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Earthquake Shaking Yellow Alert

GSN ANSS USAID FROM THE AMERICAN PEOPLE

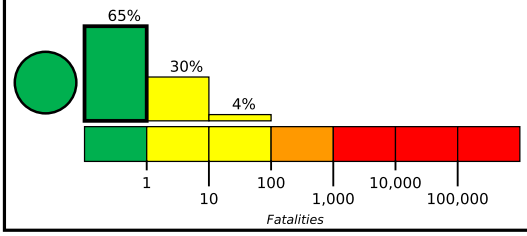
M 5.6, 6 km SE of Vogar, Iceland

Origin Time: 2021-02-24 10:05:59 UTC (Wed 10:05:59 local)
Location: 63.9490° N 22.2851° W Depth: 10.0 km

PAGER Version 5

Created: 3 weeks, 2 days after earthquake

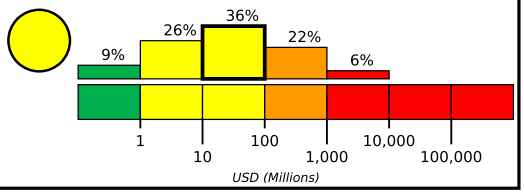
Estimated Fatalities



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 Iceland. 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



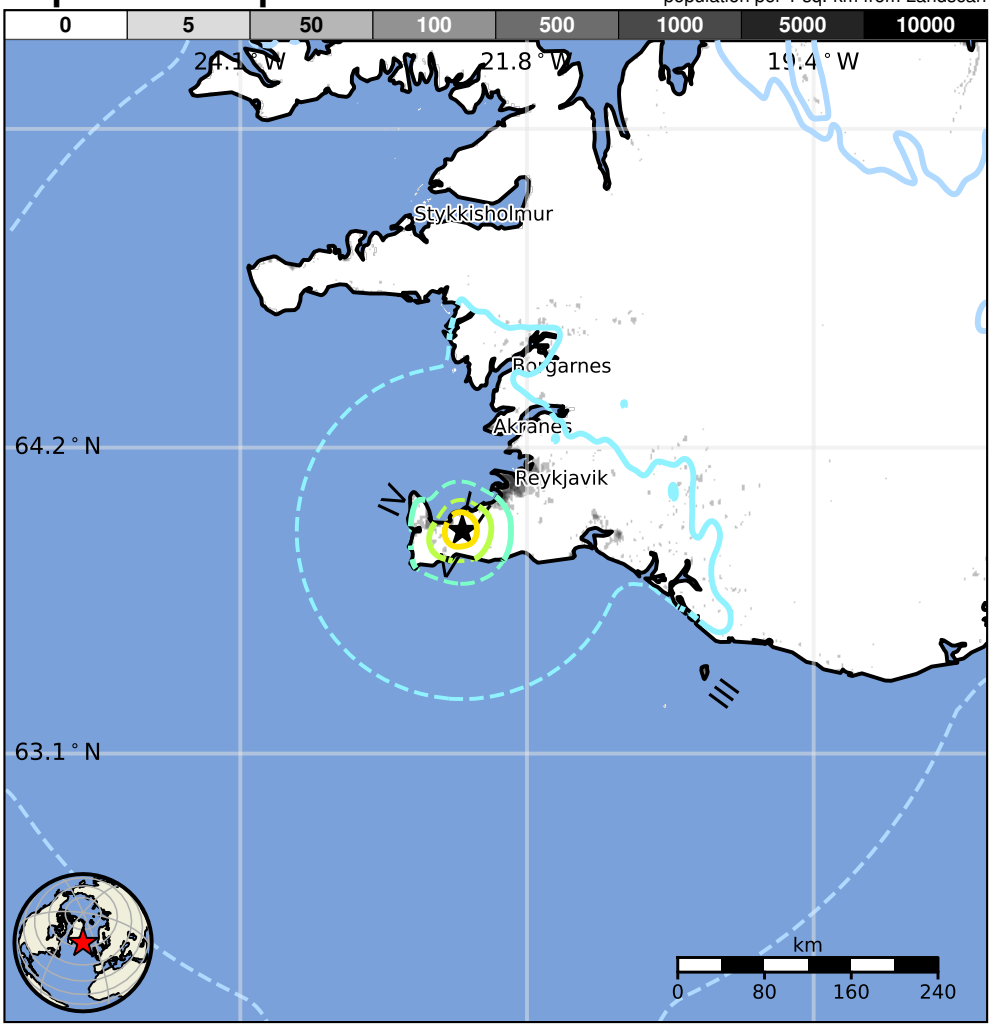
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	77k	207k	28k	3k	0	1k	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 type is unreinforced brick with concrete floor construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2000-06-17	88	6.5	VII(2k)	0
2000-06-21	76	6.4	VII(5k)	–
1976-01-13	368	6.3	VI(1k)	1

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

Selected City Exposure

from GeoNames.org

MMI	City	Population
VIII	Vogar	1k
V	Grindavik	3k
V	Reykjanesbaer	2k
V	Keflavik	<1k
V	Alftanes	2k
V	Gardur	1k
IV	Selfoss	7k
IV	**Reykjavik**	**119k**
IV	**Borgarnes**	**2k**
IV	Kopavogur	32k
III	Akureyri	18k

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/us6000dkmk#pager

Event ID: us6000dkmk