Post-ShakeAlert® Message Summary

Earthquake:

Advanced National Seismic System (ANSS):
M 3.7 - 30.0 km (18.6 mi) S of Mexicali B.C.

ANSS location:	32.383, -115.481
ANSS depth:	8.9 km (5.5 mi)
ANSS origin (Local):	2024-02-05 00:56:19.5
ANSS origin (UTC):	2024-02-05 08:56:19.5
ShakeAlert first Message (UTC):	2024-02-05 08:56:30.6
ShakeAlert Event ID:	ew 1707123380

ShakeAlert Messages Issued (after origin time):

Initial:	11.1 sec
Peak magnitude:	14.6 sec
Final:	21.7 sec

ShakeAlert System Magnitude Estimates:

Initial:	M 3.6
Peak:	M 3.8
Final:	M 3.8

ShakeAlert System Location Accuracy:

Initial:	8.2 km (5.1 mi) NE
At peak mag.:	1.3 km (0.8 mi) NE
Final:	1.1 km (0.7 mi) NE

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
33 within 100 km of epicenter
21 used in final ShakeAlert Message

Nearby Cities:

City	Distance km / (mi)	Time* sec	Shaking (MMI**)
Mexicali B.C.	30 / (19)	--	Not felt
Tijuana B.C.	145 / (90)	--	Not felt
San Diego	161 / (100)	--	Not felt
Palm Springs	189 / (117)	--	Not felt

Radius shaken before message release: 38 km (24 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:

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.
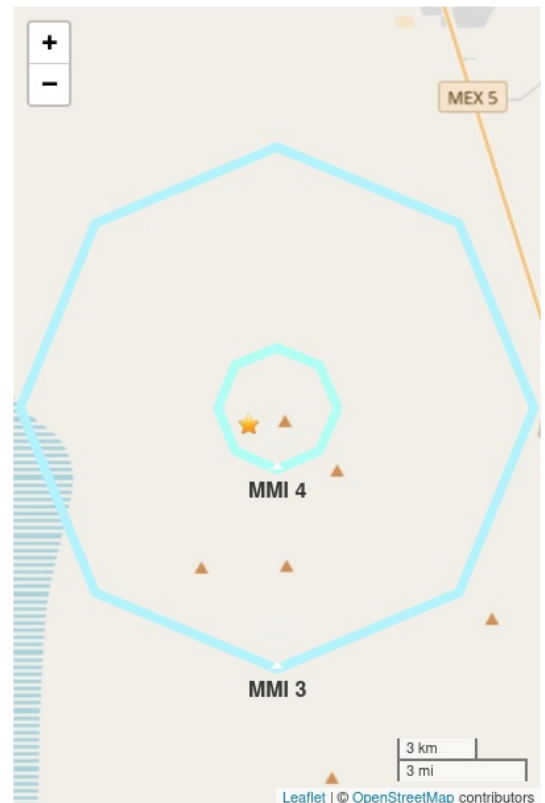

Figure 2. Polygons show shaking intensity contours for the peak magnitude estimate. Shaking of MMI 3 or less is often not felt. Star shows the ANSS earthquake epicenter.