



Session 36

Assessment and exploitation of macroseismic intensity data: From historical investigation to seismic hazard and risk applications

Conveners:

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Macroseismic intensity data and their value are more and more recognized by the seismological and engineering communities and are increasingly used for several scopes and applications. Indeed, macroseismic data provide unique and invaluable information on ground shaking that may span hundreds of years and cover regions without dense instrumental networks.

Many types of investigations involve both the assessment and the exploitation of intensity data, from historical seismological research to seismic hazard and risk evaluations. Such applications need a deep understanding of both the value and the limitations of intensity data, and the development of specific methodologies.

As an initiative of the ESC working group on European historical earthquake data, this session aims at surveying the possibilities of both increasing and making profitable use of the wealth of intensity data today available for European earthquakes. In this perspective, the session welcomes both methodological studies and case histories. Possible contributions include, among others: historical earthquake investigations, intensity assessment and related uncertainty, problems in the application of macroseismic scales, estimation of earthquake parameters and catalogue compilation, intensity attenuation models and relationships with ground motion parameters, probabilistic seismic hazard analysis and testing, definition of ground shaking scenarios.

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