

Rapid detect and analysis of earthquake-induced secondary mountain disasters based on multi-sensor remote sensing

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田 兵偉^{1*}, 小池 克明¹

Bingwei Tian^{1*}, Katsuaki Koike¹

¹熊本大学自然科学研究科

¹GradGrad. Sch. Sci&Tec., Kumamoto Univ.

The China earthquake measured at 8.0Ms on May 12th, 2008 induced large quantities of secondary mountain disasters such as collapse, landslides, debris flows and barrier lakes. These disasters occurred and more seriously formed disaster chains made very destructiveness after the earthquake and thousands of aftershocks. This research investigated the disaster chains by multi-sensor remote sensing imagery to understand disaster chains patterns,

temporal-spatial sequence and prevent the disasters. Exploiting the real-time multi-sensor remote sensing imagery before and after earthquakes, we can discover the disasters induced by earthquake and aftershocks, then acquire the distributions of these disasters and rapidly analysis and assess the disaster chains to prevent possible disaster consequences.

Keywords: The China earthquake, Multi-Sensor, Remote Sensing, Secondary mountain disasters

