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SESSION 31- Advancing Paleoseismological Research for Earthquake Risk

**Reduction in Türkiye** 

Conveners

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**Session Description** 

Building a prepared and resilient society against earthquakes begins with the

fundamental step of analyzing and defining seismic hazards. In Türkiye, where numerous

active faults pose significant seismic threats, paleoseismological studies play a critical

role in understanding earthquake potential and reducing disaster risk.

This session aims to bring together all research efforts focused on active fault

investigations, paleoseismological data production, and their contribution to earthquake

risk mitigation. We invite contributions that explore the mapping of active faults, the

characterization of their seismic behavior, and the estimation of potential maximum

magnitudes and recurrence intervals under various scenarios.

Researchers working on the identification, analysis, and modeling of active faults across

Türkiye are encouraged to share their findings, methodologies, and insights. The session

seeks to foster collaboration, strengthen national databases on fault activity, and

support the development of science-based strategies for reducing earthquake risk and

enhancing community resilience.