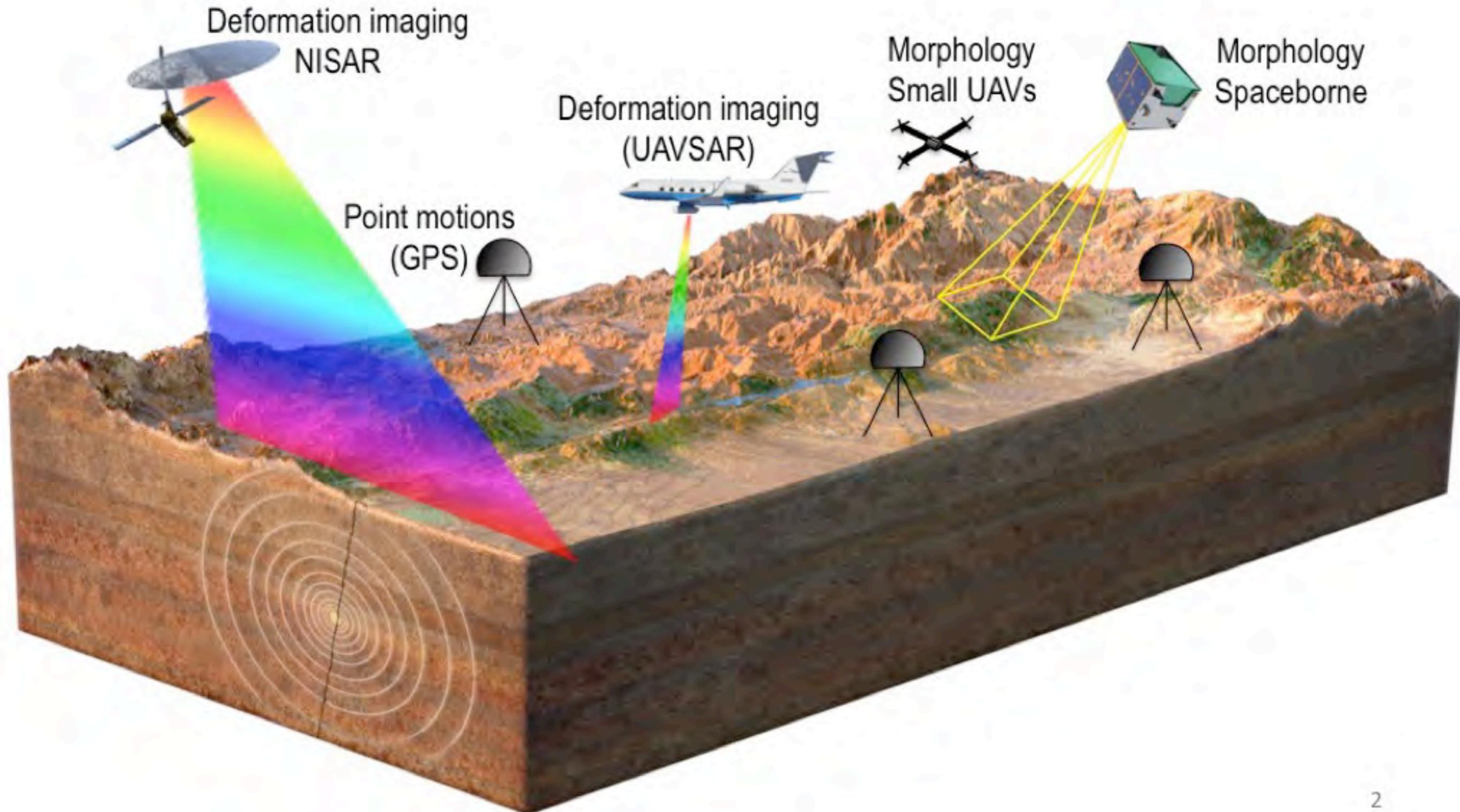


Imaging and Analyzing Southern California's Active Faults with High Resolution Topography

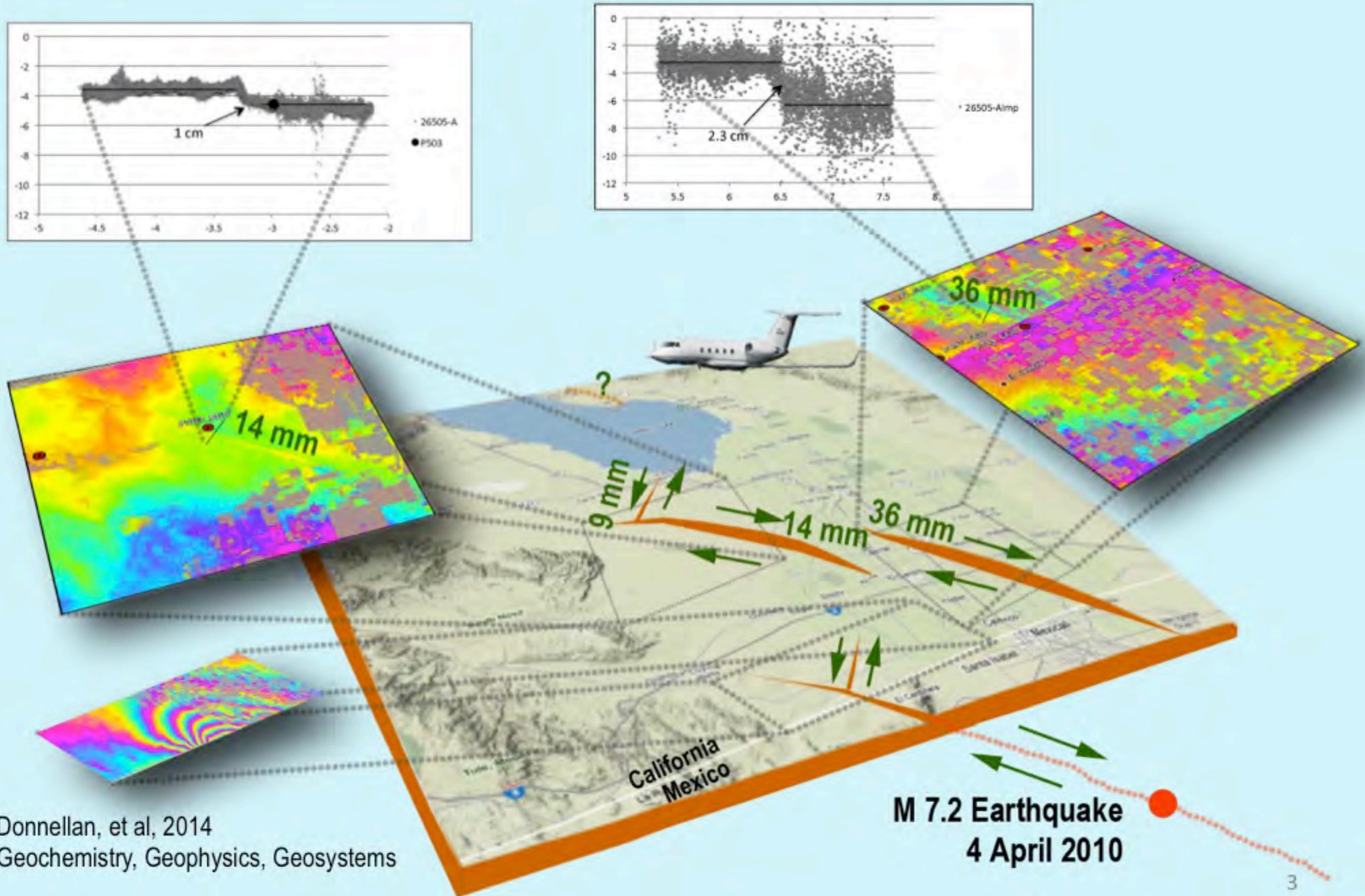
Andrea Donnellan

Jet Propulsion Laboratory, California
Institute of Technology

Measurements



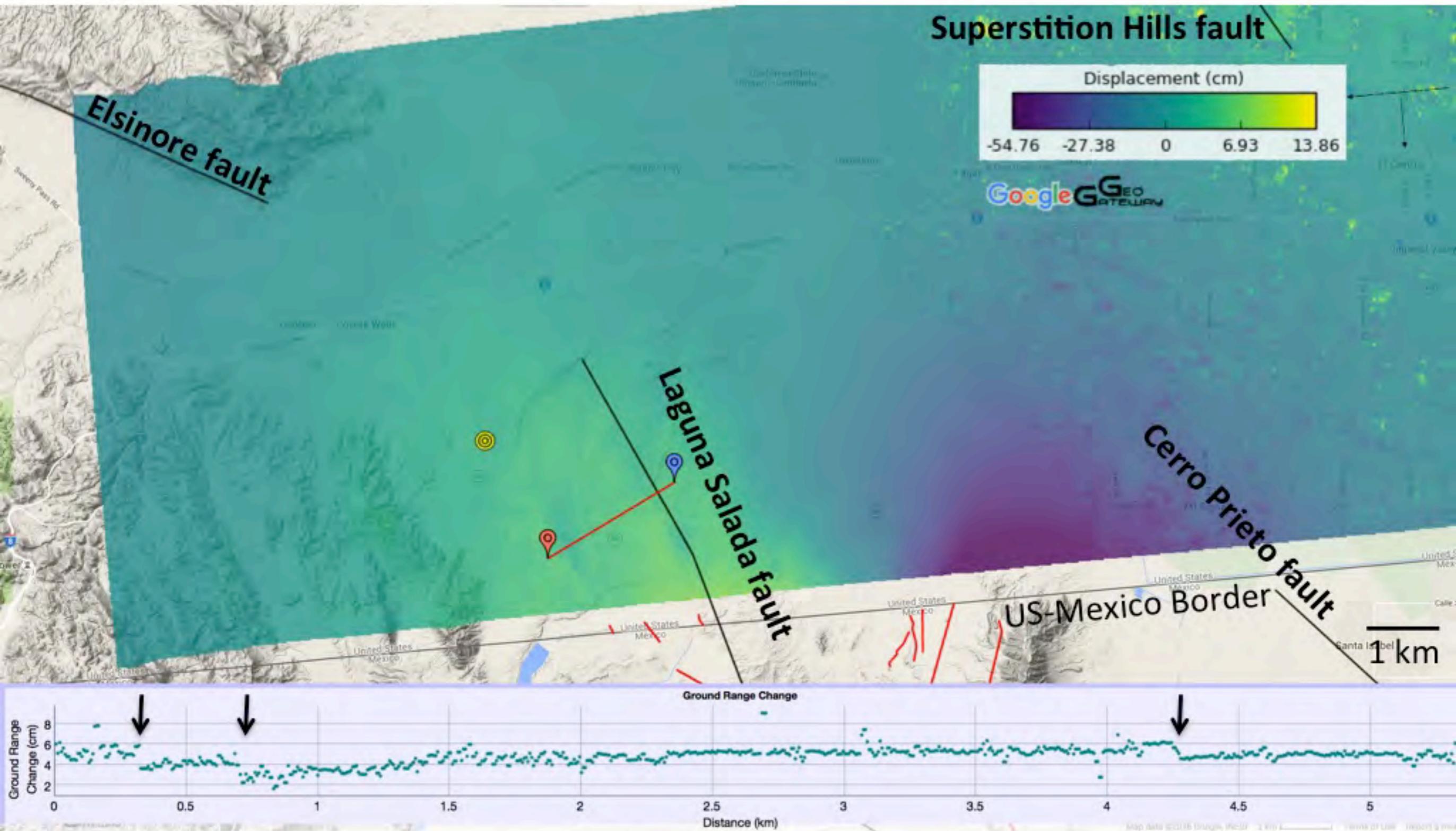
Salton Trough



Donnellan, et al, 2014
Geochemistry, Geophysics, Geosystems

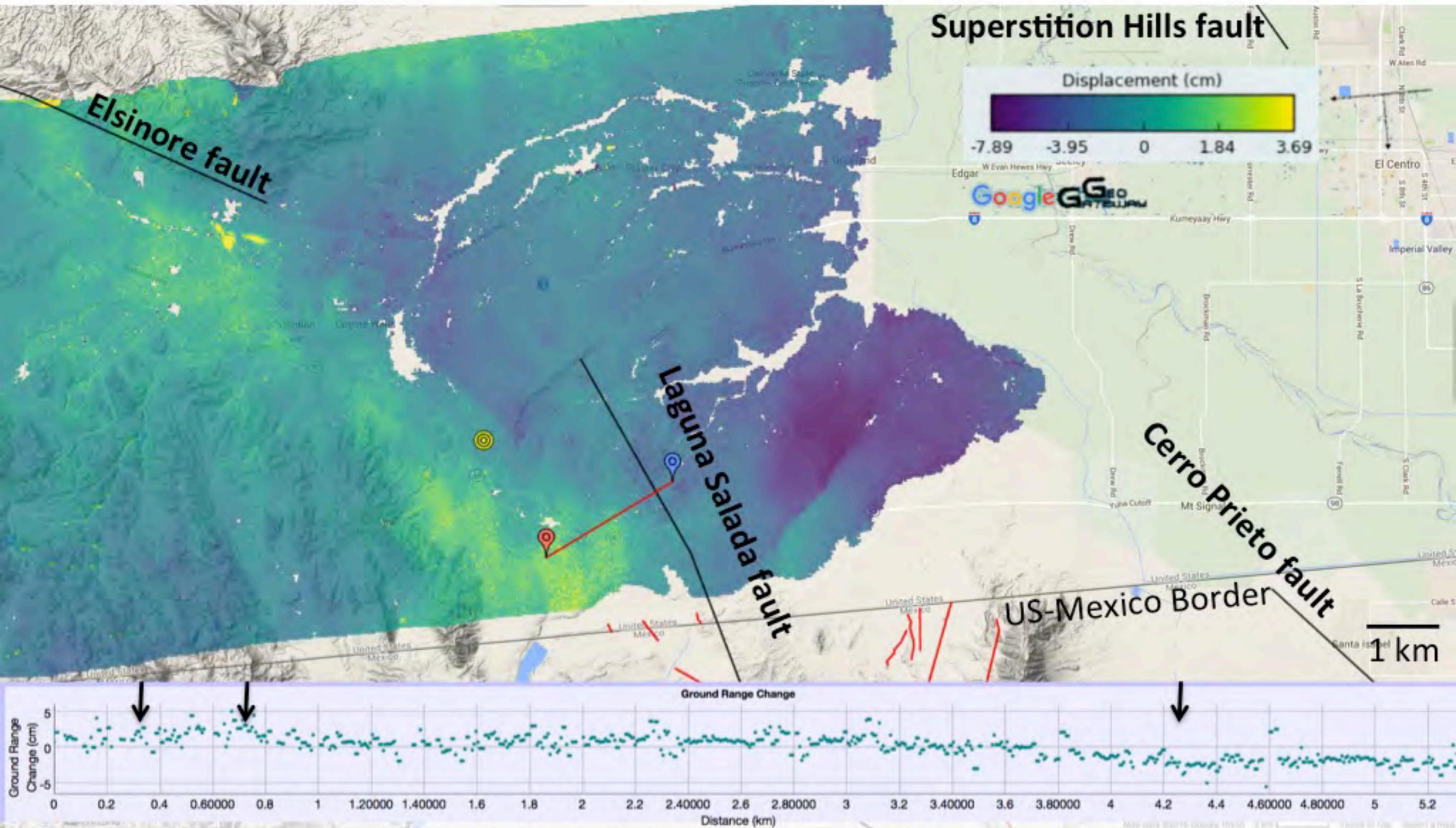
**M 7.2 Earthquake
4 April 2010**

Triggered Slip NW of Main Rupture



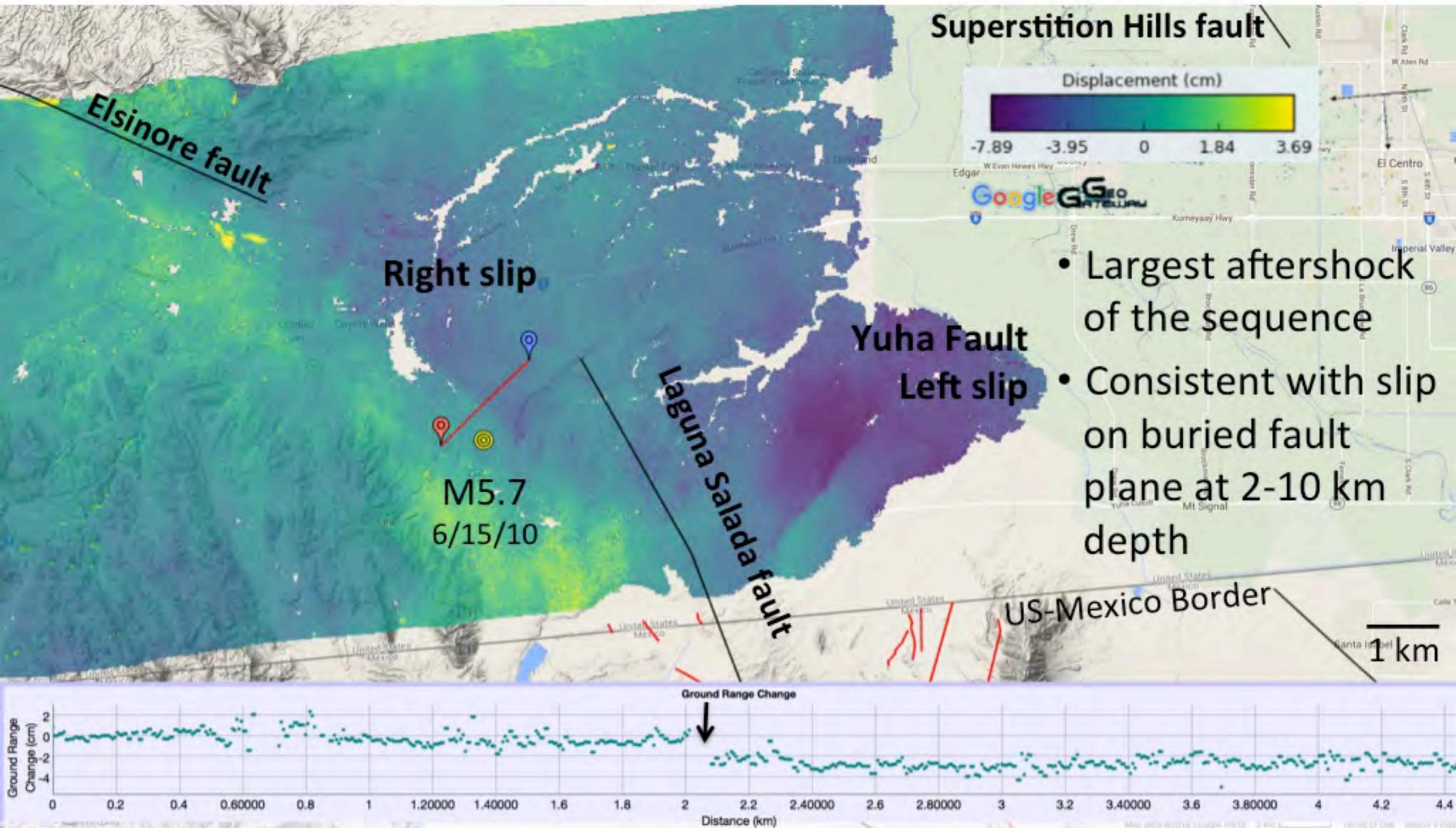
21 October 2010 – 13 April 2010

Continued Postseismic Slip



13 April 2010 – 11 February 2014

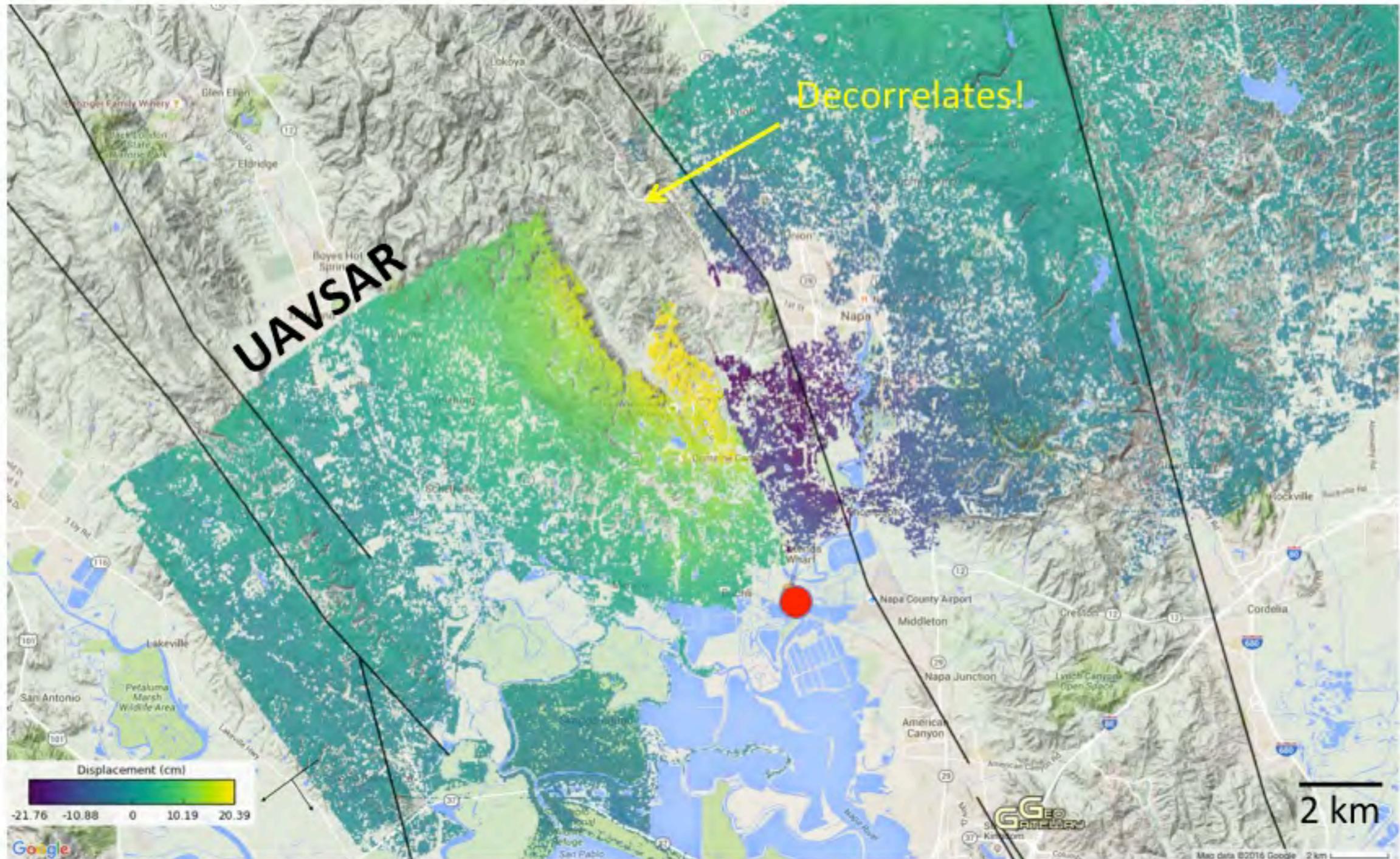
Additional Slip from M5.7 Aftershock



- Largest aftershock of the sequence
- Consistent with slip on buried fault plane at 2-10 km depth

13 April 2010 – 11 February 2014

2014 M6.2 South Napa Earthquake



Mission Concept

Fixed-Point Topo Mapping Mode

2019/04/15 19:31:58.2344 UTC

