Post-ShakeAlert® Message Summary

Earthquake:

Advanced National Seismic System (ANSS):
M 4.3 - 2.4 km (1.5 mi) NW of Brawley

ANSS location:	32.990, -115.552
ANSS depth:	16.2 km (10.1 mi)
ANSS origin (Local):	2026-05-09 20:39:29.9
ANSS origin (UTC):	2026-05-10 03:39:29.9
ShakeAlert first Message (UTC):	2026-05-10 03:39:35.3
ShakeAlert Event ID:	ew1778384370

ShakeAlert Messages Issued (after origin time):

Initial:	5.4 sec
Peak:	6.5 sec
Final:	15.7 sec

ShakeAlert System Magnitude Estimates:

Initial:	M 5.1
Peak:	M 5.1
Final:	M 4.6

ShakeAlert System Location Accuracy:

Initial:	3.5 km (2.2 mi) SW
At peak:	3.5 km (2.2 mi) SW
Final:	2.9 km (1.8 mi) S

Wireless Emergency Alert:

This alert was distributed over the WEA system.
WEA alerts are distributed to the MMI 4+ area if ShakeAlert Peak M>=5.0

Number of Stations Reporting:

2 within 10 km of epicenter
50 within 100 km of epicenter
40 used in final ShakeAlert Message

Nearby Cities:

City	Distance km / (mi)	Time* sec	Shaking (MMI**)
Brawley	2 / (1)	~0	Light (IV)
El Centro	22 / (14)	--	Weak (III)
Mexicali B.C.	38 / (24)	--	V. Weak (II)
San Diego	153 / (95)	--	Not felt

Radius shaken before message release: 10 km (6 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.*

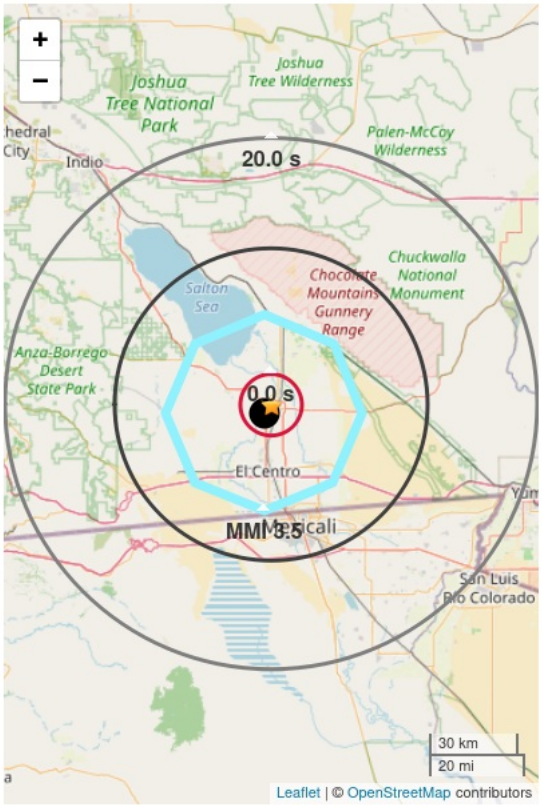

*Figure 1. Initial earthquake locations from ShakeAlert (black dot) and ANSS (orange star). Polygon shows estimated area of MMI 3.5 and greater ground shaking**. Red circle (if shown) marks the position of the peak shaking wavefront at the time the Alert Message was issued***. Note, shaking takes 10 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.*

To learn more about ShakeAlert®, visit www.shakealert.org/FAQ

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