



Session 37

The collection, processing, homogenization, analysis and representation of multisource non-instrumental data on earthquake effects

Conveners:

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Non-instrumental seismological data in general need wide knowledge and the methodology of collection and analysis requires multidisciplinary approach. A large amount of information collected, the rapid acquisition times and the extension of the areas of origin, often involving more than one region, require an effort to integrate and homogenize macroseismic data. Continuing challenges are related to accessibility and sampling bias, uniformity of data collection and macroseismic assignments, new aspects of data collection (internet, phone, picture-based, smart speakers, etc.), cross-border data sharing and real-time access, and data quality control and assessments.

Hence, suitable contributions to this session include: studying earthquake effects; data aggregation, homogenization, and uncertainty assessments; different collection techniques; the fusion of data from multiple regions; development and application of real-time analytical methods through other statistical methods, including machine learning.