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Earthquake Shaking Red Alert

GSN ANSS USAID FROM THE AMERICAN PEOPLE

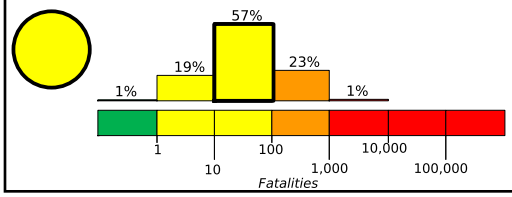
M 6.2, KYUSHU, JAPAN

Origin Time: Thu 2016-04-14 12:26:36 UTC (21:26:36 local)
Location: 32.85°N 130.63°E Depth: 10 km

PAGER Version 5

Created: 3 hours, 7 minutes after earthquake

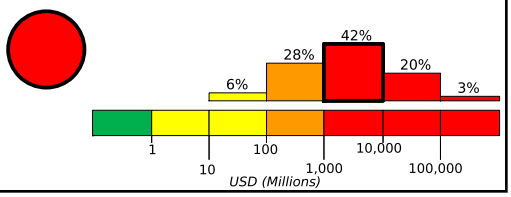
Estimated Fatalities



Red alert level for economic losses. Extensive damage is probable and the disaster is likely widespread. Estimated economic losses are less than 1% of GDP of Japan. Past events with this alert level have required a national or international level response.

Yellow alert level for shaking-related fatalities. Some casualties are possible.

Estimated Economic Losses



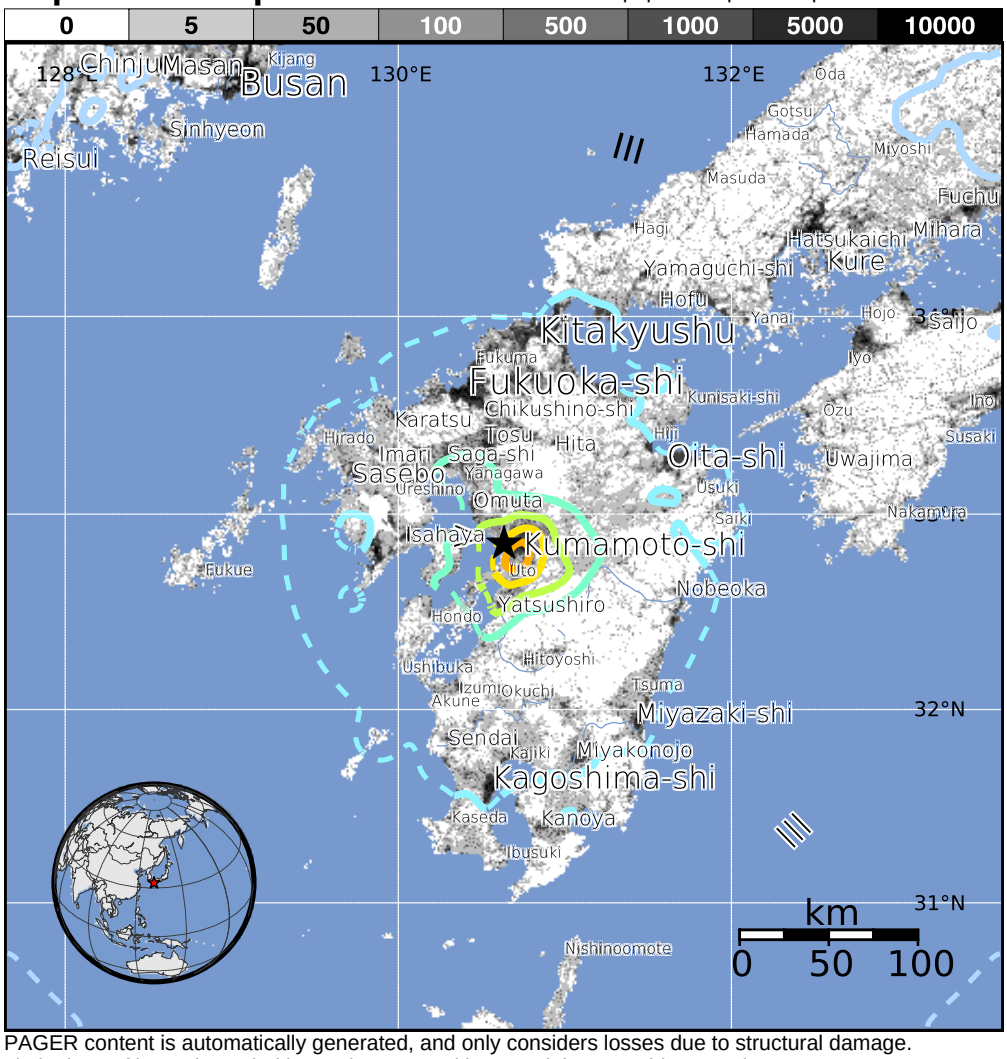
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		- -*	13,469k*	10,398k	1,187k	386k	192k	756k	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
1996-10-19	141	5.7	VI(389k)	0
1987-03-18	140	6.6	VII(593k)	1
2001-03-24	226	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
VIII	**Kumamoto-shi**	**680k**
VII	**Uto**	**39k**
VII	Matsubase	26k
VII	**Ozu**	**30k**
VI	Ueki	32k
VI	Tamana	46k
IV	**Fukuoka-shi**	**1,392k**
IV	**Kagoshima-shi**	**555k**
III	Hiroshima-shi	1,144k
III	**Busan**	**3,679k**
III	Changwon	550k

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/us20005hzn

Event ID: us20005hzn