

## The Active volcanoes in Japan as viewed from ALOS PALSAR Interferometry

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CCPVE (Coordinating Committee for Prediction of Volcanic Eruption) revised the definition of active volcano as 'volcano which erupted in the past 10,000 years or has active fumaroles' in January 2003, and selected 108 active volcano in Japan (JMA ed., 2005).

In this study, we tried to analyze crustal deformation for these active volcanoes, using InSAR of ALOS 'Daichi' launched in February 2006. ALOS has L-band SAR (PALSAR), which is not affected by the vegetation, and the interference is good even in the mountainous area. We could obtain good interferometry images, where the perpendicular baseline distances were around 1km. We mainly selected the data set captured on summer seasons to avoid the influence of snow. Although the noise from the effect of the water vapor remains, significant crustal deformations weren't detected except Ioto and Unzendake volcanoes.

Some of PALSAR DATA using this report were prepared by ALOS 'Daichi' Domestic Demonstration on Disaster Management Application that CCPVE played a key role partly. Also, some of PALSAR DATA were prepared by PIXEL (PALSAR Interferometry Consortium to Study our Evolving Land surface). PALSAR DATA belongs to METI/JAXA (Ministry of Economy Trade and Industry/Japan Aerospace Exploration agency). We would like to thank Dr. Shimada (JAXA) for the use of his SIGMA-SAR software.