

# M 7.5, BOUGAINVILLE REGION, PAPUA NEW GUINEA

Origin Time: Sat 2014-04-19 13:28:00 UTC (23:28:00 local)

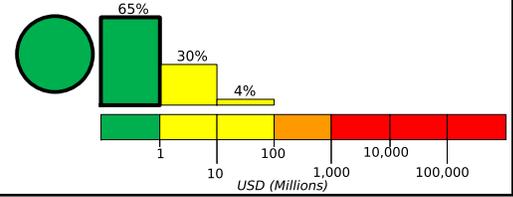
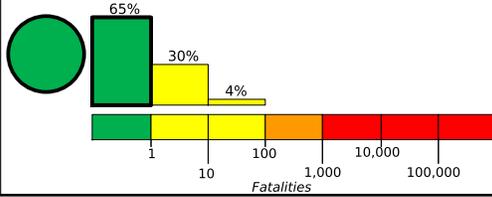
Location: 6.75°S 155.02°E Depth: 43 km

Created: 7 weeks, 2 days 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



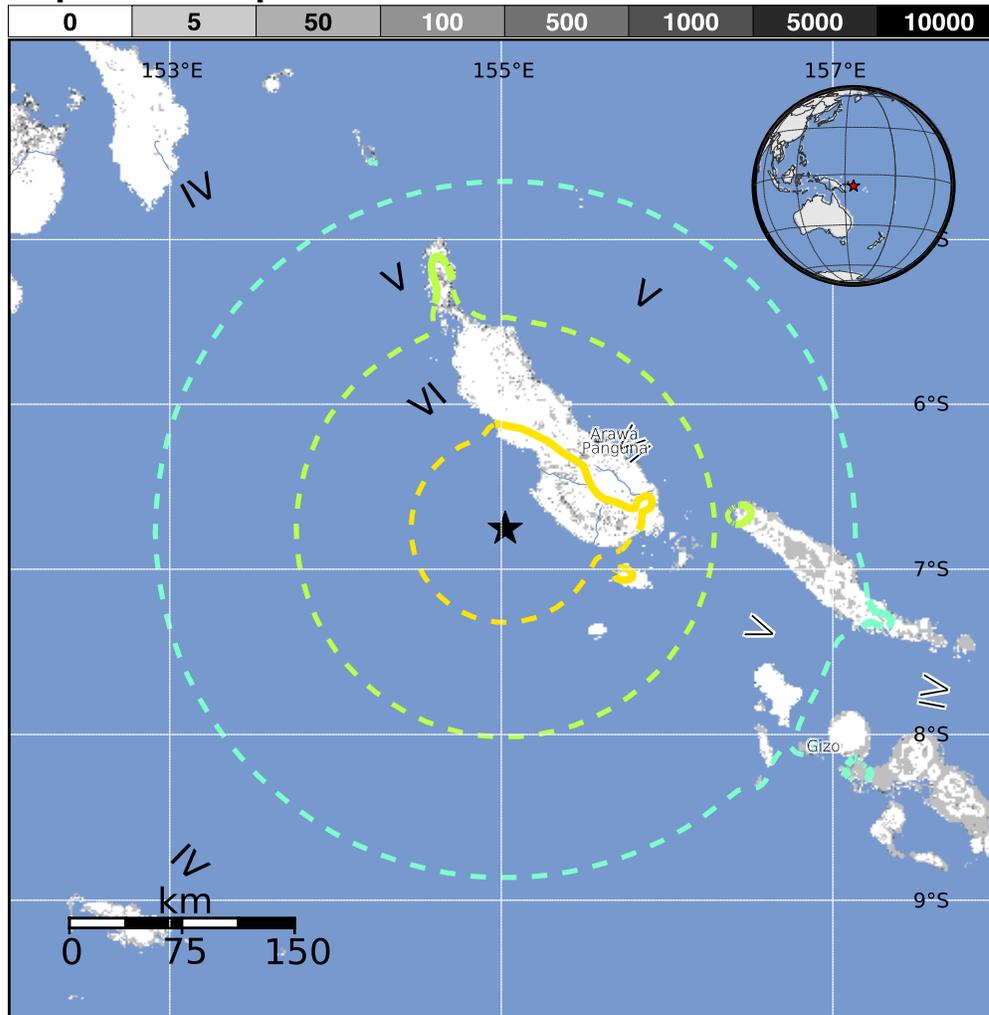
## Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)	--*	--*	291k*	68k	147k	44k	1k	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

population per ~1 sq. km from Landsat



## Structures:

Overall, the population in this region resides in structures that are vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are unreinforced brick masonry and informal (metal, timber, GI etc.) construction.

## Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1985-07-03	339	7.2	VII(18k)	0
1996-04-29	28	7.2	VIII(601)	1
1983-12-21	364	6.2	VII(5k)	10

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

## Selected City Exposure

from GeoNames.org

MMI City	Population
<b>VI Panguna</b>	3k
VI Kieta	4k
<b>VI Arawa</b>	40k
<b>V Gizo</b>	6k
IV Kokopo	26k
IV Rabaul	8k

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/pager>

Event ID: usb000pr89