ShakeAlert® Post-Alert Summary

Overview of ShakeAlert Performance

Earthquake

M 3.0 - 57 miles N of Ridgecrest

ANSS origin (Local): 2019-07-26 07:57:55.6
ANSS origin (UTC): 2019-07-26 14:57:55.6
ANSS depth: 1.1 km, 0.7 miles
ShakeAlert alert (UTC): 2019-07-26 14:58:03.7

ShakeAlert Event ID: ew1564153073

Summary Report

Speed of Alert:

Initial alert after origin time: 8.1 s
Final alert update after origin time: 24.0 s

Magnitude Accuracy:

Initial ShakeAlert: M 3.5 Final ShakeAlert: M 3.0 ANSS report: M 2.7

Distance From Alert to Reviewed Location

Initial alert: 16.4 km, 10.2 miles NW Final alert: 6.9 km, 4.3 miles NW

Number of stations reporting

1 within 10 km of epicenter 26 within 100 km of epicenter 6 used in final ShakeAlert update

Performance for Nearby Cities

City	Distance	Warning Time	* MMI
Ridgecrest	57 km	~8.2 sec	<2
Porterville	103 km	~21.1 sec	<2
Lindsay	110 km	~23.0 sec	<2
Los Angeles	232 km	~57.4 sec	<2

Zone Shaken by S-wave Before Alert: 29 km (18 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.
- For moderate earthquakes, the 'final' alert area may be little changed from the initial.

Disclaimer

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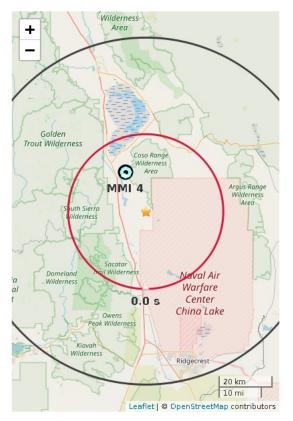


Figure 1. ShakeAlert earthquake location (black dot). Star is regional network epicenter. Polygon is the predicted outer range for felt ground motion (MMI 2). Red circle is front of peak shaking when the alert was released. Shaking takes 10 s to expand from circle to circle.



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.