

Science Mission Directorate Fully Supports NASA's Mission

Understand and Protect Our Home Planet by using our view from space to study the Earth system and improve prediction of Earth system change



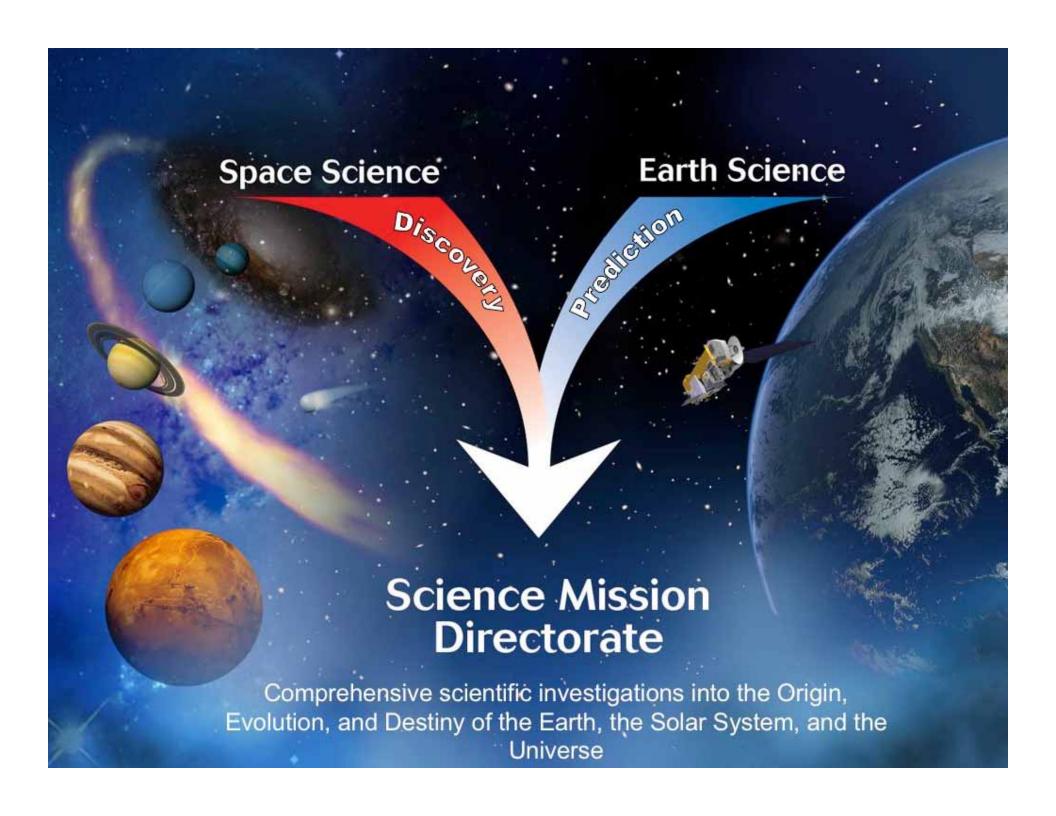
Explore the Universe and Search for Life by continuing scientific investigations into the origin, evolution, and destiny of the universe and our solar system, and by applying our scientific understanding of the Earth system to the identification and study of Earth-like planets around other stars



Inspire the Next Generation of Explorers by providing Earth and Space science content and training to educators, and by sponsoring the education and early careers of Earth scientists, astronomers, physicists...







Aura Launched!

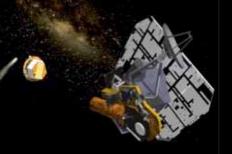
2004 Science Mission Highlights



Messenger Launched!



Deep Impact Launched!





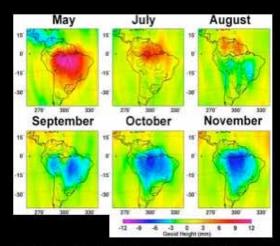
Genesis samples returned



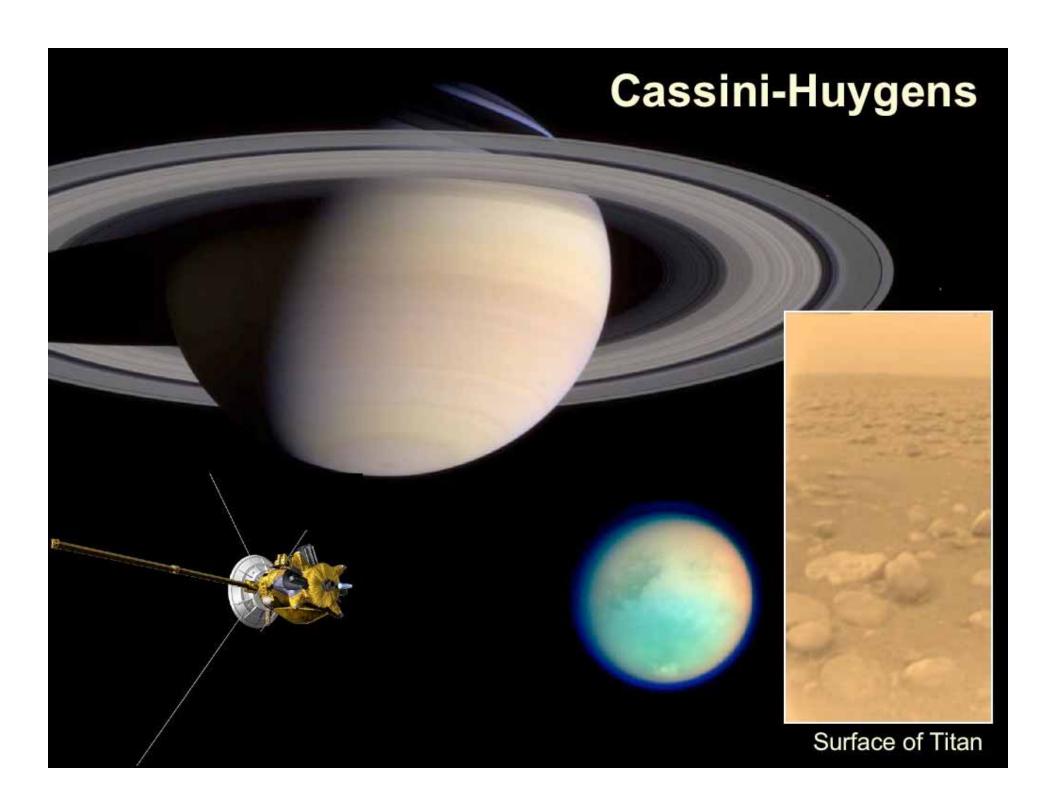
Spitzer lifts the veil on the dark and cold universe



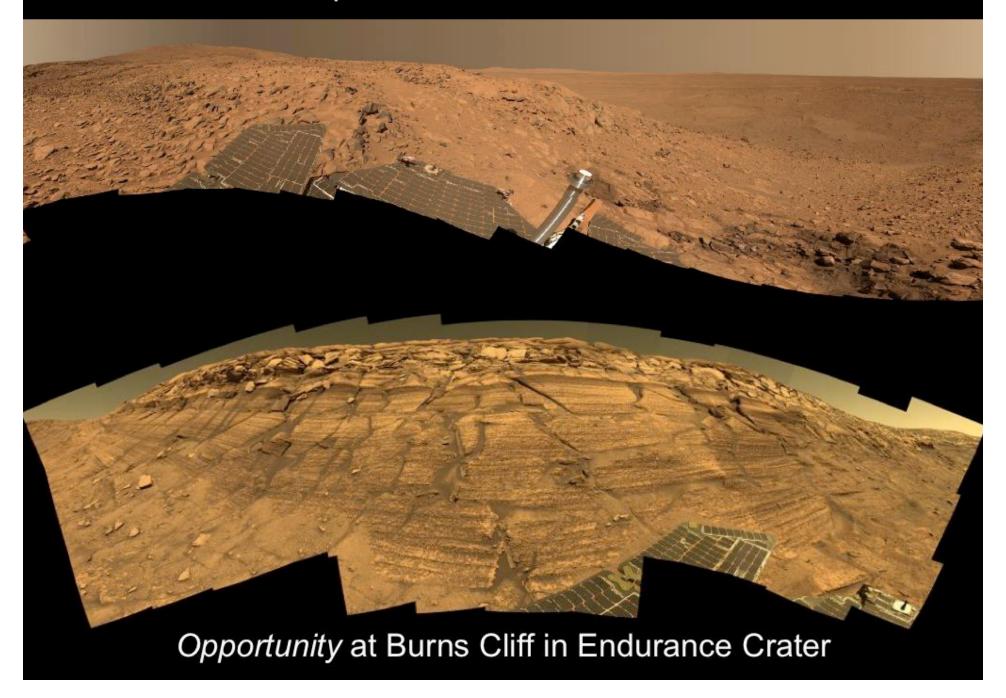
Stardust encounters Comet Wild 2



GRACE: Finding Water from Space



Spirit at the Columbia Hills



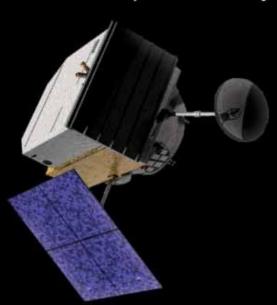


- In coordination with ESMD, the Mars Program Office conducted a study on the measurements, technologies, and infrastructure needed for Mars Human Precursor missions at Mars
- Mars Reconnaissance Orbiter will launch in August 2005
 - will deliver hyper-spectral and sub-meter resolution imagery of the Martian surface, telling us where to target future exploration

Robotic Lunar Exploration Program



- The Robotic Lunar Exploration Program will enhance our knowledge of the Moon and increase the safety and exploration value of future human missions.
- The 2008 Lunar Reconnaissance Orbiter provides major scientific and exploration benefit by 2009
- Future mission architecture being developed based on joint Exploration Systems and Science Mission Directorate analysis



LRO instruments competitively selected in December 2004





A coordinated and comprehensive longitudinal strategy, with key decision points identified, that provides a foundation for investment decisions and priorities.

Robotic and Human Lunar Expeditions

Mars Exploration

Solar System Exploration

Advanced Telescope Searches for Earth-like Planets

Exploration Transportation System

International Space Station Assembly and Used

Shuttle Transition to New Exploration Launch Systems

Origin, Evolution, Structure and Destiny of the Universe

Dynamic Earth System

Sun-Solar System Connection

Transform Air Transportation

Educate Students and Public

National Plan for Nuclear Systems