Earthquake Shaking Green Alert

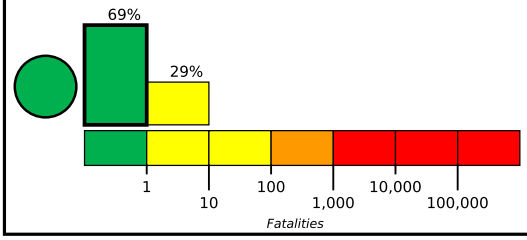
M 4.2, 4 km NNW of Anchorage, Alaska

Origin Time: 2023-10-06 14:01:18 UTC (Fri 06:01:18 local)
Location: 61.2814° N 149.9376° W Depth: 45.7 km

PAGER Version 11

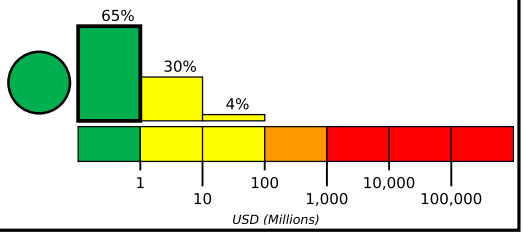
Created: 1 week, 5 days after earthquake

Estimated Fatalities



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

Estimated Economic Losses



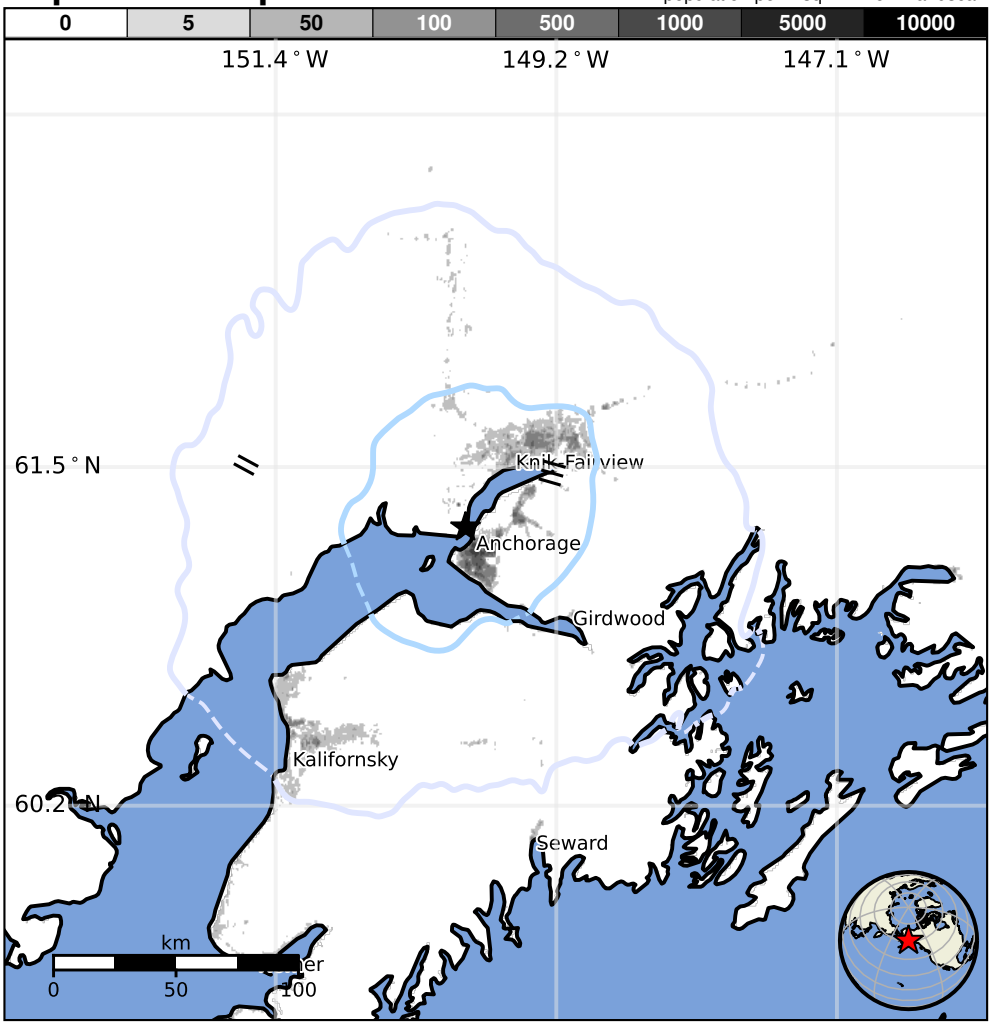
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		23k*	444k	4k	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	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
2002-11-03	275	7.9	V(36k)	0
1964-03-28	127	9.2	VIII(24k)	–
1964-03-28	127	9.2	VIII(24k)	0

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

Selected City Exposure

from GeoNames.org

MMI	City	Population
III	Eagle River	25k
III	Elmendorf Air Force Base	7k
III	**Anchorage**	**292k**
III	Lakes	8k
III	**Knik-Fairview**	**15k**
III	Gateway	6k
III	Wasilla	8k
III	Tanaina	8k
III	Meadow Lakes	8k
II	Kenai	7k
II	**Kalifornsky**	**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/ak023ctna5d5#pager

Event ID: ak023ctna5d5