

ShakeAlert Post-Alert Summary

An overview of the performance of ShakeAlert during this event

Earthquake

M3.7 - 44 miles NE of Ridgecrest
ANSS origin (Local): 2019-07-13 03:25:18.10
ANSS origin (UTC): 2019-07-13 10:25:18.10
ShakeAlert alert (UTC): 2019-07-13 10:25:29.0
ShakeAlert Event ID ew2918

Summary Report

Speed of Alert:

Initial alert after origin time: 10.0 s
Final alert update after origin time: 41.2 s

Magnitude Accuracy:

Initial ShakeAlert: M 3.9
Final ShakeAlert: M 3.7
ANSS report: 128 s after origin, M3.8

Distance From Alert to Reviewed Location

Initial alert: 6.3 km, 3.9 miles NW
Final alert: 2.9 km, 1.8 miles N

Number of stations reporting

0 within 10 km of epicenter
27 within 100 km of epicenter
68 used in final ShakeAlert update

Performance for Nearby Cities

City	Distance	Warning Time*	MMI*
Ridgecrest	44 km	~2.6 sec	<2
California City	106 km	~20.0 sec	<2
Barstow	121 km	~24.1 sec	<2
Los Angeles	224 km	~53.3 sec	<2

Zone Shaken by S-wave Before Alert: 36 km (22 mi)

Footnotes

- 1) *MMI -- Modified Mercalli Intensity: a scale to measure ground shaking.
- 2) "Warning Time": Time between alert production and arrival of the S-wave at a chosen site.
- 3) For moderate earthquakes, the 'final' alert area may be little changed from the initial.

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

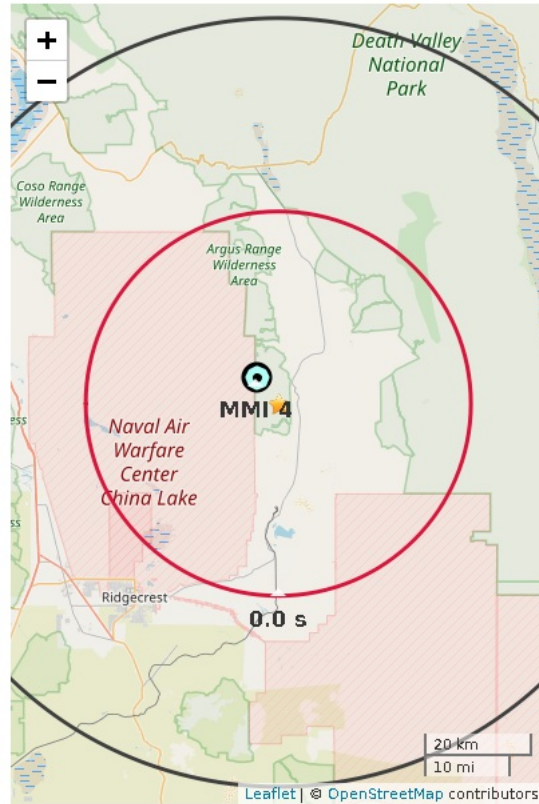


Figure 1. ShakeAlert earthquake location (black dot). Star is regional network epicenter. Polygon is the predicted outer range for felt ground motion (MMI 2). Red circle is front of peak shaking when the alert was released. Shaking takes 10 s to expand from circle to circle.



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