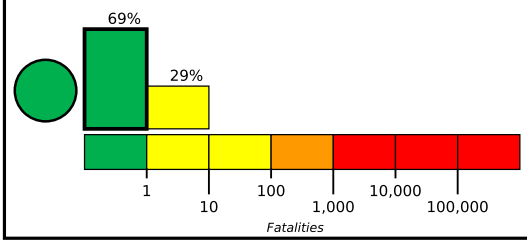
Earthquake Shaking Yellow Alert

M 8.2, 104 km SE of Perryville, Alaska

Origin Time: 2021-07-29 06:15:48 UTC (Wed 19:15:48 local)
Location: 55.4516° N 157.9640° W Depth: 28.8 km
FOR TSUNAMI INFORMATION, SEE: tsunami.gov

PAGER Version 4
Created: 10 hours, 19 minutes after earthquake

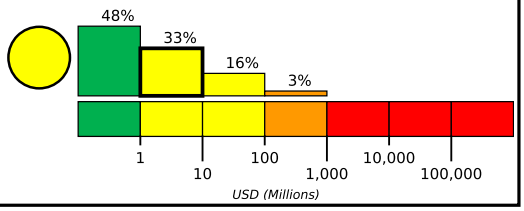
Estimated Fatalities



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 the United States. 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



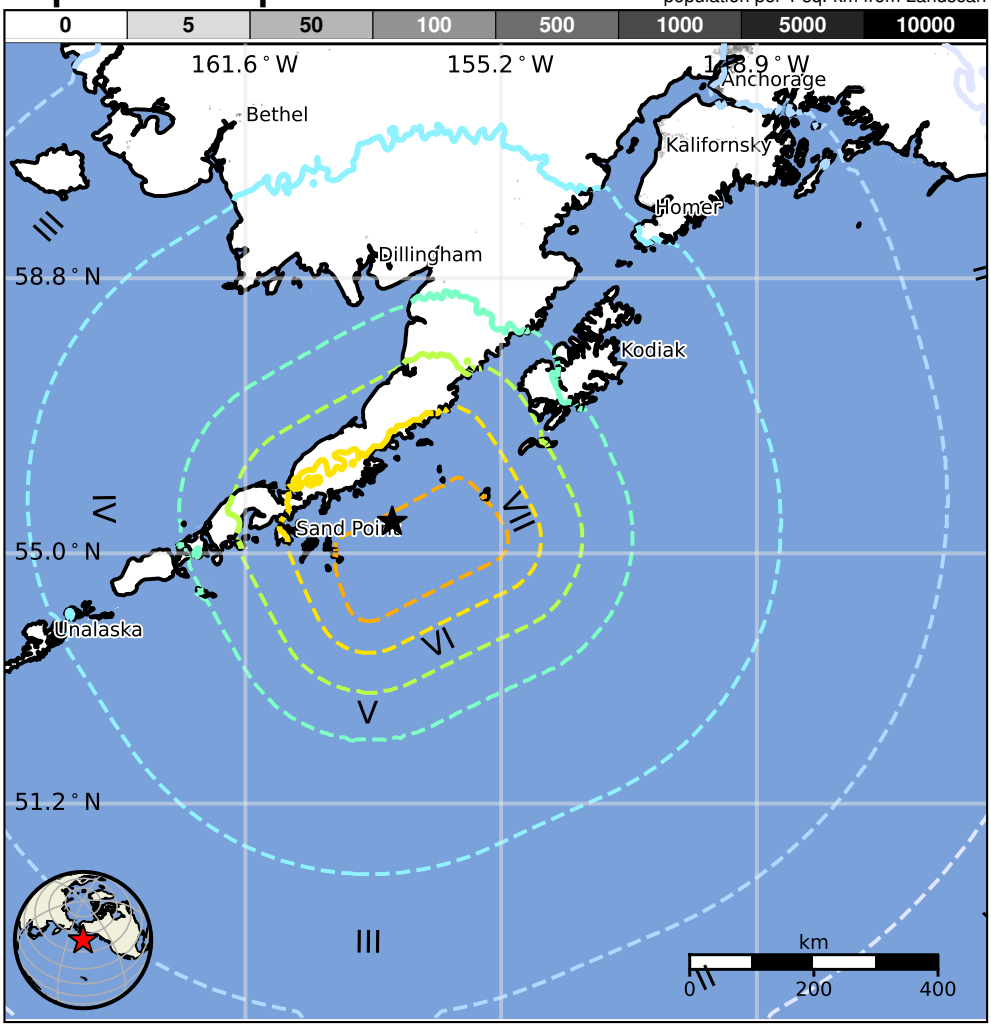
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	482k*	25k	1k	0	2k	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

population per 1 sq. km from Landscan



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 unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1991-05-30	260	6.9	I(0)	–
1974-04-06	168	6.0	VII(1k)	–
1993-05-13	169	6.9	VII(1k)	–

Selected City Exposure

from GeoNames.org

MMI	City	Population
VII	**Sand Point**	**1k**
IV	**Kodiak**	**6k**
IV	Kodiak Station	1k
IV	**Dillingham**	**2k**
IV	Akutan	1k
III	**Homer**	**5k**
III	**Anchorage**	**292k**
II	Knik-Fairview	15k
II	Eagle River	25k
II	Tanaina	8k
II	Lakes	8k

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/ak0219neiszm#pager

Event ID: ak0219neiszm