

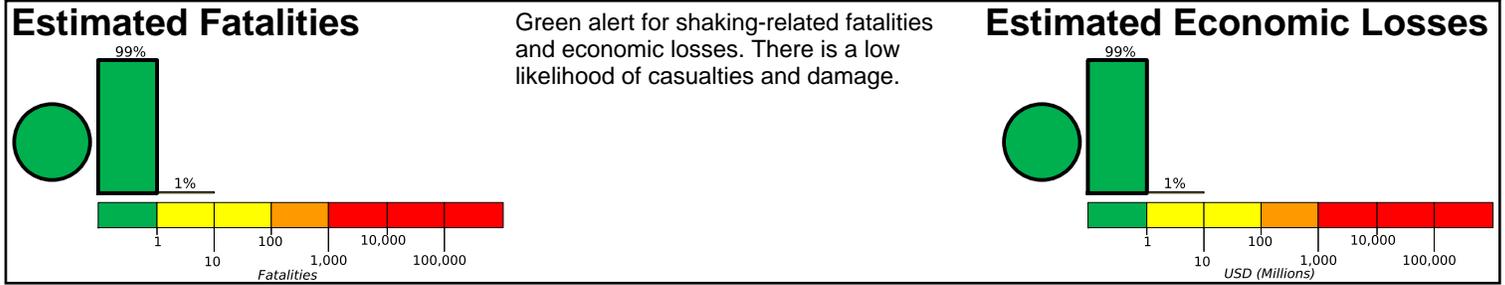
M 5.4, NEAR THE EAST COAST OF HONSHU, JAPAN

Origin Time: Tue 2013-02-19 12:27:38 UTC (21:27:38 local)

Location: 35.25°N 140.96°E Depth: 35 km

Created: 1 week, 1 day after earthquake

PAGER Version 4

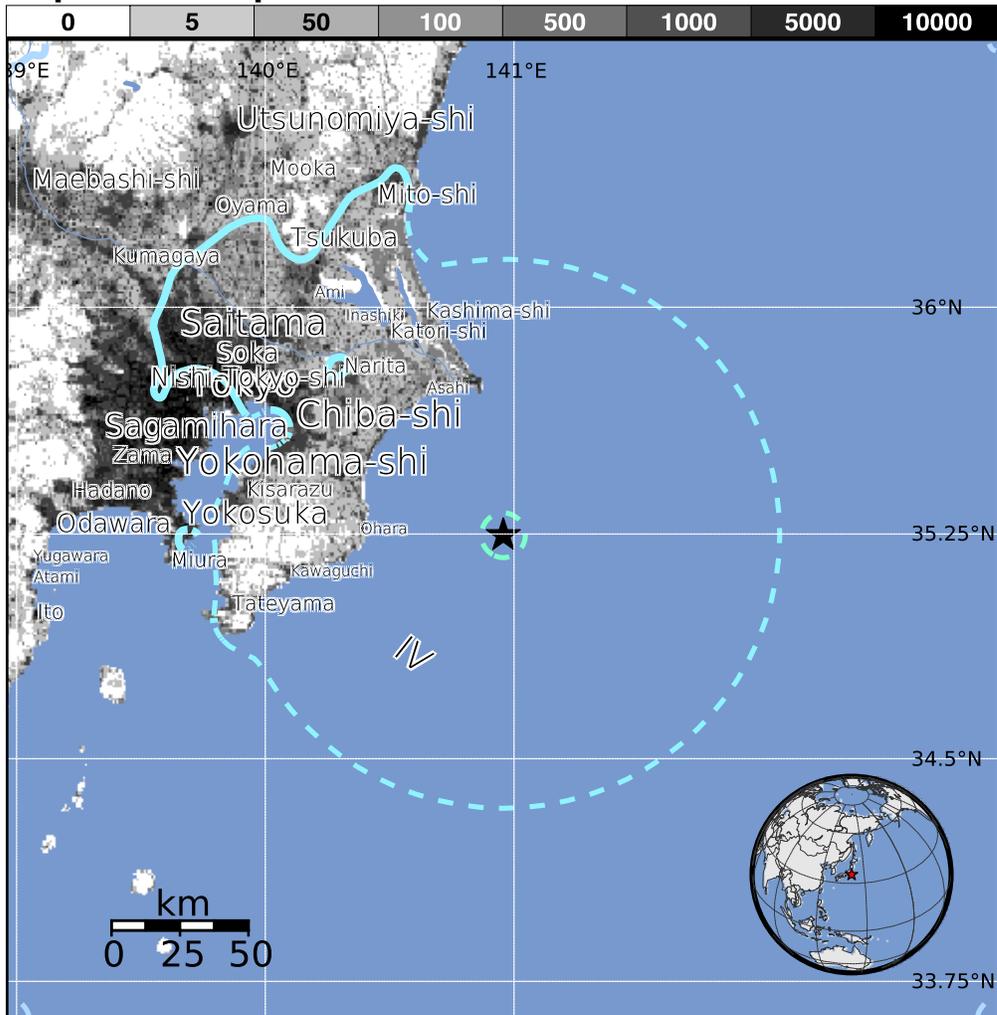


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		--*	25,527k*	15,334k	0	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 resistant to earthquake shaking, though some vulnerable structures exist.

Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1990-09-23	307	6.5	V(16k)	0
1980-09-23	138	5.3	V(12,718k)	1
1974-05-08	213	6.7	IX(30k)	27

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

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Hasaki	39k
IV	Asahi	42k
IV	Naruto	26k
IV	Togane	66k
IV	Ohara	20k
IV	Yachimata	83k
IV	Saitama	1,193k
IV	Chiba-shi	920k
III	Utsunomiya-shi	450k
III	Yokohama-shi	3,574k
III	Tokyo	8,337k

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: usc000fa48