

M 6.6, SUMBAWA REGION, INDONESIA

Origin Time: Sun 2009-11-08 19:41:46 UTC (03:41:46 local)

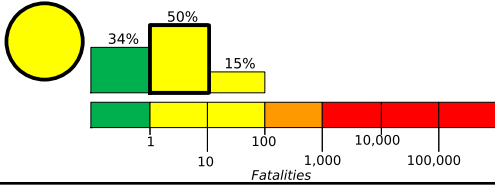
Location: 8.27°S 118.63°E Depth: 32 km

Created: 45 weeks, 5 days after earthquake

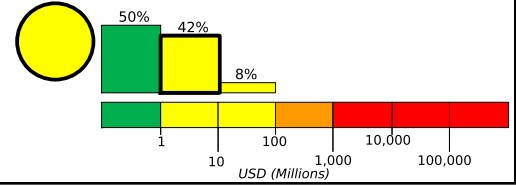
Estimated Fatalities

Yellow alert for shaking-related fatalities and economic losses. Some casualties and damage are possible and the impact should be relatively localized. Past yellow alerts have required a local or regional level response.

Estimated economic losses are less than 1% of GDP of Indonesia.



Estimated Economic Losses



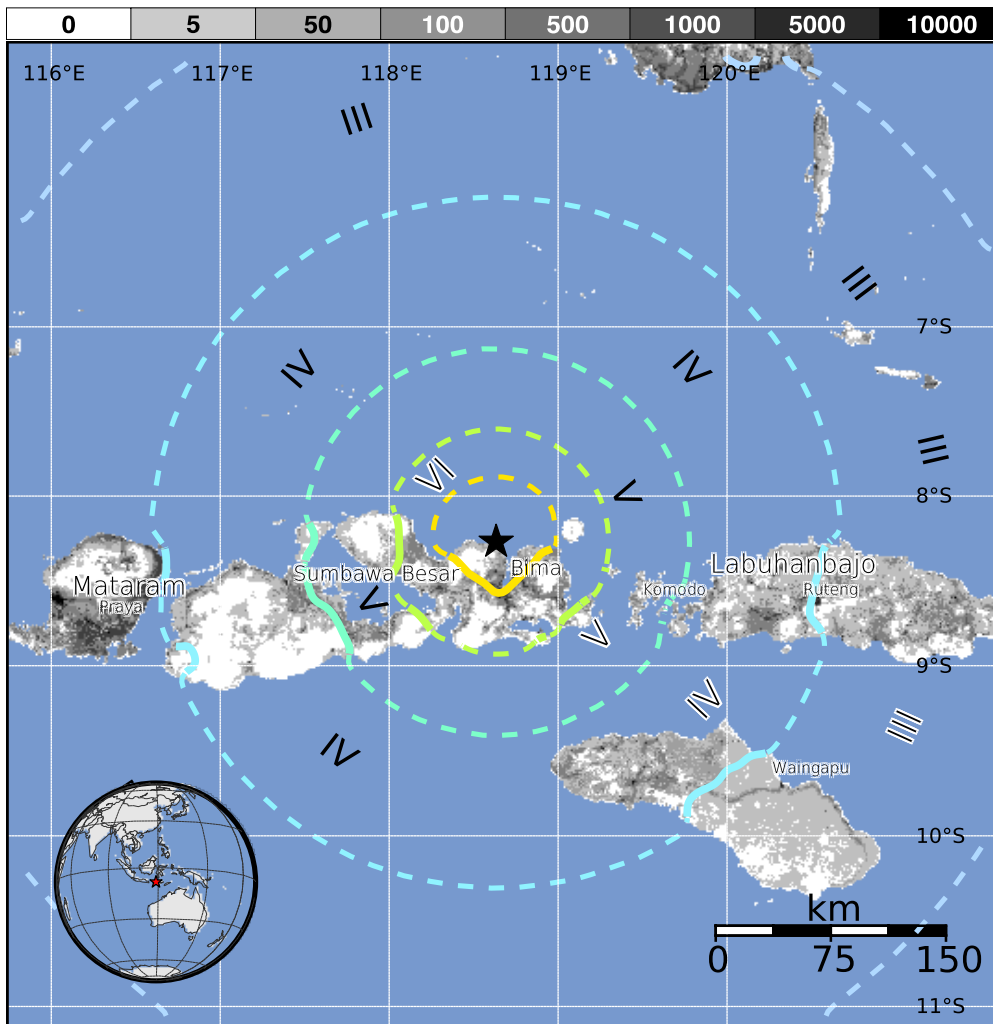
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)	--*	5,426k	1,416k	294k	547k	251k	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

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 concrete/cinder block masonry and nonductile reinforced concrete frame construction.

Historical Earthquakes (with MMI levels):

Date	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2003-03-25	216	6.4	VII(329k)	0
1979-05-30	301	6.2	VII(13k)	22
1979-12-17	316	6.5	VIII(22k)	32

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
VI	Bima	67k
IV	Komodo	2k
IV	Sumbawa Besar	53k
IV	Labuhanbajo	189k
III	Ruteng	35k
III	Waingapu	49k
III	Praya	35k
II	Matalam	319k
II	Galesong	83k

bold cities appear on map

(k = x1000)