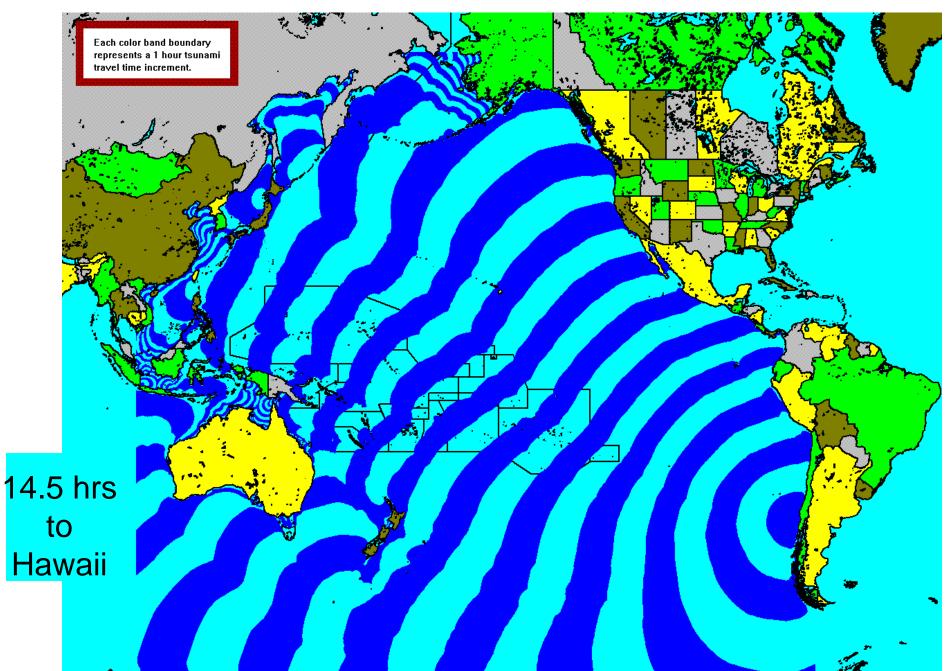
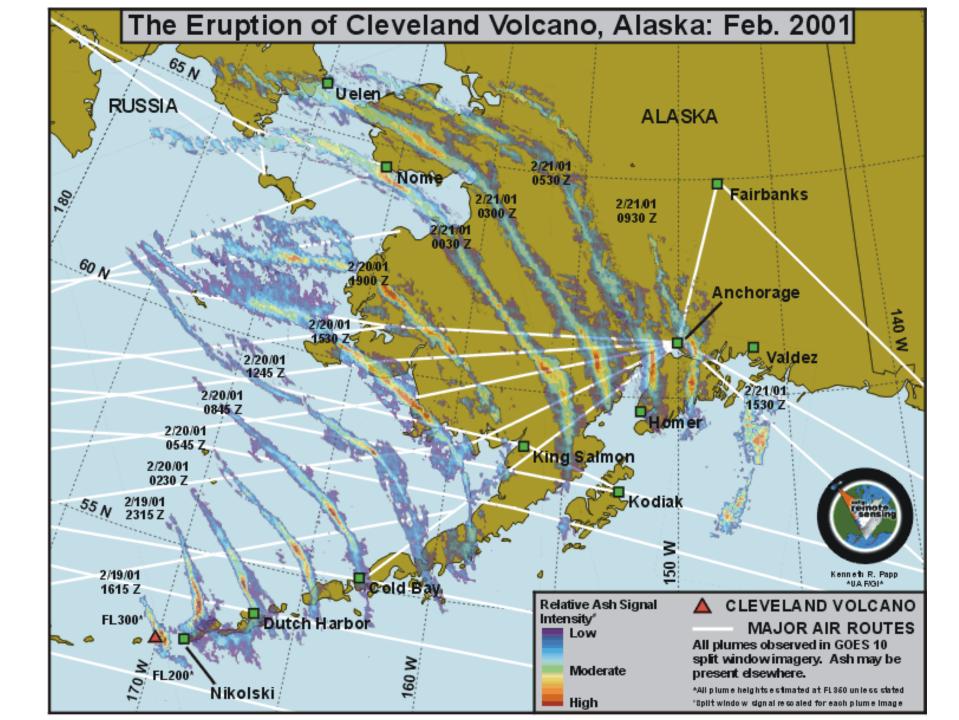
Tsunamis traveltimes -- one band = one hour

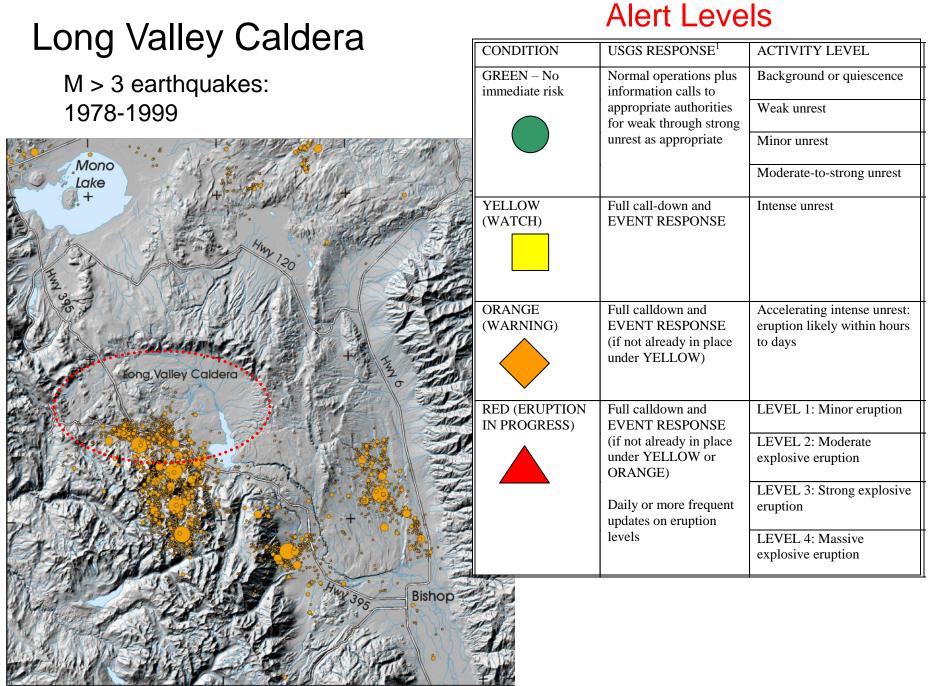




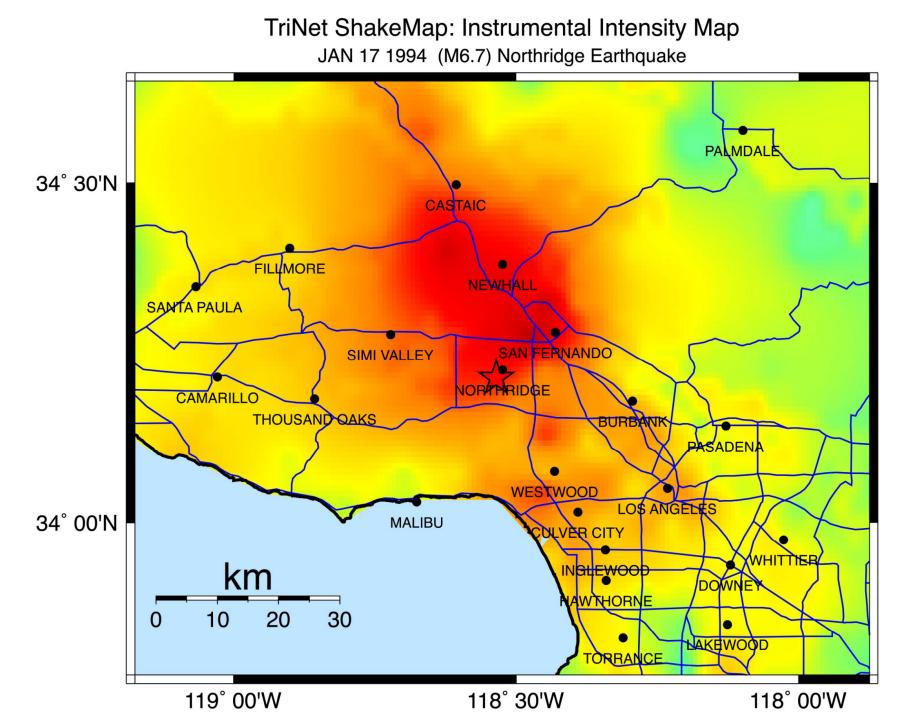


Challenges

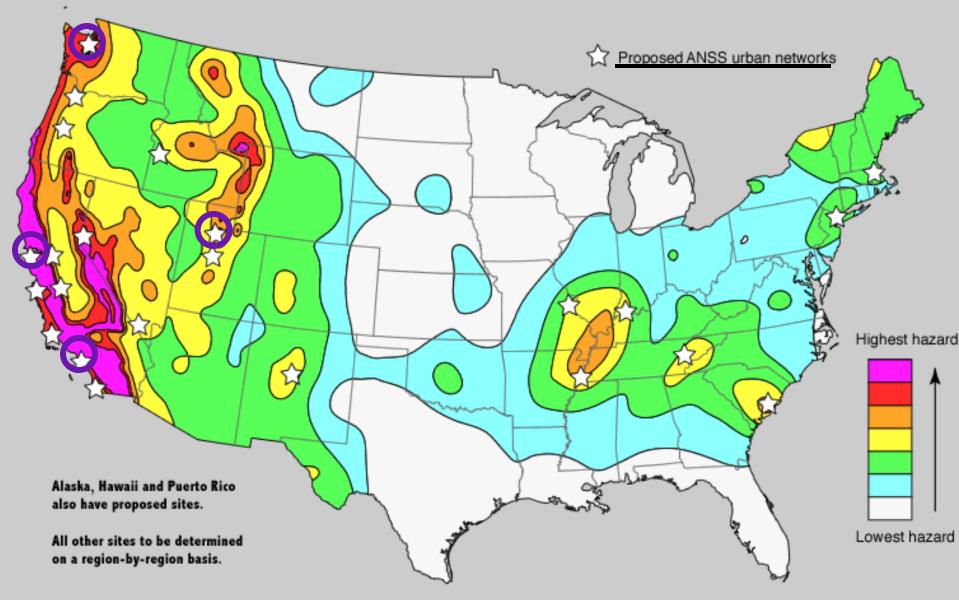
- Not all monitoring networks state-of-the-art, built over time, no stable funding base
- Network analysis centers not staffed 24/7
- Separate monitoring/recording/processing systems for all 3 hazards
- Society's tolerance? for false alarms
- Natural systems "quirky", even with reliable signals, can't always predict what will happen



10 miles



U.S. Geological Survey Advanced National Seismic Network



Opportunities

- Advanced National Seismic System (USGS) -modernize nation's seismic infrastructure, only funded at 10% authorized level
- EarthScope (NSF) -- Major Research Equipment facility in President's FY03 request, dense temporal coverage of ground deformation
- Synthetic Aperature Radar mission (NASA) -- dense spatial coverage of ground deformation, component of EarthScope MRE
- Facilities alone insufficient, funding needed for operations, to fully exploit data, and for research yielding better understanding of natural systems

