USGS science for a changing world

Earthquake Shaking Green Alert

GSN ANSS USAID FROM THE AMERICAN PEOPLE

M 6.2, OFF THE EAST COAST OF HONSHU, JAPAN

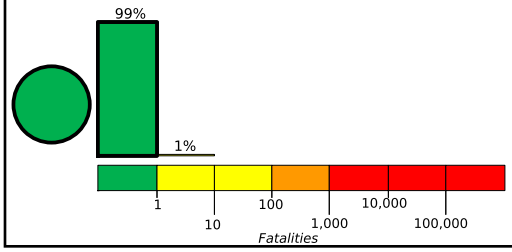
Origin Time: Fri 2016-09-23 00:14:34 UTC (00:14:34 local)

Location: 34.46°N 141.64°E Depth: 10 km

PAGER Version 6

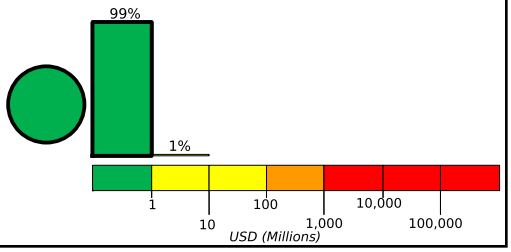
Created: 2 weeks, 1 day after earthquake

Estimated Fatalities



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

Estimated Economic Losses



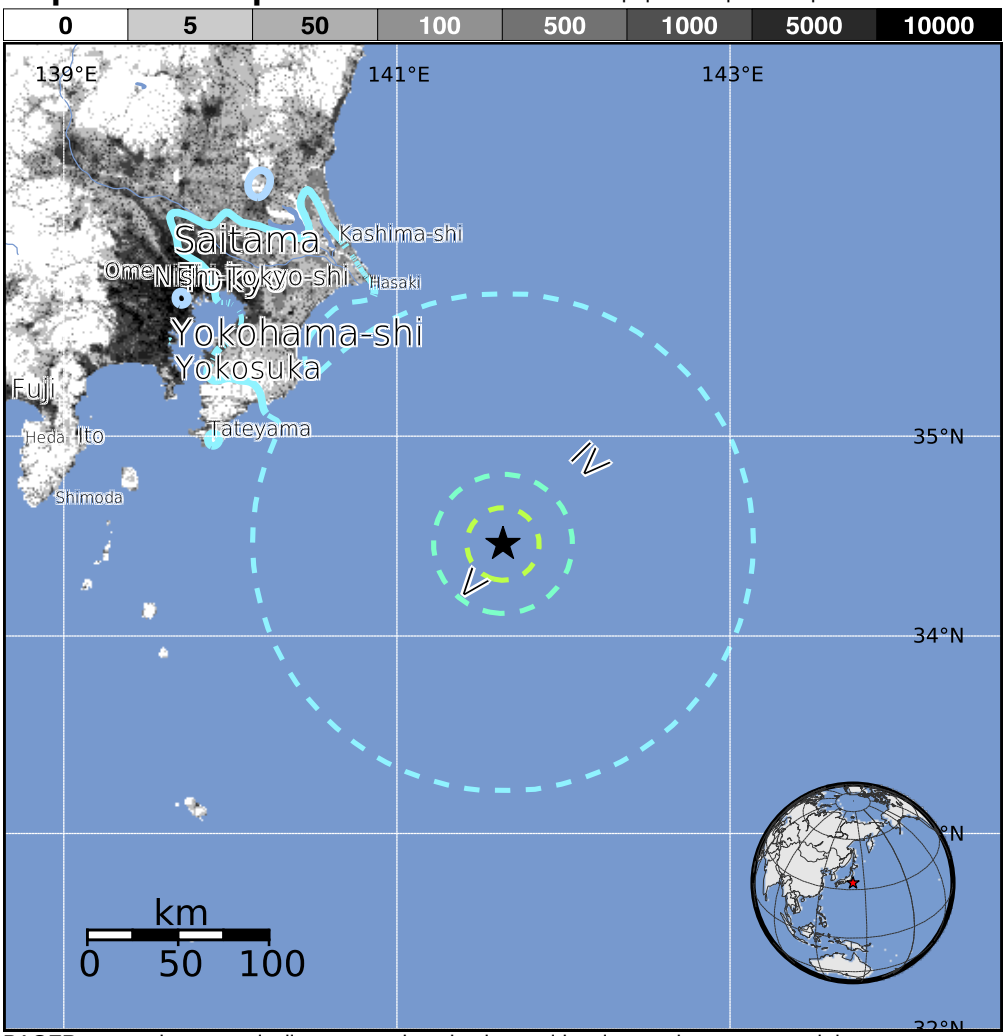
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		- -*	32,129k*	11,473k	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

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
1990-09-23	323	6.5	V(16k)	0
1980-09-23	249	5.3	V(12,718k)	1
1974-05-08	276	6.7	IX(30k)	27

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
IV	Togane	66k
IV	Naruto	26k
IV	Kawaguchi	29k
IV	Ichihara	284k
IV	Ohara	20k
IV	Oami	53k
IV	Chiba-shi	920k
IV	**Yokohama-shi**	**3,574k**
III	**Saitama**	**1,193k**
III	Utsunomiya-shi	450k
II	**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/earthquakes/eventpage/us10006rte

Event ID: us10006rte