

Application of PS-InSAR analysis to Izu-Oshima volcano, using ALOS/PALSAR

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We performed PS-InSAR analysis at Izu-Oshima volcano, based on L-band ALOS/PALSAR data. We used the StaMPS software, and applied it to both ascending and descending track. Using 5 years' long PALSAR data, we were able to derive the secularly inflating deformation signals that are consistent with the GEONET GPS data. While it has been pointed out before, we could also confirm the subsiding signals around the caldera region. In view of the PALSAR-based time series data, the subsidence near the caldera does not appear to evolve uniformly over time, but we will need to evaluate the measurement precisions more rigorously.

Keywords: Izu-Oshima volcano, crustal deformation, PSInSAR, ALOS/PALSAR