# ShakeAlert<sup>®</sup> Post-Alert Summary

**Overview of ShakeAlert Performance** 

## Earthquake

M 3.7 - 35.5 mi N of Ridgecrest ANSS origin (Local): 2020-03-07 04:51:16.9 ANSS origin (UTC): 2020-03-07 12:51:16.9 ANSS depth: 1.4 km (0.9 mi) ShakeAlert alert (UTC): 2020-03-07 12:51:22.3 ShakeAlert Event ID: ew7414

### Summary Report

#### **Speed of Alert:**

Initial alert after origin time: 5.4 s Final alert update after origin time: 14.4 s

#### **Magnitude Accuracy:**

Initial ShakeAlert:	M 3.7
Final ShakeAlert:	M 3.7
ANSS report:	M 3.5

#### **Distance From Alert to Reviewed Location**

Initial alert: 6.1 km (3.8 mi) N Final alert: 2.3 km (1.4 mi) N

#### Number of stations reporting

1 within 10 km of epicenter 26 within 100 km of epicenter 15 used in final ShakeAlert update

# **Performance for Nearby Cities**

City	Distance W	arning Time	*MMI*
Ridgecrest	57 km (35 mi)	~10 sec	<2
Tehachapi	120 km (75 mi)	~28 sec	<2
Visalia	130 km (80 mi)	~31 sec	<2
Los Angeles	231 km (143 mi)	~59 sec	<2

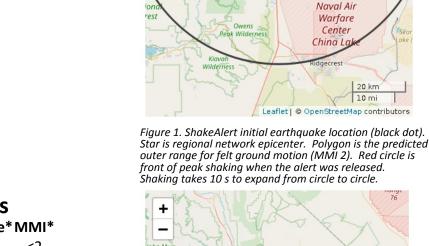
#### Zone Shaken by S-wave Before Alert: 19 km 12 mi

#### 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

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.



Golden out Wilderness



MM 3

20 km 10 mi

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.