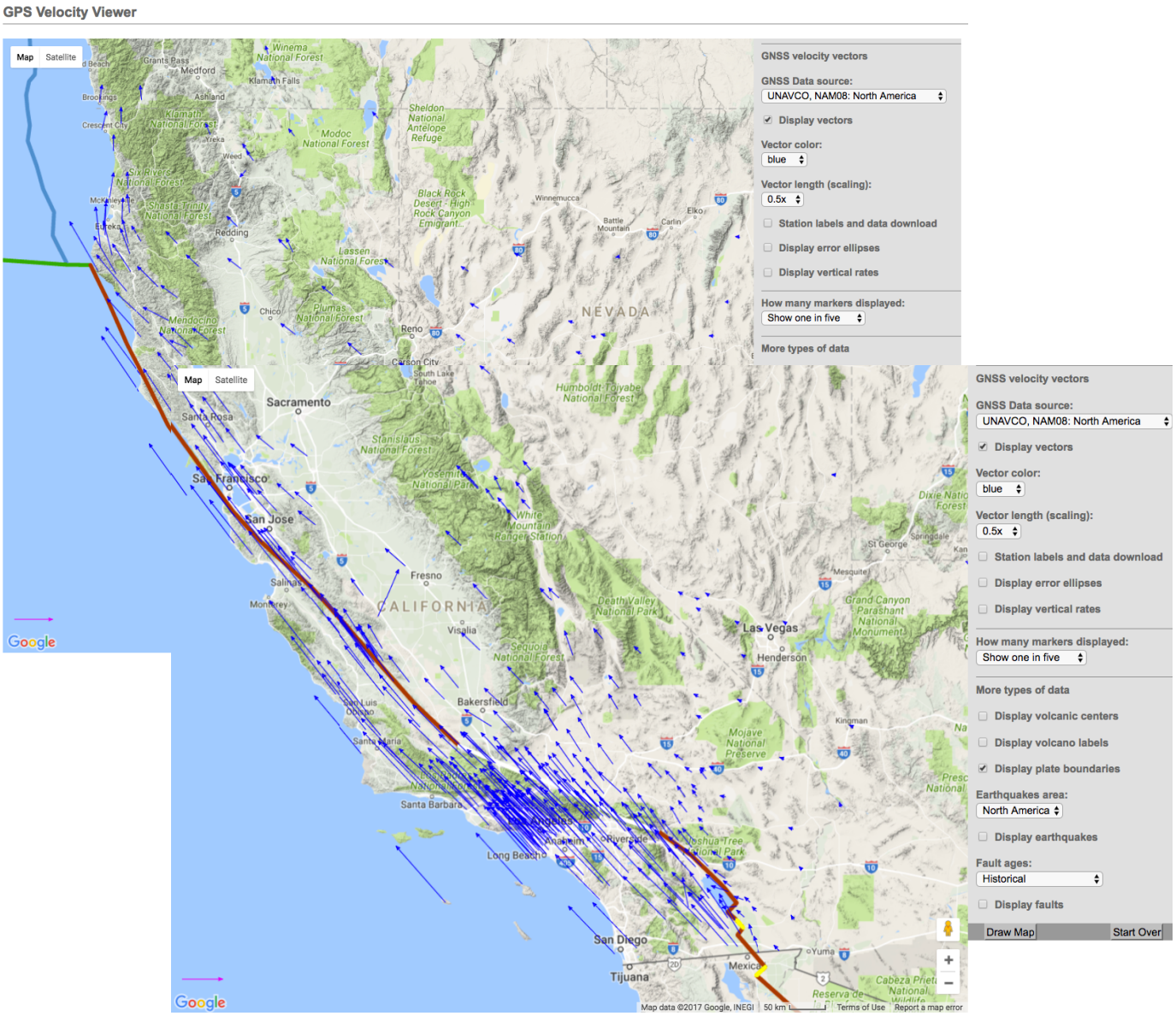
California Region
GPS Instruments & Ground Motions

[data source: UNAVCO Plate Boundary Observatory and other GPS networks
map tool: UNAVCO GPS Velocity Viewer
http://www.unavco.org/software/visualization/GPS-Velocity-Viewer/GPS-Velocity-Viewer.html]

Ground motions of the region

GPS data from the Plate Boundary Observatory (operated by UNAVCO) and other networks:

- At the tail of each blue vector, a GPS station is permanently mounted to the ground, measuring plate motion at that lcoation.
- The length and direction of the arrow represents the velocity of the ground at that point.
- The magenta vector represents 25 mm / year. Transform plate boundary shown in red.

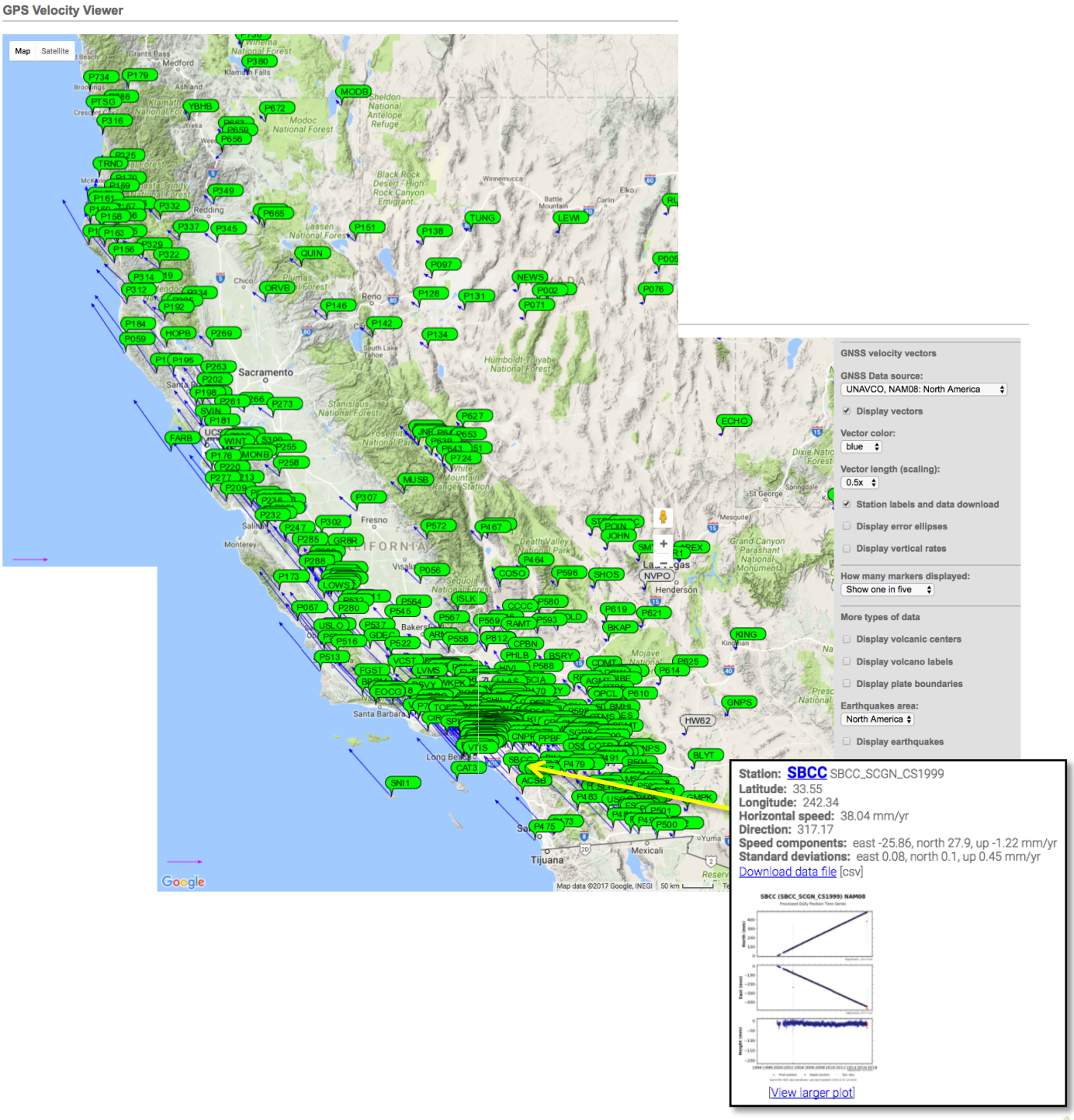


Questions or comments please contact education @ unavco.org
Data shown in North American Reference Frame unless noted.

Click on the “Station labels and data download” checkbox then Draw Map button.

On the Velocity Viewer, clicking on the green bubble will open and show:

- GPS location
- Ground motion horizontally
- Time series plot showing motion of the ground and GPS station over time.
- Link to download the GPS data.



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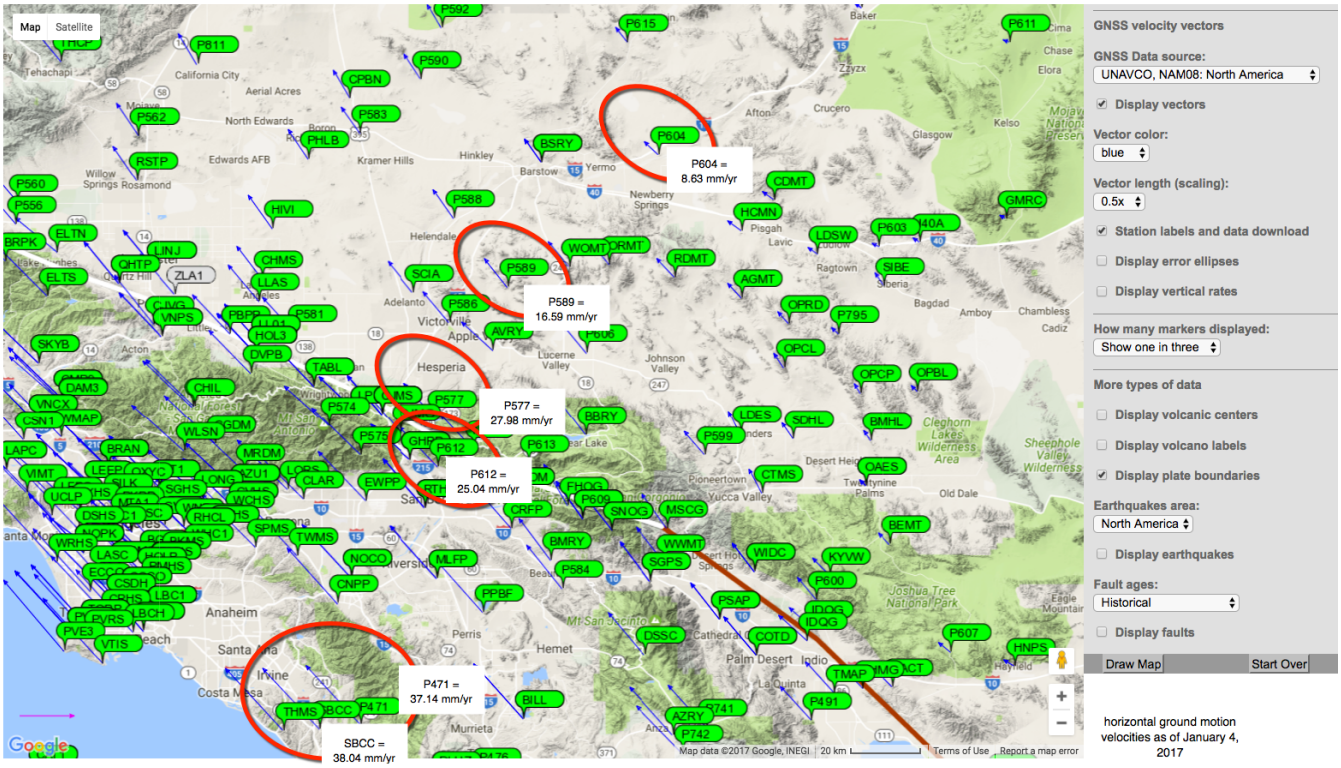
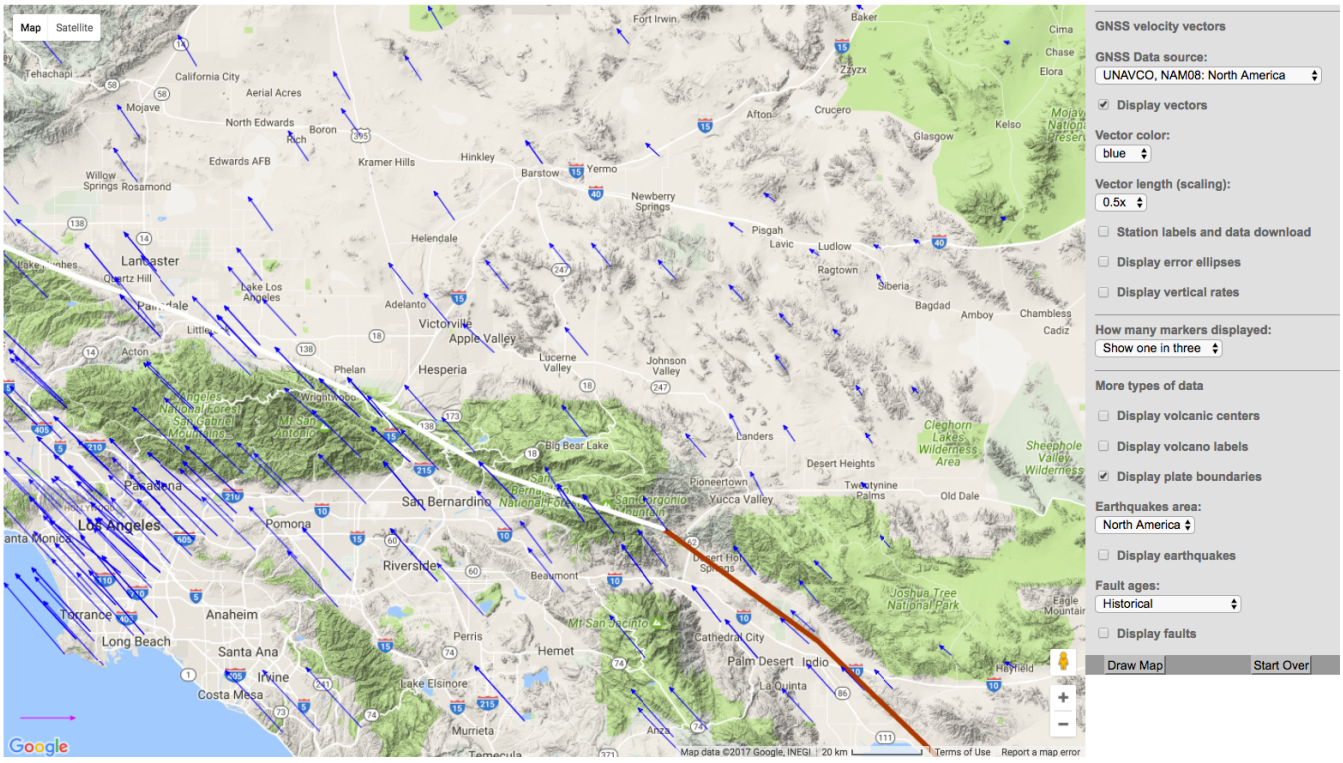
Horizontal ground motion (in mm/yr) for selected sites:

GPS Velocity Viewer



horizontal ground motion velocities as of January 4, 2017

GPS Velocity Viewer



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