

# M 5.6, NEAR THE EAST COAST OF HONSHU, JAPAN

Origin Time: Mon 2013-04-29 13:01:46 UTC (22:01:46 local)

Location: 35.70°N 140.95°E Depth: 53 km

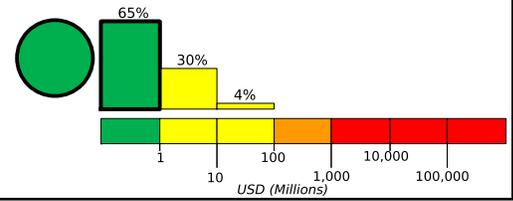
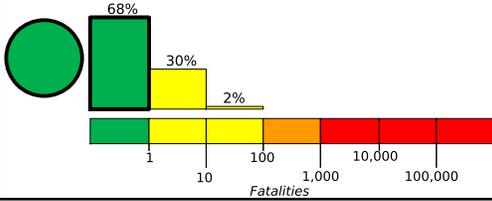
Created: 1 week, 6 days after earthquake

## PAGER Version 2

### Estimated Fatalities

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

### Estimated Economic Losses



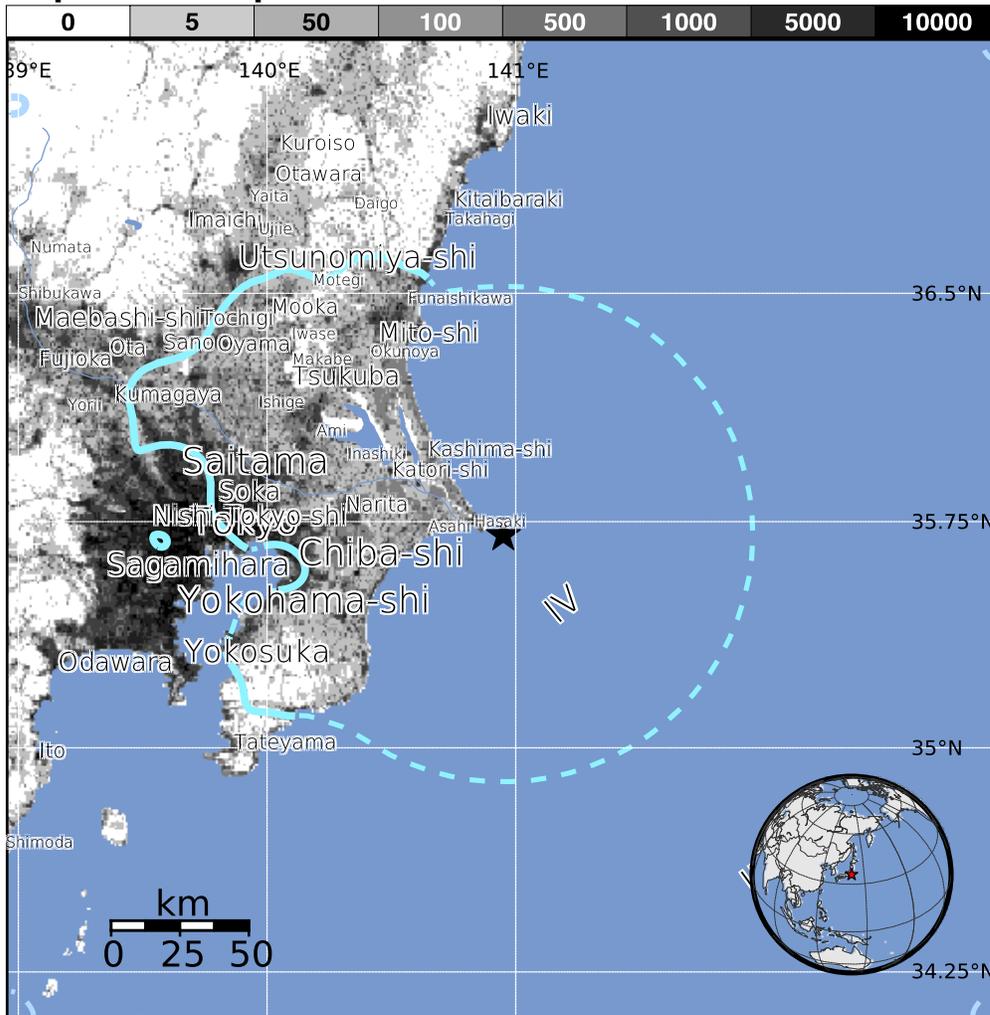
### Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)	- -*	27,597k*	14,112k	51k	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 Landsat



### 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
1978-06-12	296	5.7	V(281k)	0
1980-09-23	112	5.3	V(12,718k)	1
1974-05-08	236	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
<b>V Asahi</b>	42k
<b>IV Hasaki</b>	39k
IV Itako	26k
IV Yokaichiba	33k
IV Naruto	26k
IV Togane	66k
<b>III Utsunomiya-shi</b>	450k
<b>III Chiba-shi</b>	920k
<b>III Tokyo</b>	8,337k
<b>III Saitama</b>	1,193k
<b>III Yokohama-shi</b>	3,574k

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: usb000ghg0