ShakeAlert® Post-Alert Summary

Earthquake:

M 3.3 - 10.0 km (6.2 mi) NE of Milpitas

ANSS origin (Local):	2020-09-29 09:02:30.9
ANSS origin (UTC):	2020-09-29 16:02:30.9
ShakeAlert alert (UTC):	2020-09-29 16:02:34.7
ANSS location:	37.493, -121.829
ANSS depth:	4.3 km (2.7 mi)
ShakeAlert Event ID:	ew9168

Time To Alert After Earthquake Start:

Initial alert after origin time: 3.9 sec

Final alert after origin time: 11.5 sec

Magnitude Accuracy:

Initial ShakeAlert:	M 3.6
Peak ShakeAlert:	M 3.6
Final ShakeAlert:	M 3.5
ANSS report:	M 3.3

Location Accuracy:

Initial alert:	1.8 km (1.1 mi) SE
Final alert:	1.9 km (1.2 mi) NE

Number of Stations Reporting:

4 within 10 km of epicenter

95 within 100 km of epicenter

41 used in final ShakeAlert update

Nearby Cities:

City	Distance	Warning*	MMI**
Milpitas	10 km (6 mi)	~0 sec	2
Fremont	15 km (10 mi)	~1 sec	<2
San Jose	18 km (11 mi)	~1 sec	<2
San Francisco	61 km (38 mi)	~13 sec	<2

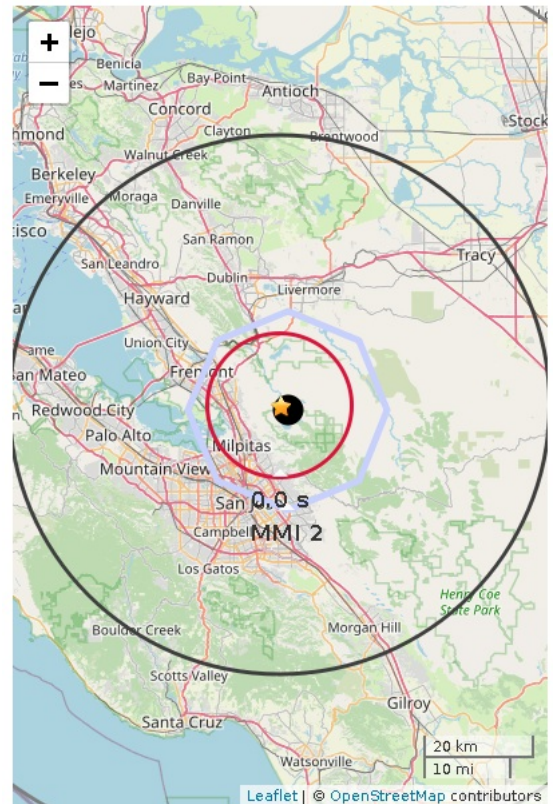**Zone Shaken by S-wave Before Alert: 14 km (8 mi)**

Figure 1. ShakeAlert initial earthquake location (black dot). Star is regional network epicenter. Polygon is the predicted outer range for felt ground motion (MMI 2). Red circle is front of peak shaking when the alert was released. Shaking takes 10 s to expand from circle to circle.
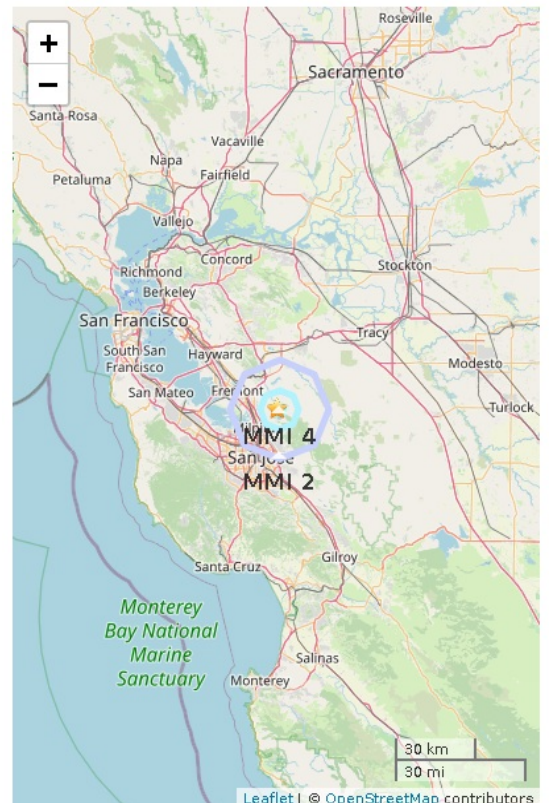

Figure 2. Polygons show shaking intensity contours for the peak magnitude ShakeAlert. Shaking of intensity 3 or less is often not felt. Star shows the regional network epicenter.

Footnotes:

**Warning -- Time between alert production and
    arrival of the S-wave at a chosen site.*

***MMI -- Modified Mercalli Intensity: a scale to measure
    ground shaking.*

Disclaimer:

This information is preliminary or provisional and is 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

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