

ShakeAlert® Post-Alert Summary

Earthquake:

M 4.0 - 63.5 km (39.5 mi) SE of South Lake Tahoe
 ANSS origin (Local): 2021-07-15 07:18:28.10
 ANSS origin (UTC): 2021-07-15 14:18:28.10
 ShakeAlert alert (UTC): 2021-07-15 14:18:40.4
 ANSS location: 38.525, -119.474
 ANSS depth: 3.2 km (2.0 mi)
 ShakeAlert Event ID: ew1626358720

Time To Alert After Earthquake Start:

Initial alert after origin time: 11.5 sec
 Final alert after origin time: 35.7 sec

Magnitude Accuracy:

Initial ShakeAlert: M 3.8
 Peak ShakeAlert: M 3.8
 Final ShakeAlert: M 3.6
 ANSS report: M 4.0

Location Accuracy:

Initial alert: 1.0 km (0.6 mi) NW
 Final alert: 3.4 km (2.1 mi) SW

Number of Stations Reporting:

0 within 10 km of epicenter
 2 within 100 km of epicenter
 33 used in final ShakeAlert update

Nearby Cities:

City	Distance	Warning*	MMI**
South Lake Tahoe	64 km (39 mi)	~6 sec	<2
Sonora	99 km (62 mi)	~17 sec	<2
Reno	115 km (72 mi)	~21 sec	<2
Sacramento	176 km (109 mi)	~38 sec	<2

Zone Shaken by S-wave Before Alert: 41 km (25 mi)

Footnotes:

- * Warning -- Time between alert production and arrival of the S-wave at a chosen site.
- ** MMI -- Modified Mercalli Intensity: a scale to measure ground shaking.
- *** For earthquakes deeper than 15 km, the alert may be sent before peak shaking reaches the surface.

Disclaimer:

This information is preliminary or provisional and is subject to revision. It is being provided to meet the need for timely best science. The information has not received final approval by the U.S. Geological Survey (USGS) and is provided on the condition that neither the USGS nor the U.S. Government shall be held liable for any damages resulting from the authorized or unauthorized use of the information.

To learn more about ShakeAlert®, visit www.shakealert.org/FAQ

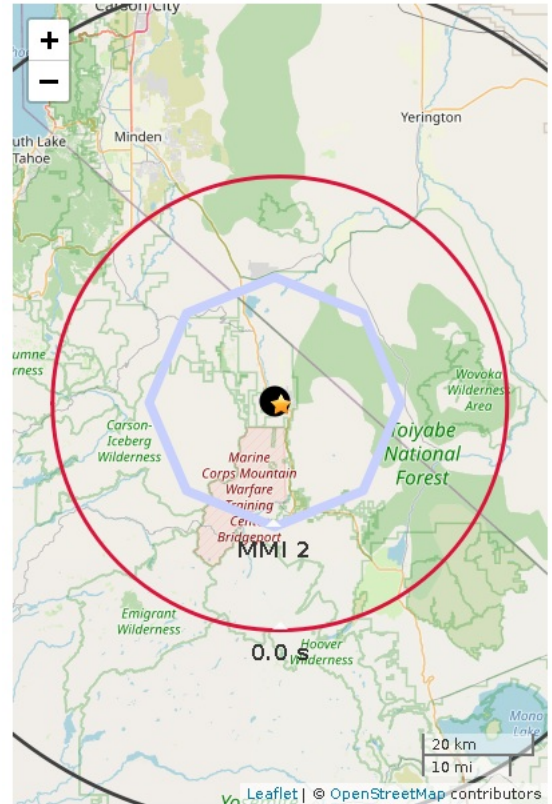


Figure 1. ShakeAlert initial earthquake location (black dot). Star is regional network epicenter. Polygon is the approximate outer range for felt ground motion. If shown***, red circle is front of peak shaking when the alert was released. Shaking takes 10 s to expand from circle to circle.



Figure 2. Polygons show shaking intensity contours for the peak magnitude ShakeAlert. Shaking of intensity 3 or less is often not felt. Star shows the regional network epicenter.