
[JJ] Evening Poster | S (Solid Earth Sciences) | S-SS Seismology

[S-SS12]Seismicity

convener:Kei Katsumata(Institute of Seismology and Volcanology, Hokkaido University)

Thu. May 24, 2018 5:15 PM - 6:30 PM Poster Hall (International Exhibition Hall7, Makuhari Messe)

This session aims to improve our understanding on seismicity. Any contribution on behavior of earthquakes as a cluster, such as regional seismicity and aftershocks, are welcomed. We also welcome contribution on temporal and spatial interactions that control seismicity, and tectonic processes, and geological and thermal structures that regulate seismicity.

[SSS12-P11]Research on seismicity in Japan utilizing ultra-microearthquake data in the JMA unified earthquake catalog

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Keywords:seismicity, ultra-microearthquake, time-circle diagram

The JMA unified earthquake catalog contained more than 1 milion ultra-microearthquake hypocenter data for the past 20years. But the data has not been used mainly due to spatial and temporal incompleteness.

In this study, usefulness of the data for the research on seismicity in Japan has been proved , if we utilize them

adequately. The time-circle diagram (TC-map) method can be used for analysis of such large amout of hypocenter data.