

**M 5.7, KYUSHU, JAPAN**

Origin Time: Fri 2016-04-15 16:45:56 UTC (01:45:56 local)

Location: 32.92°N 130.81°E Depth: 10 km

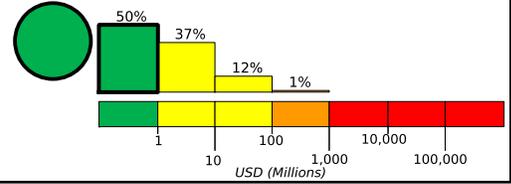
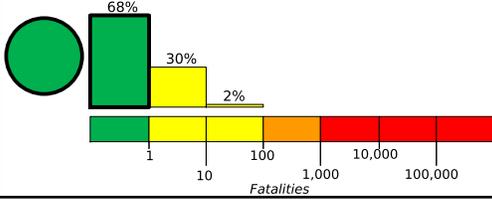
**PAGER**  
**Version 5**

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**



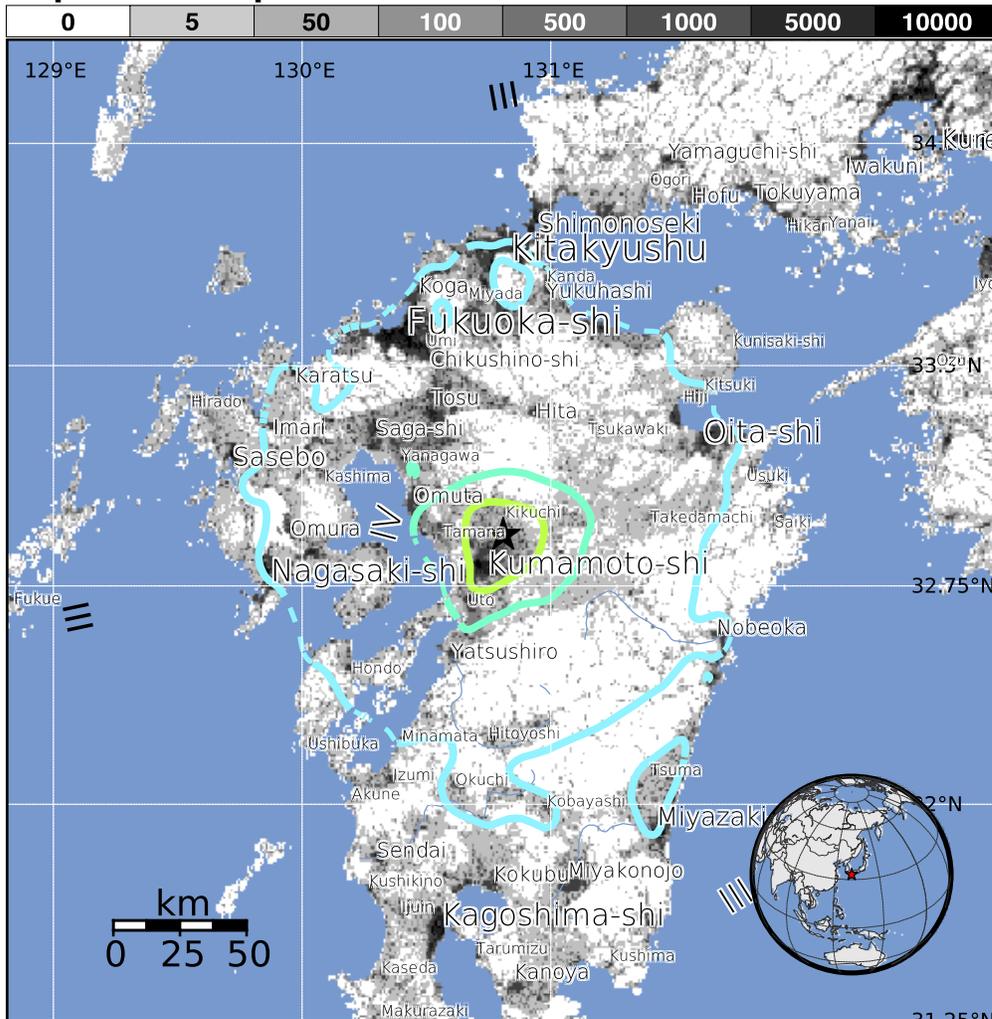
**Estimated Population Exposed to Earthquake Shaking**

ESTIMATED POPULATION EXPOSURE (k = x1000)	- - *	6,330k*	9,161k	488k	918k	60k	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
	Vulnerable Structures	none	none	none	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

**Population Exposure**

population per ~1 sq. km from Landsat



**Structures:**

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though some vulnerable structures exist. The predominant vulnerable building types are heavy wood frame and ductile reinforced concrete frame construction.

**Historical Earthquakes (with MMI levels):**

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1996-12-02	125	6.7	VII(147k)	0
1987-03-18	127	6.6	VII(593k)	1
2001-03-24	207	6.8	VIII(5k)	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
<b>VI Ozu</b>	<b>30k</b>
<b>VI Kikuchi</b>	<b>27k</b>
<b>VI Kumamoto-shi</b>	<b>680k</b>
<b>VI Yamaga</b>	<b>32k</b>
<b>VI Ueki</b>	<b>32k</b>
<b>VI Tamana</b>	<b>46k</b>
<b>IV Oita-shi</b>	<b>449k</b>
<b>IV Fukuoka-shi</b>	<b>1,392k</b>
<b>IV Kagoshima-shi</b>	<b>555k</b>
<b>III Hiroshima-shi</b>	<b>1,144k</b>
<b>III Matsuyama-shi</b>	<b>443k</b>

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/us20005ija>

Event ID: us20005ija