

Description of Space Dynamics Laboratory CIRiS Research Project

The Compact Infrared Radiometer in Space (CIRiS) is a thermal infrared radiometric imaging instrument. The mission objective is technology demonstration for improved on-orbit radiometric calibration for Earth imaging. CubeSat constellations of CIRiS and derivative instruments offer an affordable approach to achieving revisit times as short as one day for diverse applications, including water resource and drought management, cloud, aerosol, and dust studies, and land use and vegetation monitoring.

The Experimental License requested, is necessary to authorize radio transmission of commands and data between the CIRiS satellite and mission operations.