Future Developments of the CSEP Testing Centers

Maria Liukis, Danijel Schorlemmer,Thomas H. Jordan and the CSEP Working Group

CSEP Version 11.1.0

- New evaluation tests
  - Residual analysis and goodness of fit test by R. Clements et al. (UCLA and USC)
  - Classical t-paired statistic (T-Test) and Wilcoxon signed-rank (W-Test) tests by David Rhoades et al. (GNS, ETH, NIED and USC)

CSEP Version 11.1.0

- Enhancements to current Testing Centers results viewer
  - Results hosted by SCEC
  - Web service to query data products

Future CSEP Software Development

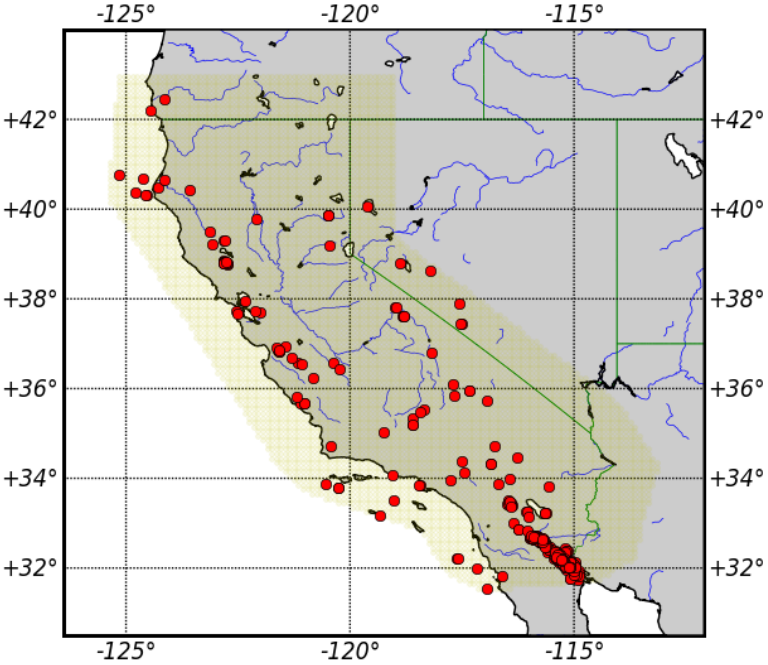
- Alarm-based tests should support comparison of alarm-based and rate-based forecasts
- Generate forecasts maps using Python's basemap package of matplotlib instead of GMT
- Running CSEP within VirtualBox
- Upgrade Python to 2.6

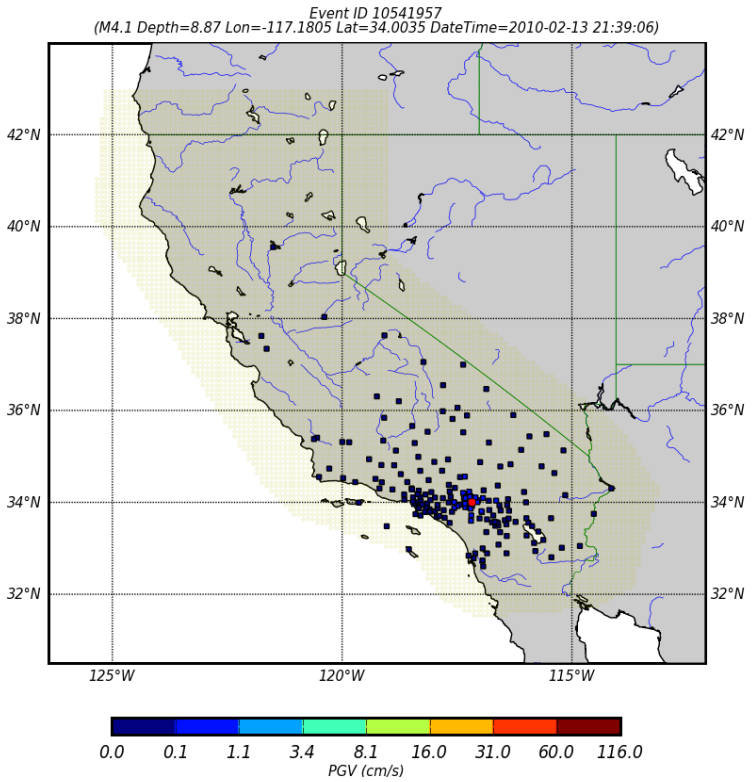
CSEP Future Testing Regions

- SCEC Testing Center
  - High resolution Global testing region
- Testing Center in Beijing
  - North-South seismic belt region
  - China
- Japan Testing Center
  - Japan Mainland testing region
  - Kanto testing region
- EU Testing Center
  - Greece testing region

CSEP Future Applications

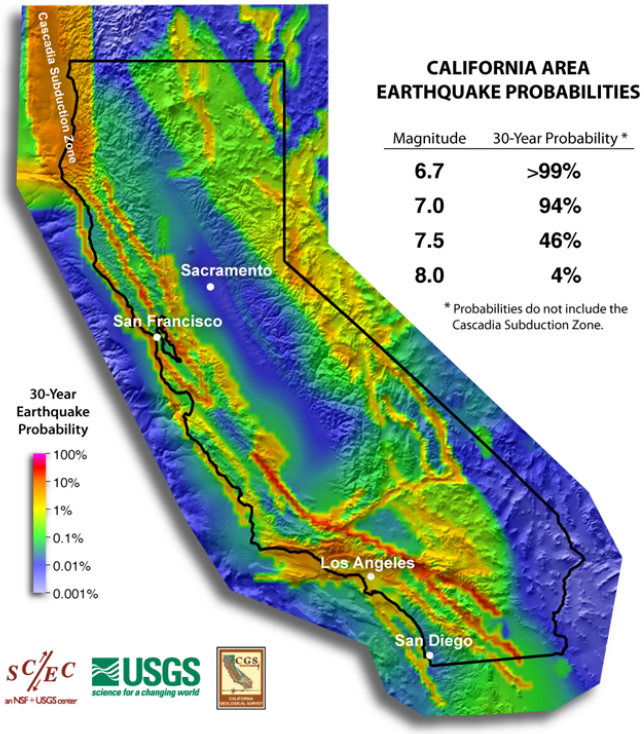
- Earthquake Early Warning (EEW) Testing Center at SCEC

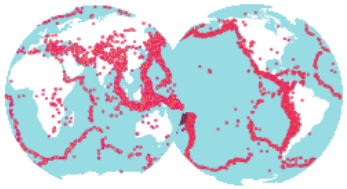




CSEP Future Applications

- Global Earthquake Model (GEM) Testing Center
- Evaluation of Uniform California Earthquake Rupture Forecast (UCERF), Version 3





GEM
GLOBAL EARTHQUAKE MODEL

Summary

- New features for generic CSEP distribution
- Expand testing regions
- Adopt CSEP testing center software by other projects