

## Overview of interpretation microtopography of volcano

Tatsuro Chiba<sup>1\*</sup>, Kenichi Arai<sup>1</sup>, Hisashi Sasaki<sup>1</sup>, Hiroshi Kishimoto<sup>1</sup>, Shiho Hirotani<sup>1</sup>

<sup>1</sup>Asia Air Survey Co., Ltd.

For disaster prevention and mitigation of disasters caused by the volcanic eruption is an effective measure to clarify the characteristics of the volcanic activity in the past, to know in advance the range of high-risk and hazard maps. To do this, grasp of past performance is a challenge for each volcano. Sediments that make up the surface of the volcano What kind of thing is, somewhere, how far has reached the position of the crater, the volume it is important to know how much. However, the eruption interval is covered with trees for longer, even in aerial photographs and field survey, it was difficult to grasp has been often.

Detailed data of the terrain recent advances in airborne LiDAR, and to eliminate the influence of the trees have been able to obtain. In addition, the use of three-dimensional map of red as a method to represent data microtopography of LiDAR-DEM, the use of field survey and interpretation microtopography progresses, the discovery of volcanic activity and vent, previously unknown.

With interpretation and field survey shows an example of a red relief image map using laser 1mDEM . We want to show a manual of interpretation microtopography with red relief image map.

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