

ShakeAlert Post-Alert Summary

An overview of the performance of ShakeAlert during this event

Earthquake

M3.4 - 32 miles N of Ridgecrest
ANSS origin (Local): 2019-07-06 02:48:17.1
ANSS origin (UTC): 2019-07-06 09:48:17.1
ShakeAlert alert (UTC): 2019-07-06 09:48:42.4
ShakeAlert Event ID ew926

Summary Report

Speed of Alert:

Initial alert after origin time: 25.3 s
Final alert update after origin time: 46.1 s

Magnitude Accuracy:

Initial ShakeAlert: M 3.5
Final ShakeAlert: M 3.4
ANSS report: 122 s after origin, M2.4

Distance From Alert to Reviewed Location

Initial alert: 40.9 km, 25.4 miles SW
Final alert: 40.9 km, 25.4 miles SW

Number of stations reporting

2 within 10 km of epicenter
30 within 100 km of epicenter
43 used in final ShakeAlert update

Performance for Nearby Cities

City	Distance	Warning Time*	MMI*
Ridgecrest	32 km	~0 sec	<2
California City	90 km	~0.4 sec	<2
Tehachapi	108 km	~5.4 sec	<2
Los Angeles	212 km	~34.6 sec	<2

Zone Shaken by S-wave Before Alert: 90 km (56 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

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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.