USGS science for a changing world

Earthquake Shaking Green Alert

GSN ANSS USAID FROM THE AMERICAN PEOPLE

M 5.8, NEAR S. COAST OF WESTERN HONSHU, JAPAN

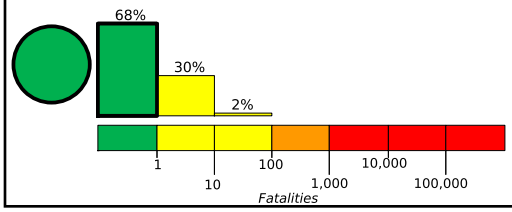
Origin Time: Fri 2013-04-12 20:33:17 UTC (05:33:17 local)

Location: 34.37°N 134.84°E Depth: 14 km

PAGER
Version 8

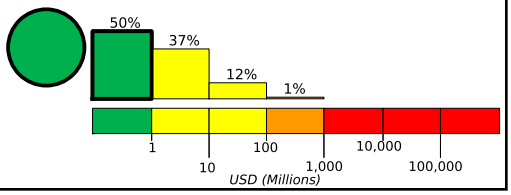
Created: 4 weeks, 0 days after earthquake

Estimated Fatalities



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

Estimated Economic Losses



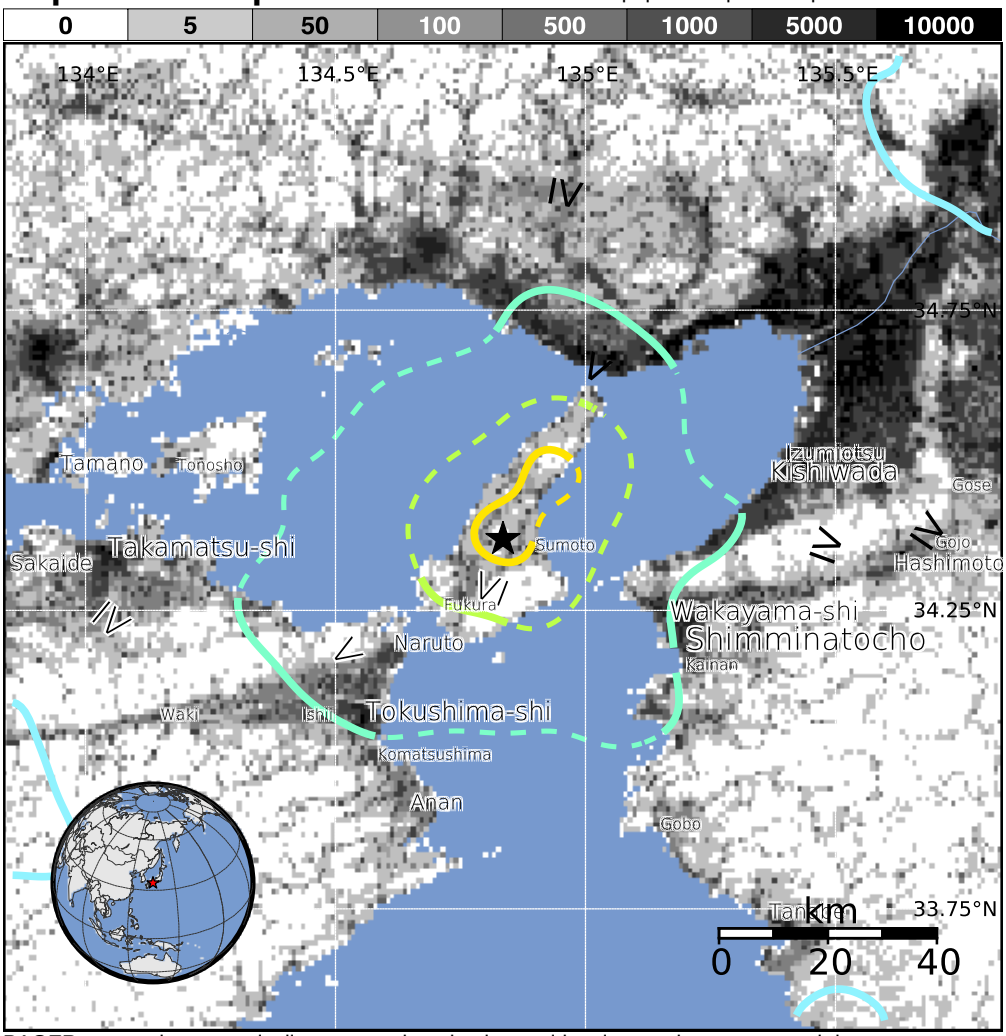
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		- -*	1,631k*	16,853k*	2,118k	67k	65k	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 Landscan



Structures:
Overall, the population in this region resides in structures that are resistant to earthquake shaking, though some vulnerable structures exist.

Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1978-01-14	368	5.8	VIII(738)	0
2001-03-24	213	6.8	VIII(5k)	2
1995-01-16	25	6.9	IX(1,740k)	6k

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

Selected City Exposure

from GeoNames.org

MMI	City	Population
VII	**Sumoto**	**40k**
V	**Naruto**	**64k**
V	**Fukura**	**19k**
V	Akashi	297k
V	**Shimminatocho**	**375k**
V	Kakogawa	272k
IV	Kobe-shi	1,528k
IV	Osaka-shi	2,592k
IV	Okayama-shi	640k
IV	Nara-shi	367k
III	Kyoto	1,460k

bold cities appear on map (k = x1000)

http://earthquake.usgs.gov/pager

Event ID: usb000g5yg