ShakeAlert® Post-Alert Summary

Overview of ShakeAlert Performance

Earthquake

M 5.5 - 31.3 mi SE of Mexicali B.C.

ANSS origin (Local): 2020-03-06 19:52:13.6 ANSS origin (UTC): 2020-03-07 03:52:13.6 ANSS depth: 32.3 km (20.1 mi) ShakeAlert alert (UTC): 2020-03-07 03:52:26.6

ShakeAlert Event ID: ew7411

Summary Report

Speed of Alert:

Initial alert after origin time: 13.0 s Final alert update after origin time: 15.4 s

Magnitude Accuracy:

Initial ShakeAlert: M 5.1 Final ShakeAlert: M 5.5 ANSS report: M 5.5

Distance From Alert to Reviewed Location

Initial alert: 109.1 km (67.8 mi) SE Final alert: 80.9 km (50.3 mi) SE

Number of stations reporting

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

Performance for Nearby Cities

City	Distance \	Narning Time	e* MMI*
Mexicali B.C.	50 km (31 mi)	~3 sec	2
Tijuana B.C.	174 km (108 mi)	~36 sec	<2
San Diego	191 km (118 mi)	~41 sec	<2
Escondido	201 km (125 mi)	~44 sec	<2

Zone Shaken by S-wave Before Alert: 46 km 29 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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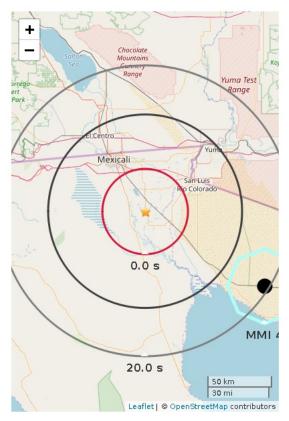


Figure 1. ShakeAlert initial earthquake location (black dot). Star is regional network epicenter. MMI 4 polygon is the estimated initial alert area. Red circle is front of peak shaking when the alert was released. Shaking takes 10 s to expand from circle to circle.



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.