

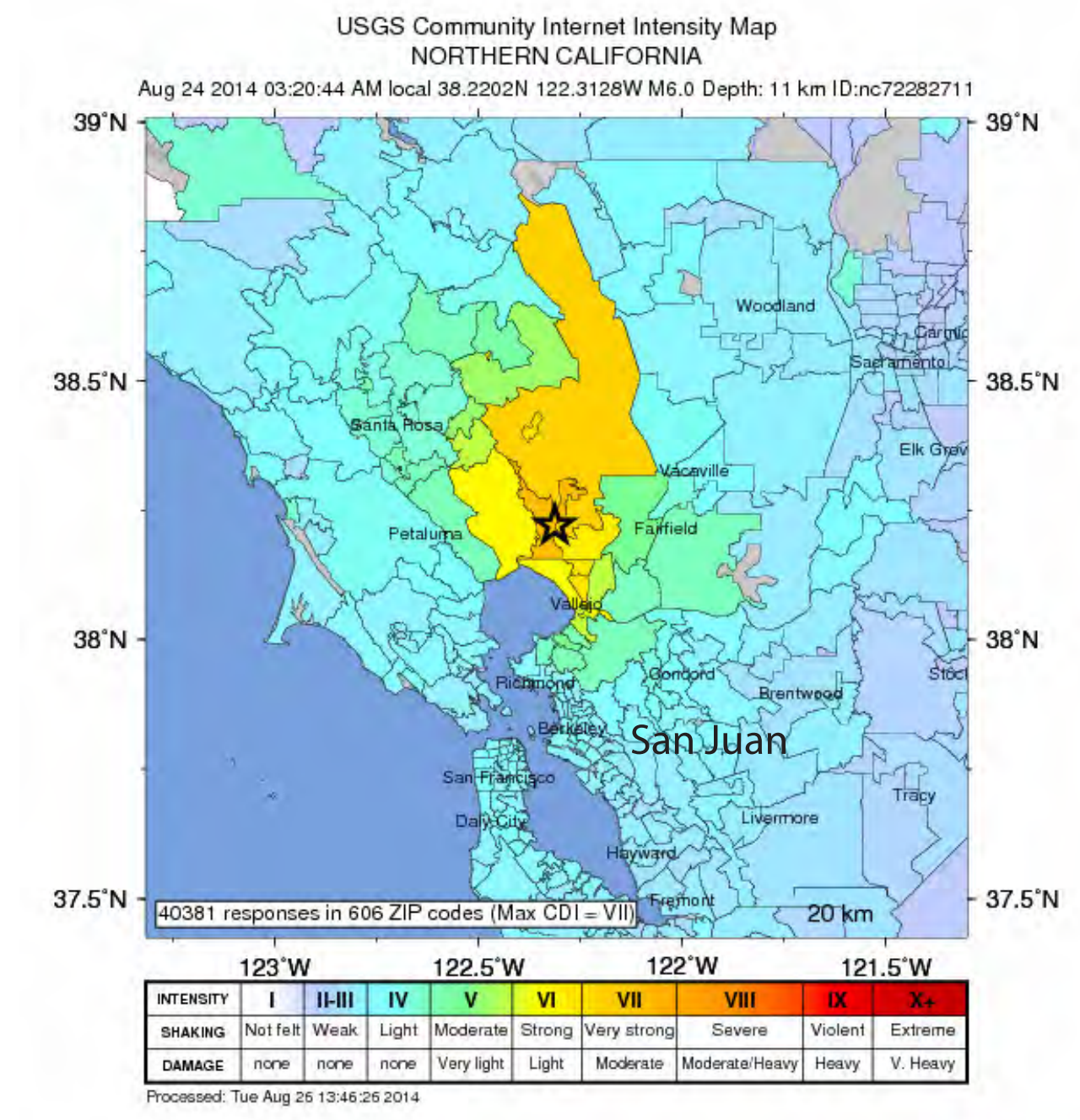
August 24, 2014 Napa, Ca. (M 6.0)

10:20:44 UTC / 03:20:44 at epicenter

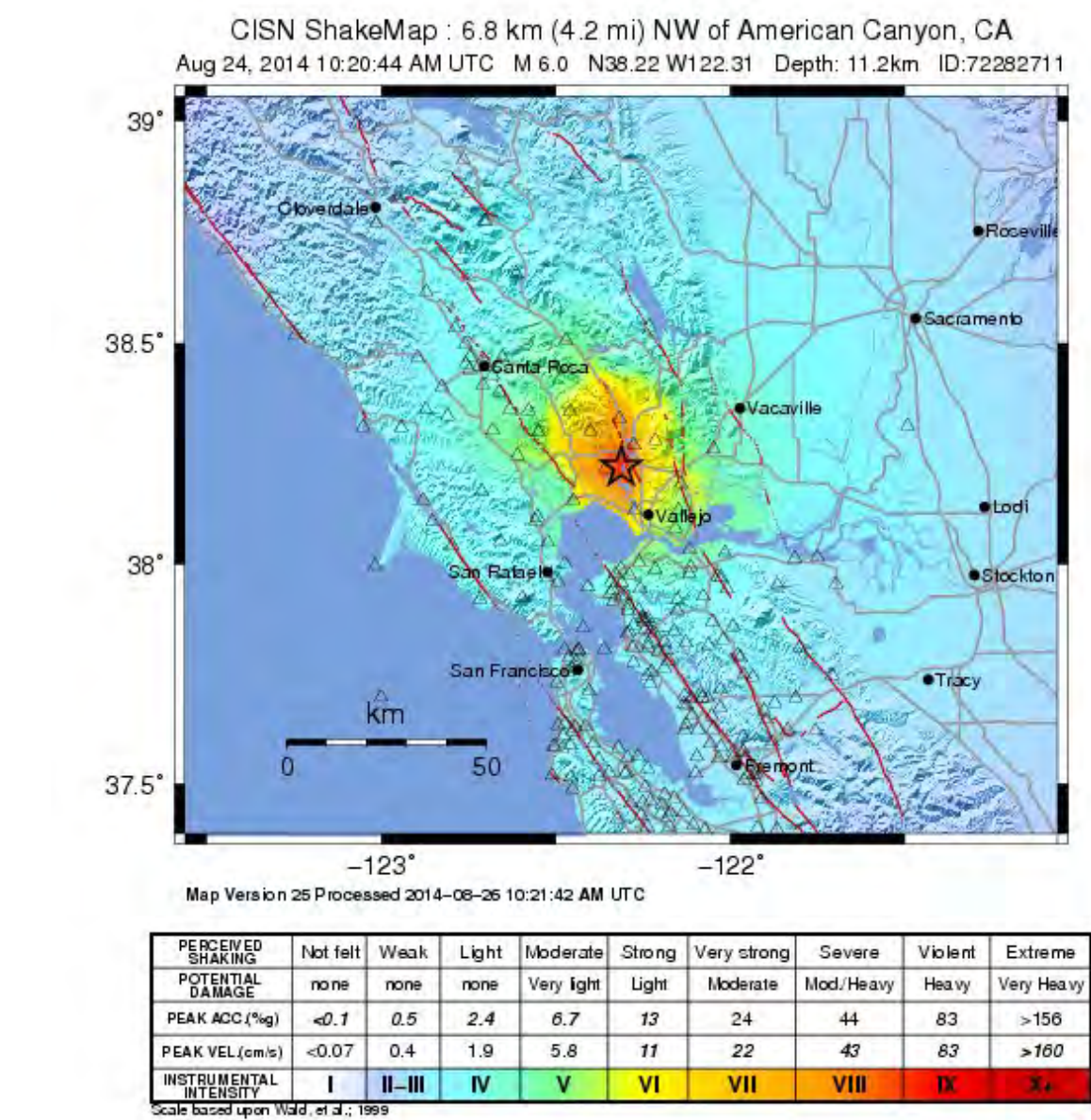
University of Kentucky

Kentucky Seismic and Strong Motion Network

USGS Felt Reports

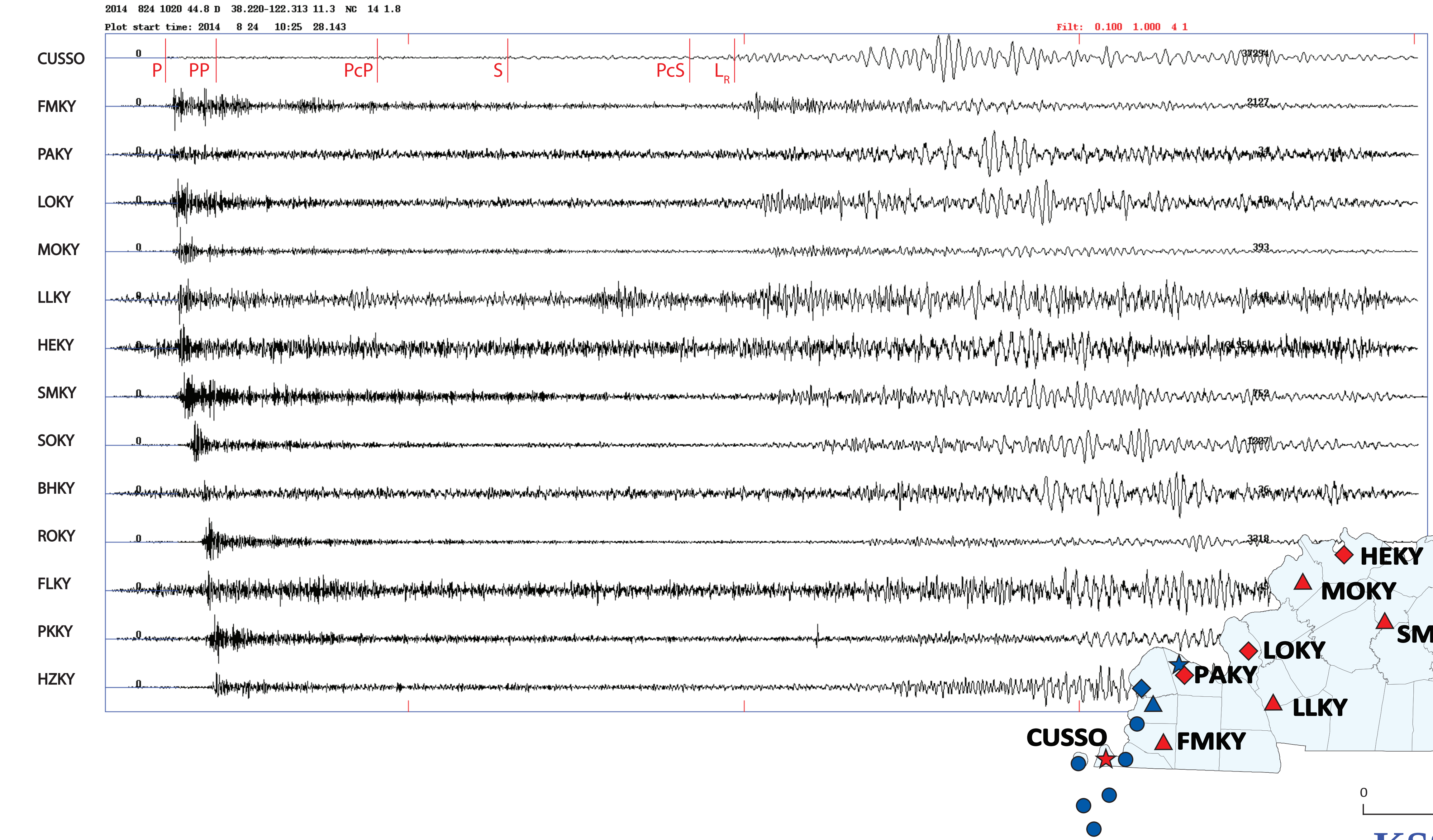


USGS Shake Map

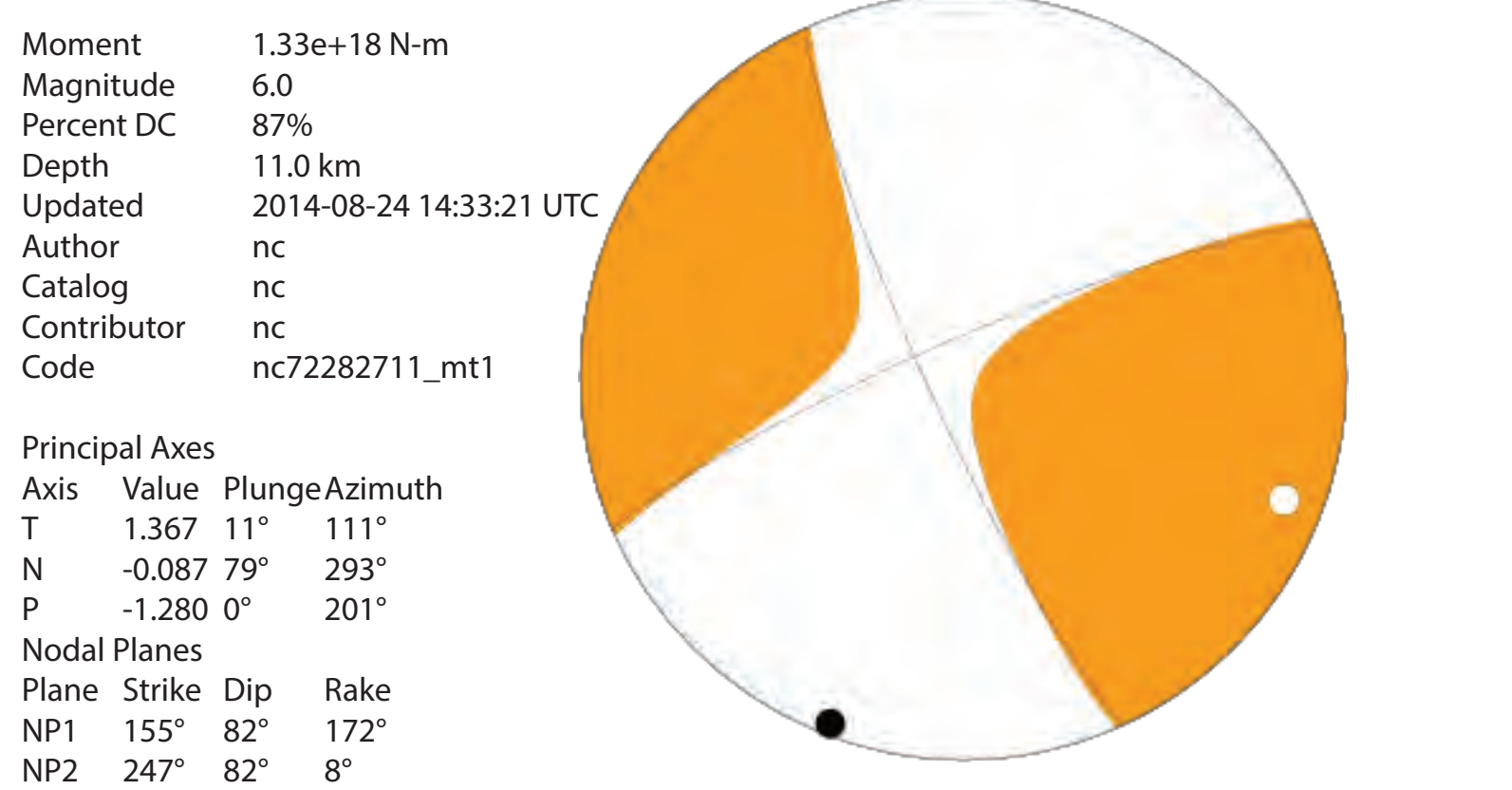


Maps courtesy of USGS NEIC:
<http://earthquake.usgs.gov/earthquakes/eventpage/nc72282711>

KSSMN Seismograms (ordered by distance)



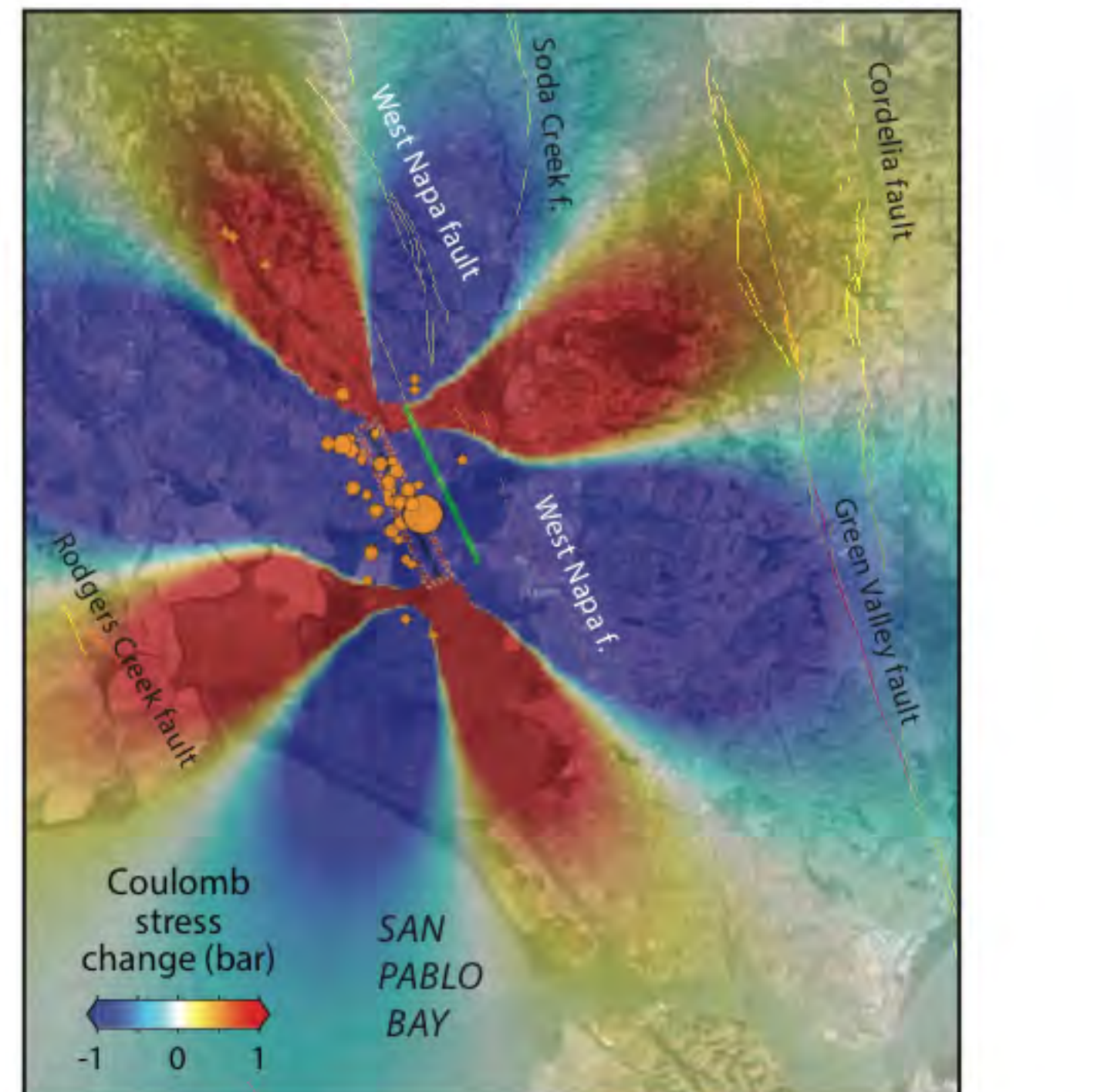
Northern California Source Mechanism



(Right-lateral strike-slip faulting on a SE striking fault)

Coulomb Stress Change

Preliminary Calculation of the Coulomb Stress imparted by the 24 Aug 2014 M=6.0 American Canyon earthquake to surrounding faults (as of 8/24/14, 1:00pm)



Inferences: ~0.25-bar stress increase on portions of the Green Valley & Rodgers Creek faults; ~0.75-bar stress decrease on West Napa fault

Assumptions: $M_0 = 1.3 \times 10^{25}$ dyne-cm
6 km x 6 km square source centered at 11 km depth with 1.3 m of slip
Source and receiver fault geometry: 155° strike, 82° dip, 172° rake. Friction: 0.4
by Volkan Sevilgen (seismicity.net) and Ross Stein (USGS)

KSSMN Seismic Stations (stations with seismograms are labeled by name)

