

pyCSEP VIRTUAL WORKSHOP



Testing Earthquake Forecasts

The Collaboratory for the Study of Earthquake Predictability (**CSEP**) and **Work Package 7** of the **RISE** project cordially invite you to a virtual tutorial about testing earthquake forecasts with the pyCSEP software toolkit:

Quick information

When:	30 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
17.35 – 17.45	Q&A / break
17.45 – 18.45	Hands-on Tutorial
18.45 – 18.55	Discussion, Q&A and Feedback
18.55 – 19.00	Next steps (your own experiments, contributing/development)

Pre-workshop Trouble Shoot Clinic

If you encounter problems during the installation, you may either submit an issue on git:

<https://github.com/SCECcode/pycsep>

https://github.com/cseptest/pycsep_workshop_rise21

or you can drop by during an installation troubleshooting clinic:

- 25 March 2021 - 17.00 CET - 19.00 CET

- <https://zoom.us/my/csepmeetings>