

Session 35 & 36

Macroseismic intensity data: from historical investigation to the assessment of seismic parameters, hazard and risk

Conveners:

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Description:

The session is focus on web-based citizen science, the discussion and dissemination of the know-how of the different methodologies developed and to the improvement of multidisciplinary approaches for deriving quantitative earthquake parameters (e.g. epicentral location, magnitude, seismogenic source, focal mechanisms). The methodologies range from historical and macroseismic data (both traditional and citizen seismology), instrumental (pre WWSSN era) and non-instrumental data (macroseismic and geological data, geological-structural and morphotectonic analyses). Contributions are welcome for near-real time data analysis, processing techniques and all initiatives for web-based data collection, representation and dissemination. Key topics are: data reliability, site effects, source parameters, rapid intensity assessment, web-based intensity and survey campaigns, correlation between data from different methods, contributions for seismotectonic characterization of earthquake-affected areas, validation of developed techniques.

Conveners:

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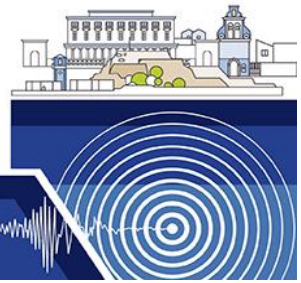
Macroseismic intensity data and their value are more and more recognized by the seismological and engineering communities and are increasingly used for several scopes and applications. Indeed, macroseismic data provide unique and invaluable information on ground shaking that may span hundreds of years 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.



39th
GENERAL ASSEMBLY OF THE EUROPEAN
SEISMOLOGICAL COMMISSION
ESC2024

22-27 September 2024
CORFU, GREECE



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.

*** The session is organized in the framework of ESC Working Group 01-12 "Archive of historical earthquake data for the European-Mediterranean area".**

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