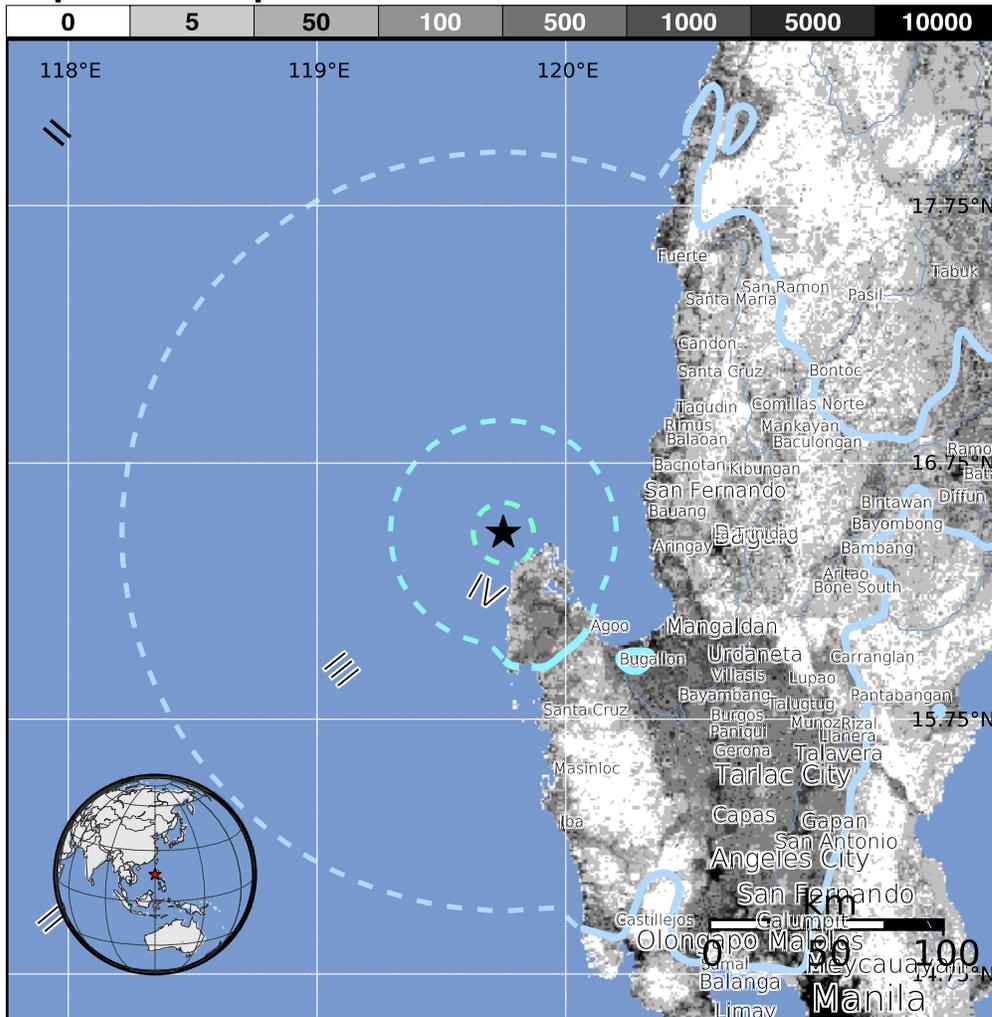


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		- -*	32,970k	1,181k	2k	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	Moderate/Heavy	Heavy	V. Heavy
	Vulnerable Structures	none	none	none	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures:

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction.

Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1974-02-03	286	5.9	V(123k)	0
1977-03-18	264	7.2	VIII(7)	1
1990-07-16	162	7.7	IX(893k)	2k

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
V	Lucero	3k
IV	Catuday	2k
IV	Binabalian Ricor	3k
IV	Balingasay	4k
IV	Bolinao	< 1k
IV	Zaragoza	7k
IV	San Fernando	83k
III	Baguio	273k
II	Manila	10,445k
II	Tuguegarao City	115k
II	Quezon City	2,762k

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.

<http://earthquake.usgs.gov/earthquakes/eventpage/us10006ui7>

Event ID: us10006ui7