

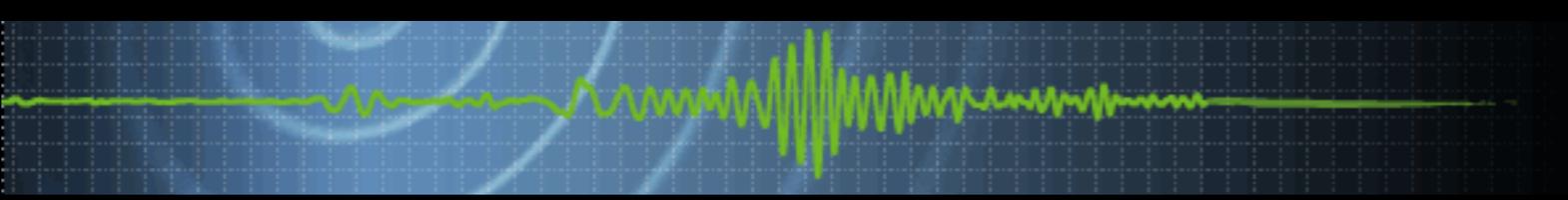
# Earthquakes on the Web

Lisa Wald, Web Content Manager

EQ101 for the Media

September 24, 2014

Menlo Park, CA



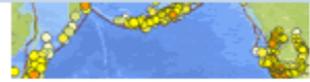
**earthquake.usgs.gov**

USGS Earthquake Hazards Program website

# Earthquake Hazards Program

# Homepage

### EARTHQUAKES



### HAZARDS



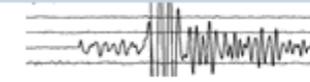
### DATA & PRODUCTS



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### MONITORING



### RESEARCH



The USGS Earthquake Hazards Program is part of the [National Earthquake Hazards Reduction Program](#) (NEHRP), established by Congress in 1977. We monitor and report earthquakes, assess earthquake impacts and hazards, and research the causes and effects of earthquake.

### Latest Earthquakes

**USGS**  
1 Day, All Magnitudes  
Last Updated: 2014-08-26 13:33:16 UTC  
Overview: [View](#) [Map](#) [List](#) [Options](#)

Magnitude	Location	Time (UTC)	Depth (km)
0.8	47km ESE of Hawthorne, Nevada	2014-08-25 13:43:07	13.3 km deep
5.0	102km ENE of Haveli, Togo	2014-08-25 12:33:16	62.8 km deep
2.5	20km N of Seaville Valley, California	2014-08-25 13:11:08	6.0 km deep
1.0	20km SSW of La Quinta, California	2014-08-25 12:35:24	6.0 km deep
1.0	110km W of Carlsbad, Alaska	2014-08-25 12:32:38	0.1 km deep
2.6	110km W of Carlsbad, Alaska	2014-08-25 12:32:38	0.1 km deep
6.2	3km W of American Canyon, California	2014-08-26 12:33:16	12.3 km deep
1.2	46km N of Inyokern, California	2014-08-25 12:32:38	6.0 km deep
1.3	27km WSW of Seelye, California	2014-08-25 12:32:38	6.0 km deep
0.8	3km SW of Coala, California	2014-08-25 12:32:38	1.3 km deep
1.4	77km WSW of Valdez, Alaska	2014-08-25 12:32:38	0.0 km deep
0.8	10km W of Coala, California	2014-08-25 12:32:38	4.2 km deep
1.9	3km WSW of El Centro, California	2014-08-25 12:32:38	13.1 km deep
0.1	46km ESE of Seelye, Nevada	2014-08-25 12:32:38	7.0 km deep
1.3	114km W of Carlsbad, Alaska	2014-08-25 12:32:38	0.1 km deep
2.7	46km N of Inyokern, California	2014-08-25 12:32:38	6.0 km deep
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View recent events or search for past earthquakes. Optimized for mobile and desktop.

[Which earthquakes are included on the map?](#)



#### Real-time Feeds & Notifications

Get real-time earthquake notifications sent to you using a number of popular mediums: Feeds, Email, Twitter, etc...



#### Did You Feel It?

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### Significant Earthquakes

Past 30 Days

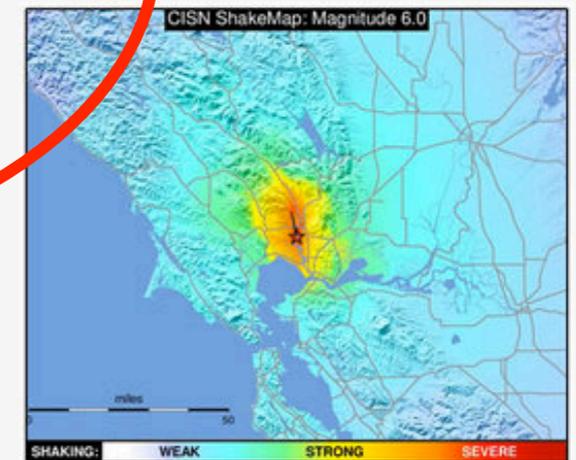
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- [6.4 18km WNW of Hacienda La Calera, Chile](#)  
2014-08-23 22:32:23 UTC 35.0 km deep
- [4.2 7km SSW of Guthrie, Oklahoma](#)  
2014-08-19 12:41:35 UTC 3.5 km deep

[Significant Earthquake Archive](#)

### Featured Items

1 2 3 4 5

#### [Earthquake 101: Resources for Reporting on Earthquakes](#)



The U.S. Geological Survey will host an educational event for the news media focused on earthquakes on Wednesday September 24, 2014. The goal of the event is to provide the press an opportunity to work with USGS staff to build knowledge about and confidence in our information delivery systems and people to create more timely and accurate reporting of earthquakes.

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 **September 15, 1976**  
M 6.3, 5.9, Italy – Aftershocks of the May 6, 1976 earthquake. These earthquakes occurred within 6 hours of each other. Eleven reported killed, some injured, and caused... [Read More](#)

#### Magnitude 2.5+ Earthquakes Past Day

4.0	<a href="#">6km S of Guthrie, Oklahoma</a>	2014-09-15 20:08:03 UTC	4.4 km deep
3.5	<a href="#">52km S of Redoubt Volcano, Alaska</a>	2014-09-15 19:49:36 UTC	98.6 km deep
2.9	<a href="#">38km NNE of Hatillo, Puerto Rico</a>	2014-09-15 18:59:21 UTC	42.0 km deep
3.0	<a href="#">40km N of Hatillo, Puerto Rico</a>	2014-09-15 18:46:26 UTC	42.0 km deep
2.7	<a href="#">77km ENE of Road Town, British Virgin I...</a>	2014-09-15 18:42:47 UTC	46.0 km deep
4.6	<a href="#">284km N of Ndoi Island, Fiji</a>	2014-09-15 15:52:36 UTC	626.6 km deep
4.5	<a href="#">29km NW of Taupo, New Zealand</a>	2014-09-15 14:49:10 UTC	194.0 km deep
4.3	<a href="#">33km S of El Rosario, El Salvador</a>	2014-09-15 14:23:51 UTC	80.3 km deep
3.3	<a href="#">101km N of Road Town, British Virgin I...</a>		

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## M6.0 - 6km NW of American Canyon, California

2014-08-24 10:20:44 UTC

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ShakeMap - IX

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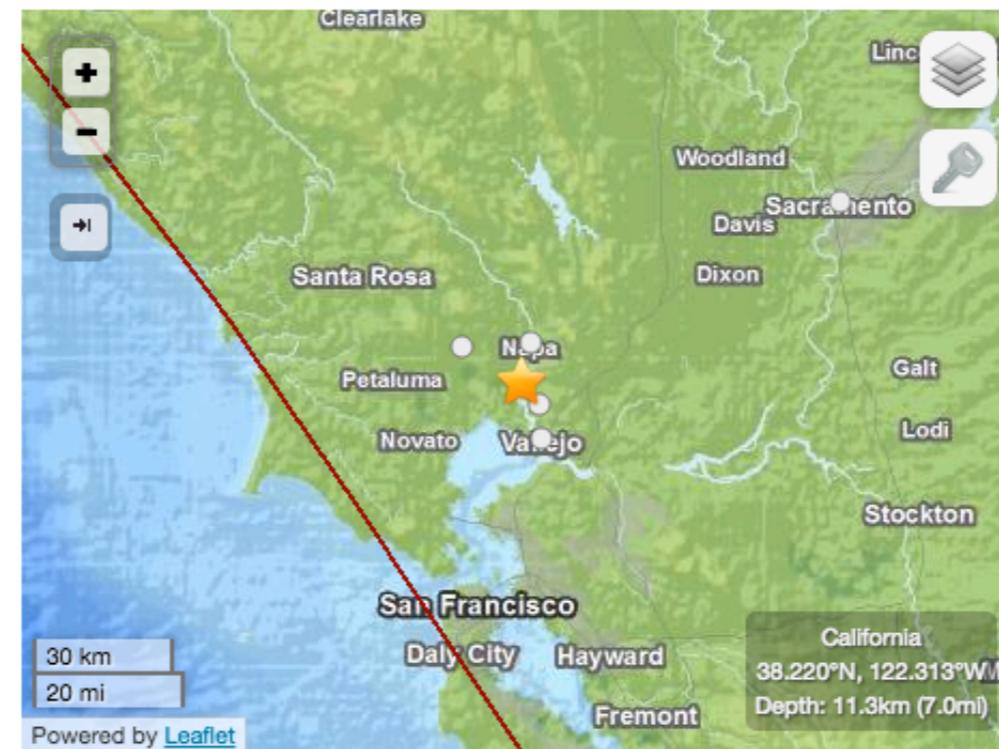
[Google Earth KML](#)



[Return to the EQ List/Map/Search](#)

### Summary

Location and Magnitude contributed by: Northern California Seismic System, UC Berkeley and USGS Menlo Park



### Event Time

2014-08-24 10:20:44 UTC

2014-08-24 03:20:44 UTC-07:00 at epicenter

2014-08-24 04:20:44 UTC-06:00 system time

### Location

38.220°N 122.313°W depth=11.3km (7.0mi)

### Nearby Cities

6km (4mi) NW of American Canyon, California

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14km (9mi) ESE of Sonoma, California

81km (50mi) WSW of Sacramento, California

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- [Additional earthquake information for California](#)
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- [Earthquake Summary Poster](#)
- [View location in Google Maps](#)

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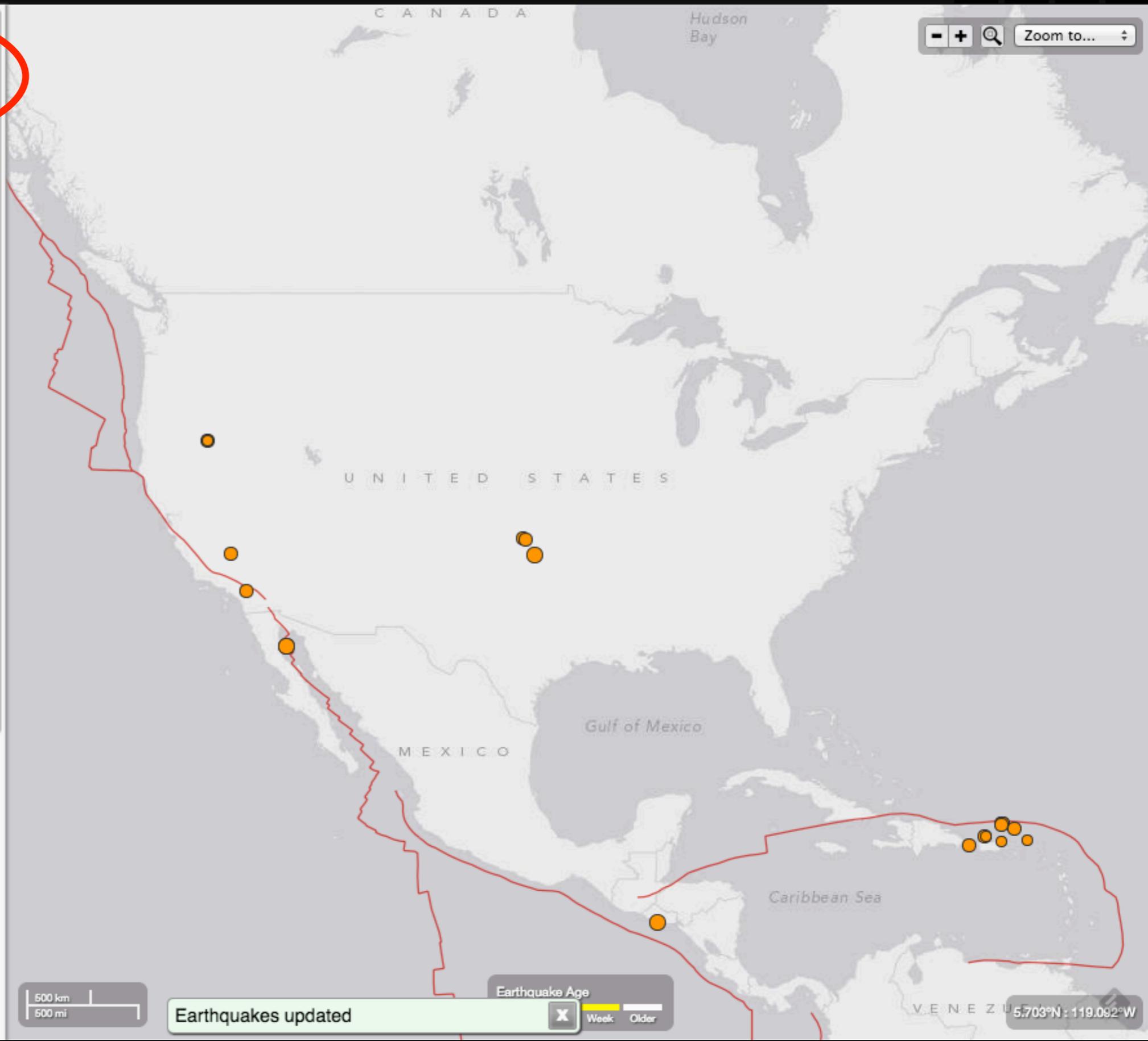
# 1 Day, Magnitude 2.5+ Worldwide

40 earthquakes - [Download](#)

Updated: 2014-09-15 15:11:45 UTC-06:00  
Showing event times using Local System Time (UTC-06:00)

23 earthquakes in map area

4.0	6km S of Guthrie, Oklahoma	2014-09-15 14:08:03 UTC-06:00	4.4 km
2.9	38km NNE of Hatillo, Puerto Rico	2014-09-15 12:59:21 UTC-06:00	42.0 km
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3.1	27km NNW of Enid, Oklahoma	2014-09-15 07:27:40 UTC-06:00	4.0 km
2.9	68km ESE of Lakeview, Oregon	2014-09-15 07:16:01 UTC-06:00	0.0 km
4.9	74km SE of San Felipe, Mexico	2014-09-15 06:23:43 UTC-06:00	10.0 km
3.4	131km N of Vieques, Puerto Rico	2014-09-15 05:23:22 UTC-06:00	13.0 km
2.5	9km NNE of Luquillo, Puerto Rico	2014-09-15 04:53:04 UTC-06:00	101.0 km
3.2	68km SE of Punta Cana, Dominican Republic	2014-09-15 04:40:02 UTC-06:00	108.0 km
3.1	16km E of Cherokee, Oklahoma	2014-09-15 03:21:23 UTC-06:00	5.0 km
4.7	73km SE of San Felipe, Mexico	2014-09-15 00:50:09 UTC-06:00	10.0 km
2.6	74km SE of Lakeview, Oregon	2014-09-15 00:21:26 UTC-06:00	0.4 km
3.6	137km NNE of Vieques, Puerto Rico	2014-09-15 00:09:37 UTC-06:00	41.0 km
3.5	68km ESE of Lakeview, Oregon	2014-09-14 22:20:35 UTC-06:00	1.3 km
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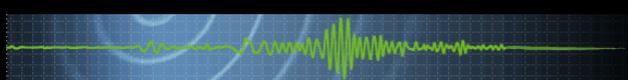
Updated: 2014-09-15 15:17:45 UTC-06:00

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4.0	6km S of Guthrie, Oklahoma	2014-09-15 14:08:03 UTC-06:00	4.4 km
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0.0	38km NNE of Hatillo, Puerto Rico		
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2014-08-24 04:20:44 UTC-06:00 11.3 km

**6.0 6km NW of American Canyon, California**

2014-08-24 04:20:44 UTC-06:00

11.3 km

**Didn't find what you were looking for?**

Change your "Settings" to view more earthquakes.

[Which earthquakes are included on the map and list?](#)

[Felt something not shown – report it here.](#)



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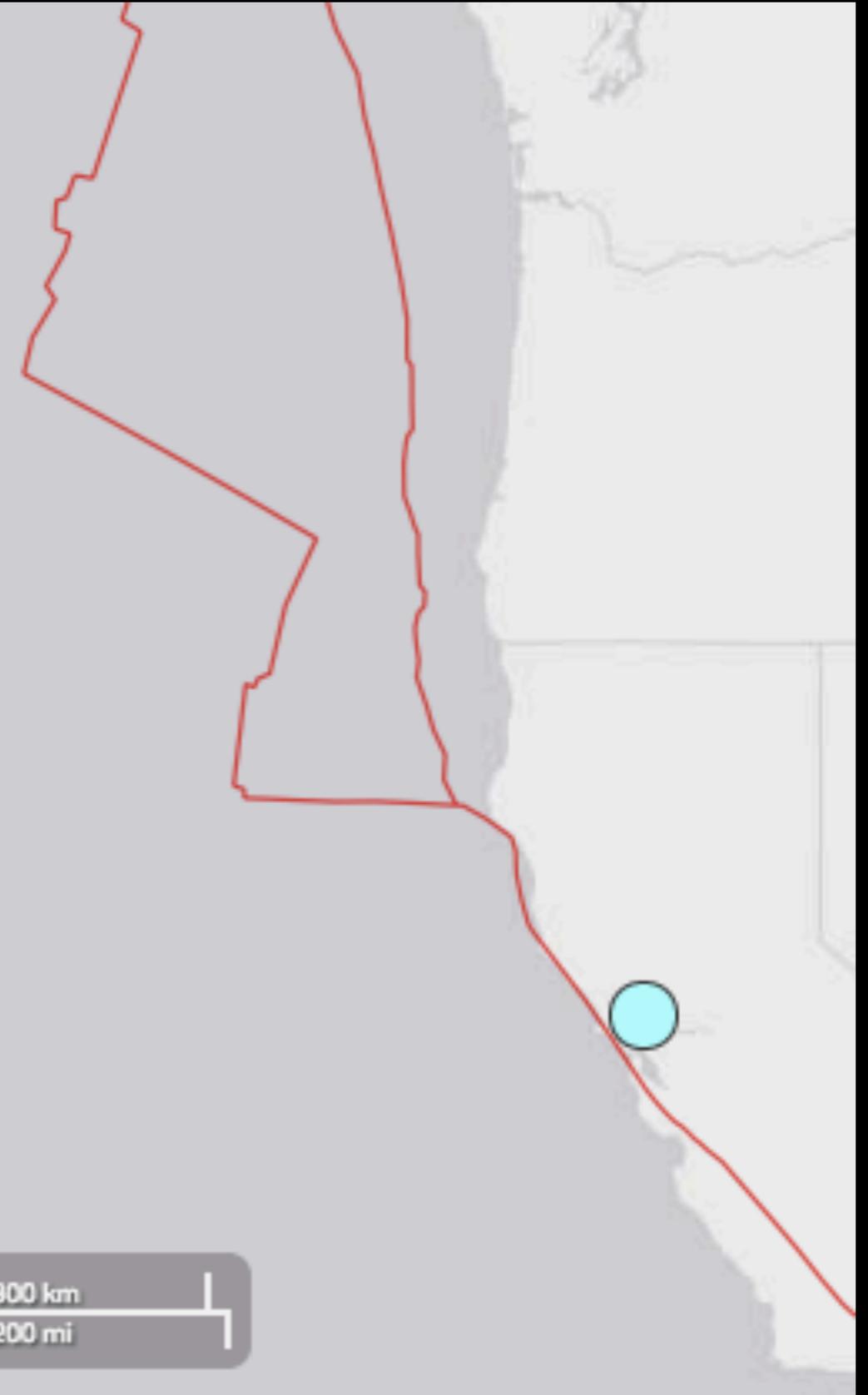
**PAGER - RED**

**ShakeMap - IX**

**DYFI? - VIII**



Time 2014-08-24 04:20:44 UTC-06:00  
Location 38.220°N 122.313°W  
Depth 11.3km



Summary

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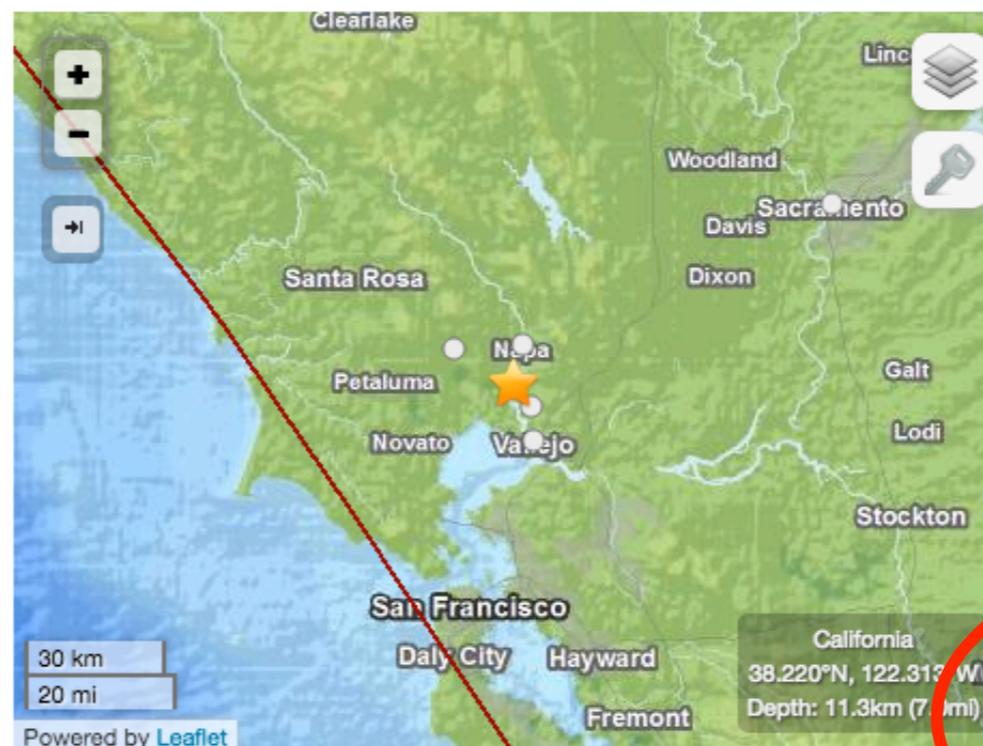


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EQ Summary Posters

By Year

By Region

## Poster of the South Napa Earthquake of 24 August 2014 - Magnitude 6.0

### Tectonic Summary

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### Downloads



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### Settings

The posters may be downloaded for viewing or for printing on a color plotter. Adobe PDF (.pdf) format files are provided. Adobe Acrobat 6.0 or higher is required for viewing the PDF file on a computer monitor and for printing the PDF map graphic.



# PROBABILITY REPORT

Published on August 31, 2014 @ 10:20:46 UTC

Northern California Seismic System (NCSS) operated by UC Berkeley and USGS

Version E: This report supersedes any earlier probability reports about this event.

## MAINSHOCK

Magnitude : 6.02 Mw (A strong quake)  
Time : 24 Aug 2014 03:20:44 AM, PDT  
: 24 Aug 2014 10:20:44 UTC  
Coordinates : 38 deg. 13.21 min. N, 122 deg. 18.77 min. W  
: 38.2202 N, 122.3128 W  
Depth : 7.0 miles ( 11.3 km)  
Quality : Excellent  
Location : 4 mi. ( 6 km) NW of American Canyon, CA  
: 8 mi. ( 13 km) NNW of Vallejo, CA  
Event ID : NC 72282711

## STRONG AFTERSHOCKS (Magnitude 5 and larger) -

At this time (7 days after the mainshock) the probability of a strong and possibly damaging aftershock IN THE NEXT 7 DAYS is less than 10 PERCENT

## EARTHQUAKES LARGER THAN THE MAINSHOCK -

Most likely, the recent mainshock will be the largest in the sequence. However, there is a small chance (APPROXIMATELY 2 PERCENT) of an earthquake equal to or larger than this mainshock in the next 7 days.

## WEAK AFTERSHOCKS (Magnitude 3 to 5) -

In addition, up to approximately 10 SMALL AFTERSHOCKS are expected in the same 7-DAY PERIOD and may be felt locally.

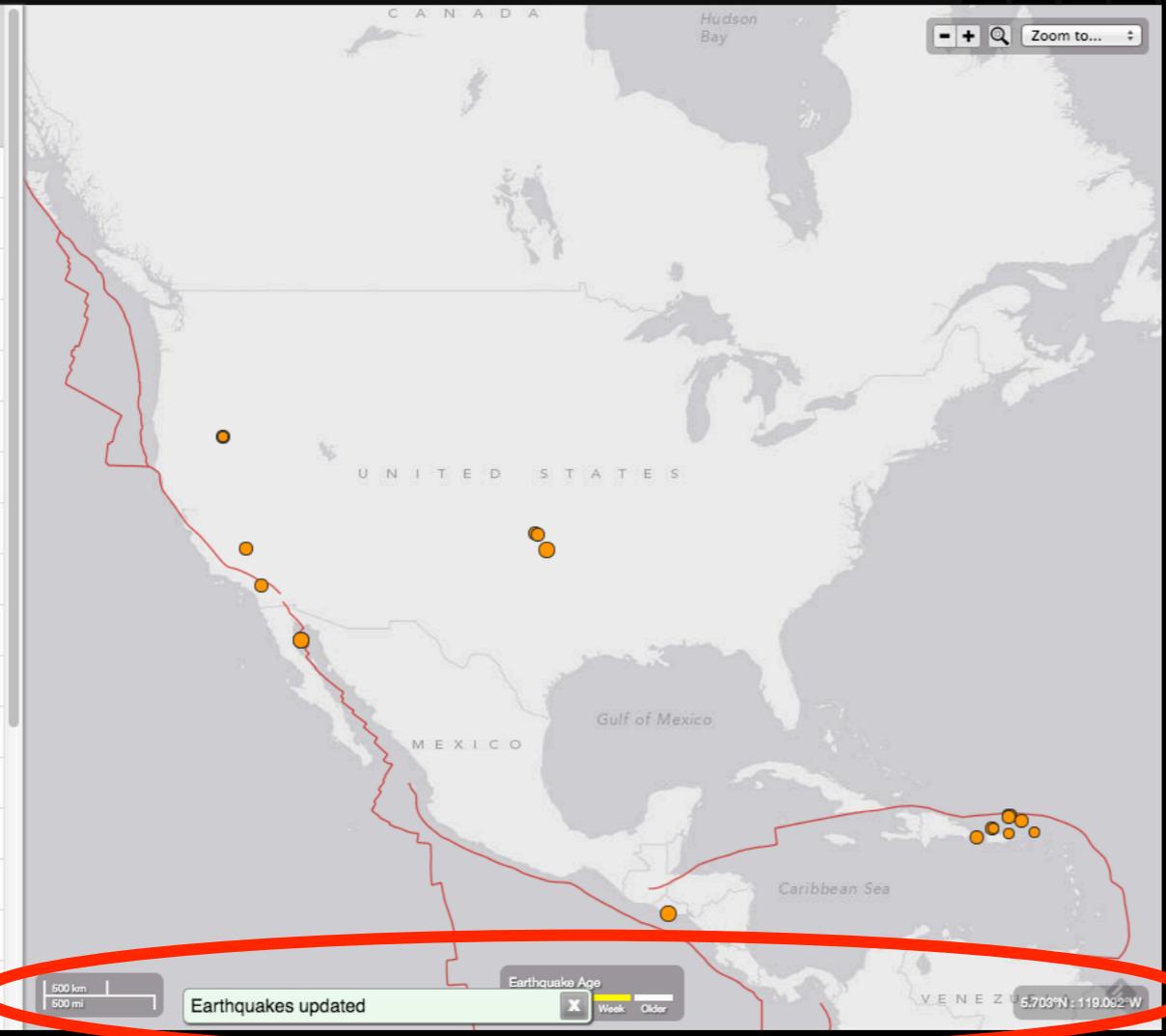
*This probability report is based on the statistics of aftershocks typical for California. This is not an exact prediction, but only a rough guide to expected aftershock activity. This probability report may be revised as more information becomes available.*

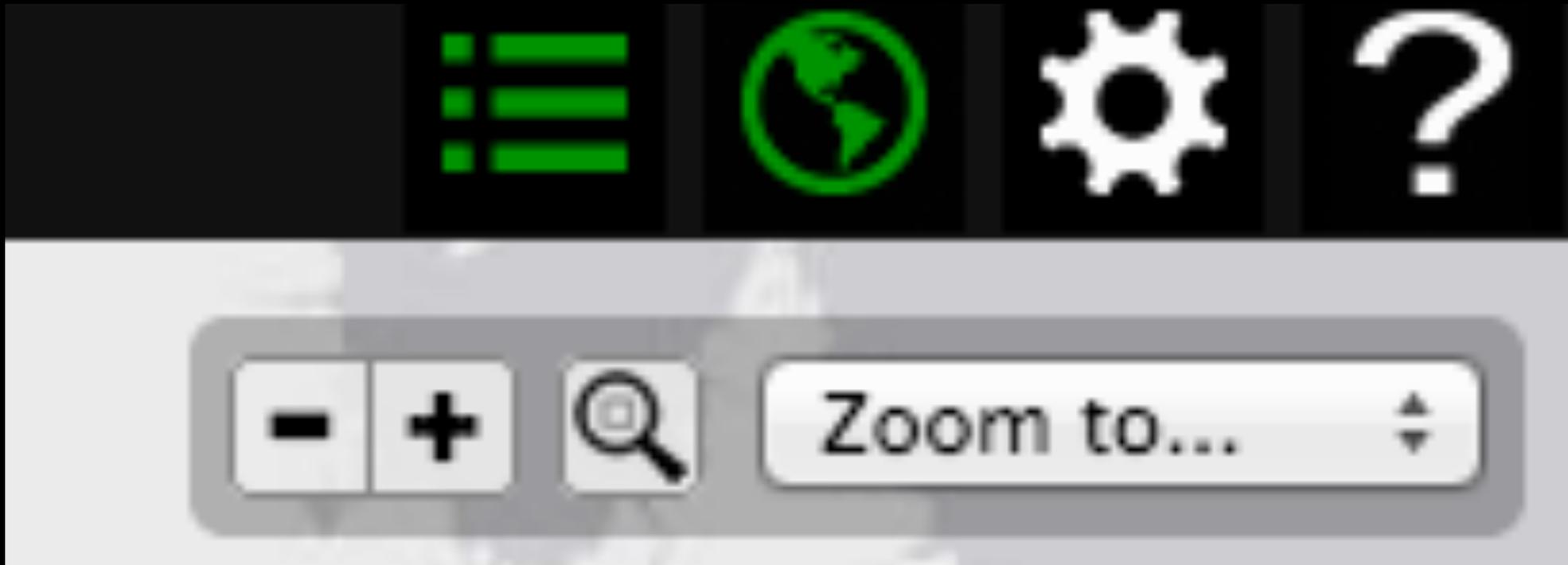
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3.6	137km NNE of Vieques, Puerto Rico	2014-09-14 00:09:37 UTC-06:00	41.0 km
3.5	68km ESE of Lakeview, Oregon	2014-09-14 22:20:35 UTC-06:00	1.3 km
	68km ESE of Lakeview, Oregon		



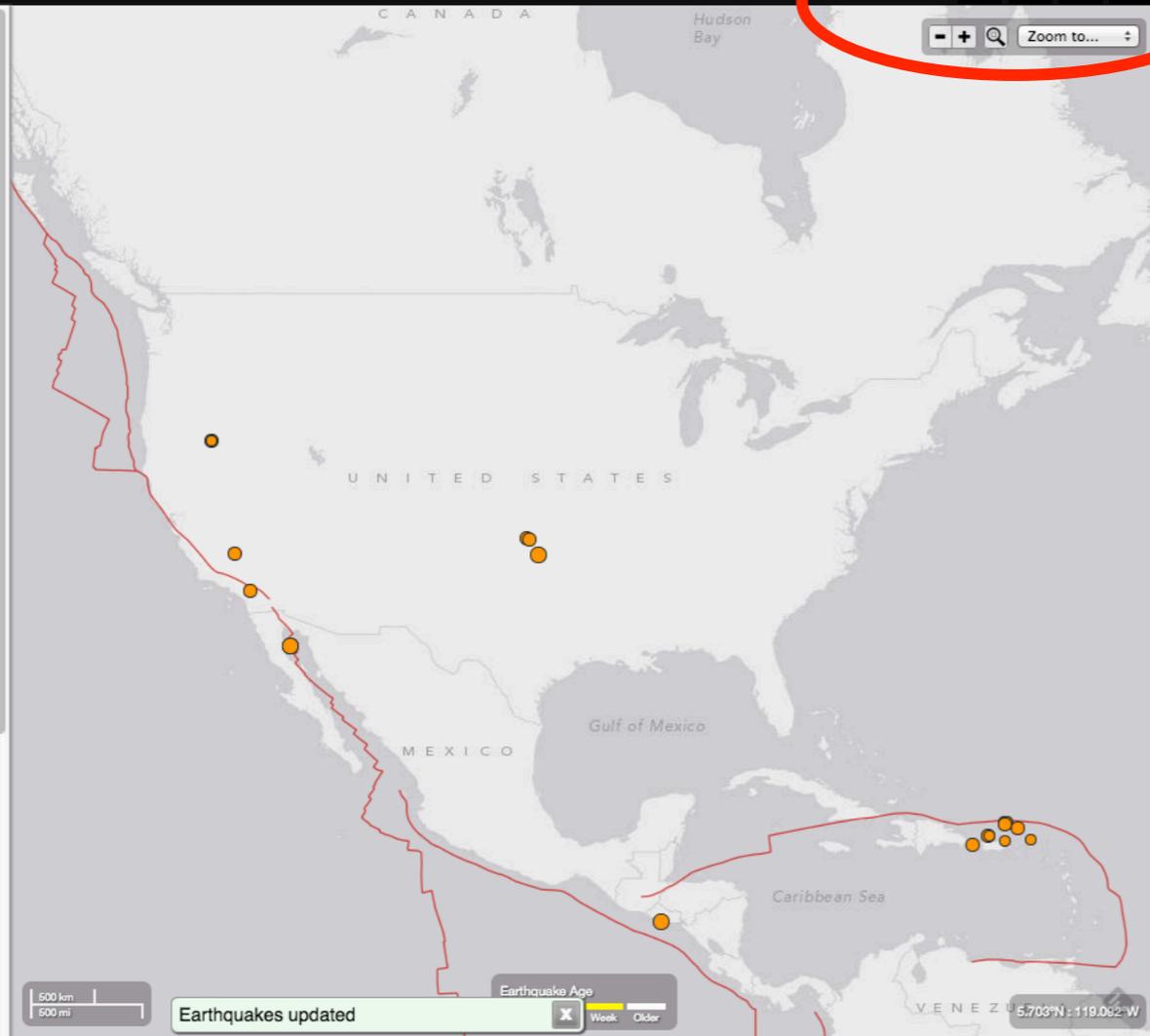


**USGS**

**1 Day, Magnitude 2.5+ Worldwide**  
40 earthquakes - [Download](#)  
Updated: 2014-09-15 15:11:45 UTC-06:00  
Showing event times using Local System Time (UTC-06:00)

23 earthquakes in map area

4.0	6km S of Guthrie, Oklahoma	2014-09-15 14:08:03 UTC-06:00	4.4 km
2.9	38km NNE of Hatillo, Puerto Rico	2014-09-15 12:59:21 UTC-06:00	42.0 km
3.0	40km N of Hatillo, Puerto Rico	2014-09-15 12:46:26 UTC-06:00	42.0 km
2.7	77km ENE of Road Town, British Virgin Isl...	2014-09-15 12:42:47 UTC-06:00	46.0 km
4.3	33km S of El Rosario, El Salvador	2014-09-15 08:23:51 UTC-06:00	80.3 km
3.3	101km N of Road Town, British Virgin Islands	2014-09-15 08:21:07 UTC-06:00	28.0 km
3.1	27km NNW of Enid, Oklahoma	2014-09-15 07:27:40 UTC-06:00	4.0 km
2.9	68km ESE of Lakeview, Oregon	2014-09-15 07:16:01 UTC-06:00	0.0 km
4.9	74km SE of San Felipe, Mexico	2014-09-15 06:23:43 UTC-06:00	10.0 km
3.4	131km N of Vieques, Puerto Rico	2014-09-15 05:23:22 UTC-06:00	13.0 km
2.5	9km NNE of Luquillo, Puerto Rico	2014-09-15 04:53:04 UTC-06:00	101.0 km
3.2	68km SE of Punta Cana, Dominican Republic	2014-09-15 04:40:02 UTC-06:00	108.0 km
3.1	16km E of Cherokee, Oklahoma	2014-09-15 03:21:23 UTC-06:00	5.0 km
4.7	73km SE of San Felipe, Mexico	2014-09-15 00:50:09 UTC-06:00	10.0 km
2.6	74km SE of Lakeview, Oregon	2014-09-15 00:21:26 UTC-06:00	0.4 km
3.6	137km NNE of Vieques, Puerto Rico	2014-09-15 00:09:37 UTC-06:00	41.0 km
3.5	68km ESE of Lakeview, Oregon	2014-09-14 22:20:35 UTC-06:00	1.3 km
6.8	68km ESE of Lakeview, Oregon		



### MY SETTINGS

Bookmark to return to map/list with same settings.

#### Earthquakes

Auto Update

- 1 Day, Magnitude 2.5+ Worldwide
- 1 Day, All Magnitudes Worldwide
- 7 Days, Magnitude 4.5+ Worldwide
- 7 Days, Magnitude 2.5+ Worldwide
- 7 Days, All Magnitudes Worldwide
- 30 Days, Significant Worldwide
- 30 Days, Magnitude 4.5+ Worldwide
- 30 Days, Magnitude 2.5+ Worldwide

Create new or edit existing search.  
[Search Earthquake Archives](#)

#### List Sort Order

- Newest first
  - Oldest first
  - Largest magnitude first
  - Smallest magnitude first
- Only List Earthquakes Shown on Map

#### Map Layers

- Grayscale
  - Terrain
  - Street
  - Satellite
- Plate Boundaries
- U.S. Faults
  - U.S. Hazard

#### Time Zone

- Local System Time (UTC-06:00)
- Event Epicenter Time
- UTC

### 30 Days, Magnitude 2.5+ Worldwide

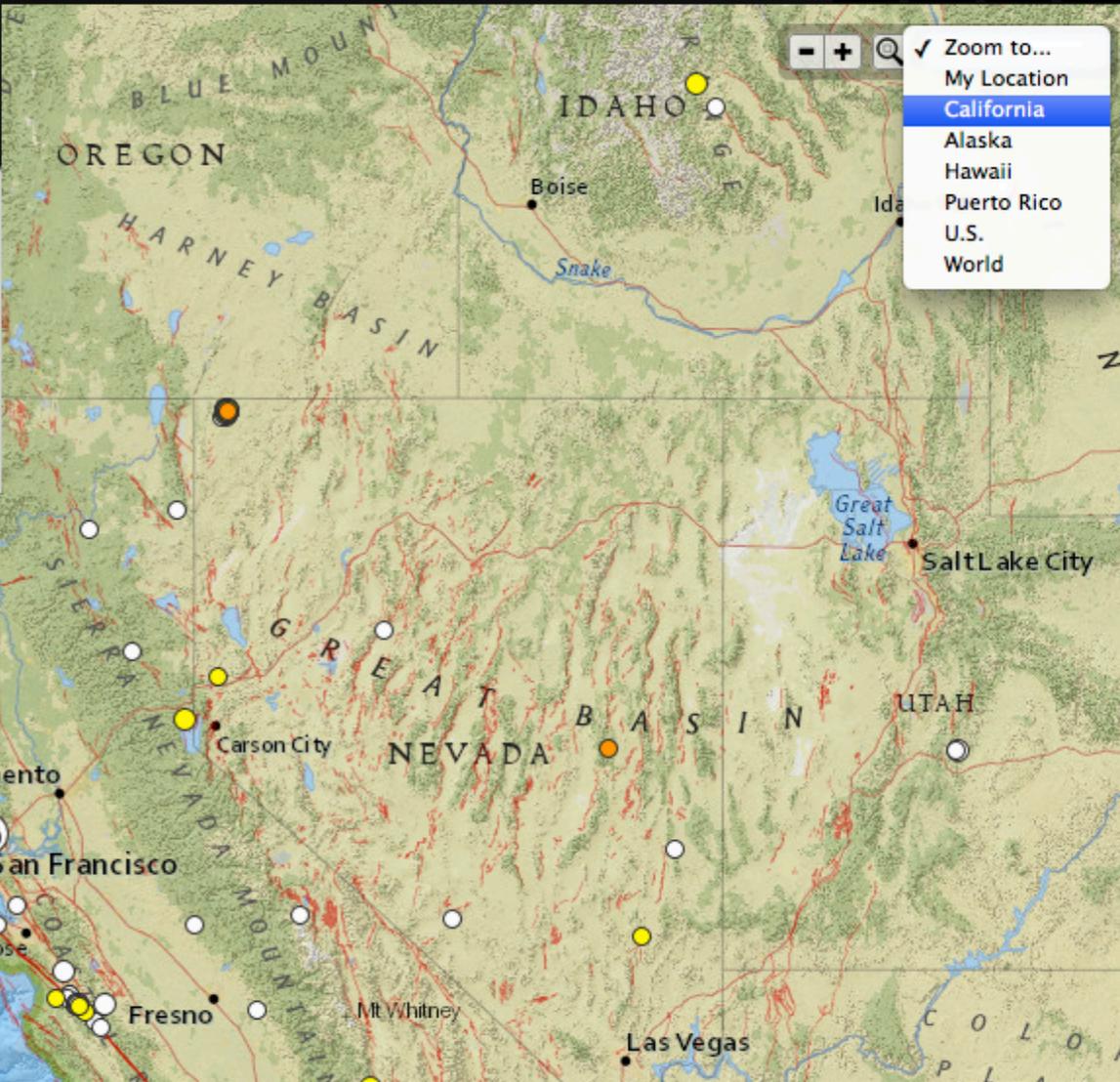
1270 earthquakes - [Download](#)

Updated: 2014-09-17 15:04:05 UTC

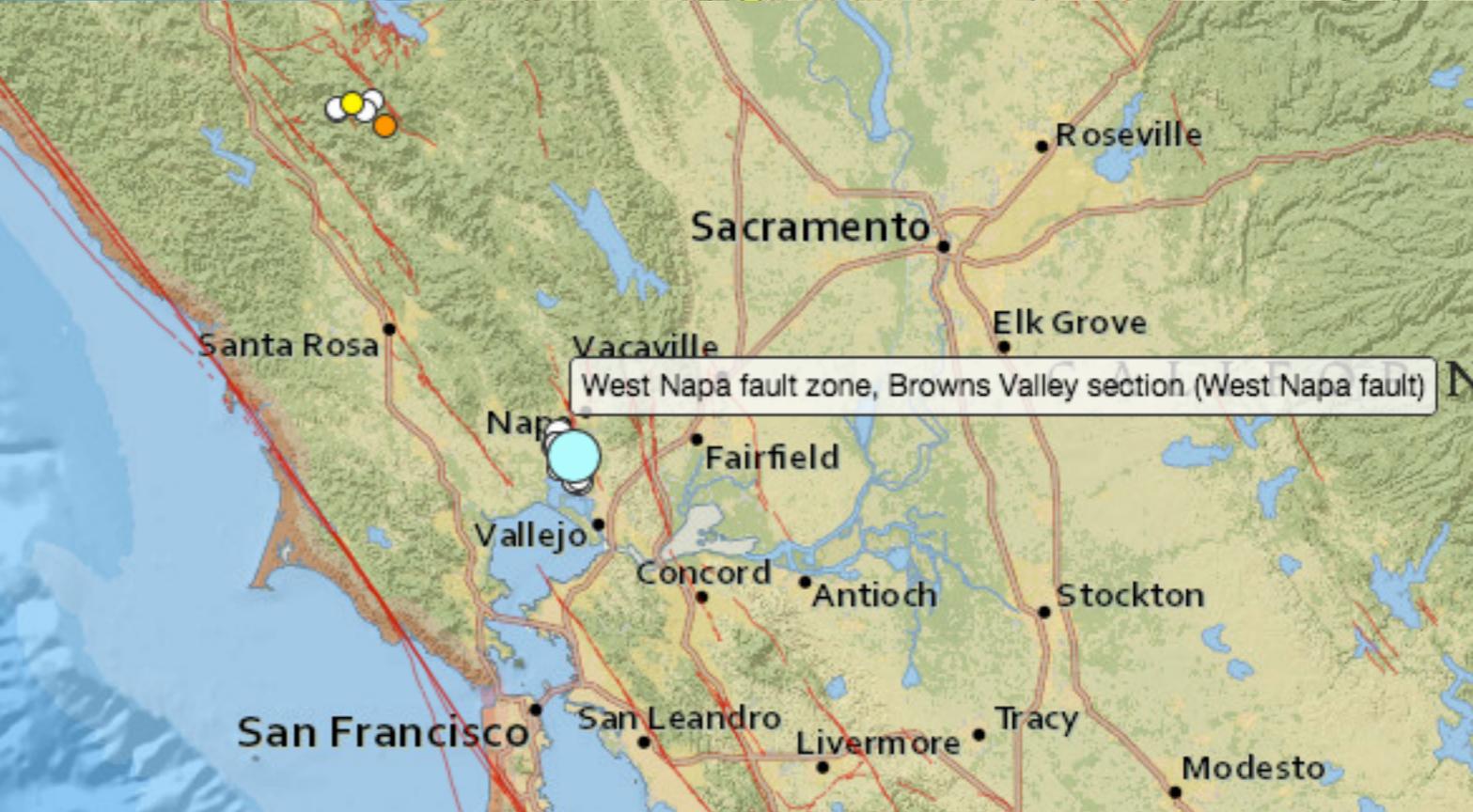
Showing event times using UTC

3.5	12km SSE of Perry, Oklahoma	2014-09-17 13:21:54 UTC	3.3 km
4.6	96km NNW of San Antonio de los Cobres, ...	2014-09-17 13:10:40 UTC	205.4 km
4.6	10km WNW of Florina, Greece	2014-09-17 12:33:24 UTC	11.4 km
3.3	12km WNW of Yale, Oklahoma	2014-09-17 12:02:55 UTC	5.0 km
3.0	10km WNW of Yale, Oklahoma	2014-09-17 11:58:26 UTC	2.6 km
2.5	41km N of San Juan, Puerto Rico	2014-09-17 11:17:07 UTC	24.0 km
3.2	13km WNW of Medford, Oklahoma	2014-09-17 11:09:05 UTC	4.7 km
5.0	78km SE of Lukatan, Philippines	2014-09-17 10:36:48 UTC	66.3 km
4.0	15km WSW of Seabeck, Washington	2014-09-17 10:06:12 UTC	16.5 km
3.2	109km NNE of Vieques, Puerto Rico	2014-09-17 08:51:22 UTC	113.0 km
2.9	39km W of Kalifornsky, Alaska	2014-09-17 08:18:47 UTC	92.6 km
2.5	9km SSW of La Parguera, Puerto Rico	2014-09-17 07:07:32 UTC	11.0 km
4.7	30km NW of Chitral, Pakistan	2014-09-17 06:18:28 UTC	91.3 km
6.7	45km NW of Piti Village, Guam	2014-09-17 06:14:46 UTC	136.7 km
5.6	59km E of Lakatoro, Vanuatu	2014-09-17 06:11:49 UTC	181.0 km
2.7	78km N of Loiza, Puerto Rico	2014-09-17 04:49:22 UTC	68.0 km
2.6	14km SW of Perry, Oklahoma	2014-09-17 04:07:48 UTC	4.8 km
3.0	73km N of Brenas, Puerto Rico	2014-09-17 03:24:14 UTC	41.0 km
5.0	101km SSE of Bengkulu, Indonesia	2014-09-17 02:29:50 UTC	54.4 km
4.1	13km NE of Taloqan, Afghanistan	2014-09-17 01:39:22 UTC	61.3 km
3.4	130km SSE of Kodiak, Alaska	2014-09-17 01:10:47 UTC	0.1 km
3.2	31km ESE of Y, Alaska	2014-09-16 23:56:49 UTC	24.5 km
4.3	34km S of Jarm, Afghanistan	2014-09-16 23:11:17 UTC	200.1 km





2.5	71km SE of Lakeview, Oregon	2014-09-16 11:10:05 UTC	0.5 km
2.7	21km SW of La Quinta, California	2014-09-16 03:59:36 UTC	12.4 km
3.0	68km SE of Lakeview, Oregon	2014-09-15 23:23:16 UTC	0.0 km
4.6	70km SE of San Felipe, Mexico	2014-09-15 22:01:14 UTC	10.0 km
4.8	85km SE of San Felipe, Mexico	2014-09-15 18:27:20 UTC	10.0 km
2.9	68km ESE of Lakeview, Oregon	2014-09-15 13:16:01 UTC	0.0 km
4.9	74km SE of San Felipe, Mexico	2014-09-15 12:23:43 UTC	10.0 km
4.7	73km SE of San Felipe, Mexico	2014-09-15 06:50:09 UTC	10.0 km
2.6	74km SE of Lakeview, Oregon	2014-09-15 06:21:26 UTC	0.4 km
3.5	68km ESE of Lakeview, Oregon	2014-09-15 04:20:35 UTC	1.3 km
2.8	68km ESE of Lakeview, Oregon	2014-09-15 02:48:51 UTC	0.4 km
3.2	34km NNW of Inyokern, California	2014-09-15 00:56:56 UTC	9.6 km
3.0	1km NNW of San Jacinto, California	2014-09-14 22:16:55 UTC	13.0 km
3.3	10km ESE of Covelo, California	2014-09-14 20:17:46 UTC	8.3 km
3.0	12km NW of Challis, Idaho	2014-09-14 18:58:45 UTC	6.2 km
2.7	6km W of Cobb, California	2014-09-14 18:07:34 UTC	2.7 km
2.6	18km ESE of Alamo, Nevada	2014-09-14 15:36:23 UTC	3.5 km
2.5	16km SSE of Ridgemark, California	2014-09-12 19:44:21 UTC	4.1 km
-	3km N of Ventura, California		



earthquake.usgs.gov/earthquakes/map/#%7B%22feed%22%3A%2230day\_m25%22%2C%22search%22%3Anull%2...  

[http://earthquake.usgs.gov/earthquakes/map/#%7B%22feed%22%3A%2230day\\_m25%22%2C%22search%22%3Anull%2C%22sort%22%3A%22newest%22%2C%22basemap%22%3A%22terrain%22%2C%22autoUpdate%22%3Atrue%2C%22restrictListToMap%22%3Atrue%2C%22timeZone%22%3A%22utc%22%2C%22mapposition%22%3A%5B%5B-27.059125784374054%2C-186.15234374999997%5D%2C%5B71.30079291637452%2C-46.93359375%5D%5D%2C%22overlays%22%3A%7B%22plates%22%3Atrue%2C%22faults%22%3Atrue%7D%2C%22viewModes%22%3A%7B%22map%22%3Atrue%2C%22list%22%3Atrue%2C%22settings%22%3Afalse%2C%22help%22%3Afalse%7D%7D](http://earthquake.usgs.gov/earthquakes/map/#%7B%22feed%22%3A%2230day_m25%22%2C%22search%22%3Anull%2C%22sort%22%3A%22newest%22%2C%22basemap%22%3A%22terrain%22%2C%22autoUpdate%22%3Atrue%2C%22restrictListToMap%22%3Atrue%2C%22timeZone%22%3A%22utc%22%2C%22mapposition%22%3A%5B%5B-27.059125784374054%2C-186.15234374999997%5D%2C%5B71.30079291637452%2C-46.93359375%5D%5D%2C%22overlays%22%3A%7B%22plates%22%3Atrue%2C%22faults%22%3Atrue%7D%2C%22viewModes%22%3A%7B%22map%22%3Atrue%2C%22list%22%3Atrue%2C%22settings%22%3Afalse%2C%22help%22%3Afalse%7D%7D)



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**1 Day, Magnitude 2.5+ Worldwide**  
 44 earthquakes - Download  
 Updated: 2014-09-17 09:16:13 UTC-06:00  
 Showing event times using Local System Time (UTC-06:00)

- 2.5 8km SE of 2014-09-17
- 3.5 12km SSE 2014-09-17
- 4.6 96km NNW 2014-09-17
- 4.6 10km WNW 2014-09-17
- 3.3 12km WNW 2014-09-17
- 3.0 10km WNW 2014-09-17
- 2.5 41km N of 2014-09-17
- 3.2 13km WNW 2014-09-17
- 5.0 78km SE of 2014-09-17
- 4.0 15km WSW 2014-09-17
- 3.2 109km NNW 2014-09-17
- 2.9 39km W of 2014-09-17
- 2.5 9km SSW 2014-09-17

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**1 Day, Magnitude 2.5+ Worldwide**

44 earthquakes - Download  
 Updated: 2014-09-17 09:16:13 UTC-06:00  
 Showing event times using Local System Time (UTC-06:00)

2.5	8km SE of Lompoc, California	2014-09-17 09:13:27 UTC-06:00	10.7 km
3.5	12km SSE of Perry, Oklahoma	2014-09-17 07:21:54 UTC-06:00	3.3 km
4.6	96km NNW of San Antonio de los Cobres, Argentina	2014-09-17 07:10:40 UTC-06:00	205.4 km
4.6	10km WNW of Florina, Greece	2014-09-17 06:33:24 UTC-06:00	11.4 km
3.3	12km WNW of Yale, Oklahoma	2014-09-17 06:02:55 UTC-06:00	5.0 km
3.0	10km WNW of Yale, Oklahoma	2014-09-17 05:58:26 UTC-06:00	2.6 km
2.5	41km N of San Juan, Puerto Rico	2014-09-17 05:17:07 UTC-06:00	24.0 km
3.2	13km WNW of Medford, Oklahoma	2014-09-17 05:09:05 UTC-06:00	4.7 km
5.0	78km SE of Lukatan, Philippines	2014-09-17 04:36:48 UTC-06:00	66.3 km
4.0	15km WSW of Seabeck, Washington	2014-09-17 04:06:12 UTC-06:00	16.5 km
3.2	109km NNE of Vieques, Puerto Rico	2014-09-17 02:51:22 UTC-06:00	113.0 km
2.9	39km W of Kallifornsky, Alaska	2014-09-17 02:18:47 UTC-06:00	92.6 km
2.5	9km SSW of La Parguera, Puerto Rico	2014-09-17 01:07:32 UTC-06:00	11.0 km
4.7	30km NW of Chitral, Pakistan	2014-09-17 00:18:28 UTC-06:00	91.3 km
6.7	45km NW of Piti Village, Guam	2014-09-17 00:14:46 UTC-06:00	136.7 km
5.6	59km E of Lakatoro, Vanuatu	2014-09-17 00:11:49 UTC-06:00	181.0 km
2.7	78km N of Loiza, Puerto Rico	2014-09-16 22:49:22 UTC-06:00	68.0 km
2.6	14km SW of Perry, Oklahoma	2014-09-16 22:07:48 UTC-06:00	4.8 km
3.0	73km N of Brenas, Puerto Rico	2014-09-16 21:24:14 UTC-06:00	41.0 km
5.0	101km SSE of Bengkulu, Indonesia	2014-09-16 20:29:50 UTC-06:00	54.4 km
4.1	13km NE of Talagan, Afghanistan	2014-09-16 19:39:22 UTC-06:00	61.3 km
3.4	130km SSE of Kodiak, Alaska	2014-09-16 19:10:47 UTC-06:00	0.1 km
3.2	31km ESE of Y, Alaska	2014-09-16 17:56:49 UTC-06:00	24.5 km
4.3	34km S of Jarm, Afghanistan	2014-09-16 17:11:17 UTC-06:00	200.1 km
4.5	122km SW of Raoul Island, New Zealand	2014-09-16 16:56:45 UTC-06:00	213.6 km
4.0	156km NNW of Saumlaki, Indonesia	2014-09-16 16:40:25 UTC-06:00	123.3 km
3.3	1km SE of Medford, Oklahoma	2014-09-16 16:35:04 UTC-06:00	5.0 km
3.0	71km N of Brenas, Puerto Rico	2014-09-16 15:37:56 UTC-06:00	38.0 km
5.1	108km WNW of Hofn, Iceland	2014-09-16 15:34:15 UTC-06:00	5.0 km
3.0	5km NNE of Fajardo, Puerto Rico	2014-09-16 14:58:50 UTC-06:00	106.0 km
2.7	59km SW of Redoubt Volcano, Alaska	2014-09-16 14:53:53 UTC-06:00	144.4 km
2.6	68km ESE of Lakeview, Oregon	2014-09-16 14:34:53 UTC-06:00	0.0 km
2.7	3km S of Cobb, California	2014-09-16 14:23:31 UTC-06:00	2.2 km
4.7	108km WSW of Santa Genoveva de Docorodo, Colombia	2014-09-16 14:12:52 UTC-06:00	33.9 km
3.4	191km SE of Kodiak, Alaska	2014-09-16 14:10:59 UTC-06:00	20.7 km
3.7	91km N of Road Town, British Virgin Islands	2014-09-16 14:03:50 UTC-06:00	25.0 km
2.7	27km NNE of Curant, Nevada	2014-09-16 14:00:45 UTC-06:00	3.1 km
2.6	24km E of Cherokee, Oklahoma	2014-09-16 13:21:06 UTC-06:00	5.0 km
5.3	68km WSW of Kuril'sk, Russia	2014-09-16 12:39:43 UTC-06:00	21.1 km
4.4	71km ESE of San Felipe, Mexico	2014-09-16 10:51:14 UTC-06:00	14.1 km
5.1	73km SE of Punta de Burica, Panama	2014-09-16 10:49:35 UTC-06:00	41.6 km
4.3	120km E of Sarangani, Philippines	2014-09-16 09:51:51 UTC-06:00	75.7 km
4.2	76km NNE of Myitkyina, Burma	2014-09-16 09:34:04 UTC-06:00	37.2 km
2.9	24km SSW of Anchor Point, Alaska	2014-09-16 09:22:29 UTC-06:00	64.5 km

4.7	30km NW of Chitral, Pakistan	2014-09-17 00:18:28 UTC-06:00	91.3 km
6.7	45km NW of Piti Village, Guam	2014-09-17 00:14:46 UTC-06:00	136.7 km
5.6	59km E of Lakatoro, Vanuatu	2014-09-17 00:11:49 UTC-06:00	181.0 km



# Earthquakes

### Significant Earthquakes Past 30 Days

- 3.9** [3km W of American Canyon, California](#)  
2014-08-26 12:33:16 UTC 12.3 km deep
- 6.9** [43km ENE of Tambo, Peru](#)  
2014-08-24 23:21:45 UTC 101.0 km deep
- 6.0** [6km NW of American Canyon, California](#)  
2014-08-24 10:20:44 UTC 11.3 km deep
- 6.4** [18km WNW of Hacienda La Calera, Chile](#)  
2014-08-23 22:32:23 UTC 35.0 km deep
- 4.2** [7km SSW of Guthrie, Oklahoma](#)  
2014-08-19 12:41:35 UTC 3.5 km deep

### Today's Earthquake Fact

It is estimated that there are **500,000 detectable earthquakes** in the world each year. 100,000 of those can be felt, and 100 of them cause damage.

### Today in Earthquake History

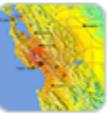


**September 15, 1976**  
M 6.3, 5.9, Italy – Aftershocks of the May 6, 1976 earthquake. These earthquakes occurred within 6 hours of each other. Eleven reported killed, some injured, and caused... [Read More](#)

### Magnitude 2.5+ Earthquakes Past Day

- 4.0** [6km S of Guthrie, Oklahoma](#)  
2014-09-15 20:08:03 UTC 4.4 km deep
- 3.5** [52km S of Redoubt Volcano, Alaska](#)  
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2014-09-15 18:59:21 UTC 42.0 km deep
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- 2.7** [77km ENE of Road Town, British Virgin...](#)  
2014-09-15 18:42:47 UTC 46.0 km deep
- 4.6** [284km N of Ndoi Island, Fiji](#)  
2014-09-15 15:52:36 UTC 626.6 km deep
- 4.5** [29km NW of Taupo, New Zealand](#)  
2014-09-15 14:49:10 UTC 194.0 km deep
- 4.3** [33km S of El Rosario, El Salvador](#)  
2014-09-15 14:23:51 UTC 80.3 km deep
- 3.3** [101km N of Road Town, British Virgin I...](#)

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## MY SETTINGS

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## Earthquake Archive Search & URL Builder

Search results are limited to 20,000 events.

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### Basic Search Options

#### DATE & TIME

Start (UTC)	End (UTC)
<input type="text" value="2014-09-10 00:00:00"/>	<input type="text" value="2014-09-17 23:59:59"/>

#### MAGNITUDE

Minimum	Maximum
<input type="text" value="6"/>	<input type="text"/>

#### GEOGRAPHIC REGION

Currently searching entire world

##### Rectangle

Decimal degree coordinates. North must be greater than South.  
East must be greater than West.

	North	
	<input type="text"/>	
West		East
<input type="text"/>		<input type="text"/>
	South	
	<input type="text"/>	

##### Circle

Center Latitude	Center Longitude
<input type="text"/>	<input type="text"/>
Inside Radius (km)	Outside Radius (km)
<input type="text"/>	<input type="text"/>

### Advanced Search Options

#### DEPTH (KM)

Minimum	Maximum
<input type="text"/>	<input type="text"/>

#### AZIMUTHAL GAP

Minimum	Maximum
<input type="text"/>	<input type="text"/>

#### REVIEW STATUS

- Any
- Automatic
- Reviewed

#### + EVENT TYPE

#### + IMPACT (PAGER, SHAKEMAP, DYFI)

#### + CATALOG

#### + CONTRIBUTOR

#### + PRODUCT TYPE

### Output Options

#### FORMAT

- Map & List
- CSV
- KML
- QuakeML
- GeoJSON

#### ORDER BY

- Time - Newest First
- Time - Oldest First
- Magnitude - Largest First
- Magnitude - Smallest First

#### LIMIT RESULTS

Number of Events	Offset
<input type="text"/>	<input type="text"/>

Output Format: Map & List

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- 2.7** [77km ENE of Road Town, British Virgin I...](#)  
2014-09-15 18:42:47 UTC 46.0 km deep
- 4.6** [284km N of Ndoi Island, Fiji](#)  
2014-09-15 15:52:36 UTC 626.6 km deep
- 4.5** [29km NW of Taupo, New Zealand](#)  
2014-09-15 14:49:10 UTC 194.0 km deep
- 4.3** [33km S of El Rosario, El Salvador](#)  
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- 3.3** [101km N of Road Town, British Virgin I...](#)

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Optimized for mobile and desktop.



##### [Info by Region](#)

By state or by country.



##### [Did You Feel It?](#)

Feel an earthquake? Report it here.



##### [Real-time Feeds & Notifications](#)

Get real-time earthquake notifications sent to you using a number of popular mediums: Feeds, Email, Twitter etc....



##### [US Seismicity Map](#)

Entire US and regional maps.



##### [ShakeMap](#)

Earthquake shaking maps and data.



##### [Search Earthquake Archives](#)

Online catalog search.



##### [World Seismicity Maps](#)

Entire world and regional maps.



##### [PAGER](#)

Estimates of earthquake impacts, monetary and human losses.

[Significant Earthquake Archive](#)

[Errata for Latest Earthquakes](#)

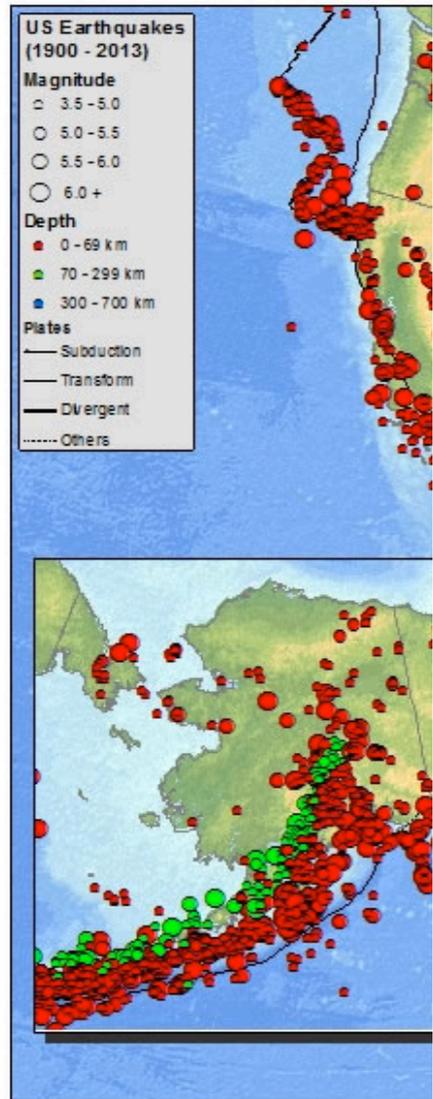


##### [Earthquake "Top 10" Lists & Maps](#)

Earthquake lists, maps, and statistics.

- Latest Earthquakes
- Real-time Feeds & Notifications
- Significant EQ Archive
- Search EQ Archives
- "Top 10" Lists & Map
- Info by Region

## Seismicity of the United States



Click on the map above or a link below

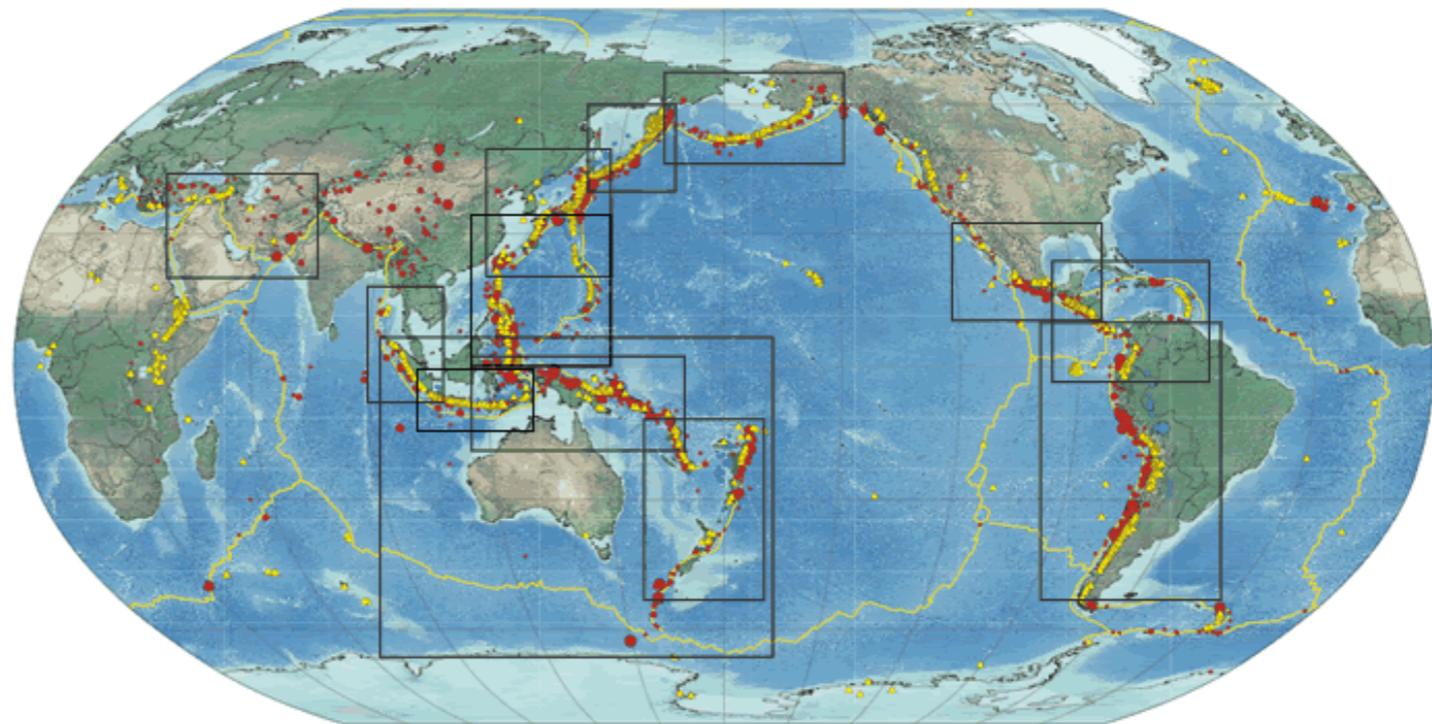
- [US seismicity map - M5.5+](#) (or download)
- [Western US seismicity](#) (or download)
- [Central US seismicity](#) (or download)
- [Eastern US seismicity](#) (or download)
- [Alaska seismicity map](#) (or download)
- [Puerto Rico seismicity map](#) (or download)
- [Hawaii seismicity map](#) (or download)

**Earthquakes represented are:**

- from USGS Centennial Catalog 1900 - 2000
- from USGS/NEIC (PDE) Catalog 1973 - Present
- from USGS Comprehensive Earthquake Catalog

- Latest Earthquakes
- Real-time Feeds & Notifications
- Significant EQ Archive
- Search EQ Archives
- "Top 10" Lists & Map
- Info by Region

## Seismicity of the Earth 1900-2012



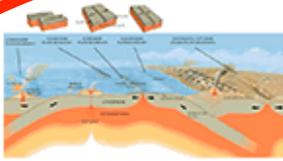
Click on an outlined area above or a link below to see the map and report for that area.

[Download full-sized worldwide seismicity map \[PDF - 21 MB\]](#)

### Seismicity of the Earth Open File Reports:

- [Seismicity of the Earth 1900–2007](#)
- [Seismicity of the Earth 1900–2010, Caribbean plate and vicinity](#)
- [Seismicity of the Earth 1900–2010, Aleutian arc and vicinity](#)
- [Seismicity of the Earth 1900–2007, Kuril-Kamchatka arc and vicinity](#)
- [Seismicity of the Earth 1900–2007, Japan and vicinity](#)
- [Seismicity of the Earth 1900–2007, Nazca plate and South America](#)
- [Seismicity of the Earth 1900–2010, Mexico and vicinity](#)
- [Seismicity of the Earth 1900–2010, Australia Plate and Vicinity](#)
- [Seismicity of the Earth 1900–2010, New Guinea and Vicinity](#)
- [Seismicity of the Earth 1900–2010, Eastern Margin of the Australia Plate](#)
- [Seismicity of the Earth 1900–2010, Middle East and Vicinity](#)
- [Seismicity of the Earth 1900–2012, Sumatra and vicinity](#)
- [Seismicity of the Earth 1900–2012, Philippine Sea Plate and Vicinity](#)
- [Seismicity of the Earth 1900–2012, Java and Vicinity](#)

## Learn



### [Earthquake Topics for Education](#)

Information on a variety of earthquake topics, educational resources. Browse or search by grade and/or earthquake topic.

## Q&A

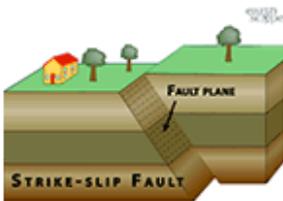
### [FAQ](#)

Frequently Asked Questions about earthquakes and earthquake hazards.

## earthquake

### [Earthquake Glossary](#)

200+ earthquake terms and their definitions, each with an image.



### [For Kids](#)

Fun and educational resources including Science Fair ideas, online games, photos, earthquake science and scientists.



### [Prepare](#)

Learn what you can do to prepare for an earthquake... before, during, and after.



### [Google Earth/KML Files](#)

Downloadable layers for display in Google Earth™.



### [Earthquake Summary Posters](#)

Epicentral area, plate tectonic environment, earthquake history, and generalized seismic hazard of the region.

## Photos



### [Earthquake Photo Collections](#)

[Earthquake Photos in the USGS Multimedia Gallery](#)

[Natural Hazards Photos in USGS Gallery](#)

[Non-USGS Earthquake Photo Collection](#)

## Videos

[USGS Multimedia Gallery Earthquake Videos](#)

[USGS Multimedia Gallery Natural Hazards Videos](#)

## Publications



Earthquake and fault related [USGS publications](#).

- [Fact Sheets](#)
- [General Information](#)
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## Earthquake Topics for Education

### Browse Earthquake Topics

[Earthquake Topics in Alphabetical Order](#)

### Popular Learning Links

- [Earthquake Photo Collections](#)
- EQ101 Presentation - [PowerPoint Zip file \(6.5MB\)](#) or [PDF](#)
- [Animations for Earthquake Terms & Concepts](#)
- [This Dynamic Earth: The Story of Plate Tectonics](#) - excellent comprehensive overview of plate tectonics with excellent graphics, online USGS general interest publication.
- [This Dynamic Planet](#) - World Map of Volcanoes, Earthquakes, Impact Craters, and Plate Tectonics.
- [USGS Education Web Site](#)
- [USGS Store - Publications and Products](#)
- [USGS Earthquake Maps & Publications \(USGS Publications Warehouse\)](#)
- [National Atlas Maps](#)
- [Earthquakes For Kids](#)
- [Earthquake Science Explained](#) - A series of short articles for students, teachers, and parents originally published as weekly features in The San Francisco Chronicle.
- [A Comparison of Two Bay Area Earthquakes: 1989 v. 1906](#)
- [Listening to Earthquakes](#)
- [The Science of Earthquakes](#) - the basics in brief
- [How much bigger is a magnitude 8.7 earthquake than a magnitude 5.8 earthquake?](#) - interactive calculator
- [Other Earthquake Websites](#)

### Search Learning Links

Topic:

Content Type:

Level:

Region:

Search

### Students

Educational resources for learning more about earthquakes.

Choose a level or [view all levels](#):

- [Elementary school](#)
- [Middle school](#)
- [High school](#)
- [College](#)

### Teachers

Educational Resources for teaching the science of earthquakes.

We've reviewed and collected this database of educational web sites related to earthquakes and plate tectonics. You'll find lesson plans, interactive web sites, learning activities, and more.

You're welcome to use any images you'd like from our web site for educational purposes. A credit to "U.S. Geological Survey" and to the author, if identified, is all that is required. The official language for this can be found at [USGS Policies & Notices](#).

### View Learning Links

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## Browse Earthquake Topics – Tsunamis

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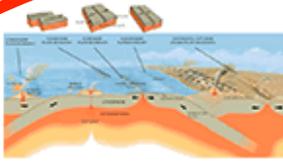
[Search Topics](#)

[« Back to Topics](#)

- [1906 San Francisco Earthquake and Fire Visualizations](#) – This collection presents links to images, films, panoramas and animations about the earthquake and fire. (Carleton College/NAGT materials)
- [Can It Happen Here?](#) – Could a large damaging tsunami happen in the United States? (USGS)
- [Coastal and Marine Geology Program](#) – All 35 coastal States and the island territories experience coastal erosion. Balancing the competing needs of citizens, government, industry, and the environment. (USGS)
- [DisasterAssistance.gov-Tsunami](#) – Resource for tsunami response. (FEMA)
- [Earth Sciences Lesson Plans](#) – not really earthquakes, but great lesson plans for K-12 (NESEN - Lessons for Earth Systems Education)
- [Earthquake and Tsunami Preparedness](#) – Focus on Seaside, OR, but useful for anyone within a tsunami risk zone. (City of Seaside, Oregon)
- [Earthquake Visualizations](#) – Animations showing seismograph operation, tsunami, P and S Waves, earthquake focus versus epicenter, and actual footage of an earthquake. (Carleton College/NAGT materials)
- [Earthquakes by Bruce A. Bolt Online Companion](#) – links related to subjects covered in book (W.H. Freeman & Co.)
- [Earthquakes: Seismic Destruction](#) – links to photos of earthquake effects and tsunami effects (National Geographic)
- [EarthScope Resources for Students & Teachers](#) – Animations, online lectures, visualizations and more, mostly from IRIS. (EarthScope)
- [Hilo Tsunami Museum](#) – The goal of the Pacific Tsunami Museum is to promote public tsunami education for the people of Hawaii and the Pacific Region. The museum will also preserve the social and cultural history of Hawaii and promote economic development on the island of Hawaii as well as statewide. The museum will serve as a living memorial to those who lost their lives in past tsunami events. (Pacific Tsunami Museum)
- [International Tsunami Information Centre](#) – General and technical information, maps, and links to warning centers. (ITIC)
- [Living On Shaky Ground: How to Survive Earthquakes and Tsunamis in Northern California](#) – A collection of preparedness guides for earthquakes and tsunamis especially for the Northern Coast of California (Humboldt State Univ, Dept of Geology)
- [National Geophysical Data Center Tsunami Database](#) – Compilation of a unique set of tsunami-related products. (NOAA)
- [National Tsunami Warning Center](#) – Tsunami monitoring. (NOAA)
- [NGDC - Natural Hazards Databases at NGDC](#) – Data, images, kids quizzes, and maps from geologic hazards as well as slide shows available for order (National Geophysical Data Center)



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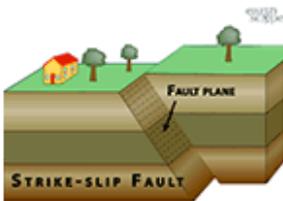
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# USGS FAQs

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## Earthquakes

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[Earthquakes Induced by Fluid Injection](#)

[Seismic Hazards -- Maps, Probabilities, and EQ Engineering](#)

[Nuclear Explosions & Seismology](#)

[Global Vs30 Map Server](#)

## Popular Media



2013 USGS Releases Latest Bakken Oil and Gas Assessment - On April 30, 2013, USGS released an updated assessment of the Bakken Formation of North Dakota and Montana as part of the National Oil and Gas Assessment. We are joined by USGS Energy Resources Program Coordinator Brenda Pierce and Bakken Assessment Lead Stephanie Gaswirth to learn more about the assessment itself; why it was performed; and some context for the Bakken Formation.

[MORE ▶](#)



# Earthquake Hazards Program

## Mobile



Menu

### M6.0 - 6km NW of American Canyon, California

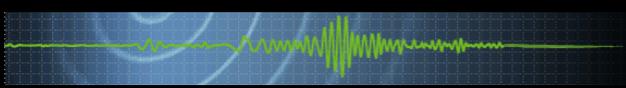
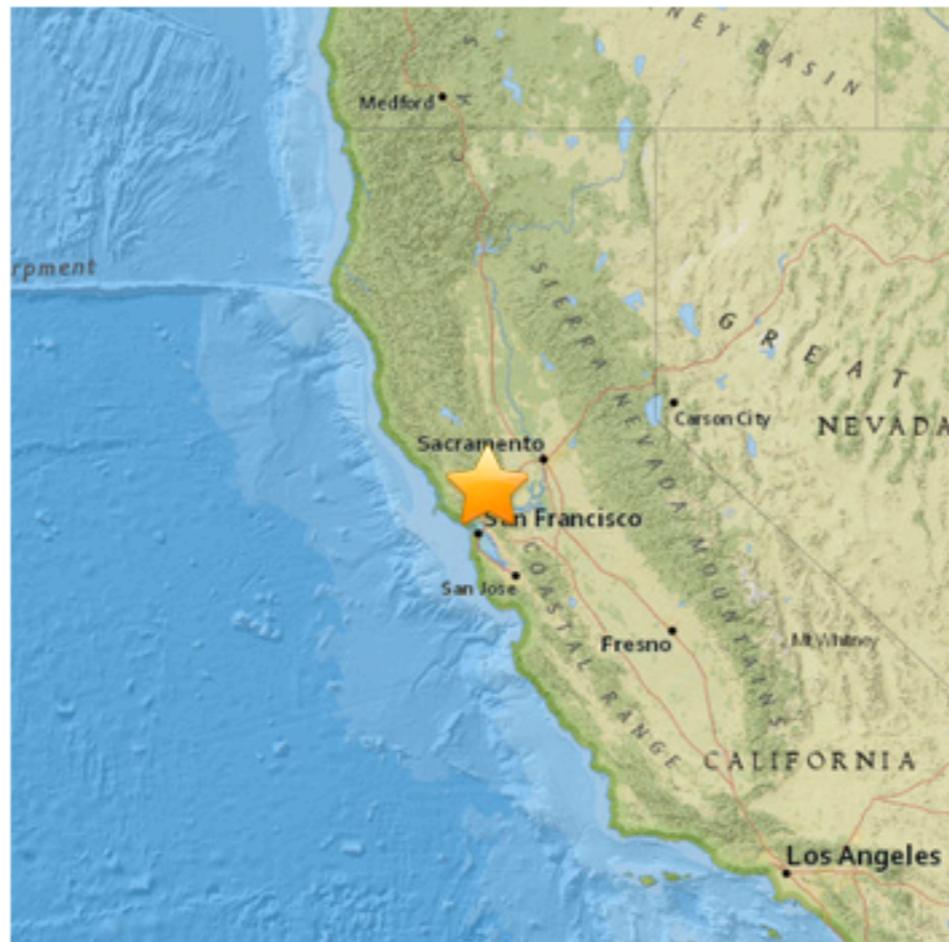
VIII  
DYFI?

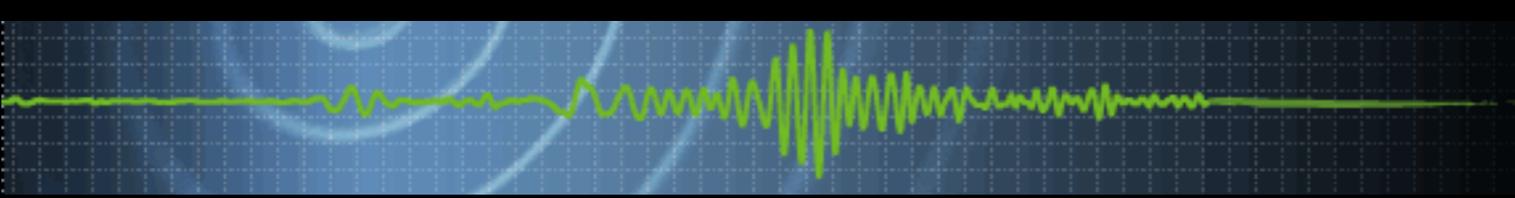
IX  
ShakeMap

RED  
PAGER



#### General - Summary





**1 Day, Magnitude 2.5+ Worldwide**

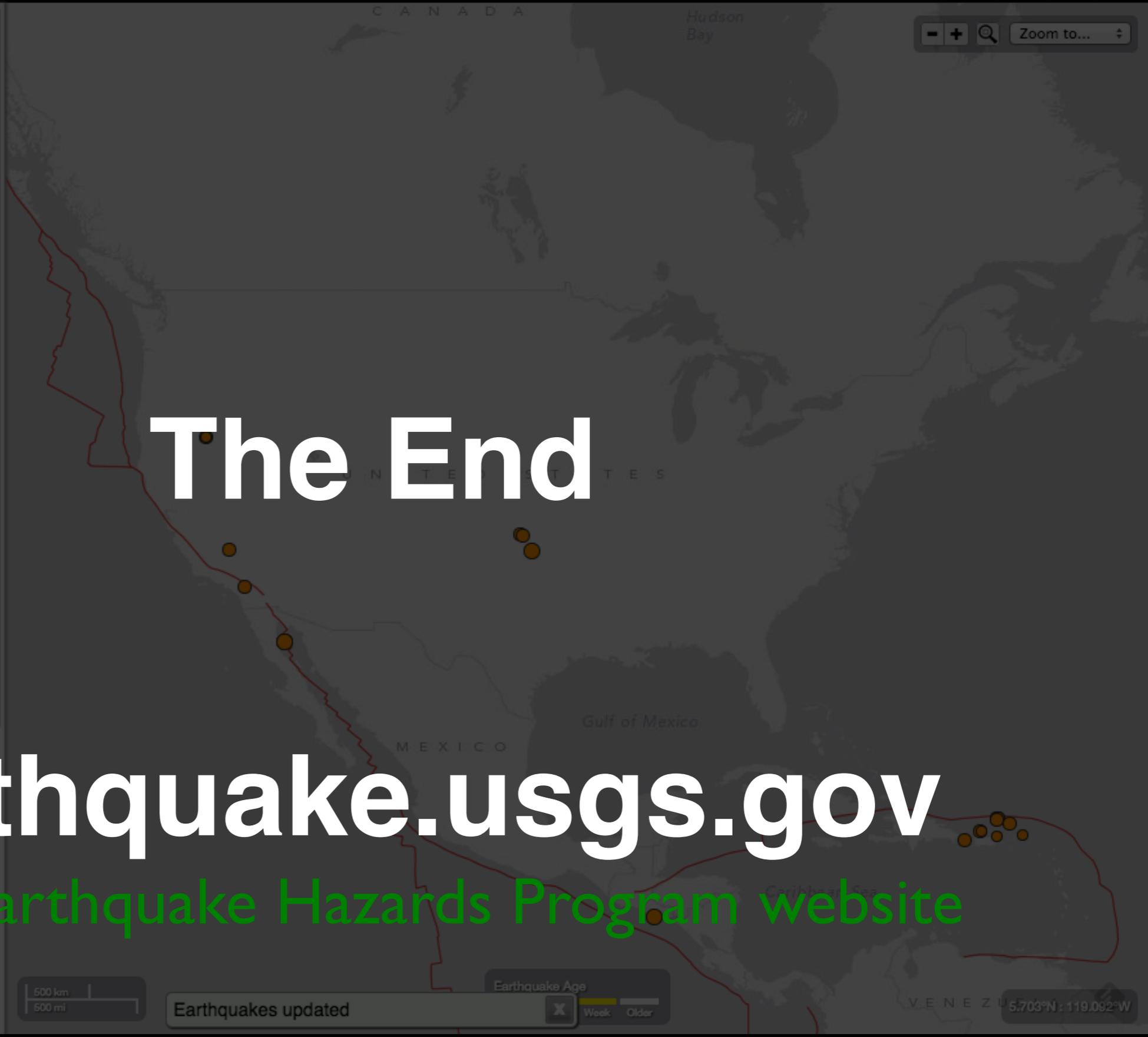
40 earthquakes - [Download](#)

Updated: 2014-09-15 15:11:45 UTC-06:00

Showing event times using Local System Time (UTC-06:00)

23 earthquakes in map area

4.0	6km S of Guthrie, Oklahoma	2014-09-15 14:08:03 UTC-06:00	4.4 km
2.9	38km NNE of Hatillo, Puerto Rico	2014-09-15 12:59:21 UTC-06:00	42.0 km
3.0	40km N of Hatillo, Puerto Rico	2014-09-15 12:46:26 UTC-06:00	42.0 km
2.7	77km ENE of Road Town, British Virgin Isl...	2014-09-15 12:42:47 UTC-06:00	46.0 km
4.3	33km S of El Rosario, El Salvador	2014-09-15 08:23:51 UTC-06:00	80.3 km
3.3	101km N of Road Town, British Virgin Islands	2014-09-15 08:21:07 UTC-06:00	28.0 km
3.1	27km NNW of Enid, Oklahoma	2014-09-15 07:27:40 UTC-06:00	4.0 km
2.9	68km ESE of Lakeview, Oregon	2014-09-15 07:16:01 UTC-06:00	0.0 km
4.9	74km SE of San Felipe, Mexico	2014-09-15 06:23:43 UTC-06:00	10.0 km
3.4	131km N of Vieques, Puerto Rico	2014-09-15 05:23:22 UTC-06:00	13.0 km
2.5	9km NNE of Luquillo, Puerto Rico	2014-09-15 04:53:04 UTC-06:00	101.0 km
3.2	68km SE of Punta Cana, Dominican Republic	2014-09-15 04:40:02 UTC-06:00	108.0 km
3.1	16km E of Cherokee, Oklahoma	2014-09-15 03:21:23 UTC-06:00	0.0 km
4.7	73km SE of San Felipe, Mexico	2014-09-15 00:50:09 UTC-06:00	10.0 km
2.6	74km SE of Lakeview, Oregon	2014-09-15 00:21:26 UTC-06:00	0.4 km
3.6	137km NNE of Vieques, Puerto Rico	2014-09-15 00:09:37 UTC-06:00	41.0 km
3.5	68km ESE of Lakeview, Oregon	2014-09-14 22:20:35 UTC-06:00	1.3 km
	68km ESE of Lakeview, Oregon		



The End

earthquake.usgs.gov

USGS Earthquake Hazards Program website

Earthquakes updated

Earthquake Age  
Week Older

VENEZUELA 5,703°N : 119,082°W