

U.S. DEPARTMENT OF THE INTERIOR U.S. GEOLOGICAL SURVEY

M7.9 Eastern Sichuan, China Earthquake of 12 May 2008



NIMA and ESRI, Digital Chart of the World USGS, EROS Data Center NOAA GEBCO and GLOBE Elevation Models

el times and procedures for depth determination: Bull. Seism. Soc. Amer., v. 88, p. 722-743.

should not be regarded as having official significance.

EARTHOUAKE SUMMARY MAP XXX

Prepared in cooperation with the Global Seismographic Network



Eastern Sichuan, China 2 May 2008 6:28:00 UTC

30.986° N., 103.364° E. Depth 19 km Mw = 7.9 (USGS)





magnitude 6.4 earthquake struck the Sichuan, China region on August 23, 1976 (UTC), with estimated population exposures of 1,500 at intensity IX or greater and 5,700 at intensity VIII, resulting in 41 deaths. Additionally, a magnitude 7.3 struck this region in 1933 killing 6,800 people. Recent earthquakes in this area have also triggered landslide hazards that have contributed to losses. Users should consider the preliminary nature of this information and check for updates as additional data becomes available.

This information was automatically generated and has not been reviewed by a seismologist. http://earthquake.usgs.gov/pager

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Event ID: us2008ryan

FINITE FAULT MODEL

Chen Ji, University of California at Santa Barbara and Gavin Hayes, NEIC

Distribution of the amplitude and direction of slip for subfault elements (small rectangles) of the fault rupture model are determined from the inversion of teleseismic body waveforms. Arrows indicate the amplitude and direction of slip (of the hanging wall with respect to the foot wall); the slip amount is also color-coded as shown. The view of the rupture plane is from above.

The strike of the fault rupture plane is 229° (N131W) 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 seismic moment release based on this plane is .115E+29

Did You Feel It? USGS Community Internet Intensity Map (52 miles WNW of Chergdu, China)



Map prepared by U.S. Geological Survey National Earthquake Information Center 28 May 2008 Map not approved for release by Director USGS