

M 4.7, 31.6 miles NNW of Anchorage

Origin Time: Thu 2016-07-21 14:07:16 UTC (06:07:16 local)

Location: 61.62°N 150.33°W Depth: 60 km

Created: 6 days, 9 hours after earthquake

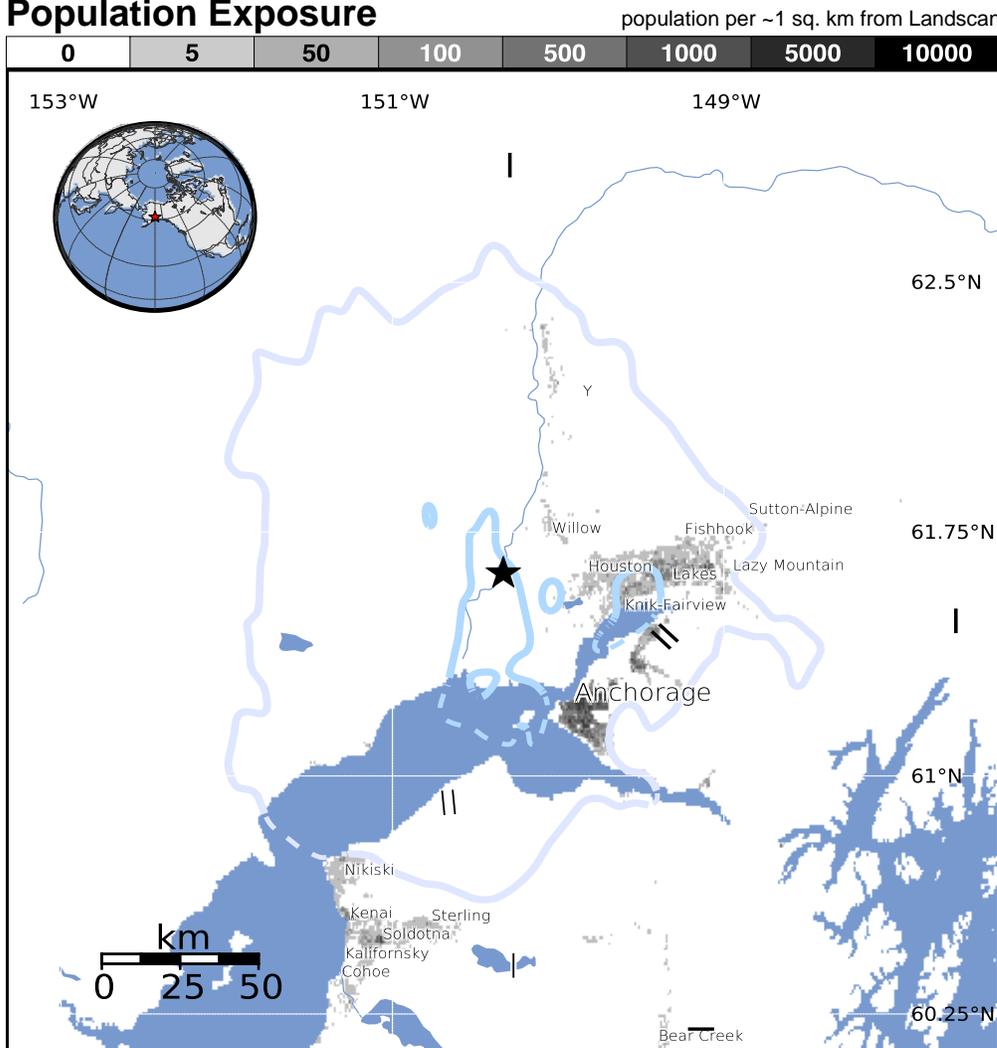


Estimated Population Exposed to Earthquake Shaking

| | | | | | | | | | | |
|---|-----------------------|----------|--------|-------|----------|----------|----------------|----------------|----------|----------|
| ESTIMATED POPULATION EXPOSURE (k = x1000) | | 44k* | 397k | 0 | 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 resistant to earthquake shaking, though some vulnerable structures exist.

Historical Earthquakes (with MMI levels):

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 2002-10-23 | 240 | 6.6 | V(432) | 0 |
| 1984-08-14 | 66 | 5.8 | VI(5k) | 0 |
| 2002-11-03 | 252 | 7.9 | IX(88) | 0 |

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 |
|-----|----------------------|------------|
| III | Knik-Fairview | 15k |
| III | Meadow Lakes | 8k |
| III | Tanaina | 8k |
| III | Wasilla | 8k |
| II | Big Lake | 3k |
| II | Lakes | 8k |
| II | Anchorage | 292k |
| II | Palmer | 6k |
| I | Kalifornsky | 8k |
| I | Kenai | 7k |
| I | Sterling | 6k |

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/ak13790018>

Event ID: ak13790018