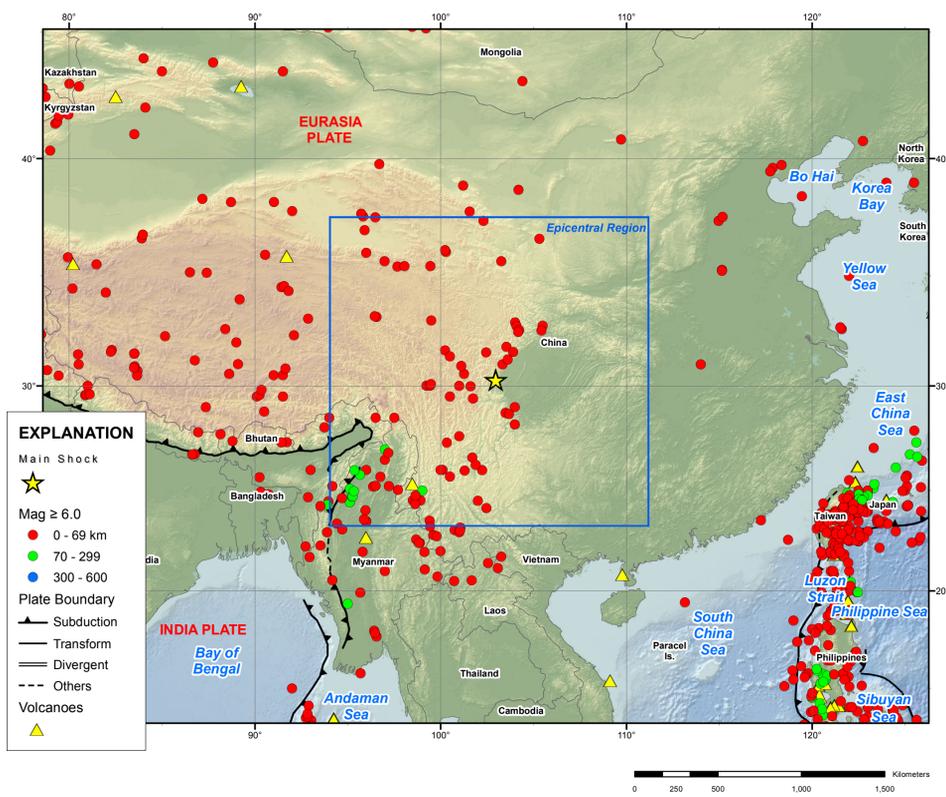


M6.6 Sichuan, China Earthquake of 20 April 2013

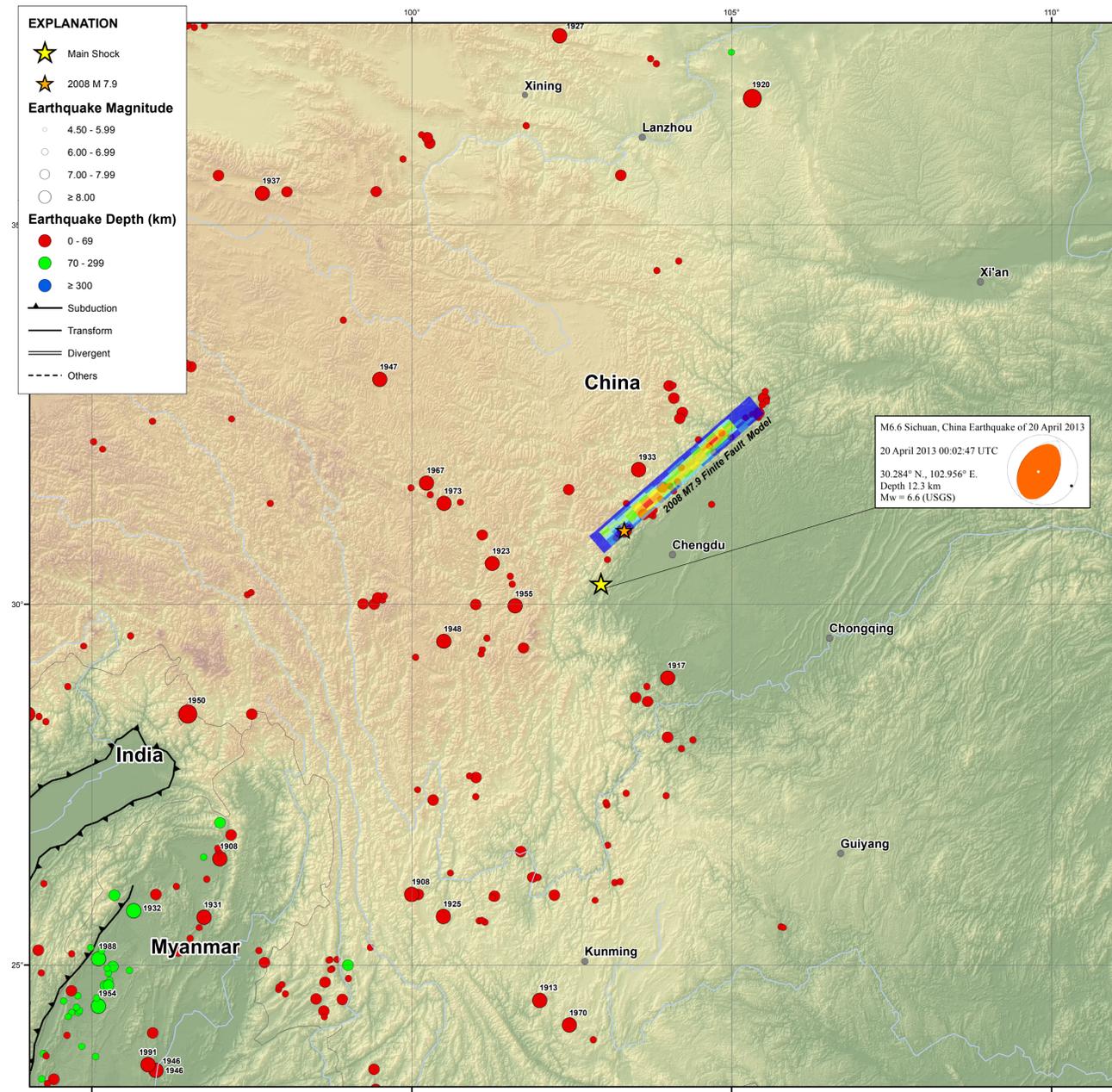


PAGER

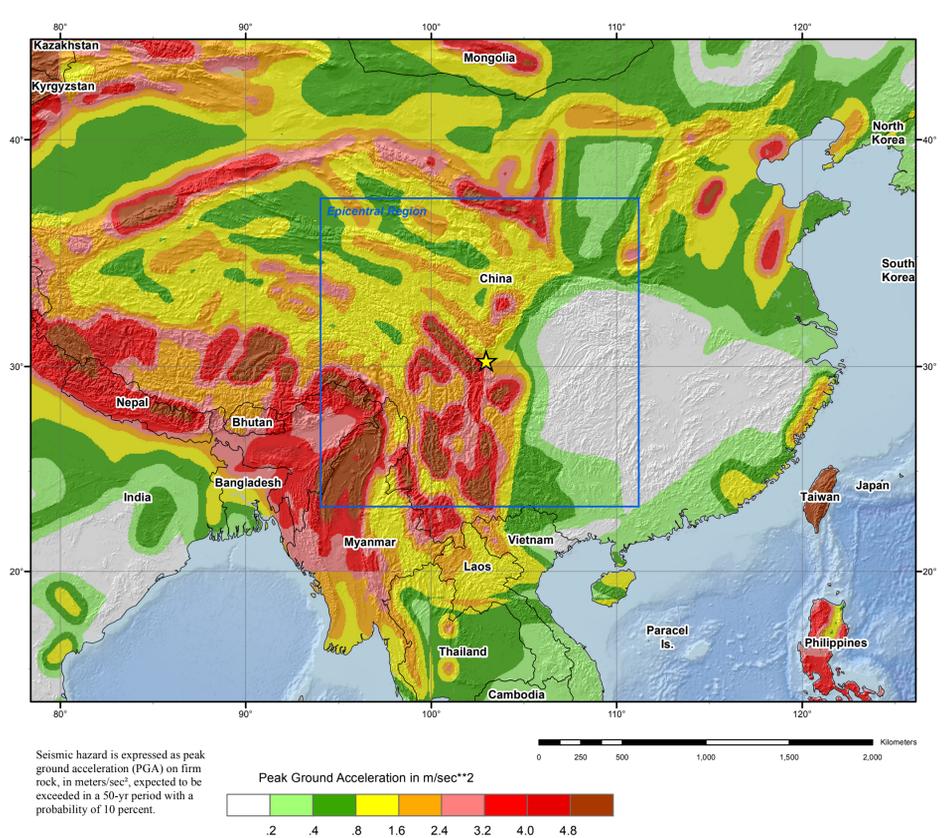
Tectonic Setting



Epicentral Region



Seismic Hazard



USGS Earthquake Shaking Red Alert

M 6.6, WESTERN SICHUAN, CHINA
Origin Time: Sat 2013-04-20 00:02:47 UTC (08:02:47 local)
Location: 30.284° N, 102.956° E, Depth: 12.3 km

Estimated Fatalities

Estimated Economic Losses

Estimated Population Exposed to Earthquake Shaking

Intensity	I	II-III	IV	V	VI	VII	VIII	IX	X
Population	1,100,000	1,100,000	1,100,000	1,100,000	1,100,000	1,100,000	1,100,000	1,100,000	1,100,000

Population Exposure

Selected City Exposure

City	Population	Intensity
W. Lanzhou	1,100,000	IV
W. Wuhan	1,100,000	V
W. Chengde	1,100,000	V
W. Zhengzhou	1,100,000	V
W. Zibo	1,100,000	V
W. Beijing	1,100,000	V
W. Shanghai	1,100,000	V
W. Guangzhou	1,100,000	V

ShakeMap

USGS ShakeMap: WESTERN SICHUAN, CHINA
APR 20 2013 12:02:47 AM GMT M 6.6 N30.28 E102.96 Depth: 12.3km ID:b000gddd

Map Version 2 Processed Fri Apr 19, 2013 06:46:29 PM MDT

PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	none	none	none	Very light	Light	Moderate	Mod. Heavy	Heavy	Very Heavy
PEAK ACC (mg)	<0.05	0.3	2.8	6.2	12	22	40	75	>139
PEAK VEL (cm/s)	<0.02	0.1	1.4	4.7	9.6	20	41	86	>178
INSTRUMENTAL	I	II-III	IV	V	VI	VII	VIII	IX	X

Finite Fault Model (from 2008 M7.9 Sichuan Quake)

Distribution of the amplitude and direction of slip for subfault elements of the fault rupture model are determined from the inversion of teleseismic body waveforms and long period surface waves. Arrows indicate the amplitude and direction of slip (of the hanging wall with respect to the foot wall), the slip is also colored by magnitude. The view of the rupture plane is from above.

The strike of the fault rupture plane is S49W and the dip is 33 NW. The dimensions of the subfault elements are 15 km in the strike direction and 5 km in the dip direction. The rupture surface is approximately 210 km along strike and 30 km down dip. The seismic moment release based upon this plane is 0.115E+29 dyne.cm.