

InSAR-image observation of landslide surface deformation triggered by the 2008 Iwate-Miyagi Nairiku Earthquake

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SAR (synthetic aperture radar) is a microwave imaging system used to monitor Earth's surface. We found that fringes in the image has the passibility to detect local landslide surface deformation, apart from the deformation caused directly by the earthquake-induced crustal dynamics. And the detected local deromation was considered in overlaying Kurikoma volcanic land condition map (geomorphological map) published by GSI. It was also found that the deformation area is in harmony with the area of pyroclastic deposition from Kurikoma volcano.

Keywords: earthquake, Iwate-Miyagi Nairiku earthquake, landslide, SAR