

M 5.9, WESTERN SICHUAN, CHINA

Origin Time: Sat 2014-11-22 08:55:26 UTC (16:55:26 local)

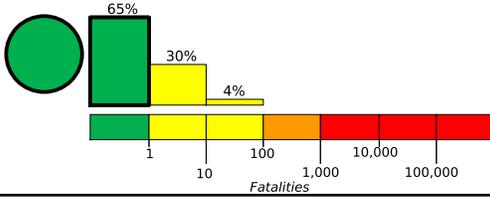
Location: 30.34°N 101.74°E Depth: 9 km

Created: 7 weeks, 3 days after earthquake

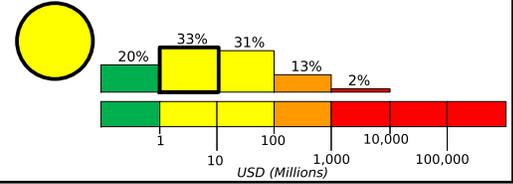
Estimated Fatalities

Yellow alert level for economic losses. Some damage is possible and the impact should be relatively localized. Estimated economic losses are less than 1% of GDP of China. Past events with this alert level have required a local or regional level response.

Green alert level for shaking-related fatalities. There is a low likelihood of casualties.



Estimated Economic Losses



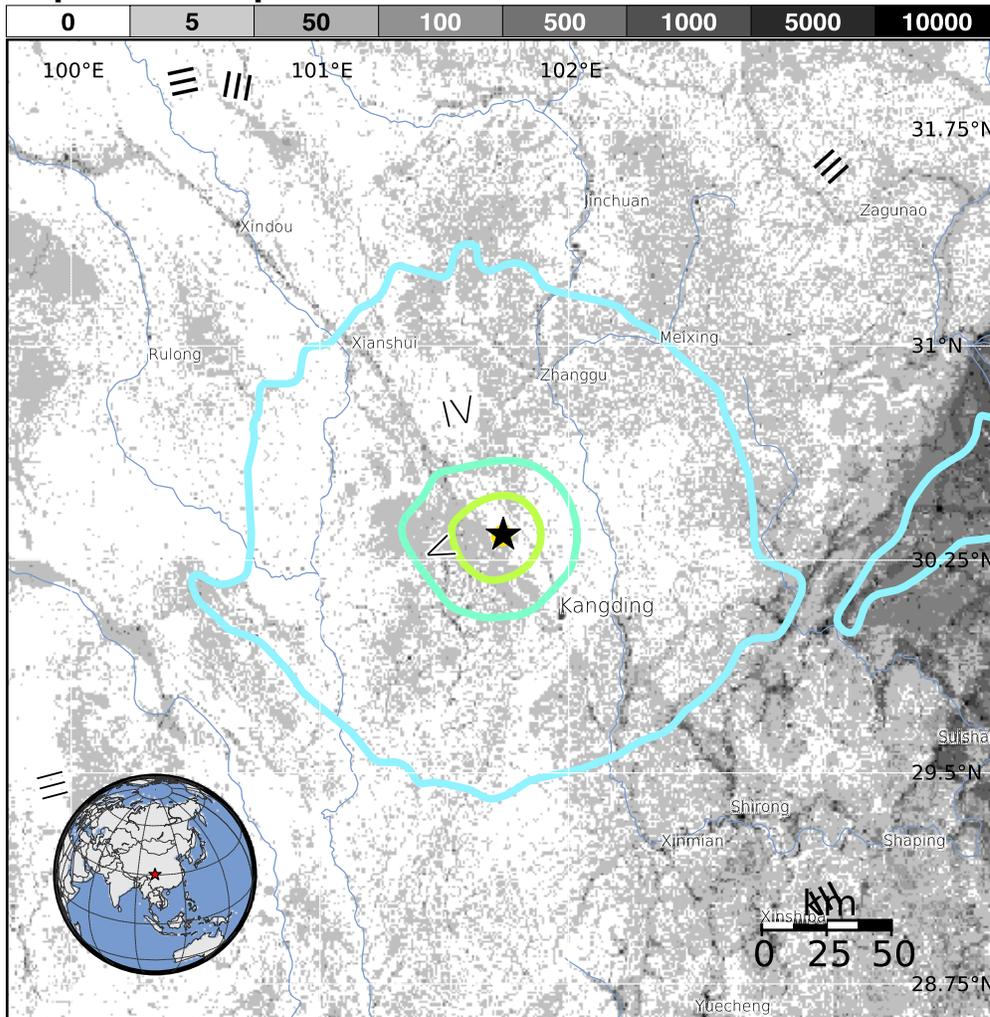
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)	- - *	5,158k*	2,592k	39k	12k	1k	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 highly vulnerable to earthquake shaking, though some resistant structures exist.

Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1999-01-02	355	4.5	VI(3k)	0
1985-03-29	331	4.9	VI(539k)	2
1973-02-06	162	7.7	IX(31k)	2k

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
IV	Kangding	100k
IV	Zhanggu	< 1k
IV	Linqiong	56k
IV	Meixing	< 1k
IV	Guangsheng	< 1k
IV	Yancheng	< 1k
IV	Xianshui	< 1k
III	Zitong	< 1k
III	Suishan	< 1k
III	Guankou	< 1k
III	Xindou	< 1k

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/pager>

Event ID: usb000syy0