pyCSEP
VIRTUAL WORKSHOP

Testing Earthquake Forecasts with the pyCSEP Toolkit

Quick information

When:	23 March 2021 - 17.00CET/16.00GMT/8.00PST
Duration:	2 hours
Where:	https://zoom.us/my/csepmeetings
Preparation:	Follow the installation guide Download/clone the workshop material Answer the modeler's survey (pending) Bring your own probabilistic long-term forecast (optional)

Objective

Enable modellers to perform simple operations to evaluate the performance of their forecasts, using standard CSEP consistency and comparison tests.

Instructors

Bill Savran (USC), Kirsty Bayliss (Edinburgh), Toño Bayona (Bristol), Pablo Iturrieta (GFZ) & Max Werner (Bristol)

Learning outcomes

- Import, filter and visualise earthquake catalogue data from an authorised data source
- Understand CSEP formats for catalogues and forecasts
- Import and plot a spatial earthquake gridded forecast
- Evaluate an earthquake forecast with earthquake catalogue data by applying different consistency tests
- Compare the informativeness of multiple forecasts
- Visualise/plot the test results.

Agenda

17.00 – 17.05 Welcome & Introductions (Danijel Schorlemmer & Max Werner)
17.05 – 17.15 Summary of pyCSEP & goals of the tutorial (Bill Savran)
17.15 – 17.35 Guided Tutorial (2 streams??):
follow provided examples (either gridded or simulated cats)
17.35 – 17.45 Q&A / break
17.45 – 18.45 Independent Tutorial:
Complete these independent tasks (different period tests, different forecasts, different regions??)
18.45 – 18.55 Discussion, Q&A and Feedback
18.55 – 19.00 Next steps (hints for your own experiments; contributing/development)