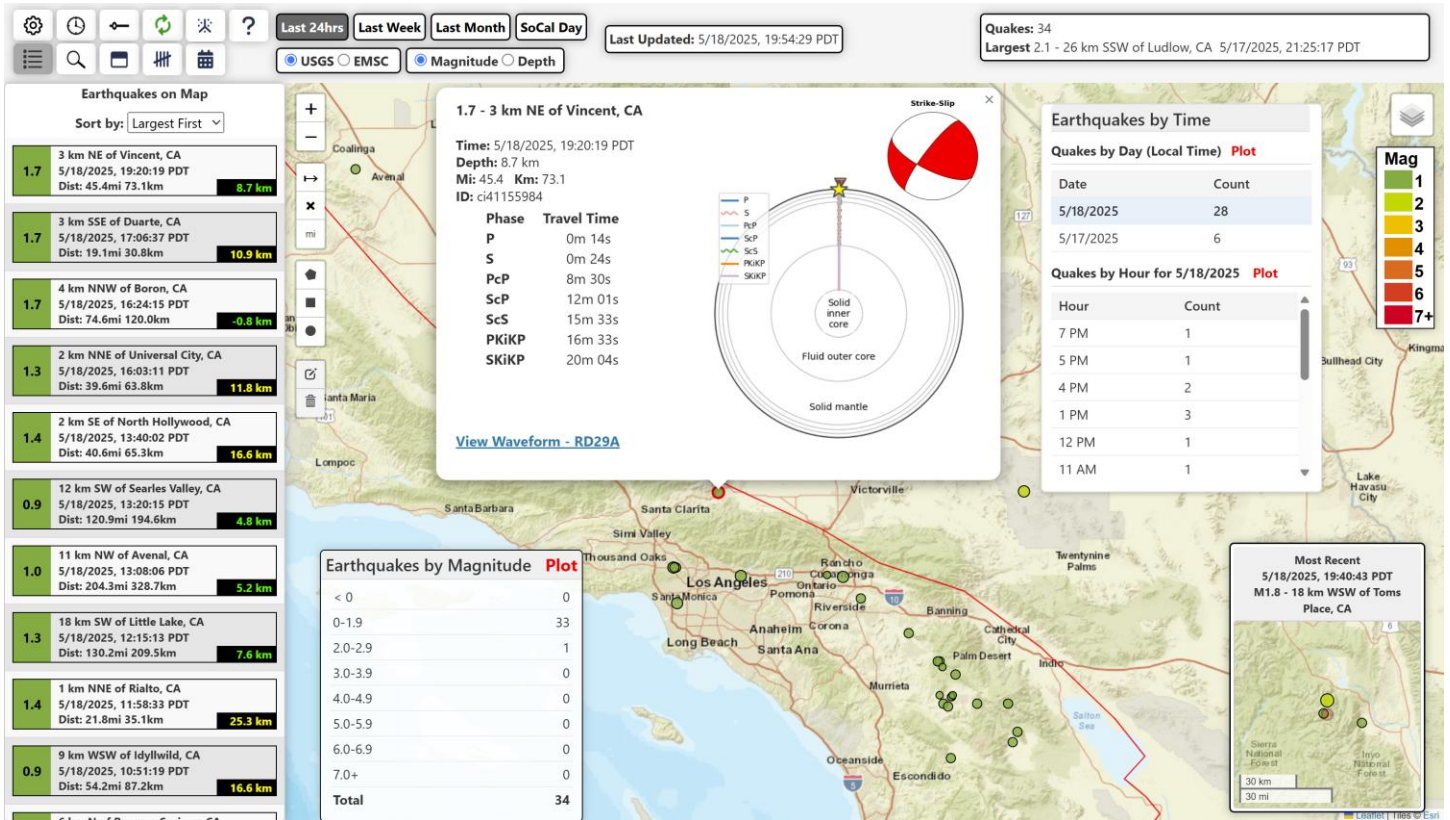
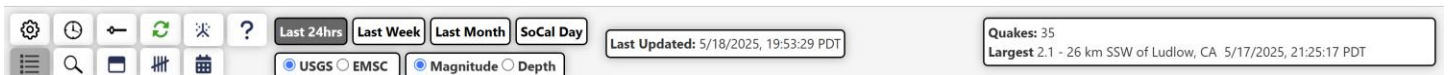


Quake Map Guide



Top Bar

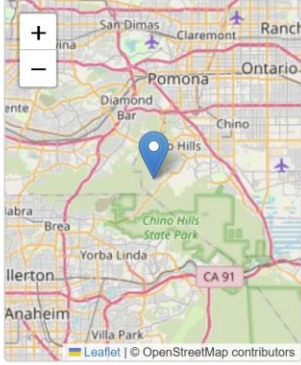


Last 24hrs Last Week Last Month SoCal Day	Select between the last 24 hours, week, or 30 days. SoCal displays earthquakes since midnight in the SoCal area
☒ USGS ☐ EMSC	Toggles between USGS and EMSC data for the current time period selected
☒ Magnitude ☐ Depth	Toggles between magnitude and depth
⚙️	Opens the settings panel
🕒	Toggles between Local and UTC time
🔑	Hides and shows the time slider. This will show and hide quakes based on the time of the quake and the current time selected on the slider.
⏸️ 🔄	Enables and disables the auto refresh. - Red paused indicator when disabled - Green rotating arrows when enabled

		Auto refresh is automatically disabled if a search is run. This is done so the auto refresh does not clear out the search results
		Opens the search panel for custom data selection
		Hides and shows the Most Recent Earthquake inset map (Inset map can be dragged/moved)
		Hides and shows the earthquake list
		Hides and shows the Earthquakes by Magnitude panel (Panel can be dragged/moved) Clicking Plot will create a plot of the displayed data
		Hides and shows the Earthquakes by Time Panel. Shows daily earthquake counts and the earthquakes per hour a selected day (Panel can be dragged/moved) Clicking Plot will plot the displayed data
		Opens the 3D view of Earthquake Location vs Depth
		Link to this guide
	Last Updated: 4/19/2025, 20:24:58 PDT	Shows the last time the data was updated when using auto refresh
	Slider Time 4/19/2025, 19:46:59 PDT	When using the slider, indicates the time for the current position of the slider
	Quakes: 67 Largest 3.1 - 16 km WSW of Johannesburg, CA 4/19/2025, 00:44:07 PDT	Displays the number of quakes and the largest quake shown on the map

Settings

Home Location



Click on the map or drag the marker to set your home location.

Latitude:

Longitude:

Display Options

Update Time - Min:

☐ **Center quakes around the (0°) meridian**

When enabled, the map will center quakes around the prime meridian (0°).
Disabled the antimeridian (180°)

Station Configuration

Shake ID:

Home Location: This location will be used to compute wave travel times and quake distances.

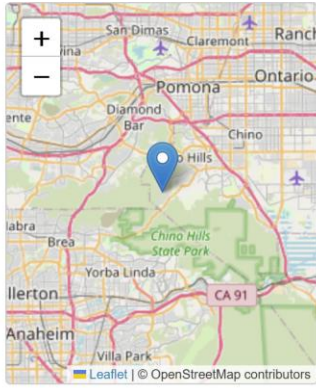
Update Time: The time between refreshes when auto refresh is enabled.

Center quakes around the (0 degree) meridian. Centers the quakes around 0 or 180 longitudes.

Shake ID: RaspberryShake station used for the View Waveform function

- Enter a RaspberryShake Station ID and click verify. Verify check to see if the station is in the list of RS stations. Click 'Use This Station' after is verified. Click 'Save Settings' to save verified station information.

Home Location



Click on the map or drag the marker to set your home location.

Latitude:

33.96

Longitude:

-117.78

Display Options



Update Time - Min:

5

☐ **Center quakes around the (0°) meridian**

When enabled, the map will center quakes around the prime meridian (0°).
Disabled the antimeridian (180°)

Station Configuration

Shake ID:

RD29A

Verify

✓ **Valid station ID**

Station: RD29A

Latitude: 33.9...

Longitude: -117.6...

Creation Date: 10/16/2017
06:07 PM

Use this station

Save Settings

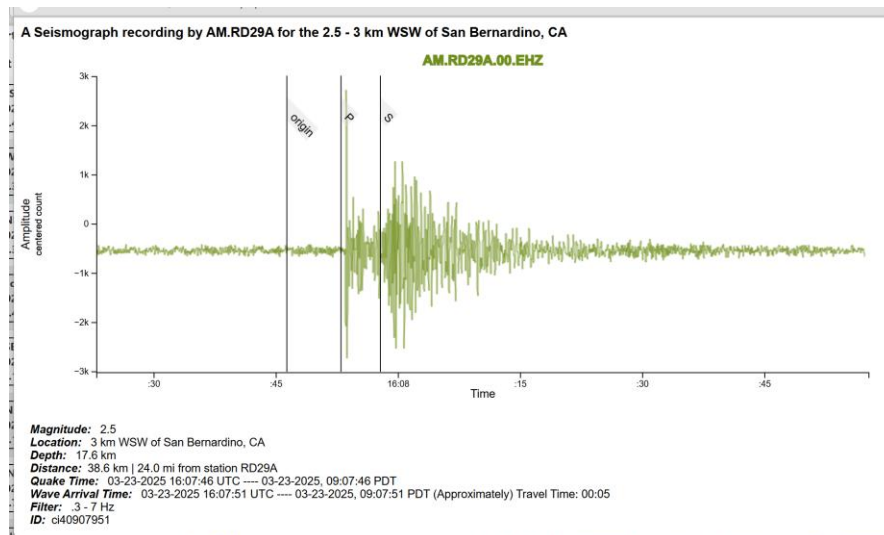
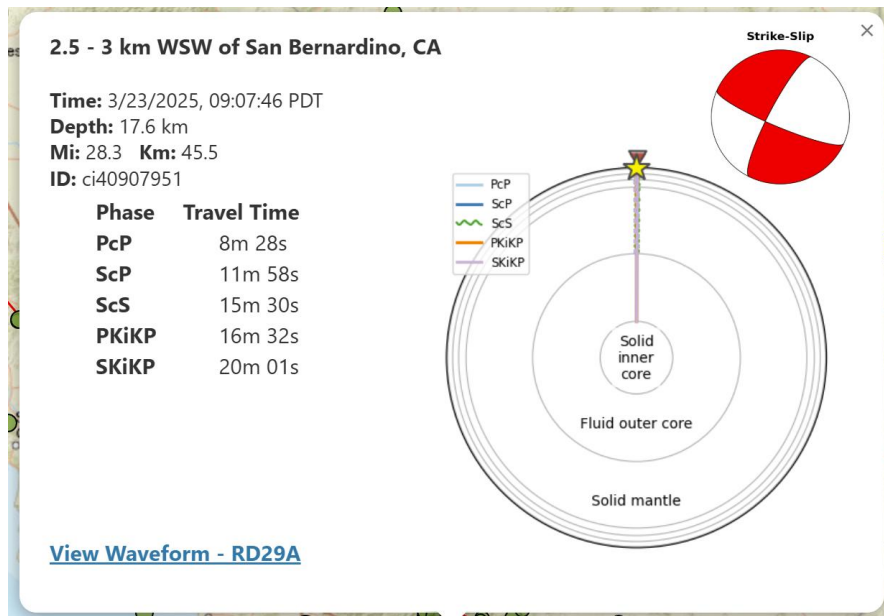
Clicking on a Quake Marker

Clicking on a map earthquake marker opens a popup with information and approximate wave arrival times to the map's Home Location

A globe with the waves paths through the earth is shown

If focal mechanism data is available, a beachball diagram is created

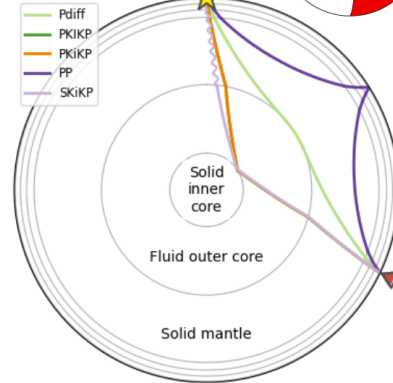
Clicking on 'View Waveform' opens a waveform viewer page. This page will show the waveform captured by the RaspberryShake station entered in settings. Note: If looking for a recent quake, RaspberryShake data is delayed by 30 minutes.



7.7 - 2025 Mandalay, Burma (Myanmar) Earthquake

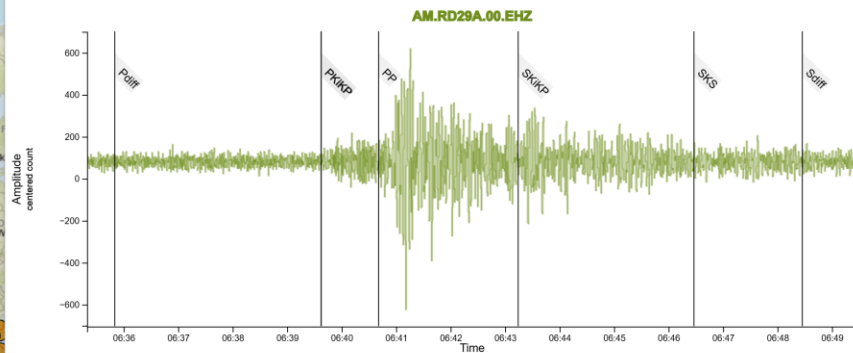
Time: 3/27/2025, 23:20:52 PDT
Depth: 10.0 km
Mi: 7,980.2 **Km:** 12,842.8
ID: us7000pn9s

Phase	Travel Time
Pdiff	14m 54s
PKIKP	18m 42s
PKiKP	18m 42s
PP	19m 44s
SKiKP	22m 18s



[View Waveform - RD29A](#)

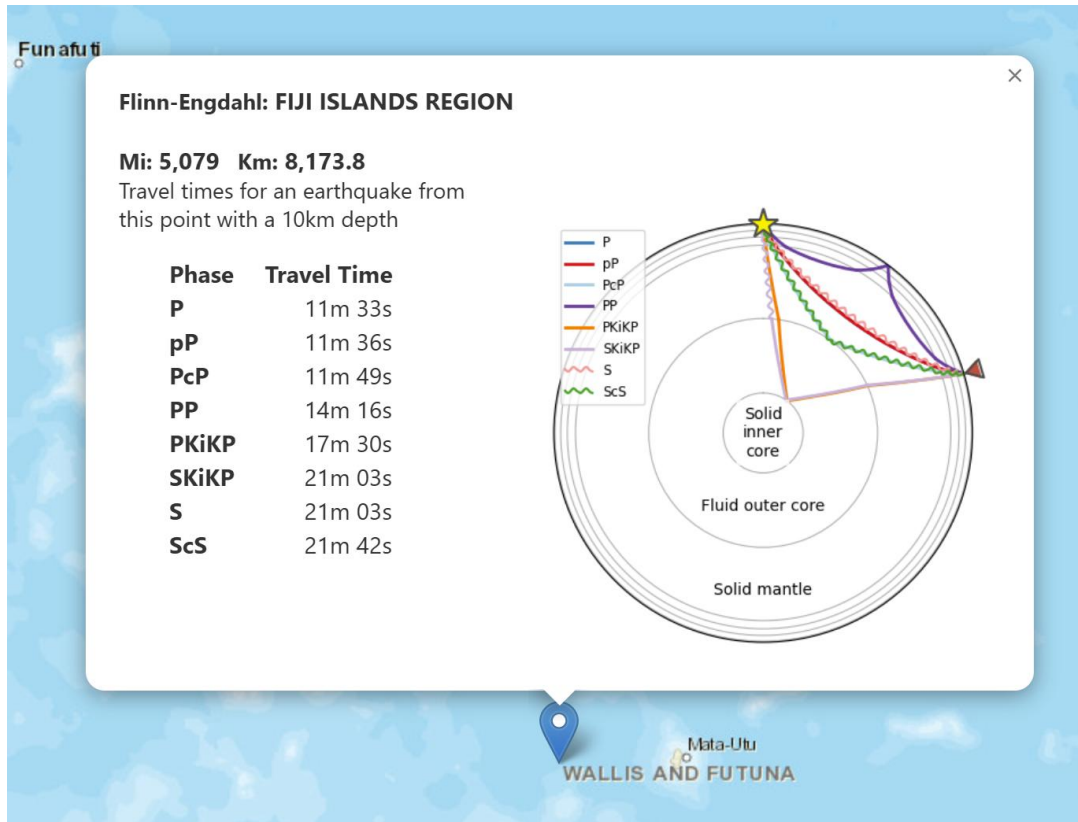
A Seismograph recording by AM.RD29A for the 7.7 - 2025 Mandalay, Burma (Myanmar) Earthquake



Magnitude: 7.7
Location: 2025 Mandalay, Burma (Myanmar) Earthquake
Depth: 10 km
Distance: 12,863.4 km | 7,992.9 mi from station RD29A
Quake Time: 03-28-2025 06:20:52 UTC — 03-27-2025, 23:20:52 PDT
Wave Arrival Time: 03-28-2025 06:35:48 UTC — 03-27-2025, 23:35:48 PDT (Approximately) Travel Time: 14:57
Filter: .3 - 1.5 Hz
ID: us7000pn9s

Double Clicking on the Map

Double clicking on the map creates a marker and opens a popup showing the approximate travel times and waveform paths from this location to the map's home location



Layers



Use the Layer Control to view layers of data on the map

Map

- Select a Map tile to view data on. Only one map tile layer can be selected at a time

Data

- Earthquakes
- Plate Boundaries
- CFM Faults Trace (Community Fault Model faults with surface traces)
- CFM Faults Blind (Community Fault Model faults without surface traces)
- GEM Faults (The GEM Foundation's Global Active Faults)
- U.S. Quaternary Faults

Any combination of data layers can be turned on or off

- ☒ WSM
- ☐ OpenStreetMap.HOT
- ☐ Esri_WorldImagery
- ☐ Dark

- ☒ Earthquakes
- ☒ Plate Boundaries
- ☐ CFM Faults Trace
- ☐ CFM Faults Blind
- ☐ GEM Faults
- ☐ U.S. Quaternary Faults

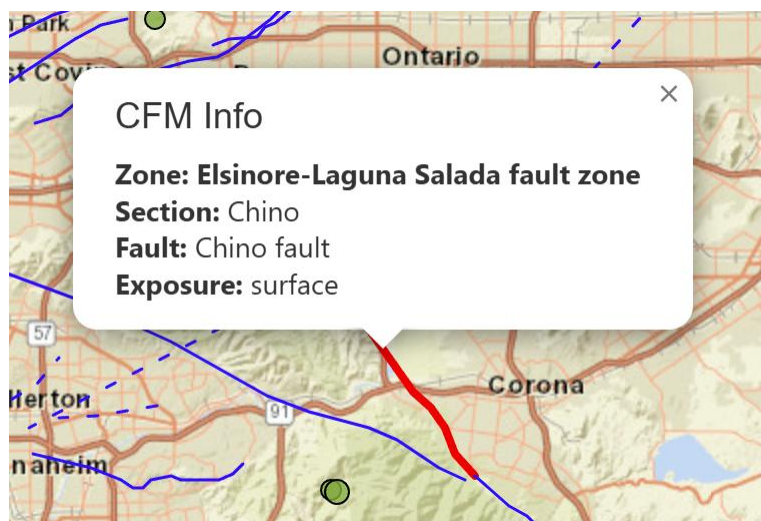
Highlighting and then clicking on a fault will open a popup with information on the fault.

Information in the popup varies based on the fault selected and data source for the fault layer

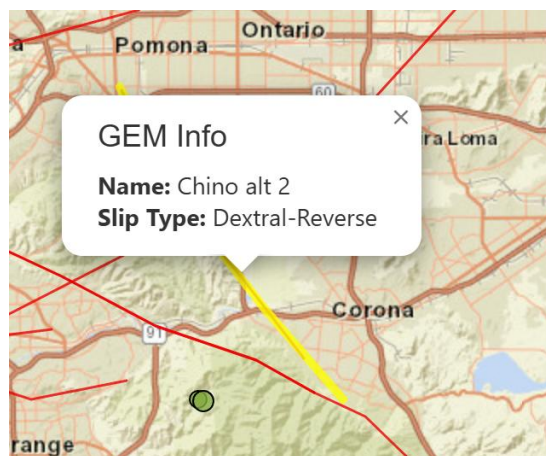
Info for fault data sources:
 CFM: <https://central.scec.org/research/cfm-explorer/>
 GEM <https://github.com/GEMScienceTools/gem-global-active-faults>
 U.S. Quaternary:
<https://usgs.maps.arcgis.com/apps/webappviewer/index.html?id=5a6038b3a1684561a9b0aadf88412fcf>

Examples of Fault Info Popups

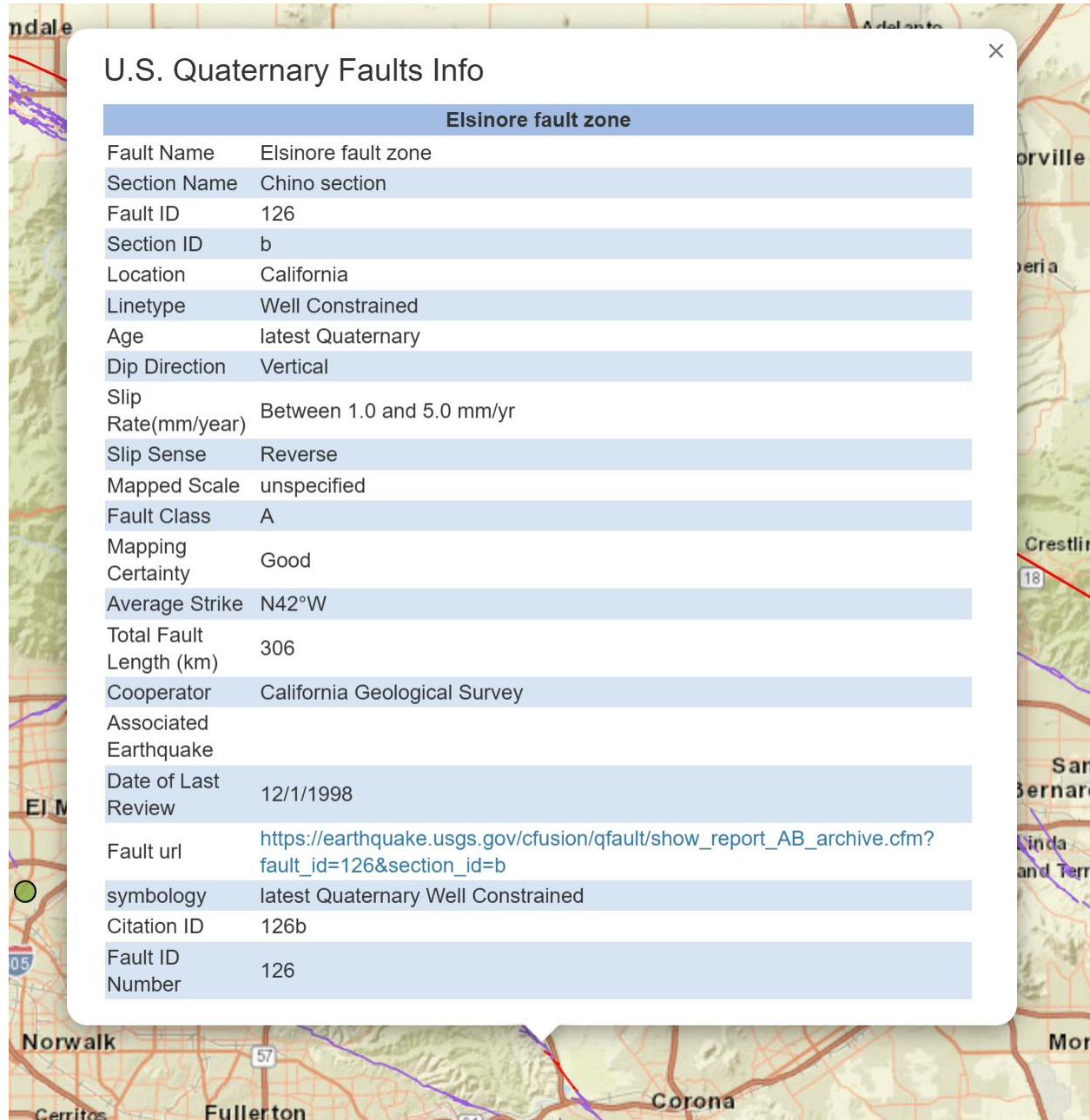
CFM



GEM

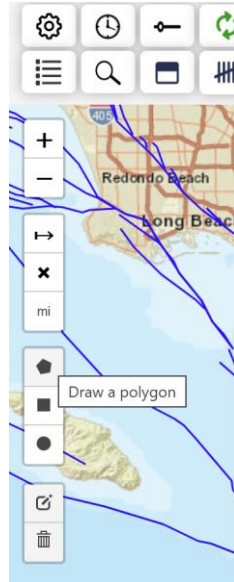


U.S. Quaternary

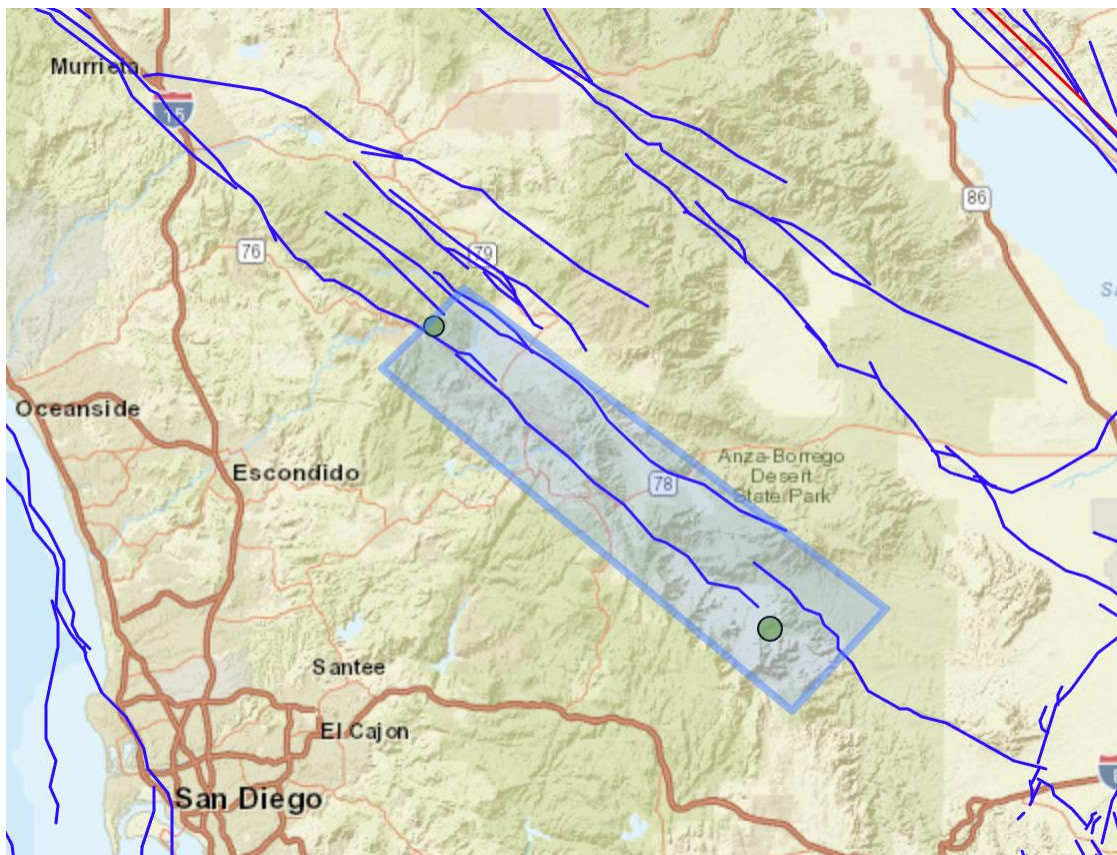


Searching with Shapes

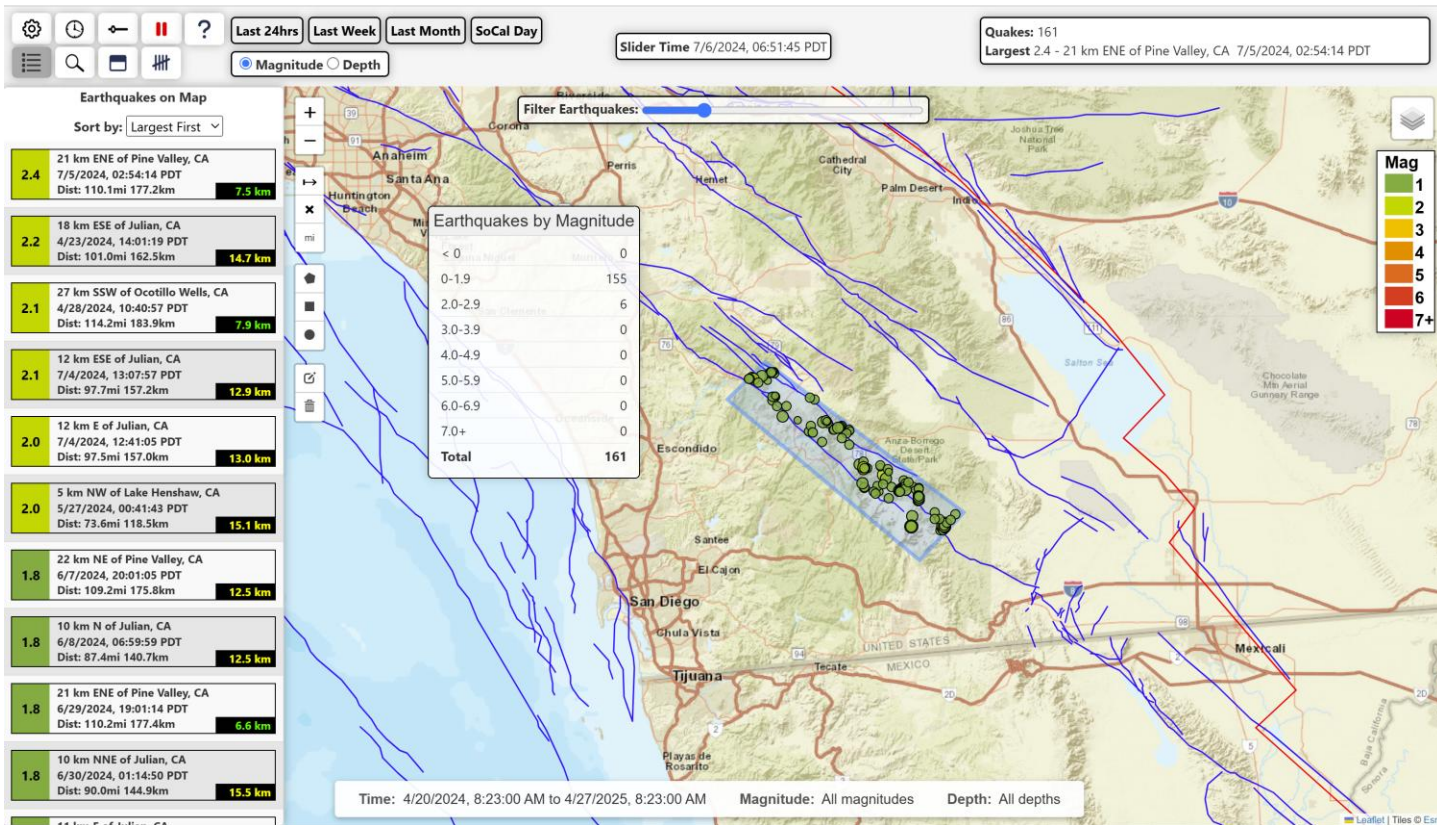
The draw tool can be used to draw a square, circle, or polygon to be used in a search. Only one shape can be used at a time when searching



Draw the desired shape on the map



Select the search parameters. Both the USGS and EMSC limit the amount of quakes found to 20,000. You will have to narrow your search if this limit is exceeded.



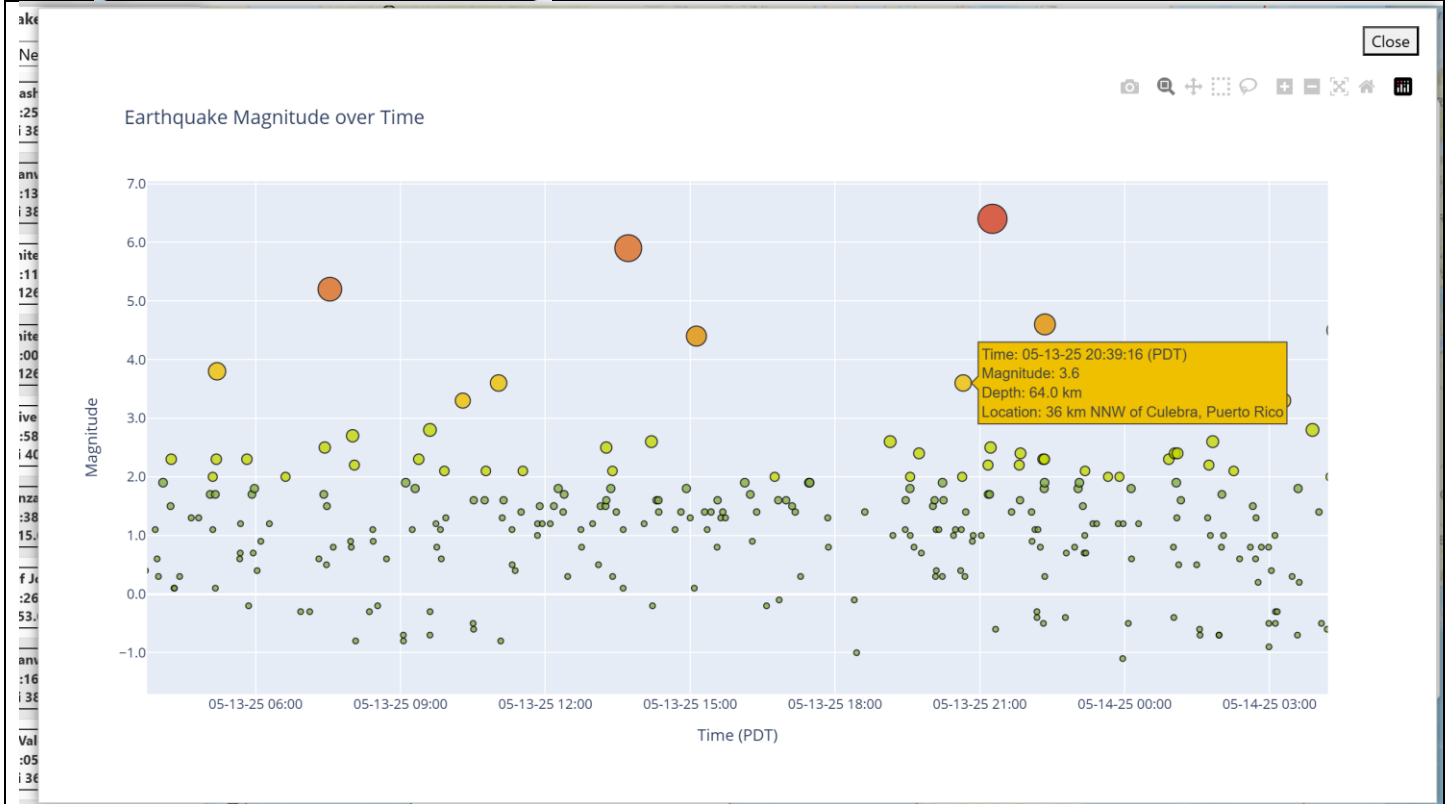
Plots

Earthquakes by Magnitude

Earthquakes by Magnitude	Plot
< 0	0
0-1.9	34
2.0-2.9	1
3.0-3.9	0
4.0-4.9	0
5.0-5.9	0
6.0-6.9	0
7.0+	0
Total	35

Open the Earthquakes by Magnitude panel

- Click on Plot to view the data
- The Plot can be zoomed and panned
- Hovering over an earthquake displays basic earthquake information



Earthquakes by Time

Quakes by Day (Local Time) [Plot](#)

Date	Count
5/18/2025	29
5/17/2025	6

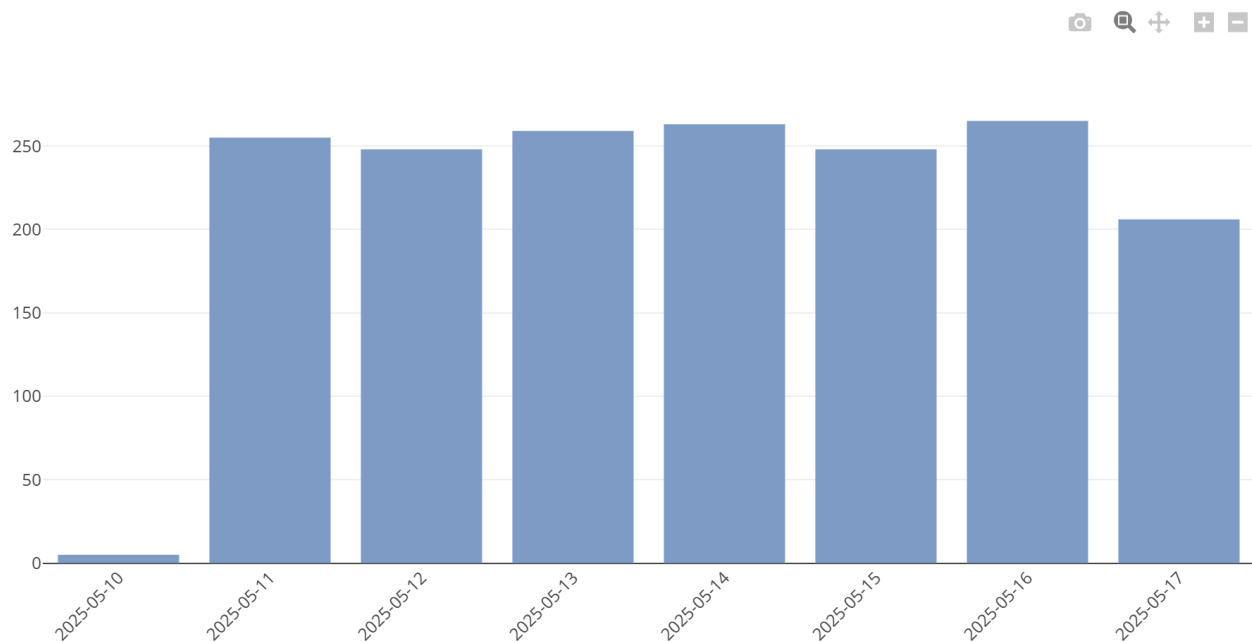
Quakes by Hour for 5/18/2025 [Plot](#)

Hour	Count
7 PM	1
5 PM	1
4 PM	2
1 PM	3
12 PM	1
11 AM	1

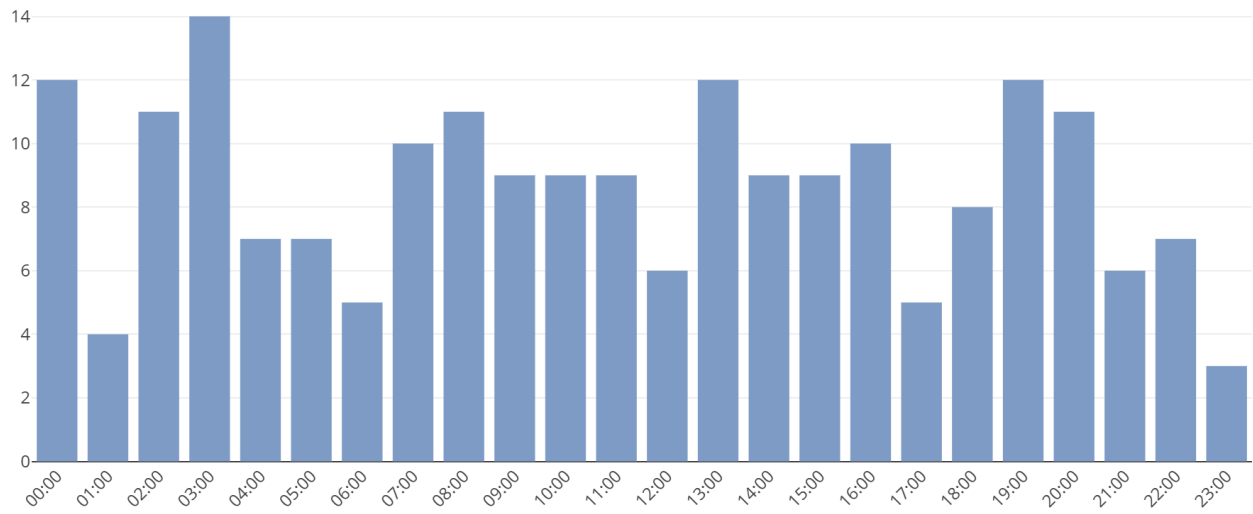
Open the Earthquakes by Time Panel

- Click on the **Plot** link next to Quakes by Day to view a plot of the quakes by day
- Click on the **Plot** link next to Quakes by Day for the selected date to view a plot of the quakes per hour.
- The plots can be panned and zoomed

Earthquakes per Day



Earthquakes by Hour for 2025-05-17



5.0-5.9

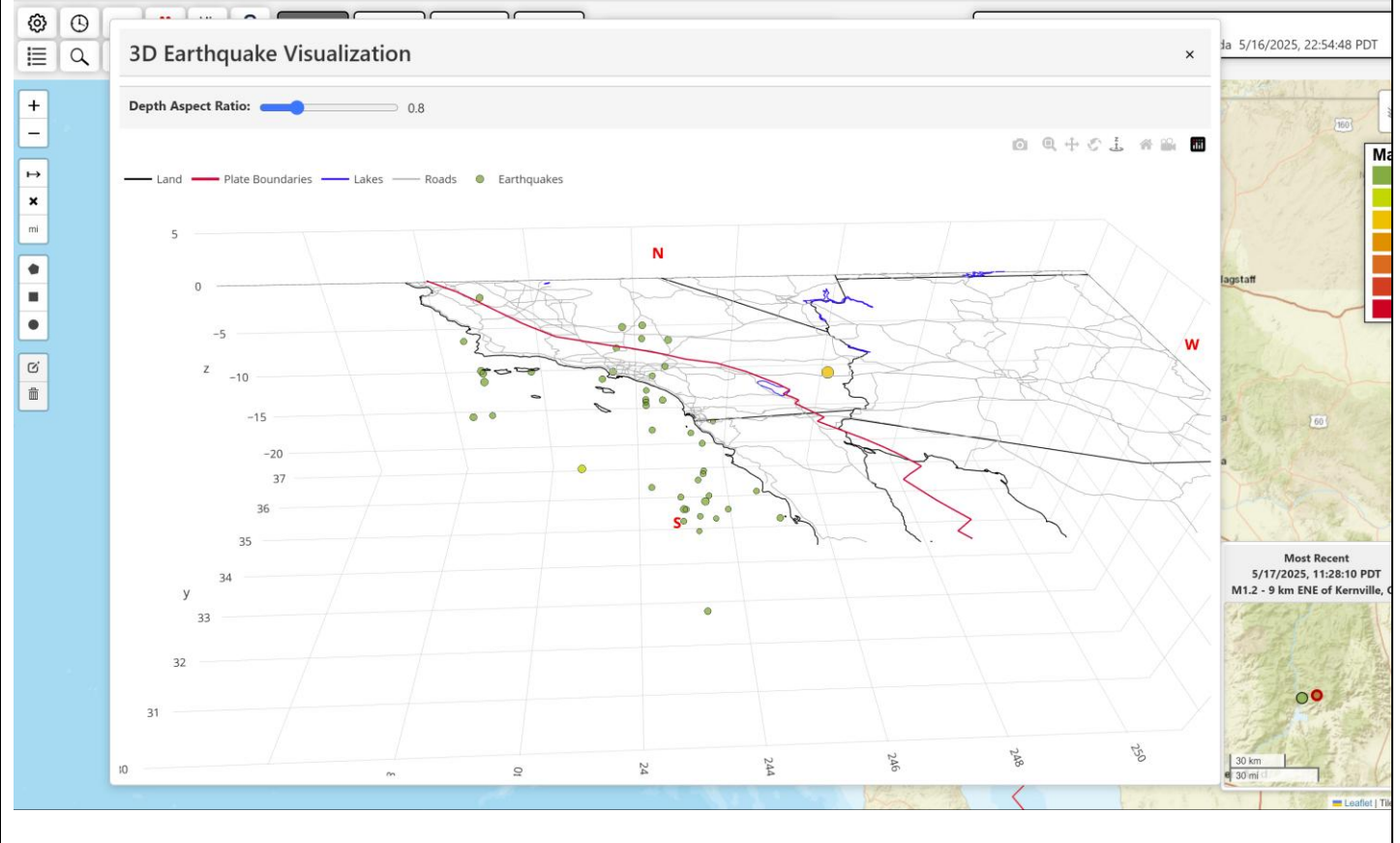
7

3D Earthquakes vs Depth



Clicking the 3D Scatter Plot icon opens the 3D Earthquakes vs Depth Plot

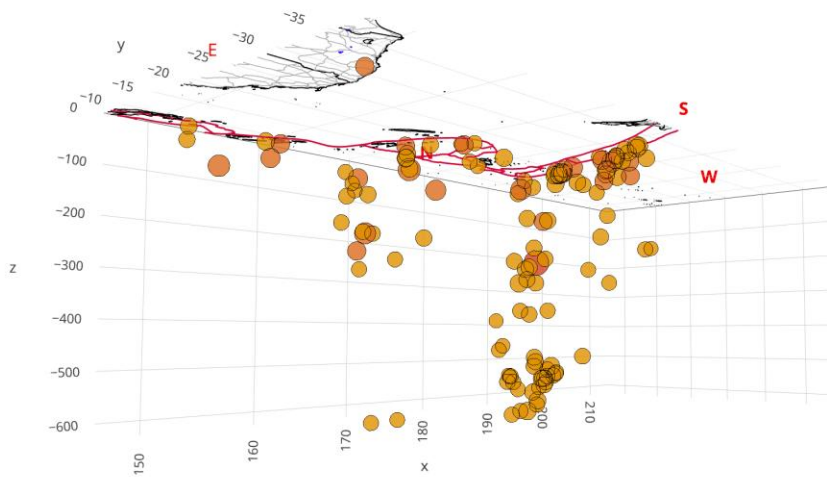
- Plots can be rotated, panned, and zoomed
- Hovering over an earthquake will display basic earthquake information
- The Depth Aspect Ratio slider expands and contracts the spread of the depth dimension.



3D Earthquake Visualization

Z Aspect Ratio: 0.8

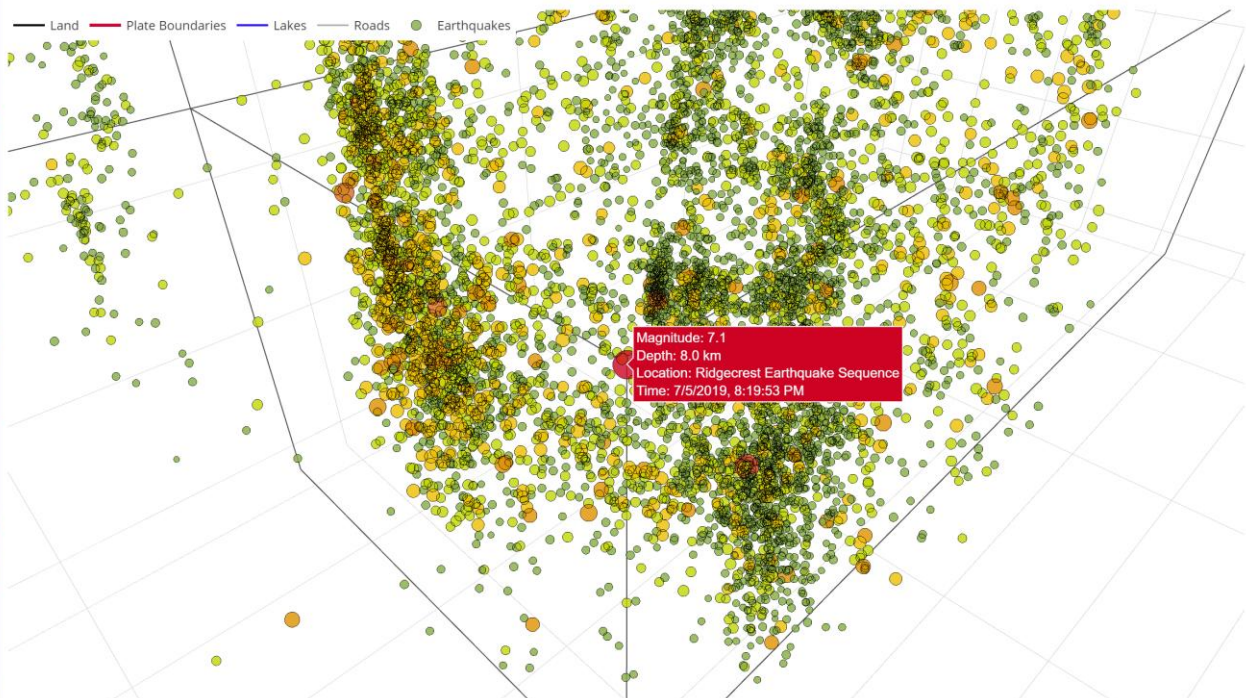
Land Plate Boundaries Lakes Roads Earthquakes



3D Earthquake Visualization

Depth Aspect Ratio: 0.8

Land Plate Boundaries Lakes Roads Earthquakes



Source: USGS

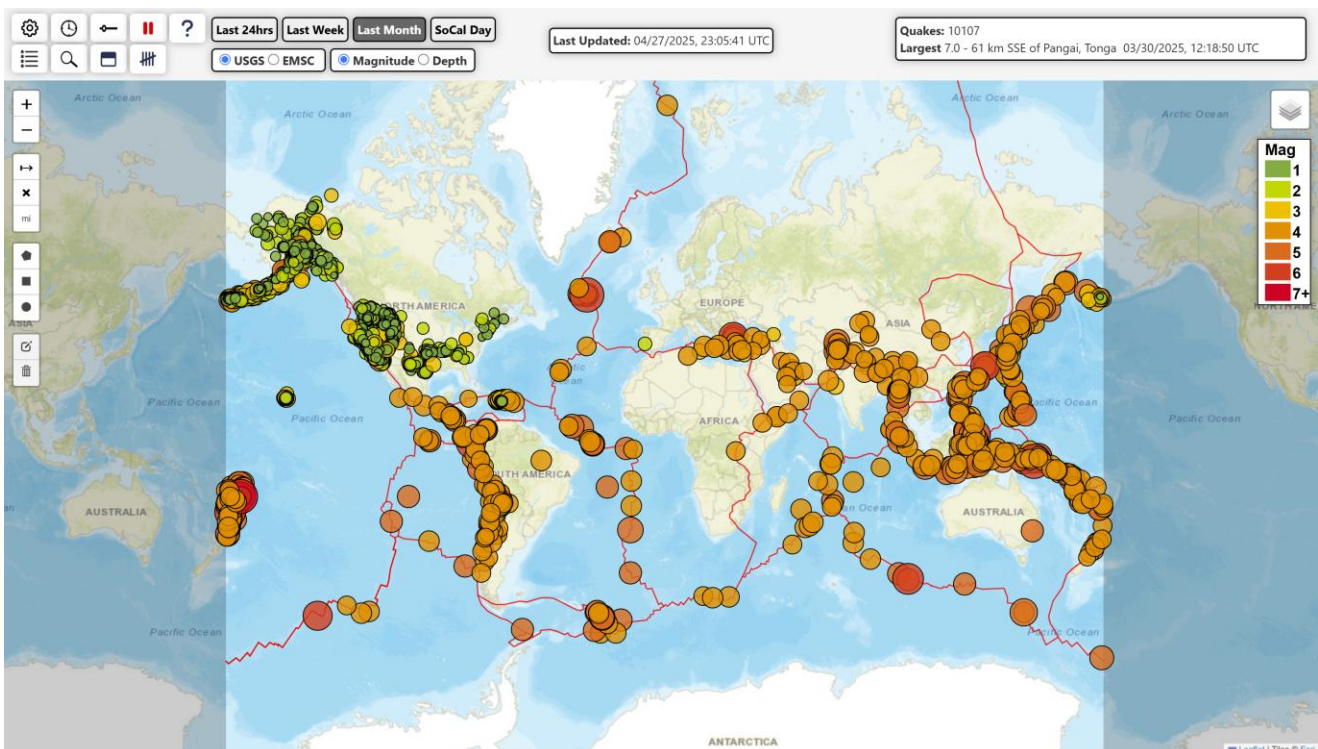
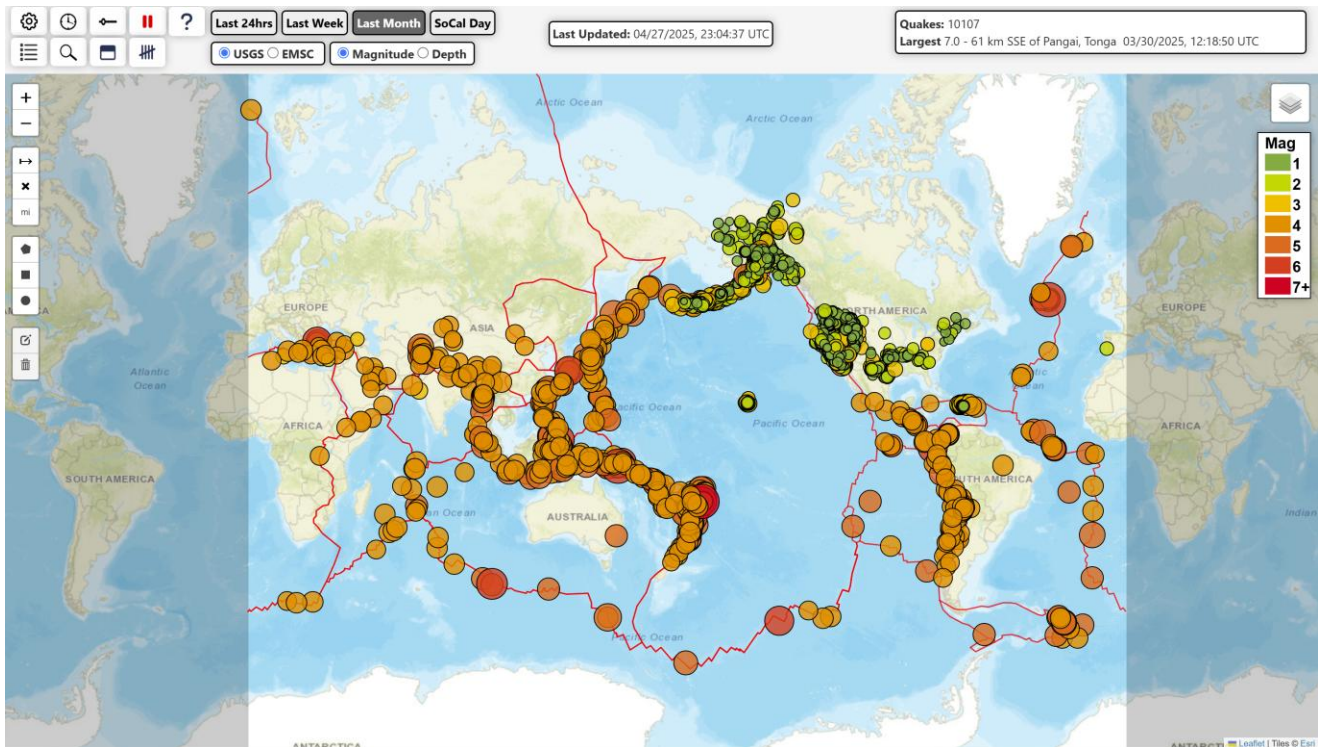
Time: 7/3/2019, 8:17:00 PM to 7/7/2019, 8:17:00 PM

Magnitude: All magnitudes

Depth: All depths

Shading

The light area is where the data will appear and where search areas should be selected. Leaflet maps continually extend and have longitudinal values that cause the search results to display in unexpected areas or the search to fail.



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