
[JJ] Evening Poster | S (Solid Earth Sciences) | S-VC Volcanology

[S-VC41]Active Volcanism

convener:Yuta Maeda(Nagoya University), Takahiro Miwa(National research institute for earth science and disaster prevention), Yosuke Aoki(東京大学地震研究所, 共同), Takeshi Nishimura(Department of Geophysics, Graduate School of Science, Tohoku University)

Wed. May 23, 2018 5:15 PM - 6:30 PM Poster Hall (International Exhibition Hall7, Makuhari Messe)

This session discusses various aspects of active volcanisms including, but not limited to, recent and historical eruptions, various phenomena associated with the volcanic activities, underground structures of the volcanoes, and developments of new instruments based on geophysical, geochemical, geological, and multidiscipline approaches. We also welcome studies on understanding and predicting the transitions of the eruptive activities from observational, theoretical, and experimental approaches.

[SVC41-P14]Volcanic activity at Asama volcano from the past data

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Keywords:Asama volcano, number of earthquakes, type of earthquake, height of volcanic fume (volcanic fume index)

Volcano observation started in Asama volcano from 1911. Among these, we investigated volcanic activity by observational data from 1965 to 1990. In this survey we used the number of earthquakes, the type of earthquake, the height of the volcanic fume (volcanic fume index), volcanic glow and sulfur dioxide emissions (Ohta et al., 1990).

According to it, the eruption of 1973 and the eruption of 1982-1983 were different (Figure1). It is thought that this is due to the difference of eruption style of the magma eruption and the phreatic steam eruption. These results were compared recently (since 2002) eruption case and we will discuss about.

Acknowledgement: We express great thanks Kyushu University to use the sulfur dioxide data of Asama volcano.