Exploring Beyond Earth: Endless Opportunity to Discover, Innovate, and Inspire

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Exploring Beyond Earth

- Revolutionary discovery
- Technology innovation

- Entrepreneurial frontier
- Powerful inspiration

NASA/JPL-Caltech/MSSS
Towards Understanding Our Planetary System

Grand Challenges in Planetary Science:
- Determine *how our system of planets formed* and whether the processes involved are likely to be common in the Universe
- Understand the *early evolution of the Earth-Moon* system at the time that life was emerging on Earth
- Explore the geologic evolution of other solid planets and moons to *understand the diversity of planetary geologic styles*
- Investigate the *dynamics of atmospheres* across the solar system
- Understand the *habitability* potential of objects in our Solar System & determine whether any *harbor life today*
A Partnership of Mutual Benefit

Science

Heliophysics

Earth

Astrophysics

Life & Micrograv

Planetary Science

Enables and Enhances

Human Exploration

Space Ops

Exploration Systems

Drives and Informs
Exploring beyond Earth drives new technologies in propulsion, power, communications, life support and computing.
The Entrepreneurial Frontier

Numerous new ventures launched in the past year alone leverage prior & current government investment to advance a new frontier of entrepreneurship.
Powerful Inspiration

Reaching for the impossible, engages minds and inspires dreams

NASA MSFC
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