Post-ShakeAlert® Message Summary

4.8 4.8 4.6

Earthquake:

Lai liiguare.			
Advanced Nation	al Seismic Syste	m (ANSS):	
M 4.0 - 32.7 km (2	20.3 mi) SE of M	lexicali B.C.	
ANSS location:		32.420, -115.254	
ANSS depth:		10.9 km (6.8 mi)	
ANSS origin (Loca	l):	2024-05-12 11:33:4	
ANSS origin (UTC)):	2024-05-12 18:33:4	
ShakeAlert first N	lessage (UTC):	2024-05-12 18:33:54	
ShakeAlert Event	ID:	ew1715538830	
ShakeAlert Messag	es Issued (after	origin time):	
Initial:		9.8 sec	
Peak magnitude:		12.6 sec	
Final:		18.9 sec	
ShakeAlert System	Magnitude Esti	mates:	
Initial:		M 4.2	
Peak:	M 4.5		
Final:	M 4.3		
ShakeAlert System	Location Accura	acy:	
Initial:	3.2 km (2.0 mi) W		

At peak mag.:	5.3 km (3.3 mi) SW
Final:	2.4 km (1.5 mi) SW

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:

1 within 10 km of epicenter

- 32 within 100 km of epicenter
- 17 used in final ShakeAlert Message

Nearby Cities:

City	Distance	Time*	Shaking
	km / (mi)	sec	(MMI**)
Mexicali B.C.	33 / (20)		V. Weak (2)
Tijuana B.C.	166 / (103)		Not felt
San Diego	181 / (113)		Not felt
Escondido	188 / (117)		Not felt

Radius shaken before message release: 33 km (20 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

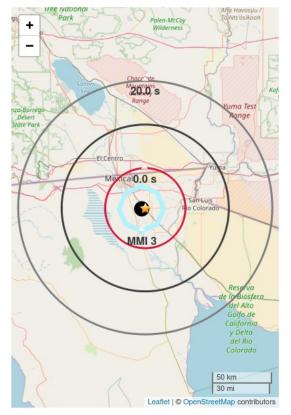


Figure 1. ShakeAlert initial earthquake location (black dot). Star is ANSS earthquake epicenter. Polygon approximates the outer range for felt ground motion. If shown, red circle is front of peak shaking when the Message was released***. Shaking takes 10 s to expand from circle to circle.



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