

Glow luminance change at 1 second before an explosion of Sakurajima volcano

Koki Aizawa^{1*}, Akihiko Yokoo², Takeshi Tameguri³, Masato Iguchi³

¹Institute of Seismology and Volcanology, Faculty of Sciences, Kyushu University,, ²Aso Volcanological Laboratory Institute for Geothermal Sciences Graduate School of Science Kyoto Uni, ³Sakurajima Volcano Research Center, Kyoto University

We will present some movies that show the volcanic glow and its luminance change before an explosion of Sakurajima volcano, Japan. Since December 2011, we observed 11 events that show the abrupt glow luminance change at 1 second before an explosion. In this presentation, we will investigate the mechanism of the glow luminance change by comparing movies with infrasound, strain, and seismic data.