



Session 30

Large-scale seismological experiments: Plans, results, and challenges

Conveners:

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Over the past twenty years, the seismological community has ventured from single station or local array installations for seismic monitoring to large scale seismic experiments that have been designed to target specific science questions. In the U.S., this started with the EarthScope project. In Europe, large-scale experiments included AlpArray and PACASE. The success of these past experiments, and the value of their data in answering other questions have encouraged new and even bolder experiments and endeavors. Current examples in the U.S. and Europe include the AdriaArray, the FEAR project, Utah FORGE, and the newly funded CRESCENT earthquake science center, as well as various LargeN deployments.

In this session, we aim to learn more about the goals and targets of these and other big science endeavors and projects in seismology. We specifically encourage abstracts that describe: challenges encountered in project implementation and "lessons learned"; new technologies developed as part of the project or that contribute to it; issues related to managing and processing large data volumes and datasets; scientific outcomes (for projects just finishing up, or past) and how they matched the goals, as well as serendipitous insights from the data; societal impacts, outreach, and citizen science aspects, interactions with stakeholders and decision makers (and lessons learned); and possible synergies between projects.

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