



## **Post disaster monitoring for the Great East Japan Earthquake with a new L-band airborne SAR “Pi-SAR-L2”**

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A new L-band airborne SAR, Polarimetric and interferometry Synthetic Aperture Radar with L-band type-2 (Pi-SAR-L2) was developed in April 2012 by Japan Aerospace exploration Agency(JAXA). Pi-SAR-L2 employs a L-band with a band width of 85 MHz (1,215 – 1,300 MHz) with a peak power of 3.5 kW boarded on the Galfstream II. Pi-SAR-L2 conducted its first acquisitions for calibrations and validations over Tomakomai, Hokkaido, where is a test site with some corner reflectors in April 2012.

The Great East Japan Earthquake with a magnitude 9.0 occurred at 14:46 on 11 Mar. 2011 and terribly big Tsunami attacked Tohoku district after the earthquake. The tsunami caused huge damage along its coast in Tohoku.

Pi-SAR-L2 acquired these post disaster regions in Fukushima and Miyagi Prefectures along the coast on the way to Hokkaido in April 2012, some region still remain flooded area and debris caused by Tsunami.

We will present Pi-SAR-L2 systems and specifications, and discuss monitoring these damages.