

M 4.5, 18.7 km (11.6 mi) WNW of Humboldt Hill, CA

Origin Time: Sat 2013-08-03 02:25:49 UTC (19:25:49 local)

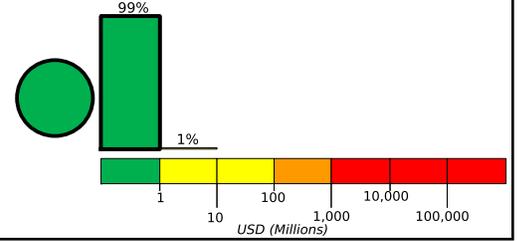
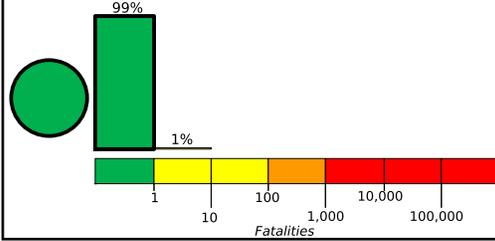
Location: 40.81°N 124.40°W Depth: 20 km

Created: 2 days, 18 hours 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

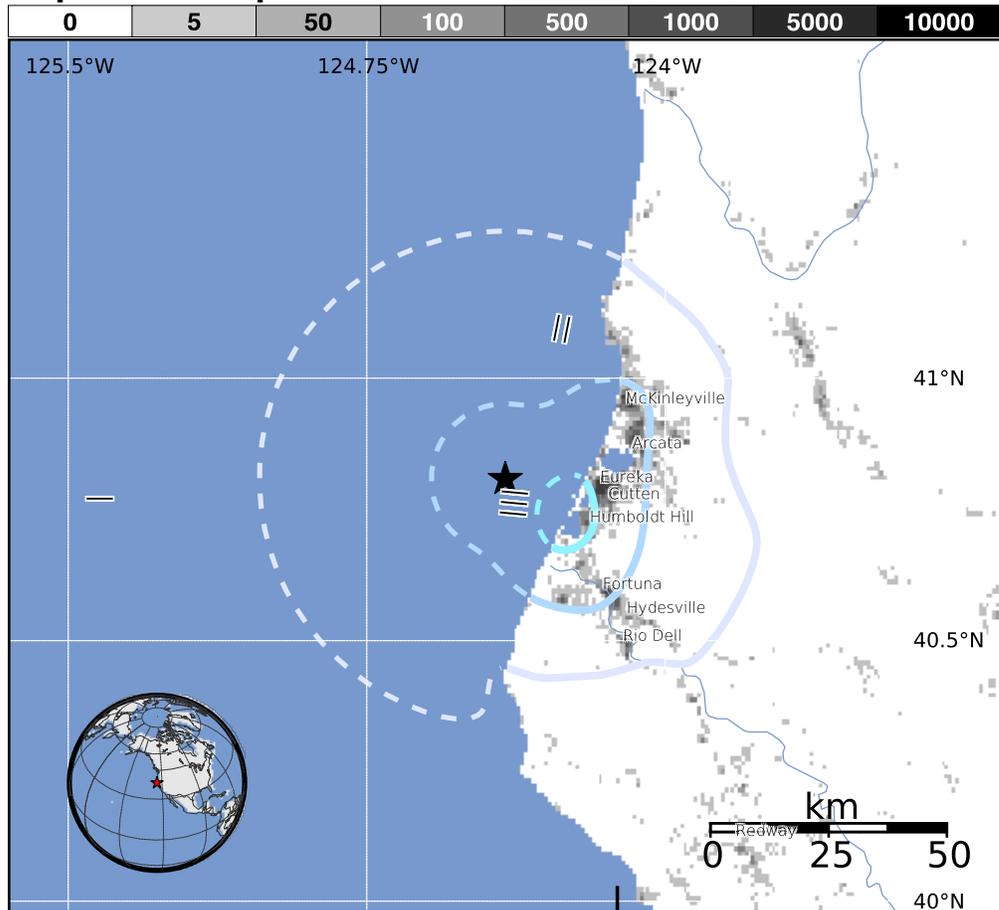


Estimated Population Exposed to Earthquake Shaking

| | | | | | | | | | | |
|---|-----------------------|----------|--------|-------|----------|----------|----------------|----------------|----------|----------|
| ESTIMATED POPULATION EXPOSURE (k = x1000) | | 18k | 97k | 28k | 0 | 0 | 0 | 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 | 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



Structures:

Overall, the population in this region resides in structures that are highly resistant to earthquake shaking, though some vulnerable structures exist.

Historical Earthquakes (with MMI levels):

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 1991-07-13 | 191 | 6.8 | V(51k) | 0 |
| 1980-11-08 | 34 | 7.3 | IX(16k) | 0 |
| 1993-09-21 | 260 | 6.0 | VIII(24) | 1 |

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

| MMI | City | Population |
|-----|---------------|------------|
| IV | Humboldt Hill | 3k |
| IV | Bayview | 3k |
| III | Pine Hills | 3k |
| III | Cutten | 3k |
| III | Eureka | 27k |
| III | Myrtle town | 5k |
| III | McKinleyville | 15k |
| III | Arcata | 17k |
| III | Fortuna | 12k |
| II | Bayside | 17k |
| II | Rio Dell | 3k |

bold cities appear on map

(k = x1000)