



# NOAA's Deep Space Climate Observatory (DSCOVR) mission Quick Reference Sheet



**WHAT IS DSCOVR?** The Deep Space Climate Observatory, or DSCOVR, is a spacecraft that will orbit between Earth and the sun, observing and providing advanced warning of extreme emissions from the sun (known as Coronal Mass Ejections of CMEs) which can affect power grids, communications systems, and satellites close to Earth. From its post at the Lagrange point 1 (or L1), approximately one million miles from Earth, DSCOVR will also observe our planet and provide measurements of the radiation reflected and emitted by Earth and images of the sunlit side of Earth for science applications.

The DSCOVR mission is a partnership between NOAA, NASA and the U.S. Air Force. NOAA will operate DSCOVR from the NOAA Satellite Operations Facility, process data at the agency's Space Weather Prediction Center for distribution to users within the United States and around the world. The data will be archived at NOAA's National Geophysical Data Center. NASA received funding from NOAA to refurbish the DSCOVR spacecraft and its solar wind instruments, develop the ground segment, and manage launch and activation of DSCOVR. The satellite also hosts NASA-funded secondary sensors for Earth and space science observations. The Earth science data will be processed at NASA's DSCOVR Science Operations Center and archived and distributed by NASA's Atmospheric Science Data Center. The Air Force funds and oversees the launch services for the spacecraft.

DSCOVR will be approximately 570 kg at launch and has dimensions of 54 by 72 inches. The spacecraft bus is equipped with two deployable solar arrays, a propulsion module, boom, and high-gain antenna.

**MISSION WEBSITE:** <http://www.nesdis.noaa.gov/DSCOVR>

#### INSTRUMENTS:

**PlasMag:** <http://1.usa.gov/1KtwMRa>

**NISTAR:** <http://1.usa.gov/1ASIW1X>

**EPIC:** <http://1.usa.gov/1yLFoPI>

#### PHOTOS:

**NOAA FLICKR GALLERY:** <http://bit.ly/1I3HImE>

**NASA FLICKR GALLERY:** <http://1.usa.gov/1xRgOeN>



**PROGRAM OVERVIEW:** <http://www.nesdis.noaa.gov/DSCOVR/mission.html>

#### PUBLIC AFFAIRS CONTACTS:

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**TEAM:** <http://1.usa.gov/1wDvUA1>

#### VIDEOS:

- 1) Deep Space Climate Observatory Satellite-Update: [http://youtu.be/akM4WmGJ\\_j8](http://youtu.be/akM4WmGJ_j8)
- 2) B-roll Video shows technicians stowing the solar arrays after a deployment test: <http://1.usa.gov/1xZbOGt>
- 3) Living With Space Weather: GOES-R video: <http://youtu.be/hPiy4x5z0GI>
- 4) NASA | Comparing CMEs: <http://youtu.be/cLLq6pIMjU0>

**LOGO:** 2085px X 1322px; 8mb: <http://1.usa.gov/14bk7B3>