# Earthquake:

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Advanced National Seismic System (ANSS):				
M 3.6 - 11.1 km (6.9 mi) NW of Calipatria				
ANSS location:	33.205, -115.586			
ANSS depth:	7.9 km (4.9 mi)			
ANSS origin (Local):	2023-04-30 00:58:19.7			
ANSS origin (UTC):	2023-04-30 07:58:19.7			
ShakeAlert first Message (UTC):	2023-04-30 07:58:25.6			
ShakeAlert Event ID:	ew1682841500			
ShakeAlert Messages Issued (after origin time):				
Initial:	5.9 sec			
Peak magnitude:	5.9 sec			
Final:	16.1 sec			
ShakeAlert System Magnitude Estimates:				
Initial:	M 4.9			
Peak:	M 4.9			
Final:	M 4.4			
ShakeAlert System Location Accuracy:				

## ShakeAlert System Location Accuracy:

Initial:	0.8 km (0.5 mi) NE
At peak mag.:	0.8 km (0.5 mi) NE
Final:	2.9 km (1.8 mi) SE

## 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:

3 within 10 km of epicenter

60 within 100 km of epicenter

36 used in final ShakeAlert Message

Nearby C	ities:
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City	Distance	Time*	MMI**
Calipatria	11 km (7 mi)	~0 sec	3
El Centro	46 km (29 mi)	~7 sec	2
Mexicali B.C.	62 km (39 mi)	~12 sec	<2
San Diego	156 km (97 mi)	~38 sec	<2

Radius shaken before message release: 21 km (13 mi)

#### Footnotes:

\* Time -- Time between message release and

arrival of the S-wave at the location. \*\* MMI -- Modified Mercalli Intensity: a scale to measure

ground shaking severity.

\*\*\* For earthquakes deeper than ~15 km, the ShakeAlert Message may be sent 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<sup>®</sup>, visit www.shakealert.org/FAQ

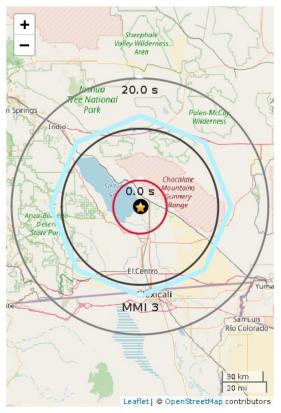


Figure 1. ShakeAlert initial earthquake location (black dot). Star is ANSS earthquake epicenter. Polygon approximates the outer range for felt ground motion. If shown, red circle is front of peak shaking when the message was released\*\*\*. Shaking takes 10 s to expand from circle to circle.

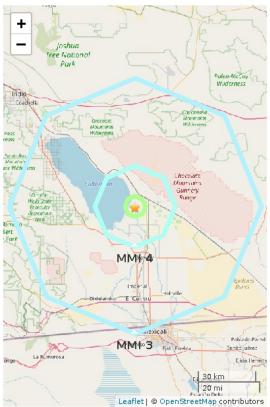


Figure 2. Polygons show shaking intensity contours for the peak magnitude estimate. Shaking of MMI 3 or less is often not felt. Star shows the ANSS earthquake epicenter.