# Monitoring Land-cover and Its Changes by ALOS/PALSAR Polarimetric Interferometry

Masato Ohki[1*], Masanobu Shimada[1]

[1]Japan Aerospace Exploration Agency

We report results of land-cover monitoring and land-cover change detection by ALOS/PALSAR polarimetry data. We applied various polatimetry and polarimetric interferometry analysis methods to the ALOS/PALSAR polarimetric data and evaluated its capabilities for monitoring land-cover characteristics. The accuracy of Land-cover classification by polarimetric interferometry is better than that by polarimetry. Interferometric parameters were turned out to enables us accurate land-cover monitor. In particular, water, forest and urban areas are accurately classified by the polarimetric-interferometric classification. Polatimetric interferometry approach was also found to be effective to detect land-cover change.

Keywords: SAR, ALOS/PALSAR, land-cover classification, change detection, polarimetry, polarimetric interferometry