

Monitoring of crustal and ground deformation with Advanced Land Observation Satellite

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Geographical Survey Institute (GSI) routinely analyzes InSAR observation data of an L-band synthetic aperture radar (PAL-SAR) on Advanced Land Observation Satellite Daichi(ALOS) for monitoring crustal and ground deformation by earthquake, volcano, subsidence and landslide. Particularly, volcanoes and subsidence areas in Japan are the targets of routine analysis. And, when disasters occur inside and outside the country, we submit observation requests to JAXA for urgent analysis.

After the initial calibration/validation stage, GSI carried out InSAR analysis in some areas. Those results verified than coherence of Daichi is better than JERS-1. We introduce those results and an effort of the collaboration with GPS and leveling.