ShakeAlert[®] Post-Alert Summary

Earthquake:

M 4.9 - 63.1 km (39.2 mi) SE of South Lake Tahoe		
ANSS origin (Local):	2021-07-08 16:33:41.0		
ANSS origin (UTC):	2021-07-08 23:33:41.0		
ShakeAlert alert (UTC):	2021-07-08 23:33:56.4		
ANSS location:	38.486, -119.541		
ANSS depth:	9.3 km (5.8 mi)		
ShakeAlert Event ID:	ew1625787221		
Time To Alert After Earthquake Start:			
Initial alort ofter origin times 15.2 cos			

Initial alert after origin time:15.3 secFinal alert after origin time:35.3 sec

Magnitude Accuracy:

lert:	M 4.8
lert:	M 4.8
lert:	M 4.7
	M 4.9
acy:	
1.8 k	m (1.1 mi) SW
3.4	km (2.1 mi) W
	lert: lert: acy: 1.8 ki

Number of Stations Reporting:

0 within 10 km of epicenter 2 within 100 km of epicenter

50 used in final ShakeAlert update

Nearby Cities:

City	Distance	Warning*	MMI**	
South Lake Tahoe	63 km (39 mi)	~3 sec	2	
Sonora	92 km (57 mi)	~11 sec	2	
Reno	118 km (74 mi)	~18 sec	<2	
Sacramento	170 km (106 mi)	~33 sec	<2	
Zana Shakan hu Suyaya Dafara Alarti 54 km (24 mi)				

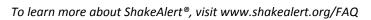
Zone Shaken by S-wave Before Alert: 54 km (34 mi)

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.



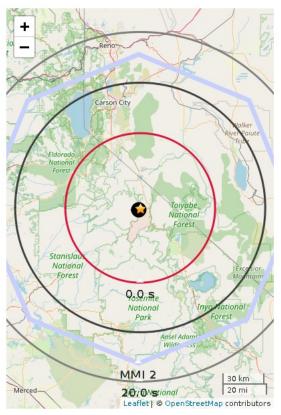


Figure 1. ShakeAlert initial earthquake location (black dot). Star is regional network epicenter. Polygon is the approximate outer range for felt ground motion. If shown***, red circle is front of peak shaking when the alert was released. Shaking takes 10 s to expand from circle to circle.

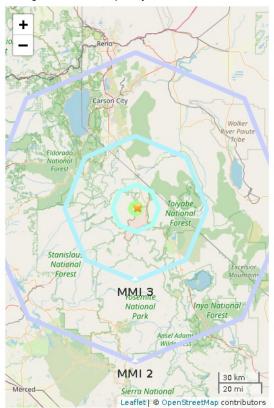


Figure 2. Polygons show shaking intensity contours for the peak magnitude ShakeAlert. Shaking of intensity 3 or less is often not felt. Star shows the regional network epicenter.