

Post-ShakeAlert® Message Summary

Earthquake:

Advanced National Seismic System (ANSS):
 M 3.8 - 164.2 km (102.0 mi) W of Fortuna
 ANSS location: Not available at report time
 ANSS depth: Not available at report time
 ANSS origin (Local): Not available at report time
 ANSS origin (UTC): Not available at report time
 ShakeAlert first Message (UTC): 2024-12-20 13:09:33.9
 ShakeAlert Event ID: ew 1734700170

ShakeAlert Messages Issued (after origin time):

Initial: Not available
 Peak magnitude: Not available
 Final: Not available

ShakeAlert System Magnitude Estimates:

Initial: M 3.8
 Peak: M 3.8
 Final: M 3.8

ShakeAlert System Location Accuracy:

Initial: Not available at report time
 Peak M: Not available at report time
 Final: Not available at report time

Wireless Emergency Alert:

Magnitude below threshold for WEA system.
 WEA alerts are distributed to the MMI 4+ area if ShakeAlert Peak M ≥ 5.0

Number of Stations Reporting:

0 within 10 km of epicenter
 0 within 100 km of epicenter
 5 used in final ShakeAlert Message

Nearby Cities:

City	Distance km / (mi)	Time* sec	Shaking (MMI**)
Fortuna	164 / (102)	--	Not felt
Eureka	168 / (104)	--	Not felt
Fort Bragg	222 / (138)	--	Not felt
San Francisco	431 / (268)	--	Not felt

Radius shaken before message release: Not available

Footnotes:

* Time -- Time from message release to predicted S-wave arrival at the location. "--" for weak or imperceptible shaking.
 ** MMI -- Modified Mercalli Intensity - a numeric shaking severity scale
 *** For earthquakes deeper than ~15 km, the ShakeAlert Message may be available before peak shaking reaches the surface.

Disclaimer:

This information is provisional and 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.

To learn more about ShakeAlert®, visit www.shakealert.org/FAQ

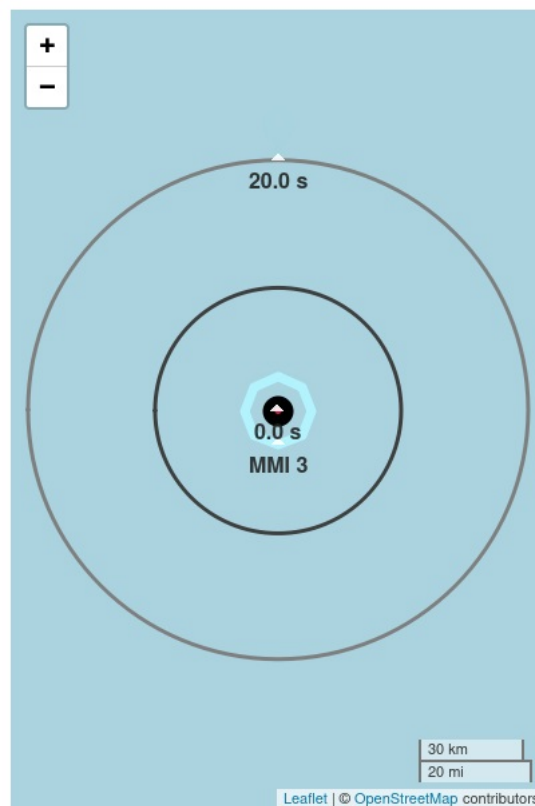


Figure 1. ShakeAlert initial earthquake location (black dot). ANSS earthquake epicenter not available. Polygon approximates outer range for felt ground motion. If shown, red circle is front of peak shaking when the Message was released***. Shaking takes 10 s to expand from circle to circle.



Figure 2. Polygons show shaking intensity contours for the peak magnitude estimate. Shaking of MMI 3 or less is often not felt. ANSS earthquake epicenter not available.

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