Earthquake Shaking **Green Alert**

M 4.2, HAWAII REGION, HAWAII

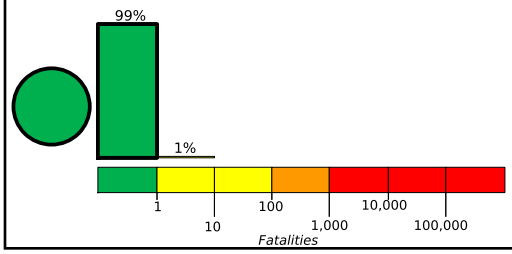
Origin Time: Fri 2016-04-01 09:16:08 UTC (09:16:08 local)

Location: 20.69°N 155.19°W Depth: 25 km

PAGER Version 6

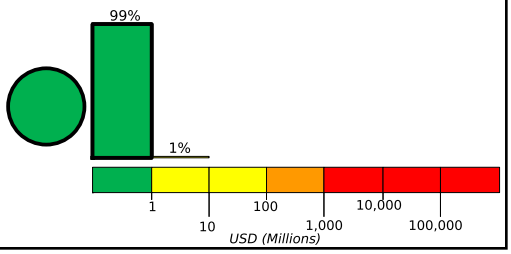
Created: 7 weeks, 6 days after earthquake

Estimated Fatalities



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

Estimated Economic Losses



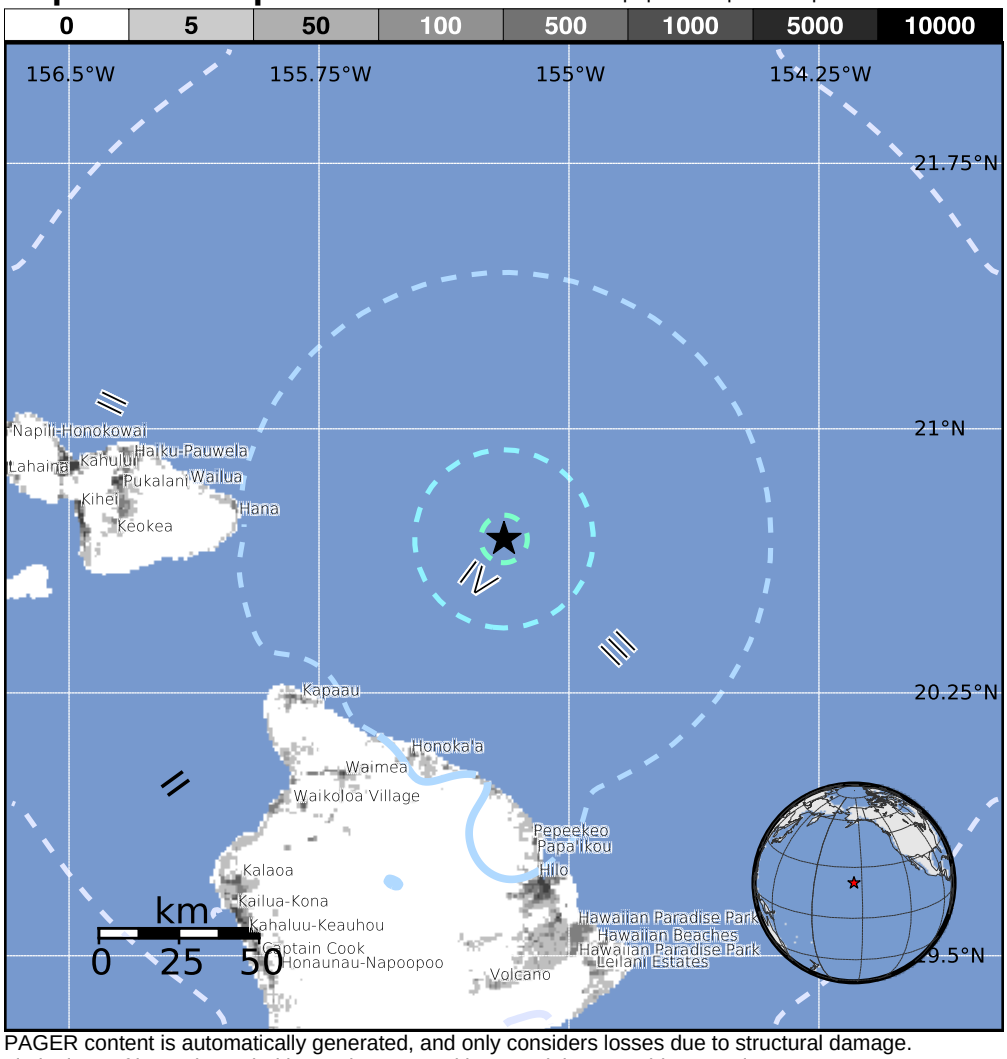
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		16k*	310k	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 resistant to earthquake shaking, though some vulnerable structures exist.

Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1982-01-21	163	5.6	VII(10)	0
1989-06-26	139	6.4	IX(355)	0
1975-11-29	136	7.2	IX(30k)	2

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
III	**Pepeekeo**	**2k**
III	**Papa'ikou**	**1k**
III	**Honoka'a**	**2k**
III	Wainaku	1k
II	Makawao	7k
II	**Kihei**	**21k**
II	**Hilo**	**43k**
II	**Kahului**	**26k**
II	Wailuku	15k
II	**Kailua-Kona**	**12k**
II	**Lahaina**	**12k**

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/earthquakes/eventpage/us20005dvu

Event ID: us20005dvu