Seeing Our Vision, Achieving Our Mission, It's Our Challenge

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GSFC Heliophysics Projects Division

NASA

The NASA Vision

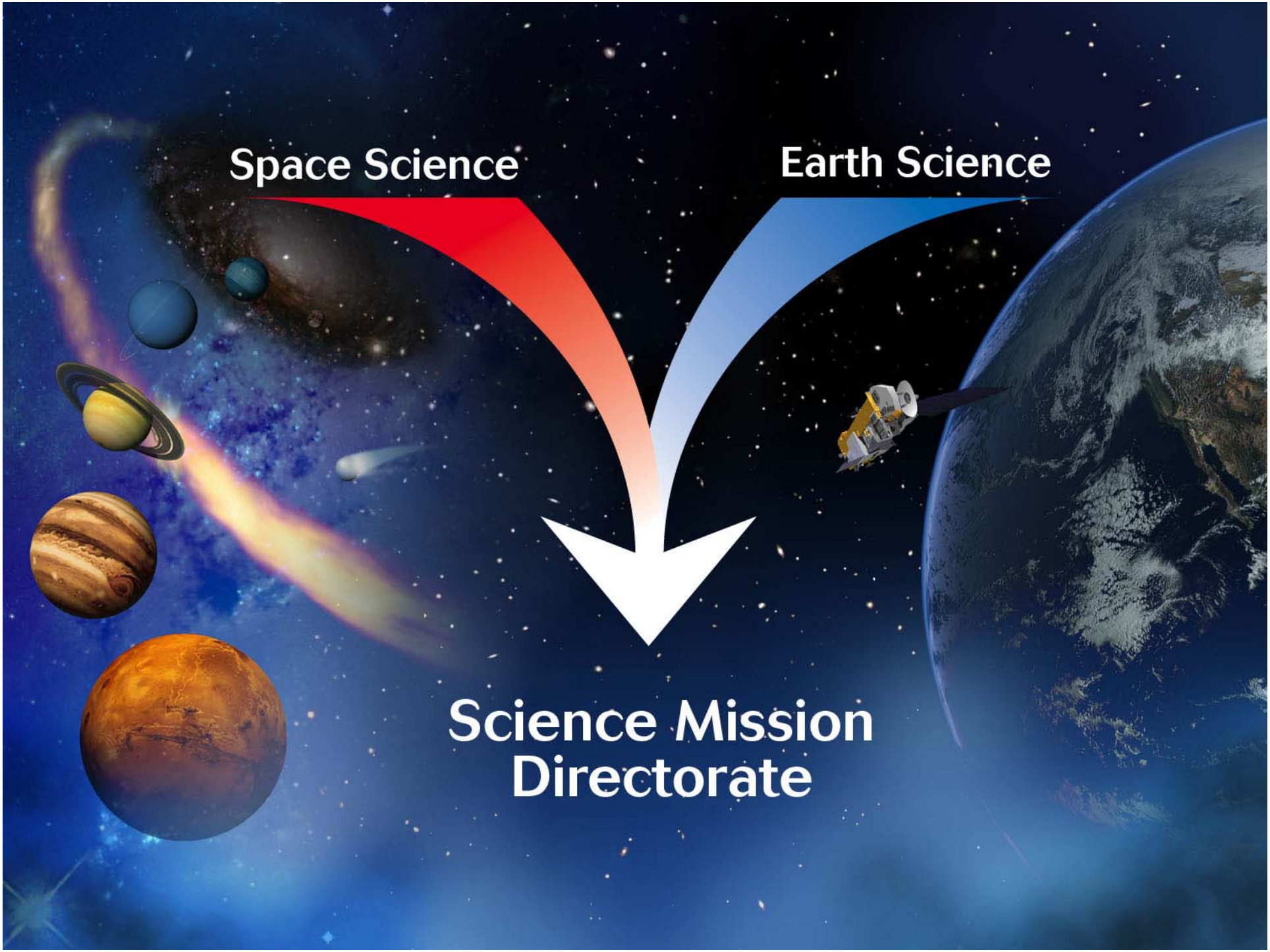
To improve life here,
To extend life to there,
To find life beyond.

The NASA Mission

To understand and protect our home planet,
To explore the universe and search for life,
To inspire the next generation of explorers
…as only NASA can.

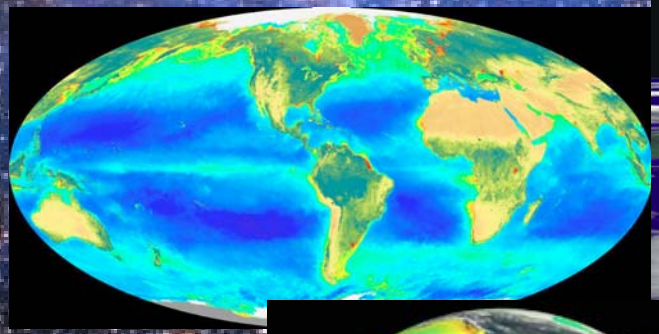
NASA Field Centers

17,000 civil servants and thousands of contractors in the private sector

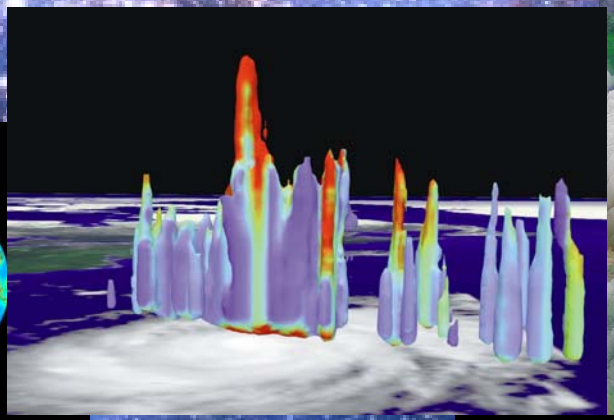

Space Science
Earth Science
Science Mission
Directorate

Earth Science Achievements

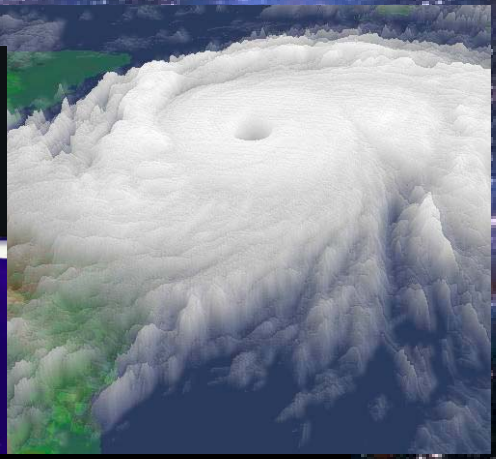
SeaWiFs
Global
Biosphere



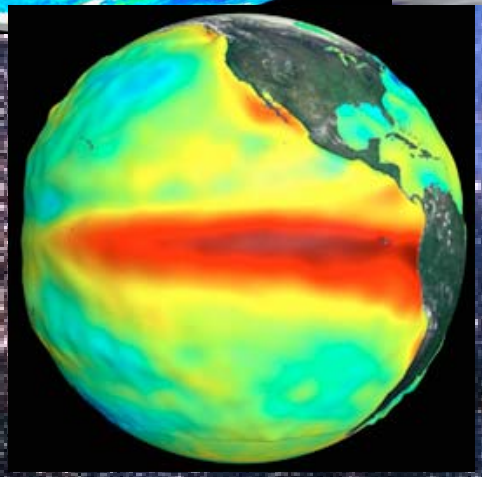
TRMM
Hurricane Bonnie



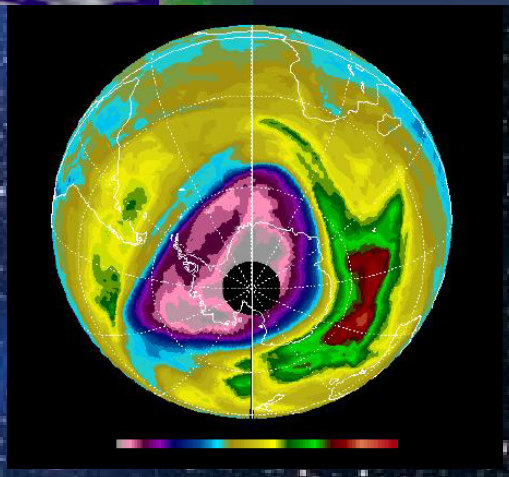
GOES-9
Hurricane Mitch

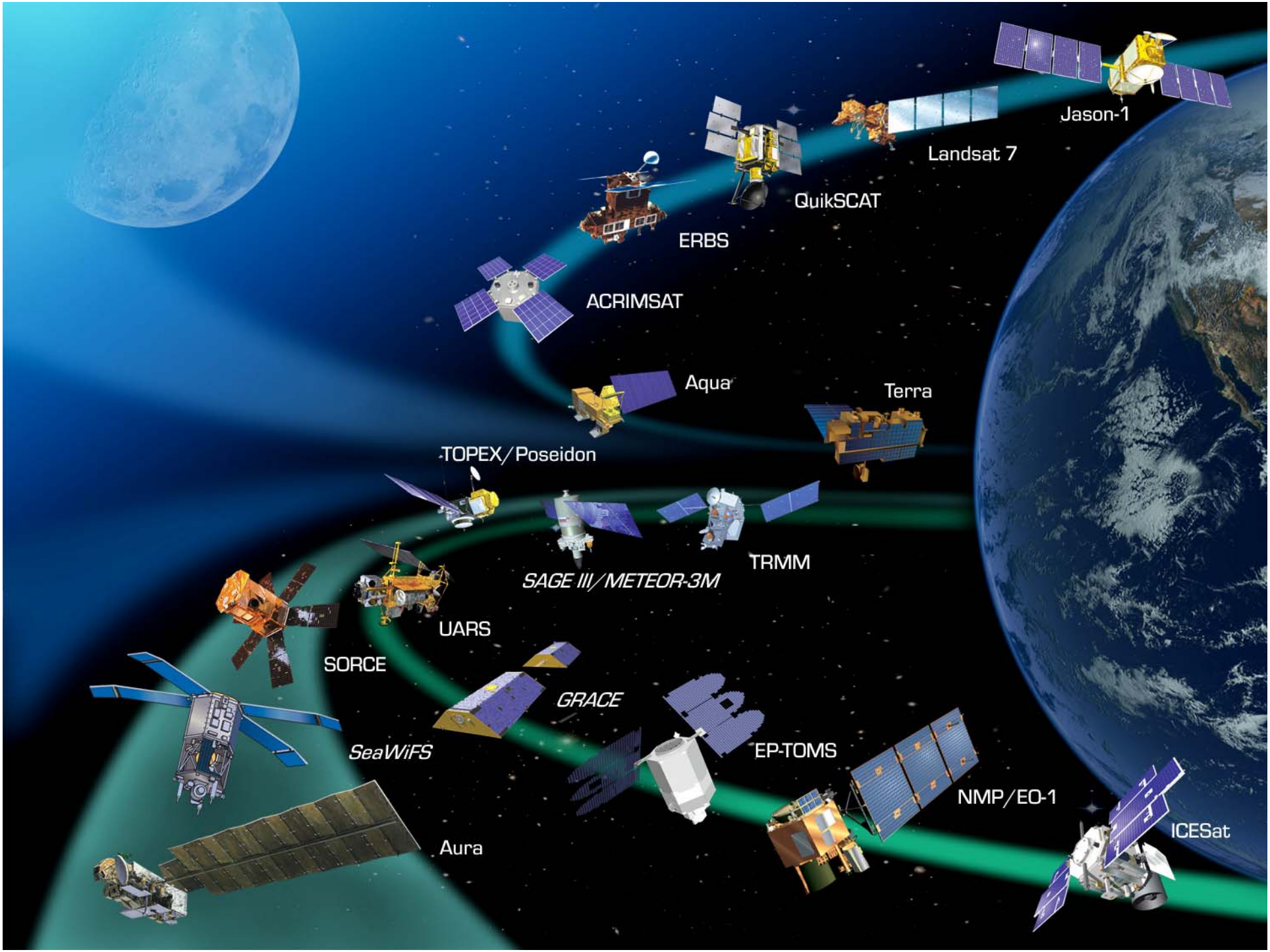


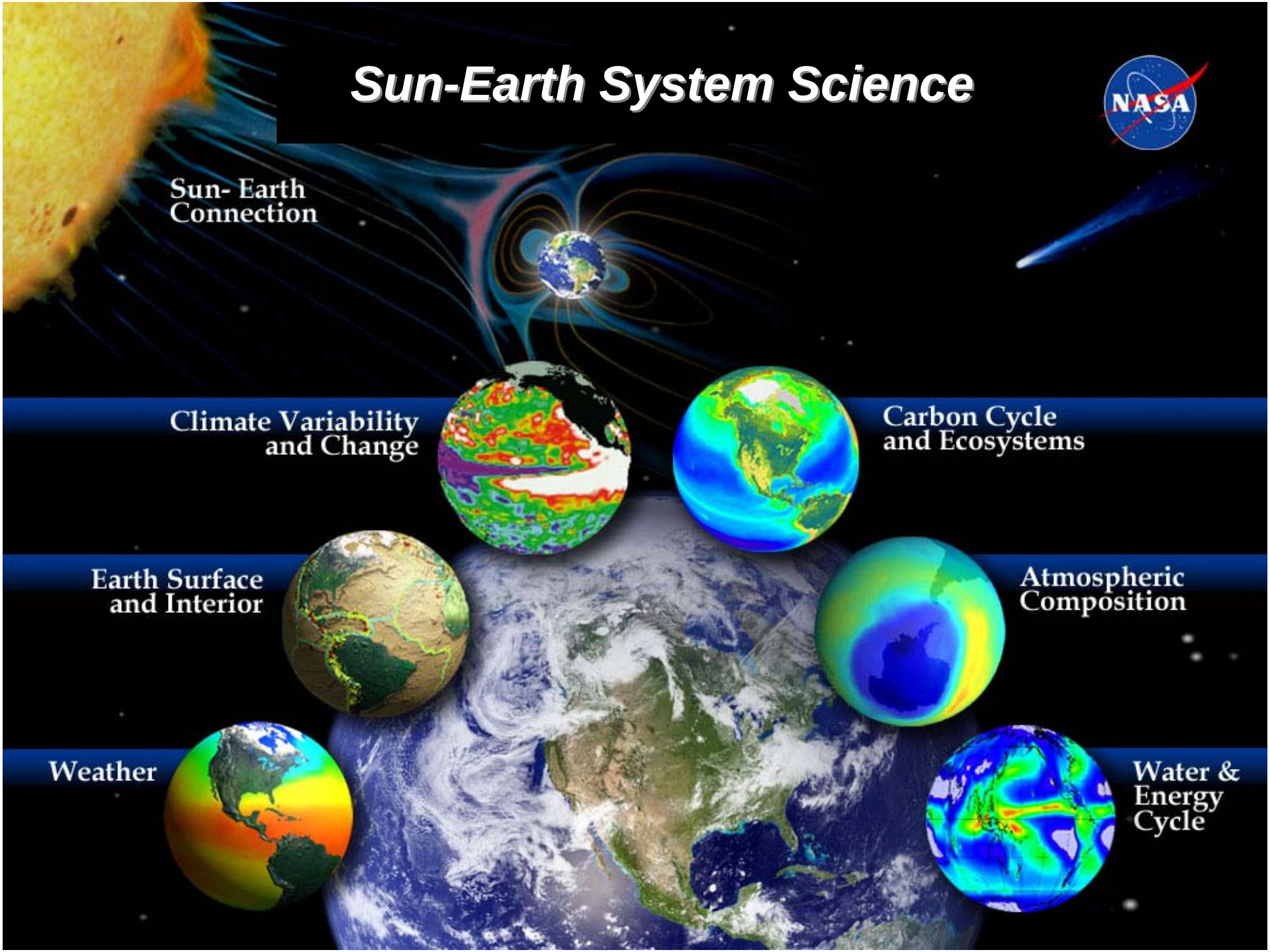
SeaWiFs
El Niño



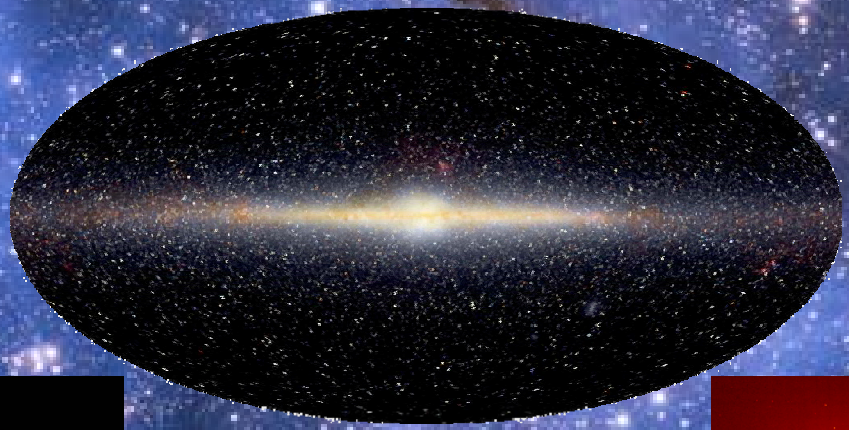
TOMS
Ozone Hole



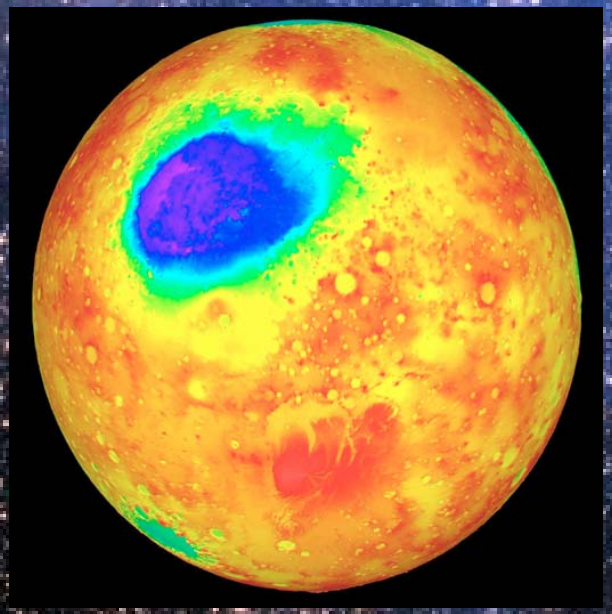

Jason-1
Landsat 7
QuikSCAT
ERBS
ACRIMSAT
Aqua
Terra
TOPEX/Poseidon
TRMM
SAGE III/METEOR-3M
UARS
SORCE
GRACE
SeaWiFS
EP-TOMS
NMP/EO-1
ICESat
Aura


Sun-Earth System Science
NASA
Sun- Earth Connection
Climate Variability and Change
Carbon Cycle and Ecosystems
Earth Surface and Interior
Atmospheric Composition
Weather
Water & Energy Cycle

Space Science Achievements

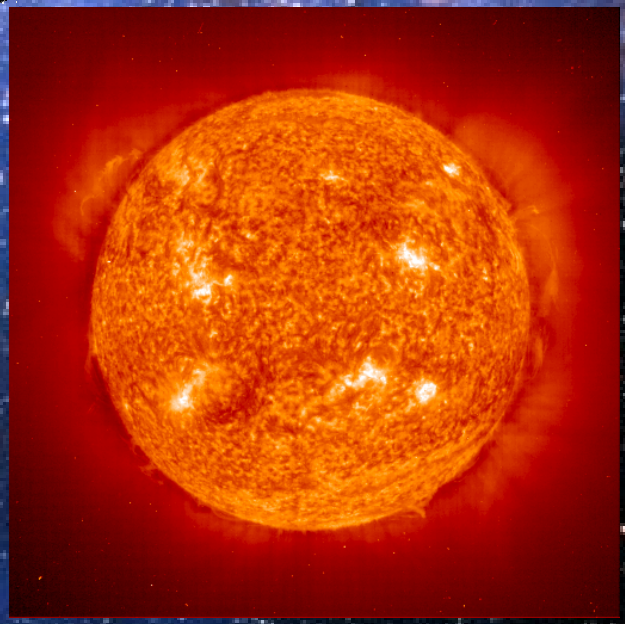


COBE
Image of the Milky Way



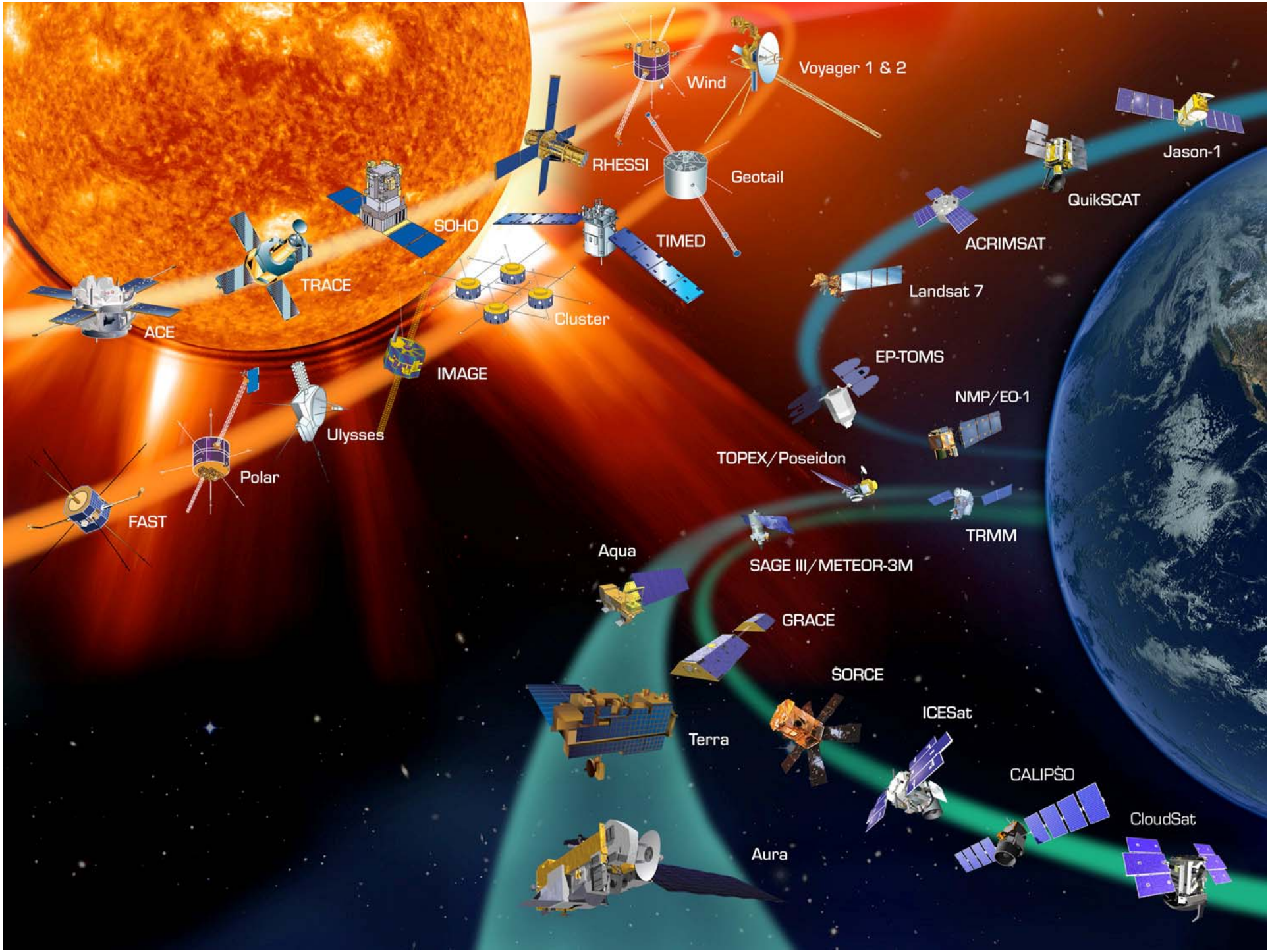
MOLA
Image of Mars

Coronal Mass Ejections



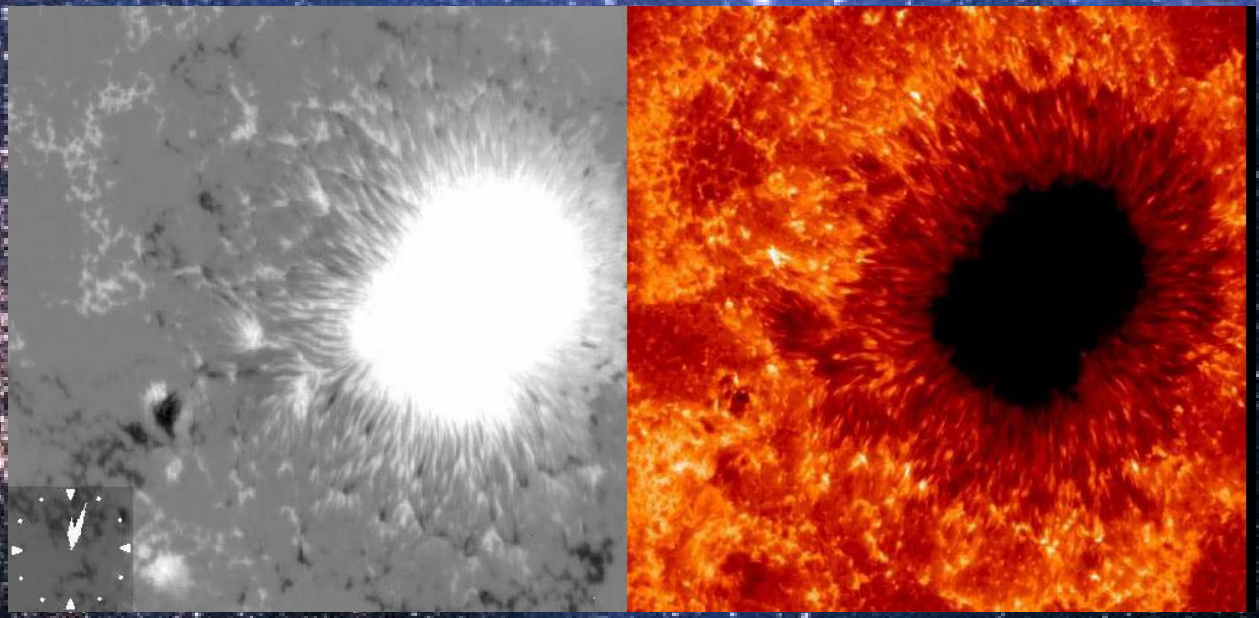
SOHO EIT
Image of the Sun

www.nasa.gov


Wind
Voyager 1 & 2
RHESSI
Geotail
Jason-1
QuikSCAT
SOHO
TIMED
ACRIMSAT
TRACE
Landsat 7
Cluster
ACE
IMAGE
EP-TOMS
NMP/EO-1
Ulysses
TOPEX/Poseidon
Polar
TRMM
FAST
SAGE III/METEOR-3M
Aqua
GRACE
SORCE
ICESat
Terra
CALIPSO
CloudSat
Aura

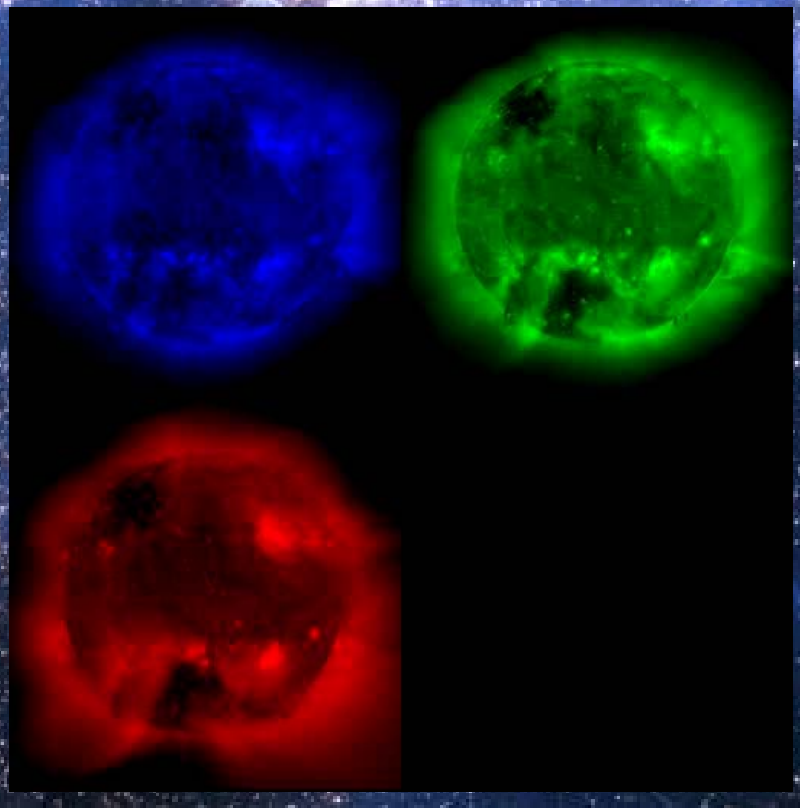
HINODE (Solar-B)

- Hinode (formerly known as Solar-B) is a Japanese ISAS mission proposed as a follow-on to the highly successful Japan/US/UK Yohkoh (Solar-A) collaboration. The mission consists of a coordinated set of optical, EUV and X-ray instruments that will study the interaction between the Sun's magnetic field and its high temperature, ionized atmosphere. The result will be an improved understanding of the mechanisms which give rise to solar magnetic variability and how this variability modulates the total solar output and creates the driving force behind space weather. (Launch Date: 9/23/06)



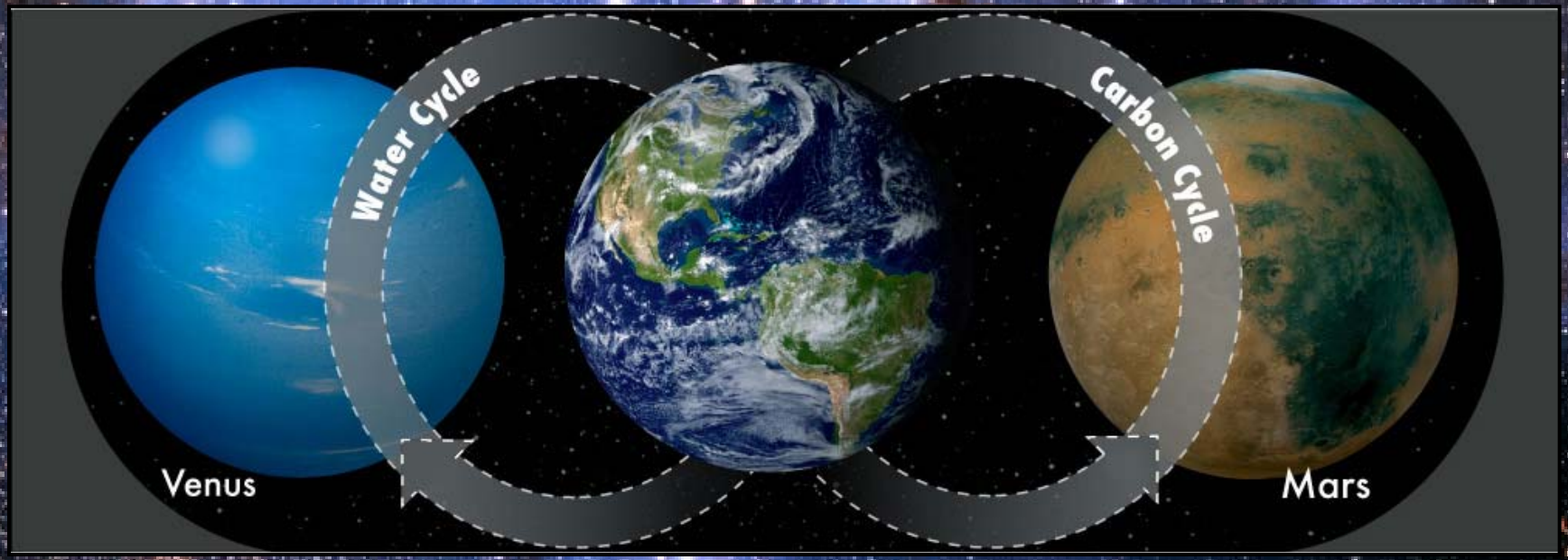
STEREO

- Twin Spacecraft Swing Past Moon, Preparing for 3-D Solar Studies
  - NASA's twin STEREO spacecraft completed a series of complex maneuvers Sunday to position the spacecraft in their mission orbits. The spacecraft will be in position to produce the first 3-D images of the sun by April.



A System of Systems

NASA Studies Planets…



- Runaway greenhouse ::
  No water cycle to remove carbon from atmosphere

Earth
Harbor of Life

- Loss of carbon ::
  No lithosphere motion on Mars to release carbon

…and None So Thoroughly as Planet Earth!

James Webb Space Telescope

- The James Webb Space Telescope is a large, infrared space telescope designed to study the earliest galaxies and some of the first stars formed after the Big Bang. Proposed launch date of August 2011.