

# M 7.6, 99 km SE of Sand Point, Alaska

Origin Time: 2020-10-19 20:54:38 UTC (Mon 12:54:38 local)

Location: 54.6020° N 159.6258° W Depth: 28.4 km

**FOR TSUNAMI INFORMATION, SEE: [tsunami.gov](https://tsunami.gov)**

**PAGER Version 12**

Created: 9 weeks, 6 days after earthquake

### Estimated Fatalities

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

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

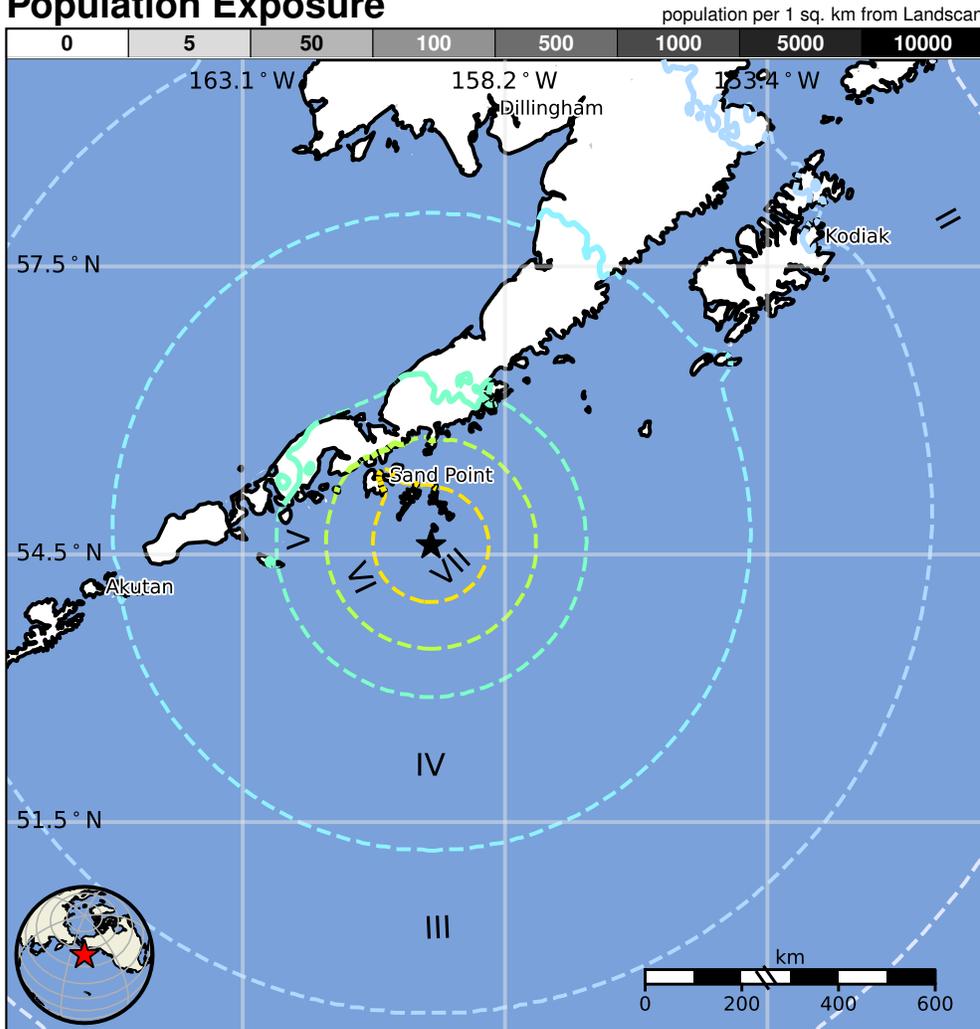
### Estimated Economic Losses

## Estimated Population Exposed to Earthquake Shaking

|   |                       |          |        |       |          |          |             |            |          |          |
|---|-----------------------|----------|--------|-------|----------|----------|-------------|------------|----------|----------|
| ESTIMATED POPULATION EXPOSURE (k=x1000) |                       | —*       | 28k    | 1k    | 0        | 0        | 2k          | 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    | Mod./Heavy | Heavy    | V. Heavy |
|   | Vulnerable Structures | None     | None   | None  | Light    | Moderate | Mod./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 vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

## Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 1991-05-30 | 134        | 6.9  | I(0)       | —              |
| 1974-04-06 | 75         | 6.0  | VII(1k)    | —              |
| 1993-05-13 | 66         | 6.9  | VII(1k)    | —              |

## Selected City Exposure

from GeoNames.org

| MMI | City              | Population |
|-----|-------------------|------------|
| VII | <b>Sand Point</b> | <b>1k</b>  |
| III | <b>Akutan</b>     | <b>1k</b>  |
| III | Dutch Harbor      | 4k         |
| III | <b>Dillingham</b> | <b>2k</b>  |
| III | Unalaska          | 4k         |
| II  | Kodiak Station    | 1k         |
| II  | <b>Kodiak</b>     | <b>6k</b>  |

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.

<https://earthquake.usgs.gov/earthquakes/eventpage/us6000c9hg#pager>

Event ID: us6000c9hg