ShakeAlert® Post-Alert Summary

Overview of ShakeAlert Performance

Earthquake

M 3.9 - 15.3 mi SW of La Quinta

ANSS origin (Local): 2020-04-03 18:54:22.6 ANSS origin (UTC): 2020-04-04 01:54:22.6 ANSS depth: 9.6 km (6.0 mi)

ShakeAlert alert (UTC): 2020-04-04 01:54:28.7

ShakeAlert Event ID: ew7607

Summary Report

Speed of Alert:

Initial alert after origin time: 6.2 s Final alert update after origin time: 9.7 s

Magnitude Accuracy:

Initial ShakeAlert: M 4.0 Final ShakeAlert: M 3.9 ANSS report: M 3.6

Distance From Alert to Reviewed Location

Initial alert: 2.7 km (1.7 mi) NE Final alert: 3.7 km (2.3 mi) NE

Number of stations reporting

3 within 10 km of epicenter 109 within 100 km of epicenter 10 used in final ShakeAlert update

Performance for Nearby Cities

City	Distance	Warning Time	*MMI
La Quinta	24 km (15 mi)	~1 sec	2
Palm Springs	37 km (23 mi)	~4 sec	<2
Twentynine Pa	al 82 skm (51 mi)	~17 sec	<2
San Diego	105 km (65 mi)	~23 sec	<2

Zone Shaken by S-wave Before Alert: 22 km 14 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.

Disclaimer

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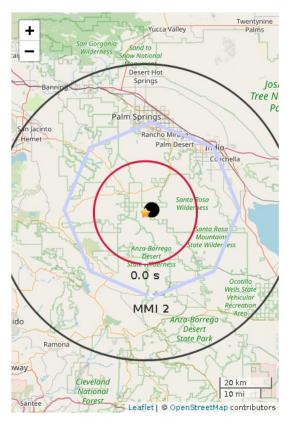


Figure 1. ShakeAlert initial earthquake location (black dot). Star is regional network epicenter. Polygon is the predicted outer range for felt ground motion (MMI 2). Red circle is front of peak shaking when the alert was released. Shaking takes 10 s to expand from circle to circle.



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.