

## Study of ground deformation in Kanto region detected by InSAR

Akira Suzuki<sup>1\*</sup>, Basara Miyahara<sup>1</sup>, Yu Morishita<sup>1</sup>

<sup>1</sup>GSI of Japan

Geospatial Information Authority of Japan (GSI) had conducted regular D-InSAR analysis of ALOS/PALSAR data and monitored crustal deformation caused by volcanic activities and land subsidence. The deformation caused by land subsidence within a range of a frame had been detected accurately by using a stacking technique which reduces atmospheric noises. Here we enlarge the analyzed area to Kanto region by combining several scenes and evaluate the accuracy. We also report the results of InSAR time series analysis in this region.

Keywords: InSAR, Time series analysis, Stacking, Kanto region