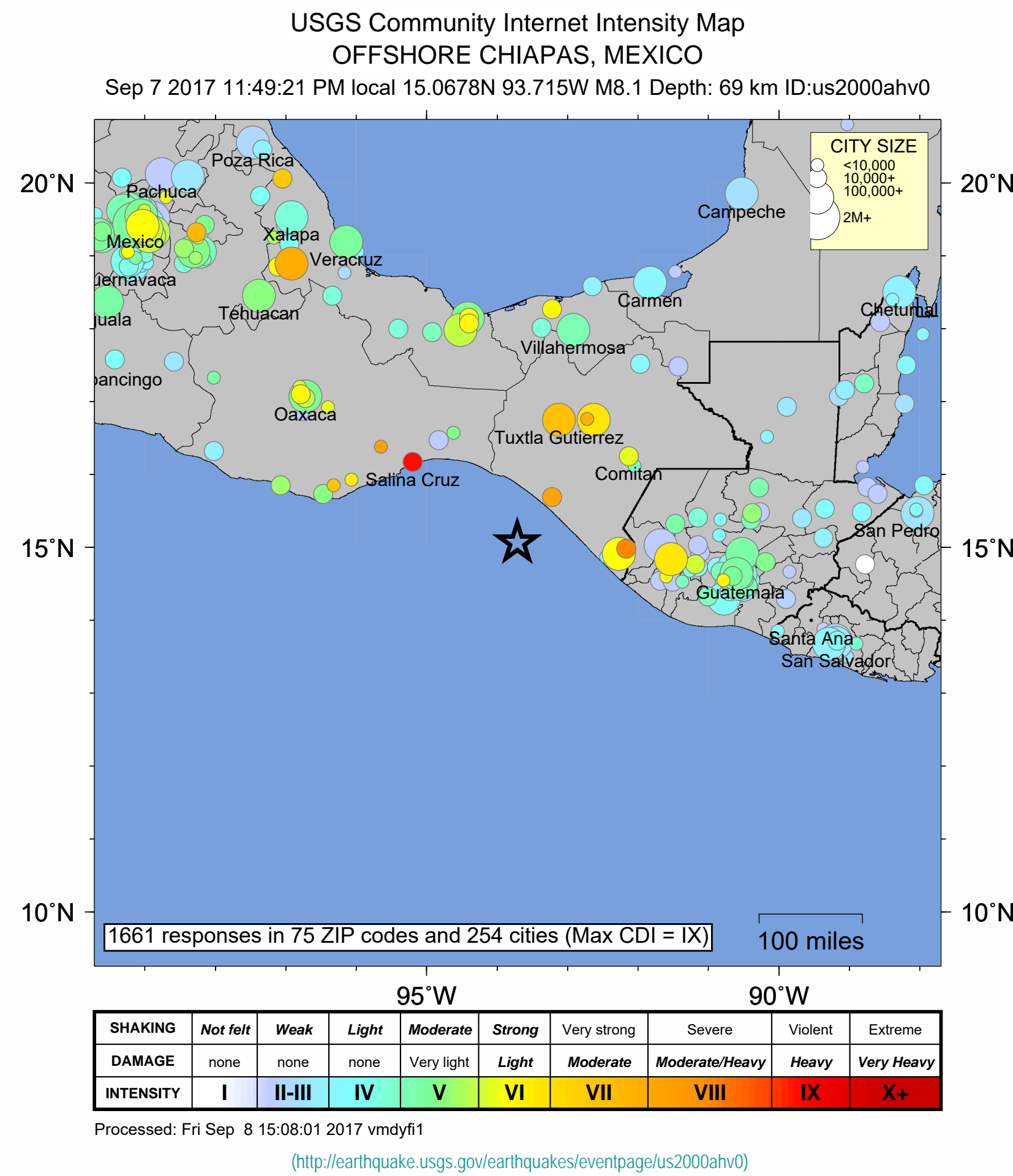


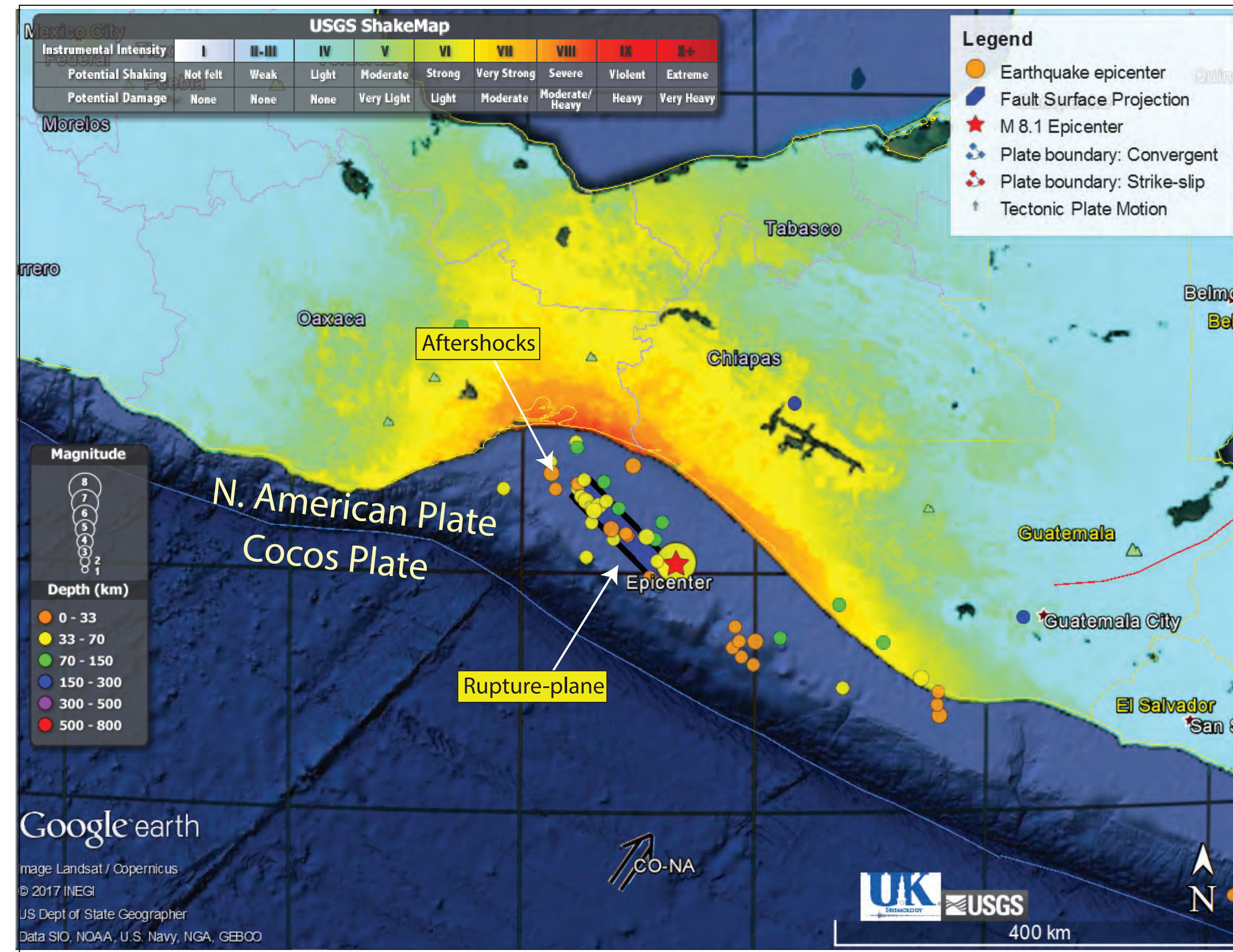
University of Kentucky Kentucky Seismic and Strong Motion Network

The Cocos (subducting) and North American (over-riding) tectonic plates converge in a northeast-southwest direction. The M 8.1 earthquake occurred along the boundary between these plates, on a fault plane of at least 200 km in length (right). The land surface in the map below is colored by expected shaking levels.

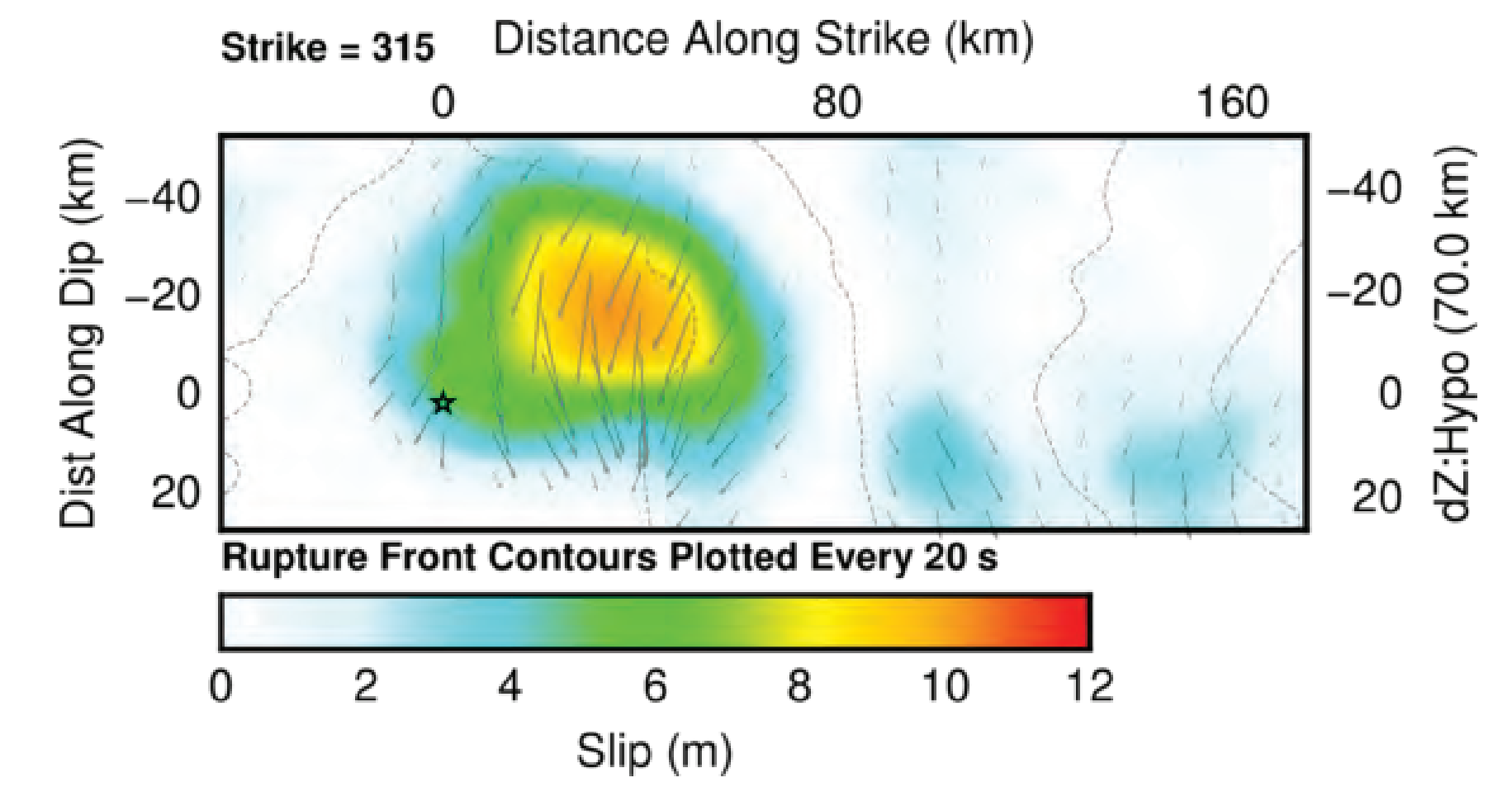
USGS Felt Reports



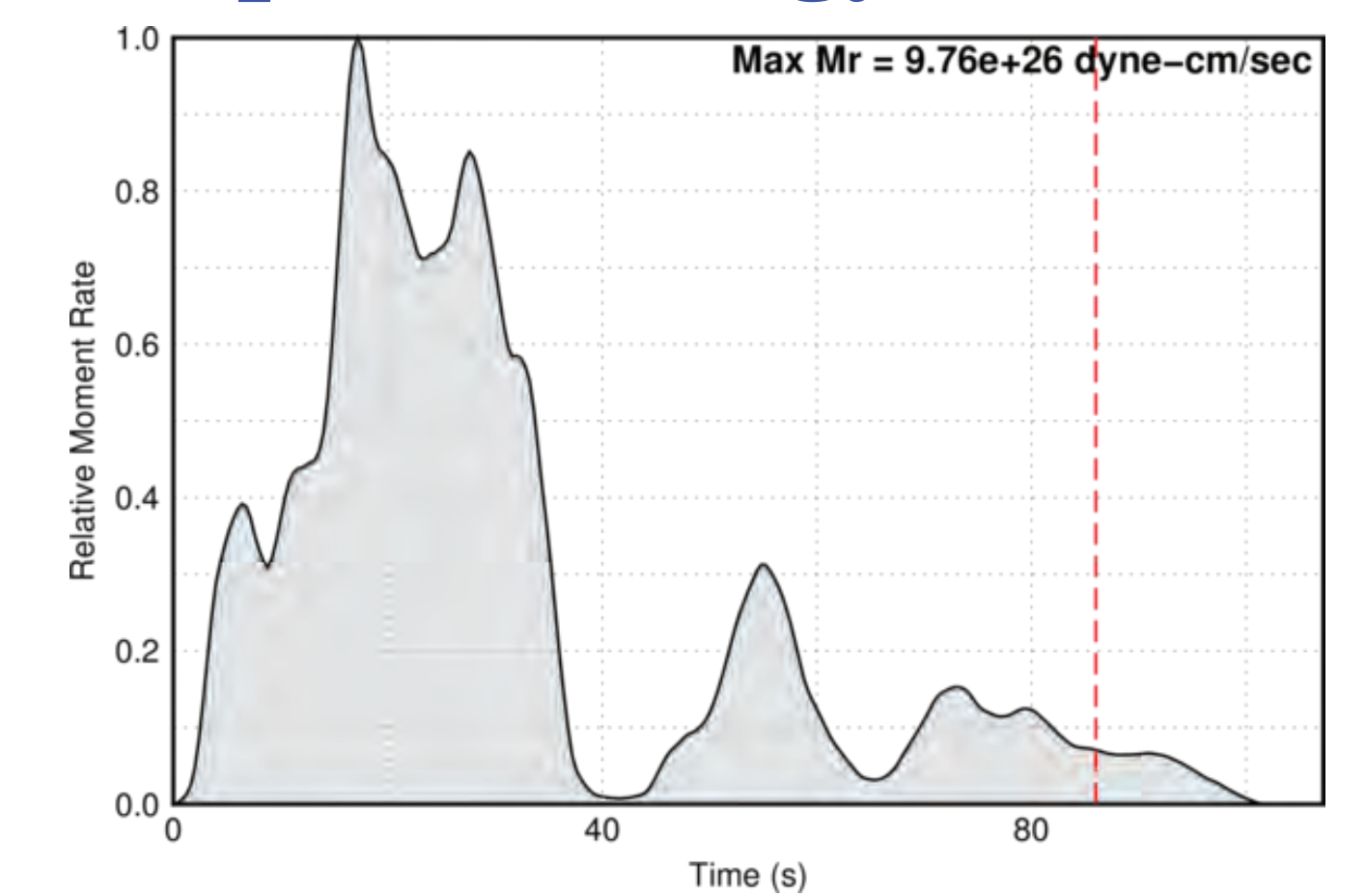
Heavy shaking was experienced along the coast and several deaths have been reported. Light shaking was reported as far away as Mexico City (~600 km)



Slip (rupture) along Fault

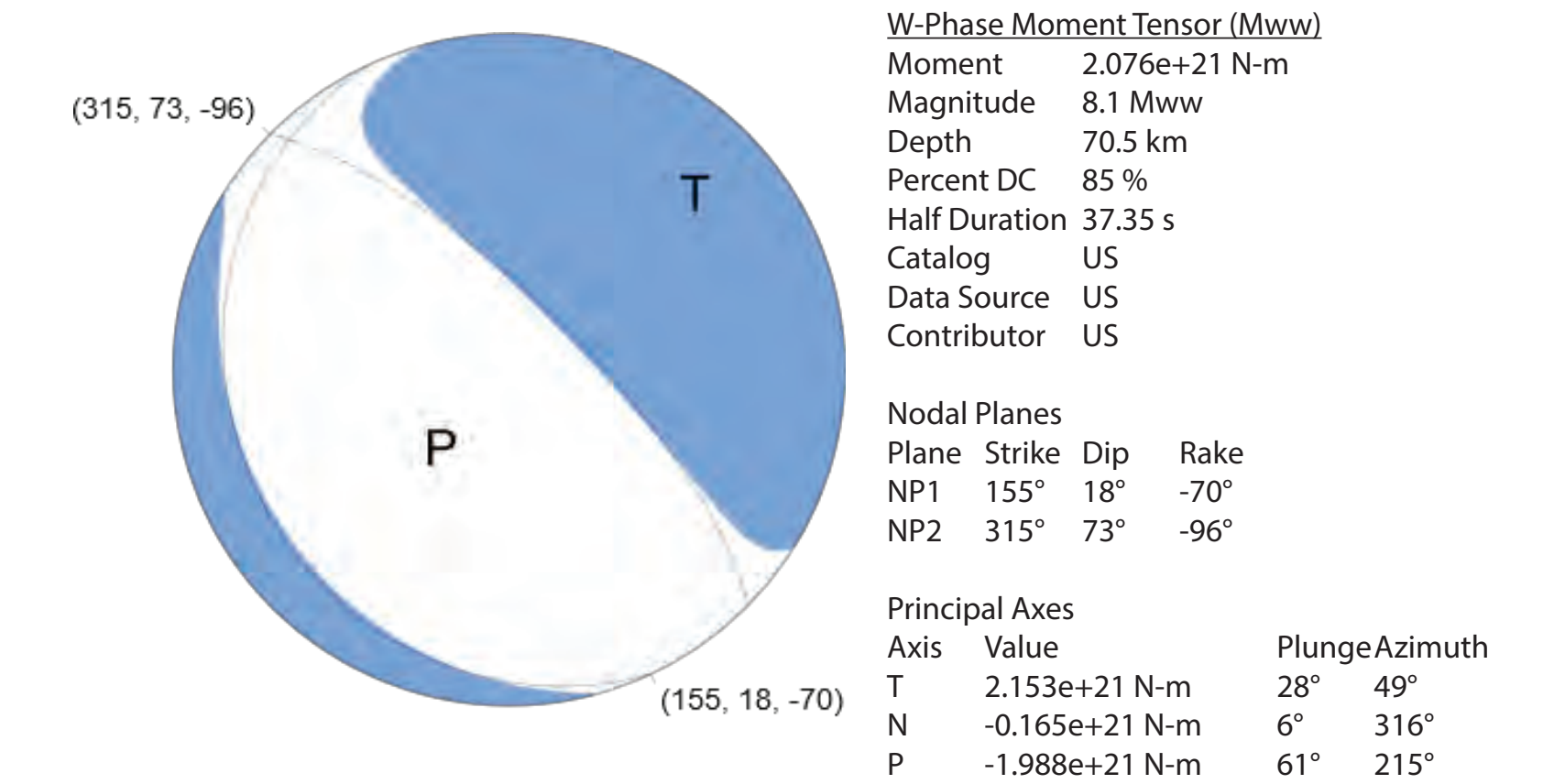


Rupture Energy Release

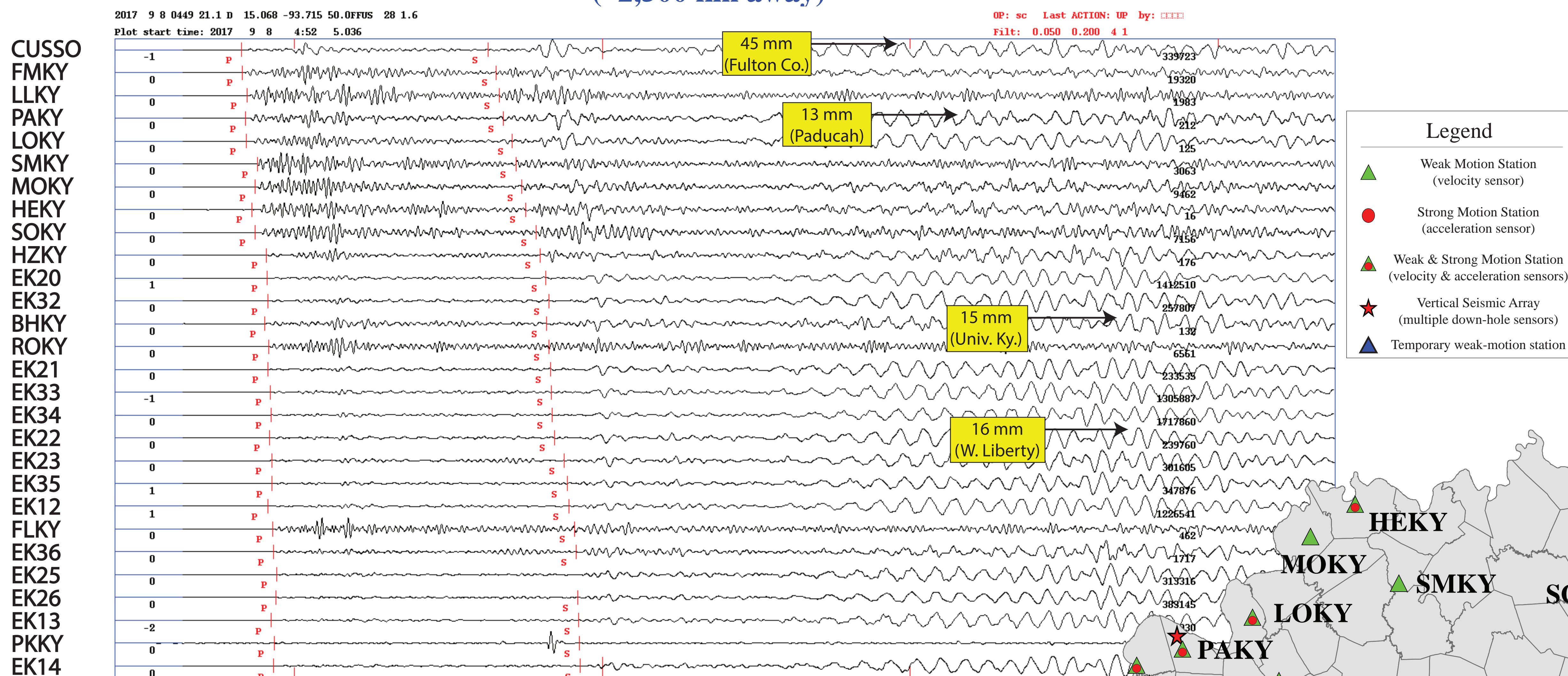


USGS Source Mechanism

(Normal faulting on the boundary between the Cocs and North American plates)



KSSMN Seismograms (~2,500 km away)



"P" and "S" mark arrival times of primary and secondary waves across Kentucky. Up-and-down displacements in mm are labeled at selected locations.

KSSMN Seismic Stations

(stations with seismograms are labeled by name)

