
STT072-P10

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Analyses of crustal movement in and around Mt. Kuju in Kyushu by the SAR interferometry

Kouhei HIGASHIURA^{1*}, Shigeki KOBAYASHI¹

¹Tokai University

We carried out differential interferometric SAR analyses for JERS-1 SAR and ALOS PALSAR data in and around Mt. Kuju, in Kyushu, NW Japan. Time series of differential interferograms in and around Mt. Hosho, which erupted on 11 Oct. in 1995, from 1995 to 1998, and 2006 to 2009 were obtained. Remarkable pattern of the line-of-sight distance change was observed in interferograms at Mt. Hosho and shows continuous crustal subsidence. We estimated its volumetric change and depth of the source by using mogi model.

Keywords: SAR interferometry, Mt. Kuju, Mt. Hosho, JERS-1 SAR, ALOS PALSAR