



Space Dynamics
LABORATORY
Utah State University Research Foundation

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CIRiS Government Project Description

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1. INTRODUCTION

There has been and continues to be a need for some new technologies to be validated in space prior to use in a science mission. This is necessary because the space environment imposes stringent conditions on components and systems, some of which cannot be fully tested on the ground or in airborne systems. The **In-Space Validation of Earth Science Technologies (InVEST)** program element is intended to fill that gap. Validation of Earth science technologies in space will help reduce the risk of new technologies in future Earth science missions. This program seeks to advance the readiness of existing Earth Science related technology and reduce risks to future missions through space flight validation.

2. OVERVIEW

The CIRiS (Compact Infrared Radiometer In Space) program was awarded as part of the InVEST-15 solicitation, and will demonstrate calibration stability of a microbolometer in space and the use of carbon nanotube black bodies in space. The contract number of the award is NNX16AC18G. The NASA Earth Science Technology Office made the award in an effort to raise the technology readiness level of technologies that are applicable to future earth science and operational earth science missions.

3. GOVERNMENT CONTACT

Contracting agency: NASA

Contract number: NNX16AC18G

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