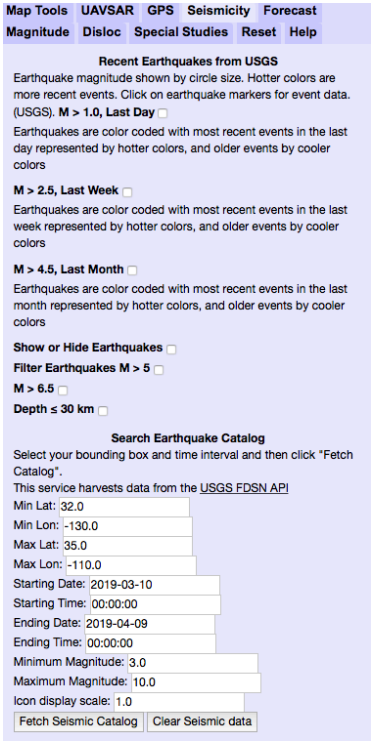
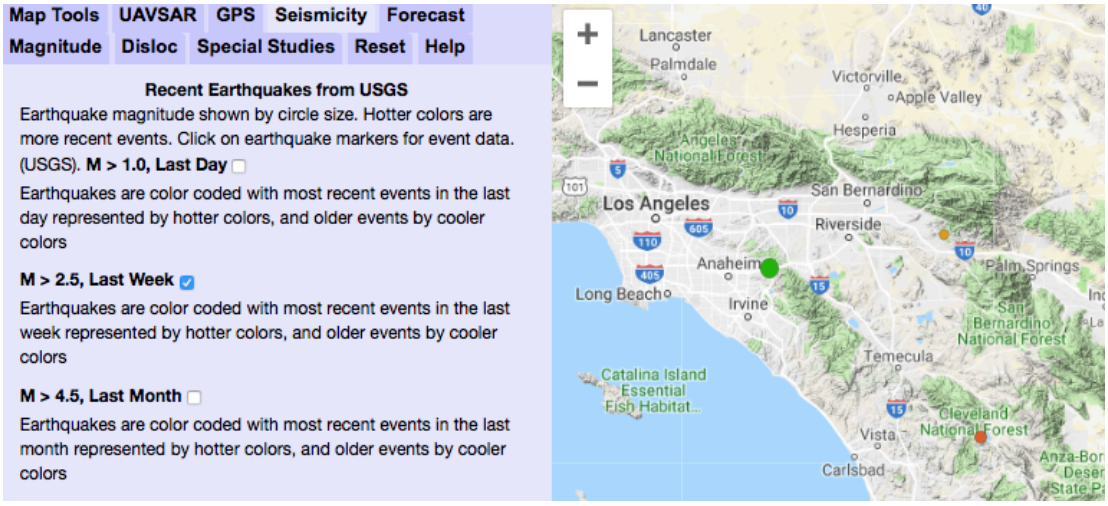
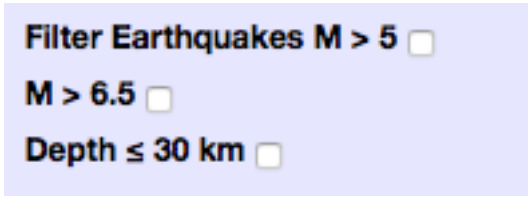
Seismicity

The Seismicity tab allows users to display earthquakes in a region over a specified time period.

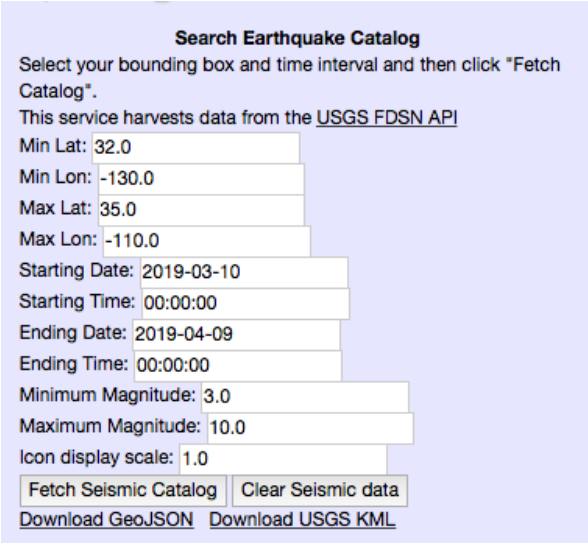




The tab allows for a selection of Recent Earthquakes from USGS data, which can be found on the USGS website https://earthquake.usgs.gov/earthquakes/map/ , as shown in the image above. The earthquake's magnitude is shown by circle size. Hotter colors are more recent events. Read the description under each checked box for further information about the data.



Additional filters, such as M > 5 and M > 6.5 and Depth ≤ 30 km can be found in the tab under Filter Earthquakes as shown above.

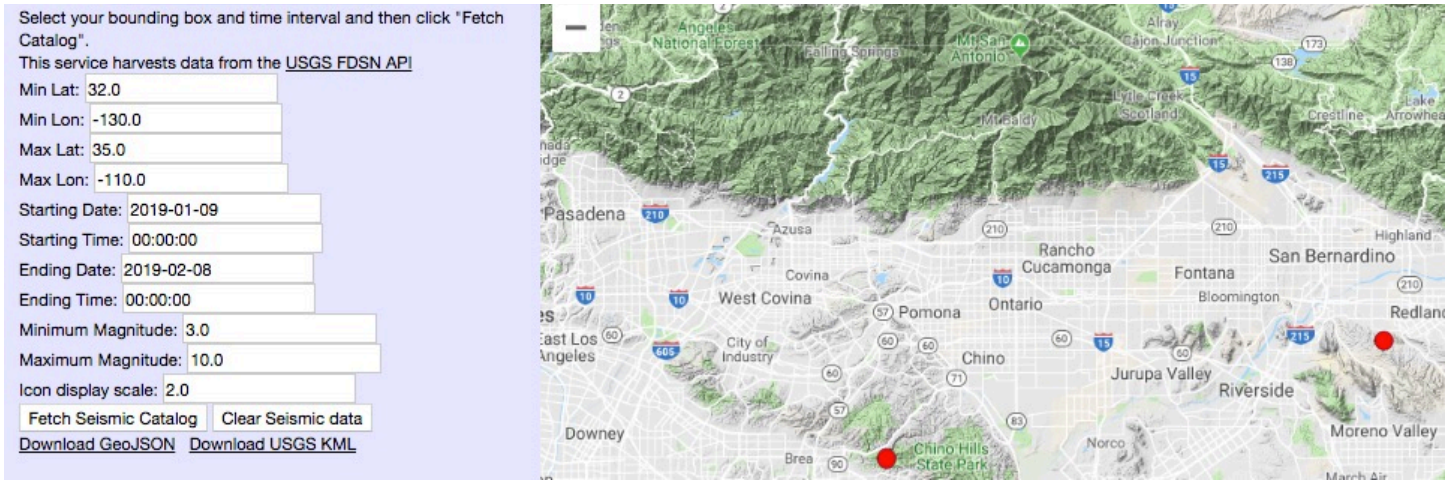


To generate the earthquake catalog, users must input data specific to what they want to produce.

Lines 1-4 require users to put the latitudes and longitudes of the specified region.
Lines 4-8 require data regarding the range of date and time of interest.
Lines 9-10 require the range of chosen magnitude.

Lastly box 11 requires the user to scale the size of the icon of the seismic event, by inputting a number (larger number = larger icon).

Click “Fetch Seismic Catalog” in order to display the result of the seismicity on the map. Moreover, users are given the option to download “GeoJSON” and “USGS KML”.



Right next to the “Fetch Seismic Catalog” is the “Clear Seismic data” where the data inputted clears.