Earthquake Shaking **Green Alert**

M 5.5, OFF THE EAST COAST OF KAMCHATKA, RUSSIA

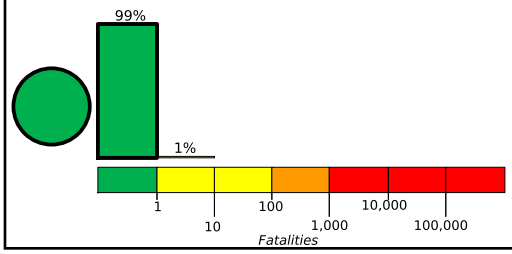
Origin Time: Tue 2013-05-21 03:05:50 UTC (14:05:50 local)

Location: 52.37°N 160.36°E Depth: 14 km

PAGER Version 1

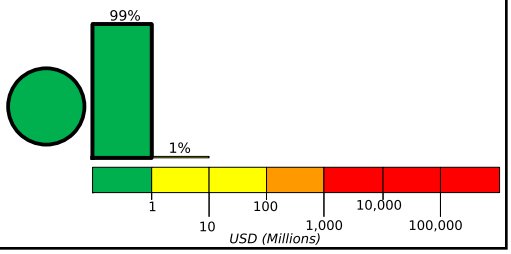
Created: 21 minutes, 57 seconds after earthquake

Estimated Fatalities



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

Estimated Economic Losses



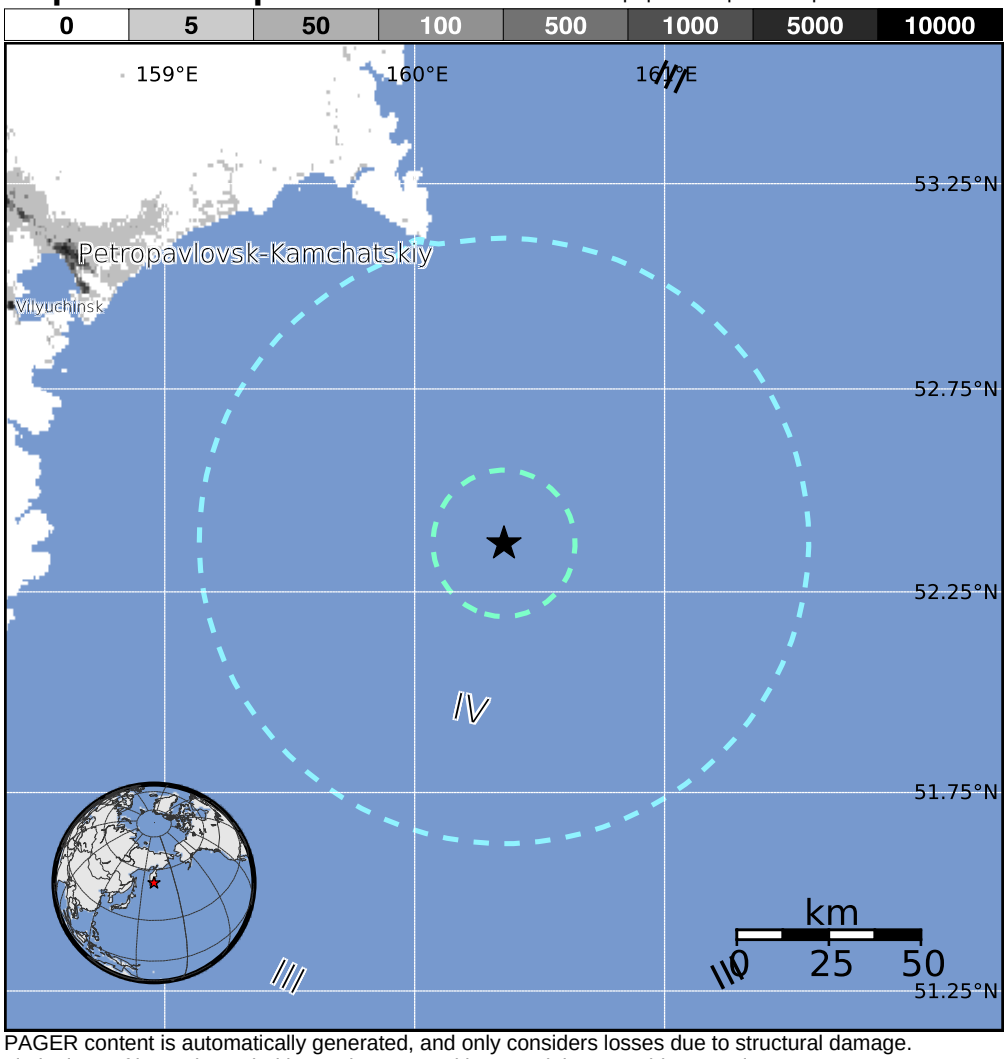
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		- -*	248k*	0	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 a mix of vulnerable and earthquake resistant construction.

Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1996-06-21	121	6.7	V(280k)	0
1996-01-01	184	6.6	VIII(157)	0
1973-02-28	333	7.2	VIII(776)	0

Selected City Exposure

from GeoNames.org

MMI	City	Population
III	**Vilyuchinsk**	**25k**
III	Yelizovo	41k

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: usb000h0fe