

In-orbit Payload Demonstration of Circularly Polarized SAR

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Recently, we develop small circularly polarized SAR satellite, where the flight test of airborne circularly polarized SAR was success, and we plan to do the in-orbit payload demonstration of this circularly polarized SAR in the next step. Small circularly polarized SAR satellite is 100 kg microsatellite with circularly polarized synthetic aperture radar (CP-SAR) sensor onboard that is originally developed by Chiba University. This in-orbit satellite system has the objective to realize high level education and research on global environmental and disaster monitoring, i.e. active fault, landslide, earthquake, volcanic eruption etc, and data analysis.

Keywords: Synthetic Aperture Radar, Circular polarization, Remote sensing

