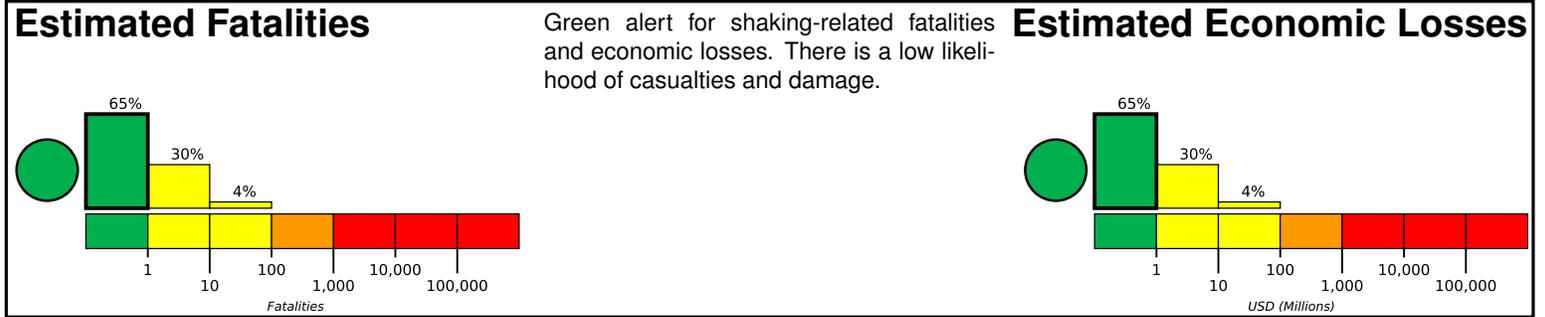


M 5.8, 82 km ENE of Yokohama, Japan

Origin Time: 2023-11-19 21:01:30 UTC (Mon 06:01:30 local)
Location: 41.2349° N 142.2140° E Depth: 42.0 km

PAGER Version 7

Created: 5 weeks, 3 days after earthquake

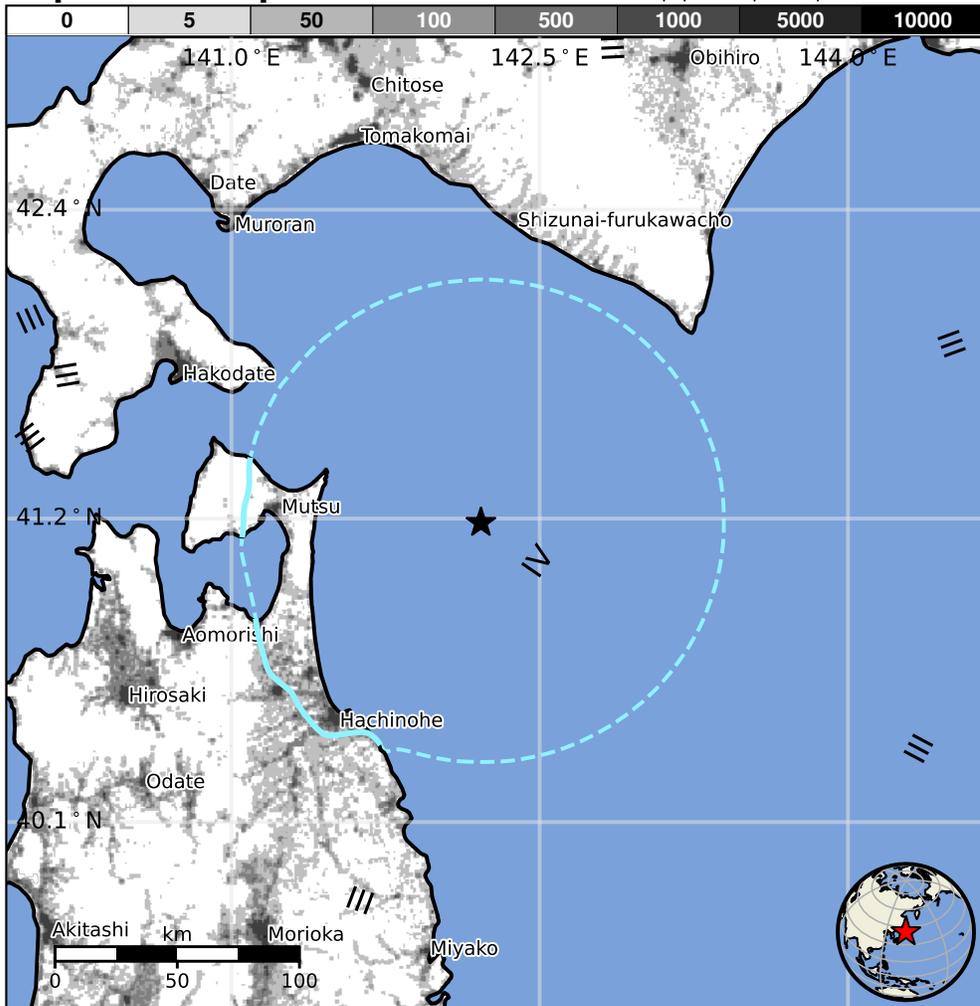


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	4,285k*	546k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	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
1994-12-28	128	7.7	VII(130k)	3
1983-05-26	275	7.7	VII(174k)	104
1993-07-12	307	7.7	VIII(4k)	200

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	Mutsu	49k
IV	Misawa	43k
IV	Uchimaruru	<1k
IV	Hachinohe	239k
IV	Furudate	<1k
IV	Inuotose	<1k
III	Aomorishi	298k
III	Hakodate	276k
III	Morioka	295k
III	Akita	326k
III	Akita	320k

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.

bold cities appear on map.

(k=x1000)