

Post-ShakeAlert® Message Summary

Earthquake:

Advanced National Seismic System (ANSS):
M 3.3 - 103.1 km (64.1 mi) W of Rio Dell
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 origin (UTC): 2021-12-25 02:50:04.1
ShakeAlert Event ID: ew1640400600

ShakeAlert Messages Issued (after origin time):

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

ShakeAlert System Magnitude Estimates:

Initial: M 3.5
Peak: M 3.8
Final: M 3.3

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 \geq 5.0

Number of Stations Reporting:

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

Nearby Cities:

City	Distance	Time*	MMI**
Rio Dell	103 km (64 mi)	~29 sec	<2
Eureka	115 km (71 mi)	~32 sec	<2
Fort Bragg	149 km (93 mi)	~42 sec	<2
San Francisco	364 km (226 mi)	~102 sec	<2

Radius shaken before message release: Not available

Footnotes:

- * Time -- Time between message release and arrival of the S-wave at the location.
- ** MMI -- Modified Mercalli Intensity: a scale to measure ground shaking severity.
- *** For earthquakes deeper than ~15 km, the ShakeAlert Message may be sent before peak shaking reaches the surface.

Disclaimer:

This information is provisional and subject to revision. It is 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

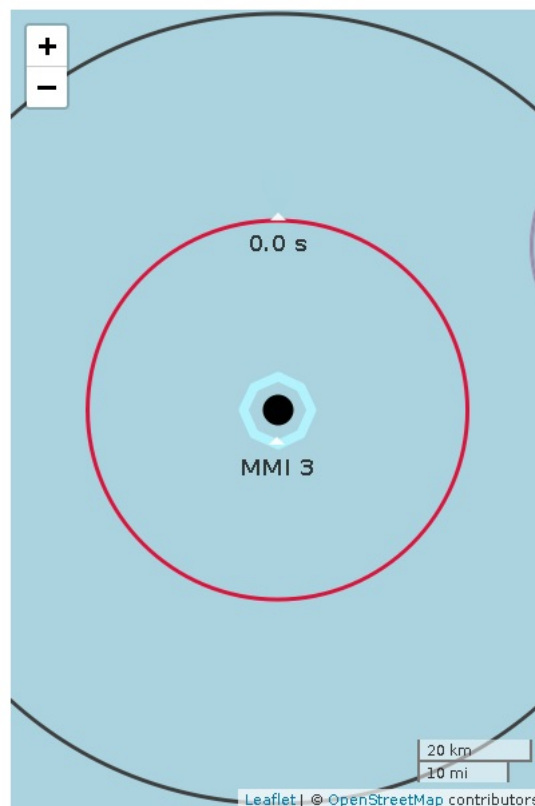


Figure 1. ShakeAlert initial earthquake location (black dot). ANSS earthquake epicenter not available. Polygon approximates outer range for felt ground motion. If shown, red circle is front of peak shaking when the message was released***. Shaking takes 10 s to expand from circle to circle.

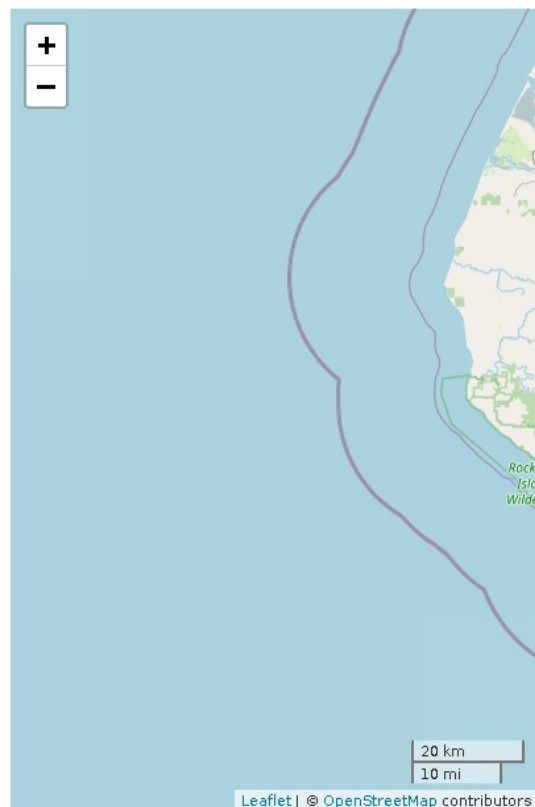


Figure 2. Polygons show shaking intensity contours for the peak magnitude estimate. Shaking of MMI 3 or less is often not felt. ANSS earthquake epicenter not available.

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