



Earthquake disaster monitoring with ALOS/PALSAR observation

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Phased array type L-band Synthetic Aperture Radar(PALSAR) boarded on Advanced Land Observing Satellite(ALOS) provides high resolution (about 10 m pixel spacing) data even in the night and severe weather conditions, which is useful to monitor natural disasters.

A terrible earthquake with 6.3 magnitude struck in central Italy at 0332 (local time) on 6th April 2009, there was huge damage to the city of L'aquila, the village of Onna, and around the region of Abruzzo.

PALSAR observation was conducted at 2135(local time) on 10 April 2008 around Abruzzo, and we investigated L'aquila and Onna on 29th and 30th April by getting permission of the region fire authorities (VVF Terni - Vigili Del Fuoco and VVF Roma - Vigili Del Fuoco).

This research will present these observation and investigation results and discuss effective algorithm to estimate damage area by an earthquake with ALOS/PALSAR observation.