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

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NASA/JPL-Caltech/MSSS

Exploring Beyond Earth

- Revolutionary discovery
- Technology innovation
- Entrepreneurial frontier
- Powerful inspiration

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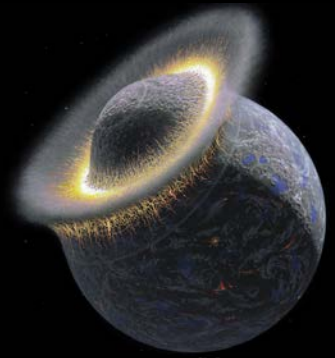
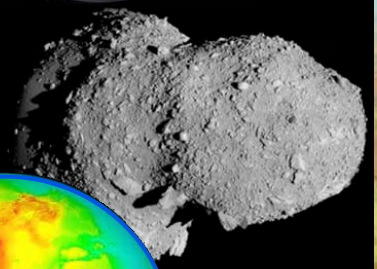
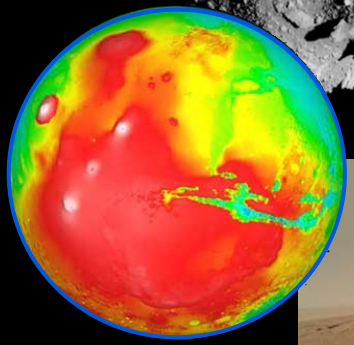
Towards Understanding Our Planetary System

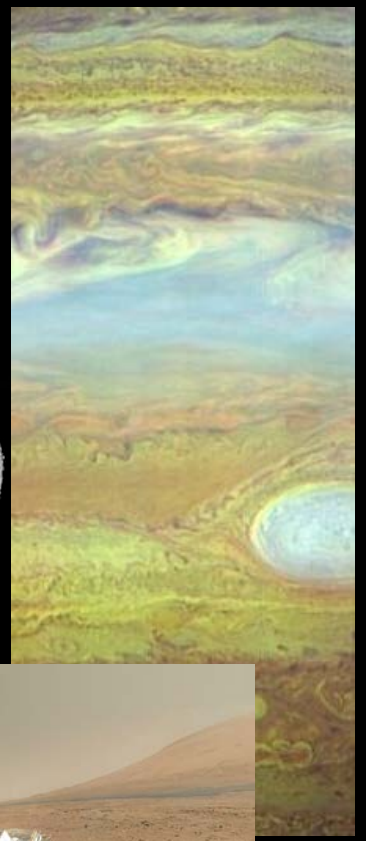
Grand Challenges in Planetary Science:

- 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***



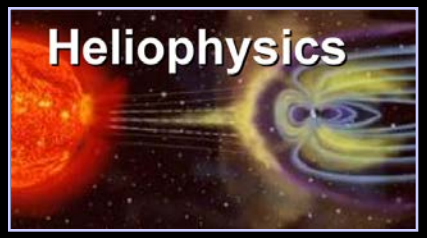


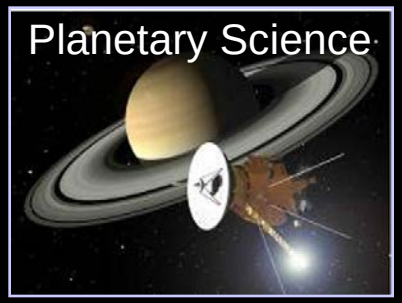




A Partnership of Mutual Benefit

Science

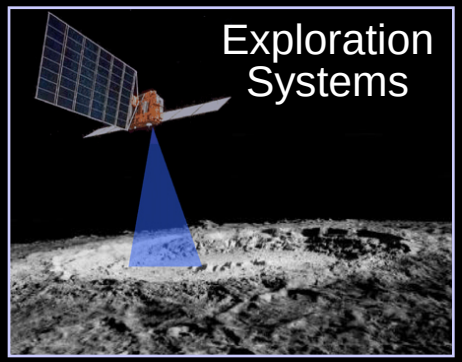




Drives and Informs

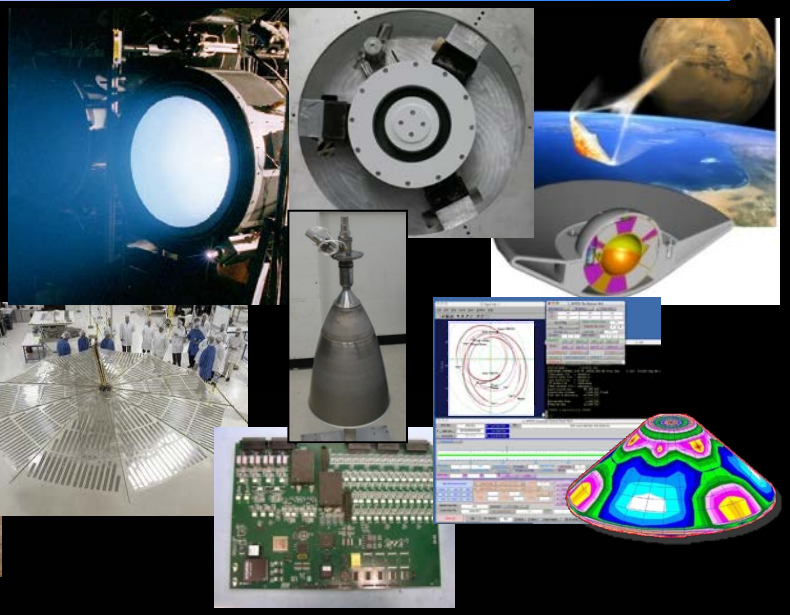
Enables And Enhances

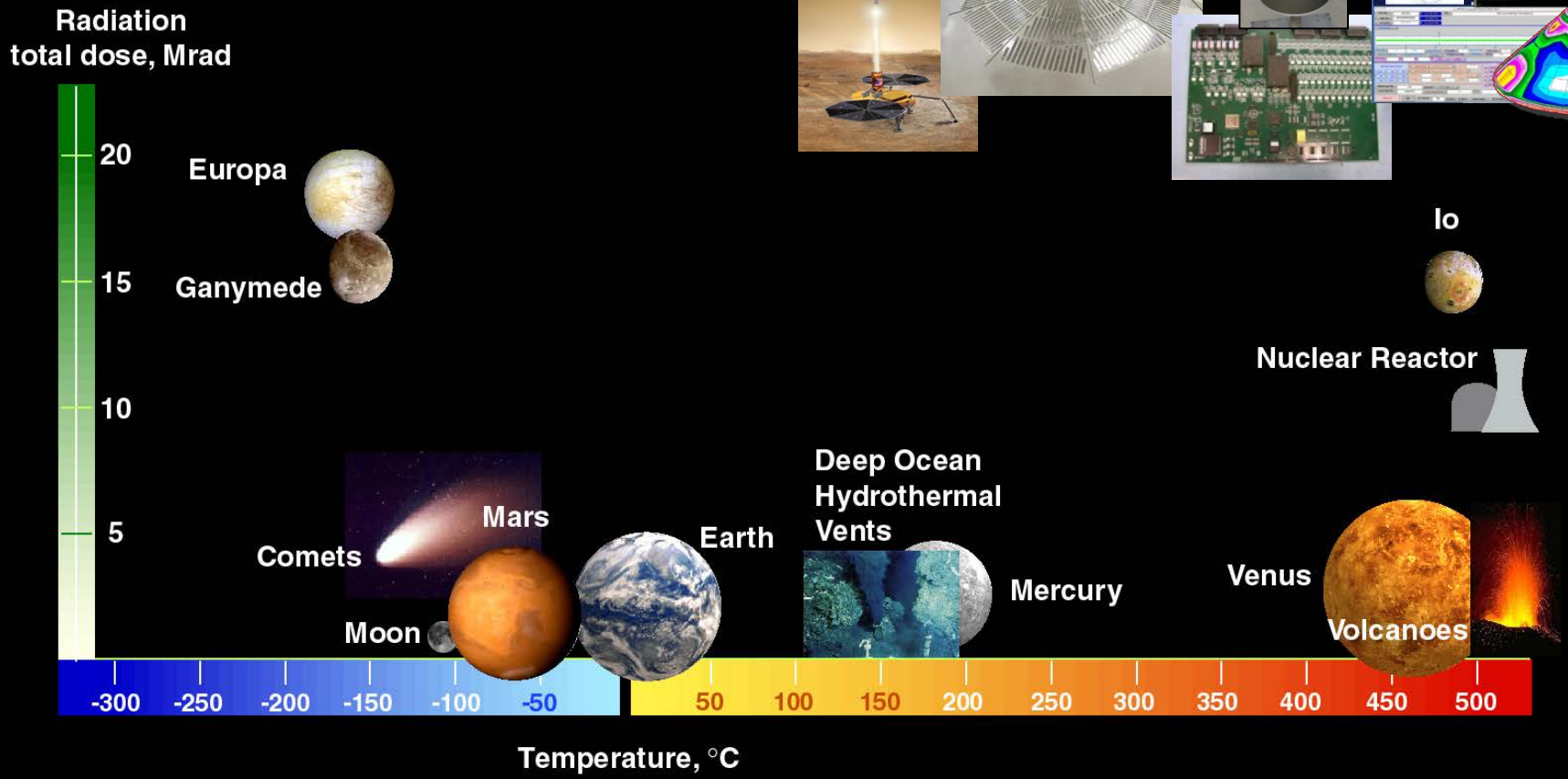
Human Exploration



Technology Innovation: Exploring Extremes

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

GOLDEN SPIKE

Powerful Inspiration

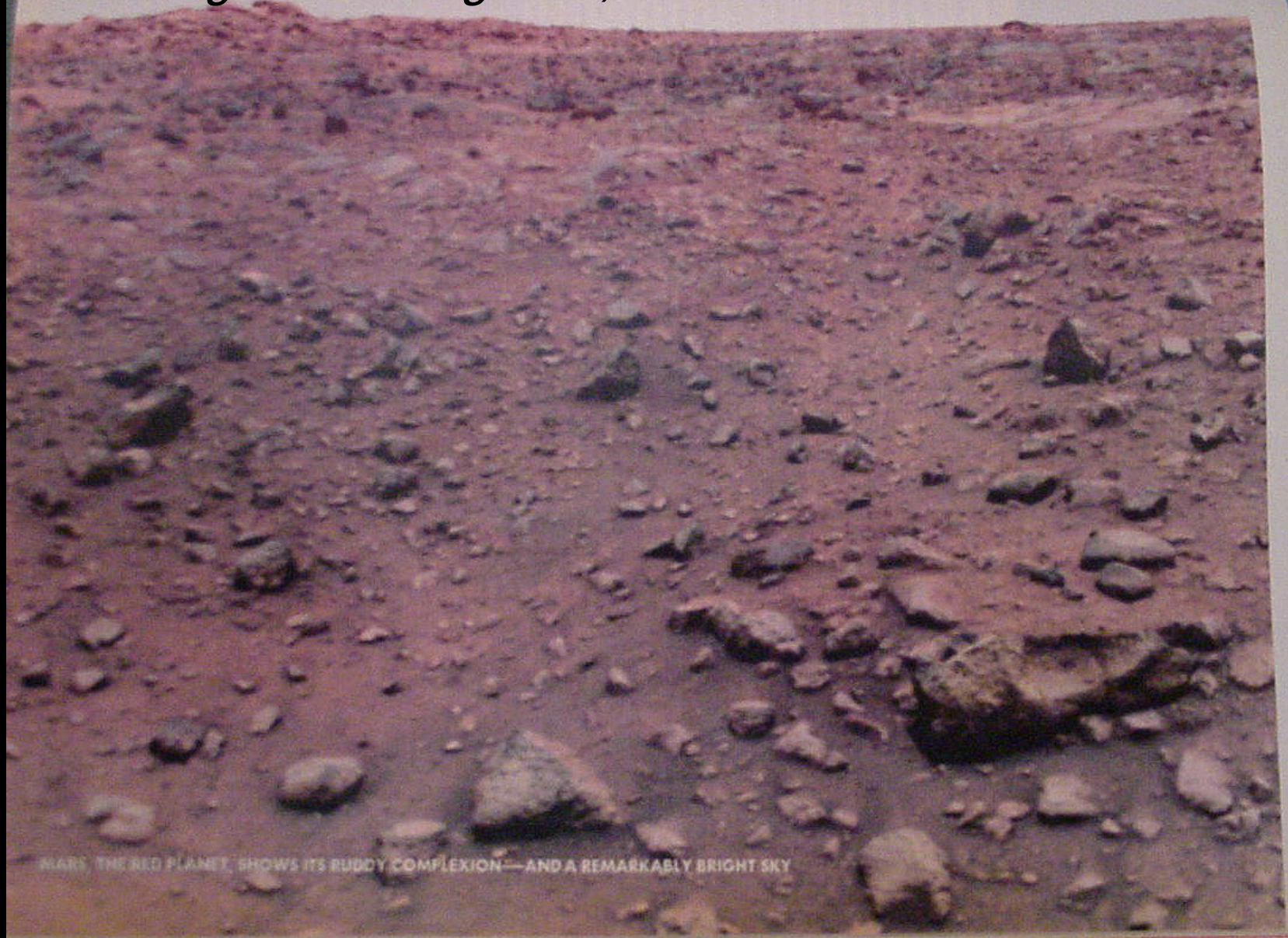
Reaching for the impossible, engages minds and inspires dreams

NASA MSFC

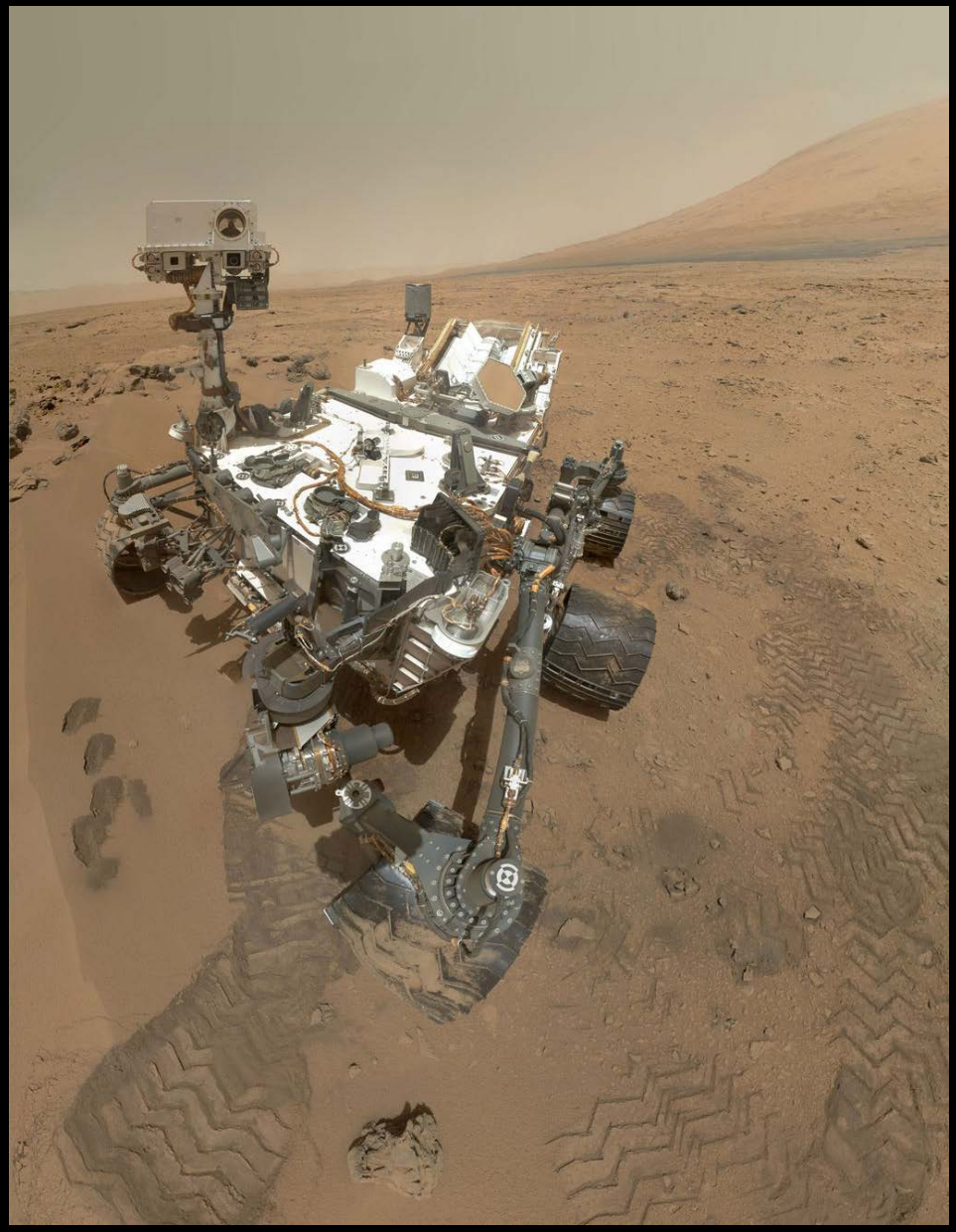
Brian van der Brug - AP

John Minchillo - AP

Time Magazine – August 2, 1976



MARS: THE RED PLANET, SHOWS ITS RUDDY COMPLEXION—AND A REMARKABLY BRIGHT SKY

SPACE

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