

# Post-ShakeAlert® Message Summary

## Earthquake:

Advanced National Seismic System (ANSS):  
M 4.3 - 79.8 km (49.6 mi) W of Eureka  
ANSS location: 40.763, -125.110  
ANSS depth: 10.5 km (6.5 mi)  
ANSS origin (Local): 2025-07-29 16:18:18.9  
ANSS origin (UTC): 2025-07-29 23:18:18.9  
ShakeAlert first Message (UTC): 2025-07-29 23:18:34.7  
ShakeAlert Event ID: ew1753831110

## ShakeAlert Messages Issued (after origin time):

Initial: 15.8 sec  
Peak: 20.9 sec  
Final: 39.8 sec

## ShakeAlert System Magnitude Estimates:

Initial: M 5.3  
Peak: M 5.1  
Final: M 4.5

## ShakeAlert System Location Accuracy:

Initial: 80.5 km (50.0 mi) W  
At peak: 81.1 km (50.4 mi) NW  
Final: 81.1 km (50.4 mi) NW

## Wireless Emergency Alert:

WEA delivery not confirmed.  
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  
4 within 100 km of epicenter  
88 used in final ShakeAlert Message

## Nearby Cities:

City	Distance km / (mi)	Time* sec	Shaking (MMI**)
Eureka	80 / (50)	--	Not felt
Brookings	159 / (99)	--	Not felt
Gold Beach	193 / (120)	--	Not felt
Sacramento	393 / (244)	--	Not felt

Radius shaken before message release: 55 km (34 mi)

## 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](http://www.shakealert.org/FAQ)

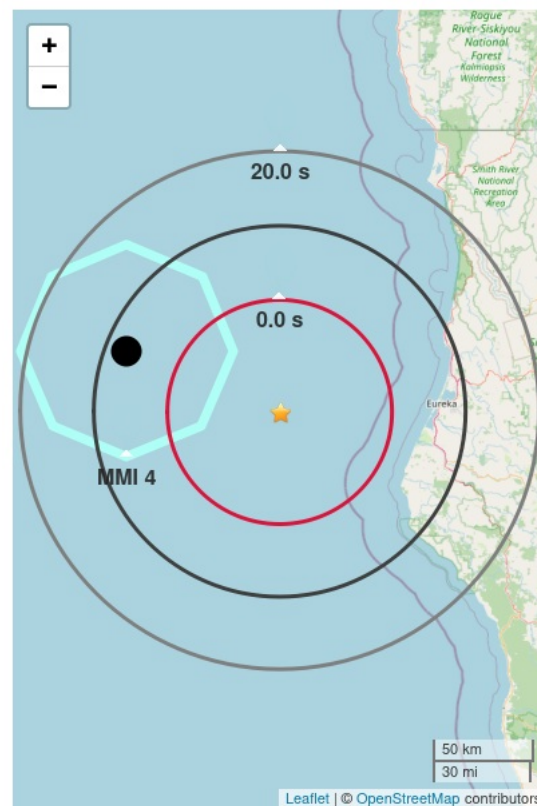


Figure 1. ShakeAlert initial earthquake location (black dot). Star is ANSS earthquake epicenter. Polygon shows estimated MMI 4 shaking intensity area. If shown, red circle is front of peak shaking when the Message was released\*\*\*. Shaking takes 10 s to expand from circle to circle.



Figure 2. Polygons show the largest contours of estimated shaking intensity. Shaking of MMI 3 or less is often not felt. Star shows the ANSS earthquake epicenter.

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