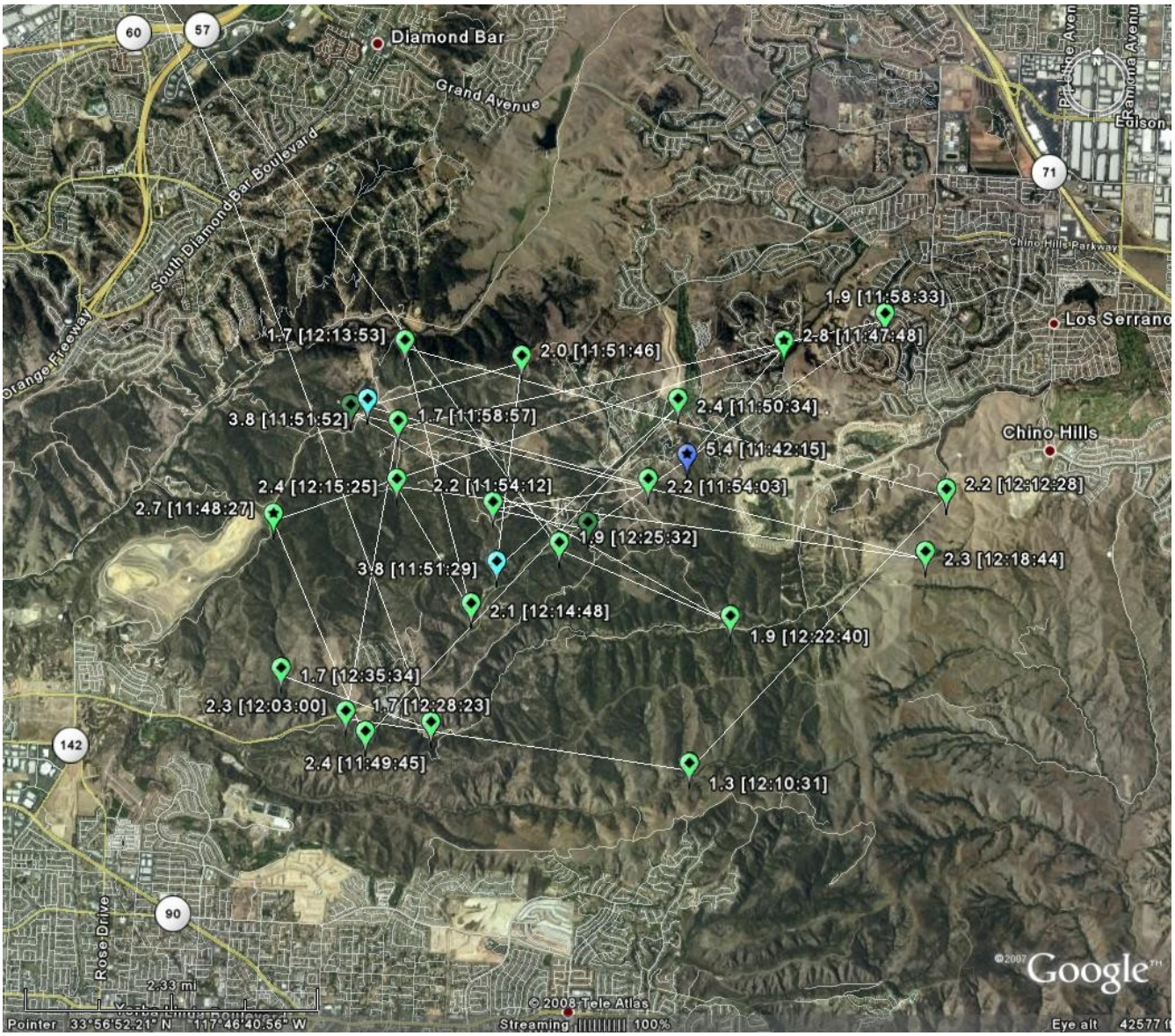
Chino Hills Quake 07/29/2008 11:42 AM – 1 Hour Later



Notes

- This data comes from the thematicattic.com GeoZipper program based on data directly from USGS. The data is displayed in Google Earth and the KML file is available at http://www.thematicattic.com/KML/ChinoHills1HR.kml
- Several of the magnitudes had not been updated by the time this file was generated almost exactly one hour after the main 5.4 shock. Keep in mind that the USGS folks have to evaluate each quake AFTER the computer records and estimates the initial data
- You can explore the data using Google Earth or Google Maps yourself. For Google Earth, download the file and then double-click on it. For Google Maps, enter the URL above in the search field to get Google Maps to see the data.

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Uses

- Earthquake data includes the preliminary magnitude, time and an approximation of the energy expended. For more information on how the energy is calculated, please see the documentation for the GeoZipper program. All of the data can be found by clicking on the markers for each event. There is one event NorthWest of Diamond Bar that doesn't seem to be part of the main cluster of events. It is up to the instructor's discretion whether or not to include it. If you zoom out though you'll see you have to zoom out quite a ways to see any other events within the hour following the initial quake.
    - Students could add all the energies together to see how much total energy was released in the general area.
    - Students could add all the depths and then calculate an average depth. Depths are in kilometers, so they could also convert these to miles
    - Students could follow the sequence of the events along the lines and calculate the average magnitude in the each of the four 15 minute segments.