Post-ShakeAlert® Message Summary

Earthquake:

Advanced National Seismic System (ANSS):
M 4.2 - 1.4 km (0.9 mi) NW of Commerce

ANSS location:	34.012, -118.166
ANSS depth:	16.6 km (10.3 mi)
ANSS origin (Local):	2026-11-20 03:25:35.1
ANSS origin (UTC):	2026-11-20 11:25:35.1
ShakeAlert first Message (UTC):	2026-11-20 11:25:39.4
ShakeAlert Event ID:	ew1795173930

ShakeAlert Messages Issued (after origin time):

Initial:	4.3 sec
Peak:	4.3 sec
Final:	8.5 sec

ShakeAlert System Magnitude Estimates:

Initial:	M 4.2
Peak:	M 4.2
Final:	M 4.0

ShakeAlert System Location Accuracy:

Initial:	4.0 km (2.5 mi) NW
At peak:	4.0 km (2.5 mi) NW
Final:	3.9 km (2.4 mi) NW

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:

6 within 10 km of epicenter
170 within 100 km of epicenter
54 used in final ShakeAlert Message

Nearby Cities:

City	Distance km / (mi)	Time* sec	Shaking (MMI**)
Commerce	1 / (1)	--	Weak (III)
East Lost Angeles	2 / (1)	~0	Light (IV)
Los Angeles	8 / (5)	--	Weak (III)
Pasadena	15 / (9)	--	Weak (III)

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.*

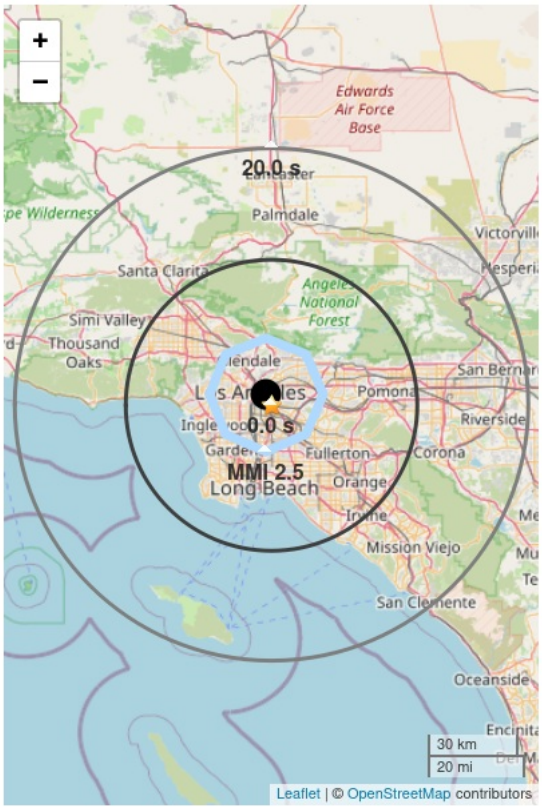


*Figure 1. Initial earthquake locations from ShakeAlert (black dot) and ANSS (orange star). Polygon shows estimated area of felt ground shaking**. Red circle (if shown) marks the position of the peak shaking wave front at the time the Alert Message was issued***. Note, shaking takes 10 seconds to expand from circle to circle.*

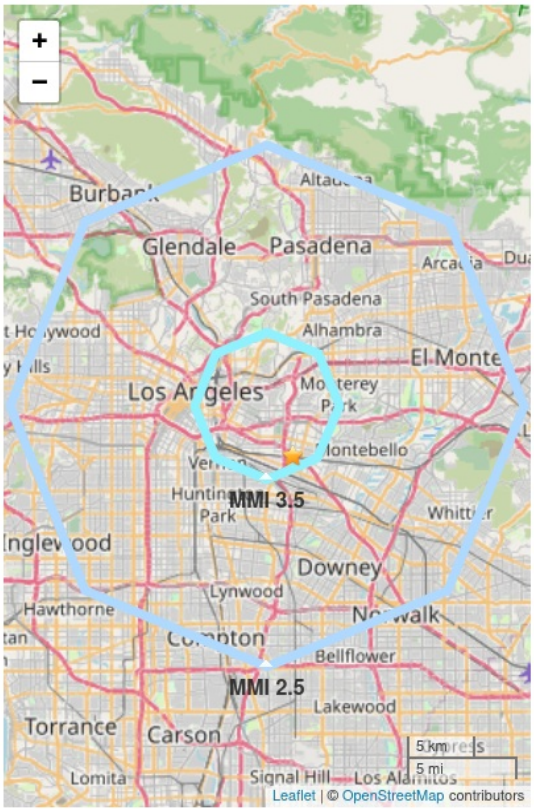


*Figure 2. Polygons show the maximum estimated extent of ground shaking for different MMI** ranges (color-coded and labeled). Shaking of MMI 3 or less is often not felt. Orange star shows the ANSS earthquake location.*

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

Report created 2026-11-20 03:30:39 (Pacific)