

Surface deformation in Izu-Oshima detected by InSAR time-series analysis

Masayuki Yamanaka^{1*}, MORISHITA, Yu¹

¹Geospatial Information Authority of Japan

InSAR time series analysis is one of the techniques for measuring the time variation of a small ground surface deformation.

There are a number of GPS continuous observation stations in Izu-Oshima, where the crustal deformation has been detected in detail. We performed InSAR time series analysis in Izu-Oshima using ALOS/PALSAR data and compared the results with the GPS continuous observation data. The obtained deformation by InSAR time series analysis was basically consistent with the results of GPS.

Keywords: InSAR time-series analysis, Izu-Oshima, ALOS/PALSAR