

Determination of transportational and depositional mechanisms by image analysis of fine-grained portion of pyroclastic deposits

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We developed a method to determine transportational and depositional mechanisms by image analysis of fine-grained portion of pyroclastic deposits. We have succeeded to distinguish pyroclastic flow and pyroclastic surge using many parameters that obtained by image analysis. However, we could not discriminated pyroclastic flow and lahar using our limited number of pilot samples. We are planning to apply this method for drill core samples of Mt. Unzen volcano.