## **Japan Geoscience Union Meeting 2012**

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SVC50-P36

Room:Convention Hall

Time:May 24 15:30-17:00

## Pyroclastic fall deposit and eruptive mass of 2011 eruption from Shinmoedake Volcano, Kirishima Volcanic Group

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Original data for pyroclastic fall deposit from the Shinmoedake Volcano at the eruption of 2011, allows us to estimate its eruptive mass as ca. 29 MT. Our data are obtained from field survey measurement at the distant terrestrial region from the volcano performed within ten months after the eruption and remote sensing investigations by high altitude-LiDAR, unmanned helicopter and satellite observations. We integrated distribution function of area and mass as logarithmic function resulting ca. 29 MT for whole deposit. We are very much grateful for providing original data from TSUTSUI T. (DIA Consultants Co., Ltd.), TAJIMA Y. (Nippon Koei Co., Ltd.), TAKEUCHI S. and TOSHIDA K. (Central Research Institute of Electric Power Industry), HASENAKA T. (Kumamoto University), Japan Meteorological Agency and Public Works Research Institute.

Keywords: Kirishima, Shinmoedake, AD2011, eruption, eruptive mass, pyroclastic fall deposit