

M 7.3, 57 km ENE of Namie, Japan

Origin Time: 2022-03-16 14:36:33 UTC (Wed 23:36:33 local)

Location: 37.7015° N 141.5870° E Depth: 63.1 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

Created: 28 minutes, 56 seconds after earthquake

PAGER
Version 1

Estimated Fatalities

Fatalities: 1, 10, 100, 1,000, 10,000, 100,000

Yellow alert for economic losses. Some damage is possible and the impact should be relatively localized. Estimated economic losses are less than 1% of GDP of Japan. Past events with this alert level have required a local or regional level response.

Green alert for shaking-related fatalities. There is a low likelihood of casualties.

Estimated Economic Losses

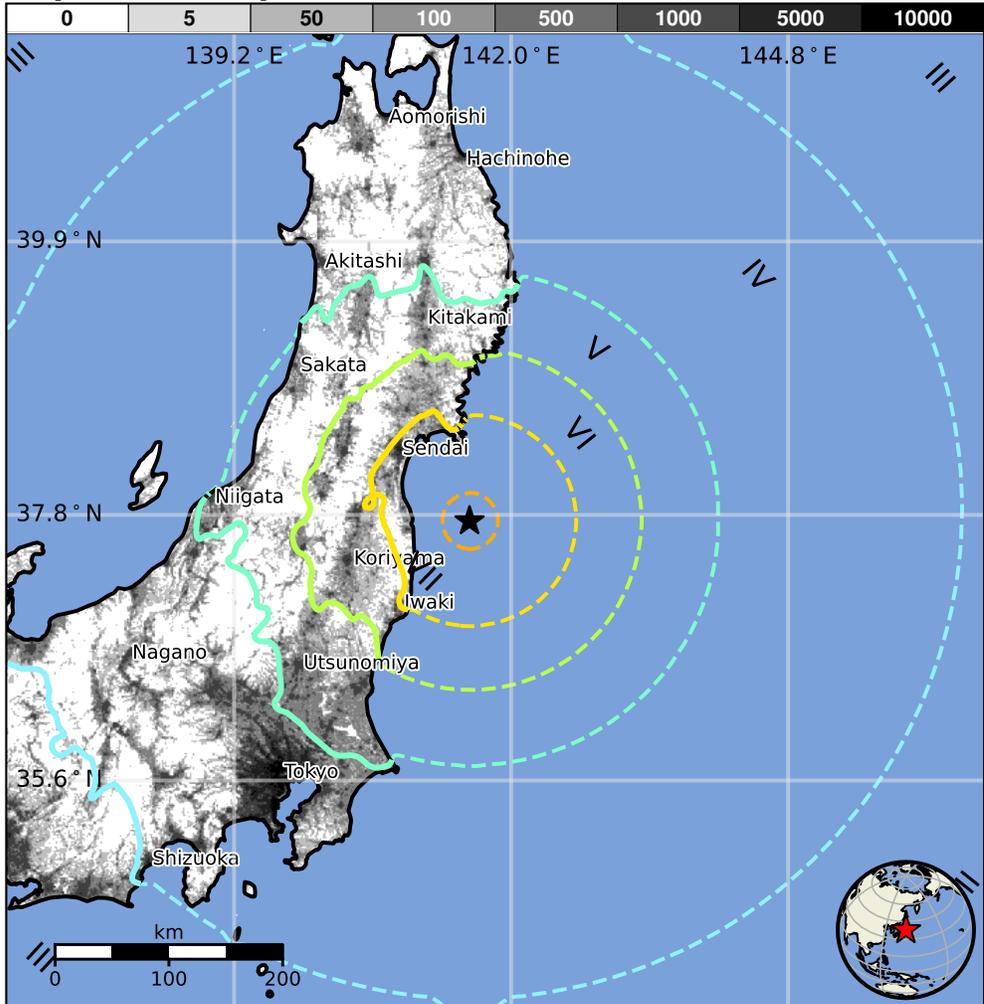
USD (Millions): 1, 10, 100, 1,000, 10,000, 100,000

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	5,285k*	46,939k	7,379k	3,200k	2,046k	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	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./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 vulnerable structures exist. The predominant vulnerable building types are heavy wood frame and reinforced/confined masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1983-08-08	333	5.6	VII(7k)	1
1987-12-17	278	6.5	VII(8,018k)	2
1983-05-26	375	7.7	VII(174k)	104

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

Selected City Exposure

from GeoNames.org

MMI	City	Population
VII	Namie	22k
VII	Watari	36k
VII	Iwanuma	42k
VII	Marumori	17k
VII	Kakuda	33k
VII	Shiogama	60k
VII	Sendai	1,063k
IV	Saitama	1,193k
IV	Tokyo	8,337k
IV	Chiba	920k
IV	Yokohama	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.

<https://earthquake.usgs.gov/earthquakes/eventpage/us6000h519#pager>

Event ID: us6000h519