

M 7.4, SIMEULUE, INDONESIA

Origin Time: Wed 2008-02-20 08:08:32 UTC

Location: 2.78°N 95.98°E Depth: 35 km

PAGER Version 2

Created: 12 hrs, 23 mins after earthquake

Estimated Population Exposed to Earthquake Shaking

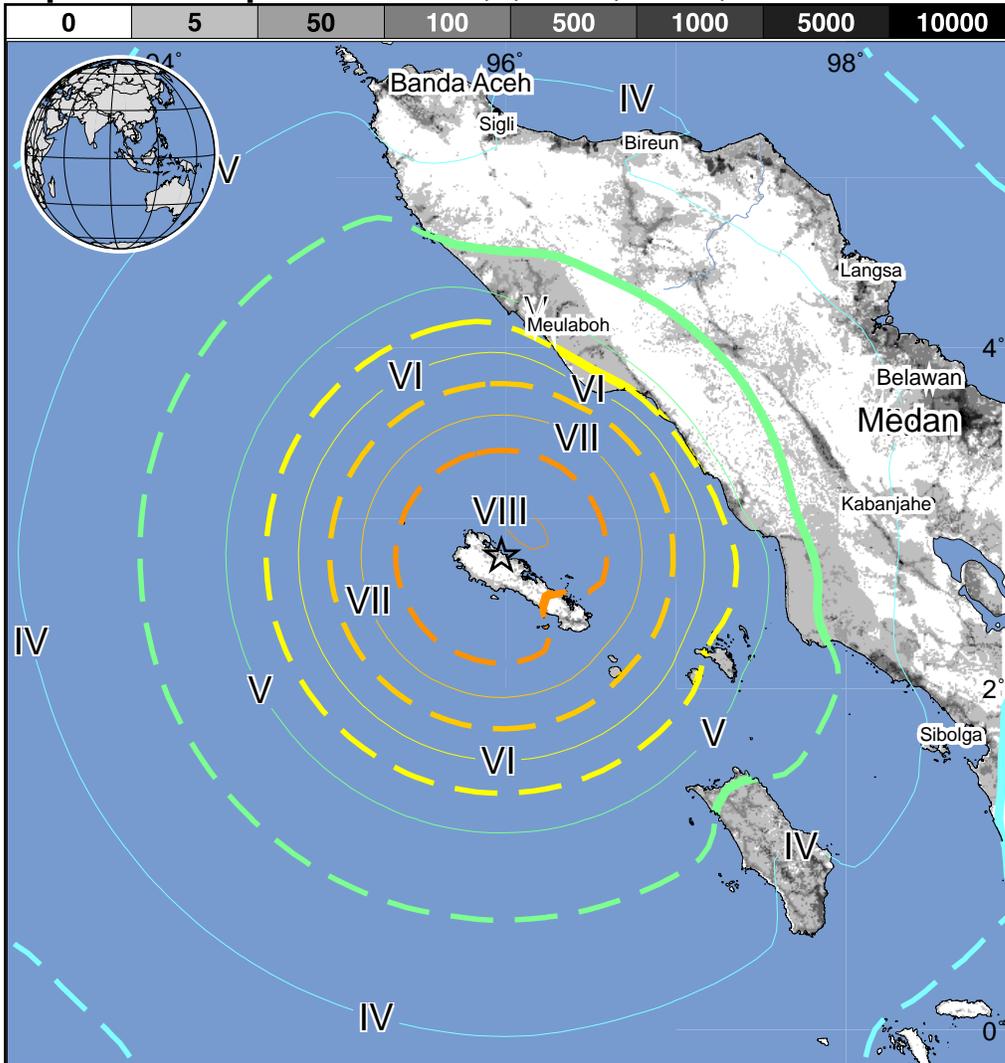
ESTIMATED POPULATION EXPOSURE (k = x1000)		--*	18k*	10,949k*	932k	20k	37k	48k	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	none	none	none	V. Light	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 2005

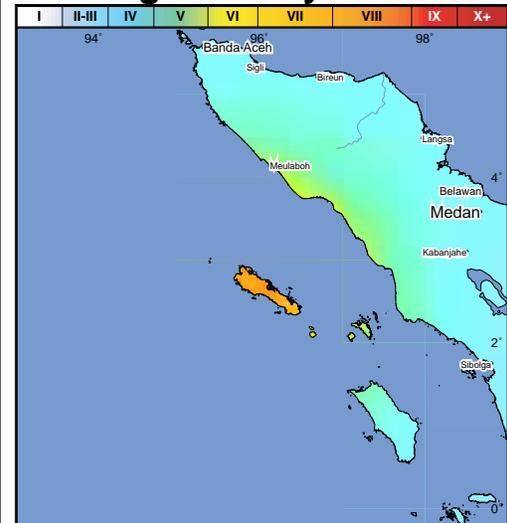
Selected City Exposure



MMI City	Population
V Meulaboh	35k
IV Banda Aceh	250k
IV Reuleuet	40k
IV Sigli	17k
IV Lhokseumawe	88k
IV Bireun	25k
IV Langsa	54k
IV Sunggal	157k
IV Medan	1,750k
IV Binjai	228k
IV Percut	311k

bold cities appear on map (k = x1000)

Shaking Intensity



Users should consider the preliminary nature of this information and check for updates as additional data becomes available. Population exposure estimates are NOT a direct estimate of earthquake damage; comparable shaking will result in significantly lower losses in regions with well built structures than in regions with vulnerable structures. Overall, structures in this region are vulnerable to earthquake shaking, though some resistant structures exist. A magnitude 9.0 earthquake struck the Sumatra - Andaman Islands, Indonesia region on December 26, 2004 (UTC), with estimated population exposures of 62,000 at intensity IX or greater and 1.6 million at intensity VIII, resulting in an estimated 297,200 deaths. Recent earthquakes in this area have also triggered landslide and liquefaction hazards that have contributed to losses.

This information was automatically generated and has not been reviewed by a seismologist.

<http://earthquake.usgs.gov/pager>

Event ID: us2008nran