

Advances in Active Faulting and Earthquake Hazards

Sitting across numerous tectonic domains, Aotearoa New Zealand hosts a wide array of active faults. Research that identifies active faults, characterises their structural, frictional and elastic properties, catalogues and monitors their seismic activity, and numerically models earthquake slip is integral to earthquake hazard risk reduction. This session welcomes contributions on all aspects of seismic hazard assessment, fault mechanics, and earthquake physics, including recent advances in understanding fault geometry, fault interactions, the interplay between seismic rupture, aseismic slip and slow slip events, earthquake rupture dynamics, paleoseismology, the seismic cycle, seismic wave propagation, and ground motion. We particularly welcome novel observations or innovative approaches to the study of active faulting and earthquake hazards, and we encourage contributions from early career scientists.