

Quick analysis system for debris flow hazard area after volcanic eruption

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After the eruption, it is well known that rainfall is more likely to trigger debris flow. In order to mitigate debris flow disaster, it is necessary to know the distribution of volcanic ash and to know the inundation area for the post-eruption debris flow. The authors have developed the quick analysis system for estimation of the debris flow inundation area. In the system, the number of the critical parameters are limited as far as possible depending on the sensitivity for the final results. It was actually utilized at the time of the 2011 Kirishima Eruption and succeeded in showing debris flow inundation area for 35 torrents almost within a week.

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