

Description of Research Project

The overall goal of the PolarCube mission, is to collect Earth surface and atmospheric temperature data, using a passive microwave radiometer operating at the resonant frequency of molecular oxygen. The objective is to demonstrate a method for collecting brightness temperature spectra at high spatial resolution and low cost, to be evaluated for remote sensing science and technology applications.

The Experimental License requested, is necessary to authorize radio transmission of data from the PolarCube satellite to the ground station at the University of Colorado in Boulder.