



5
YEARS



NASA'S
FUTURE FORUM



WELCOME

San Jose

5

YEARS



NASA'S

FUTURE FORUM

A photograph of the NASA Ames Research Center building, a large, modern, curved structure with a prominent dome, set against a yellow background.

**The Honorable Shana Dale
NASA Deputy Administrator**

San Jose



Raytheon

LOCKHEED MARTIN 

Microsoft®
Research
turning ideas into reality

Google™

JE® JACOBS

NORTEL

AEROJET

 **symantec™**



NAWBO[®]
Silicon Valley

NATIONAL ASSOCIATION OF WOMEN BUSINESS OWNERS
Silicon Valley Chapter



TechNet



THE
Voice
OF THE
Innovation
ECONOMY



CALIFORNIA SPACE GRANT CONSORTIUM

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UNIVERSITY of CALIFORNIA



**Silicon
Valley
Leadership
Group**

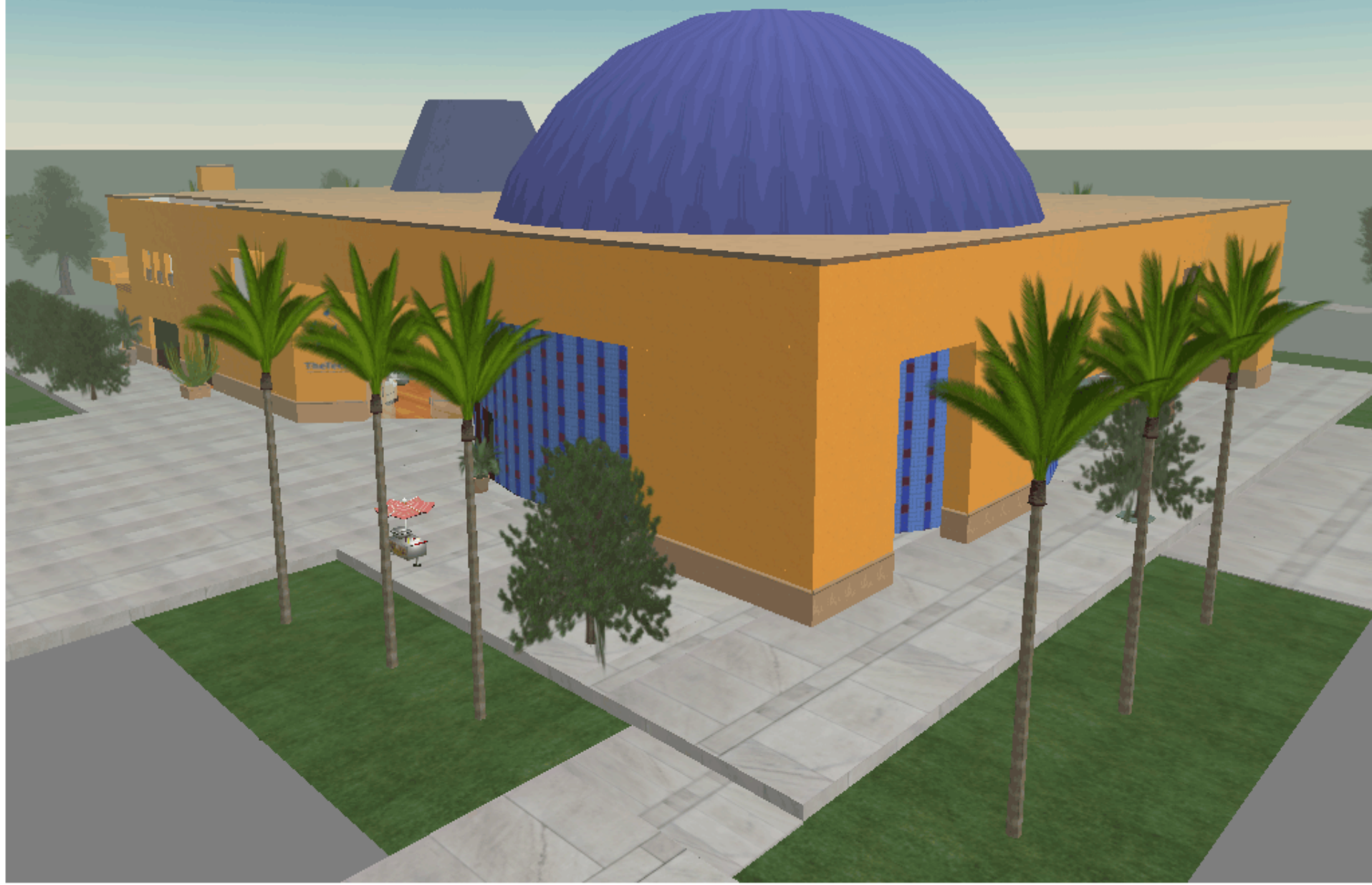


**CALIFORNIA
SPACE
AUTHORITY**



**COALITION
FOR
SPACE
EXPLORATION**

The Tech Museum in Second Life











California Nebula



5

YEARS

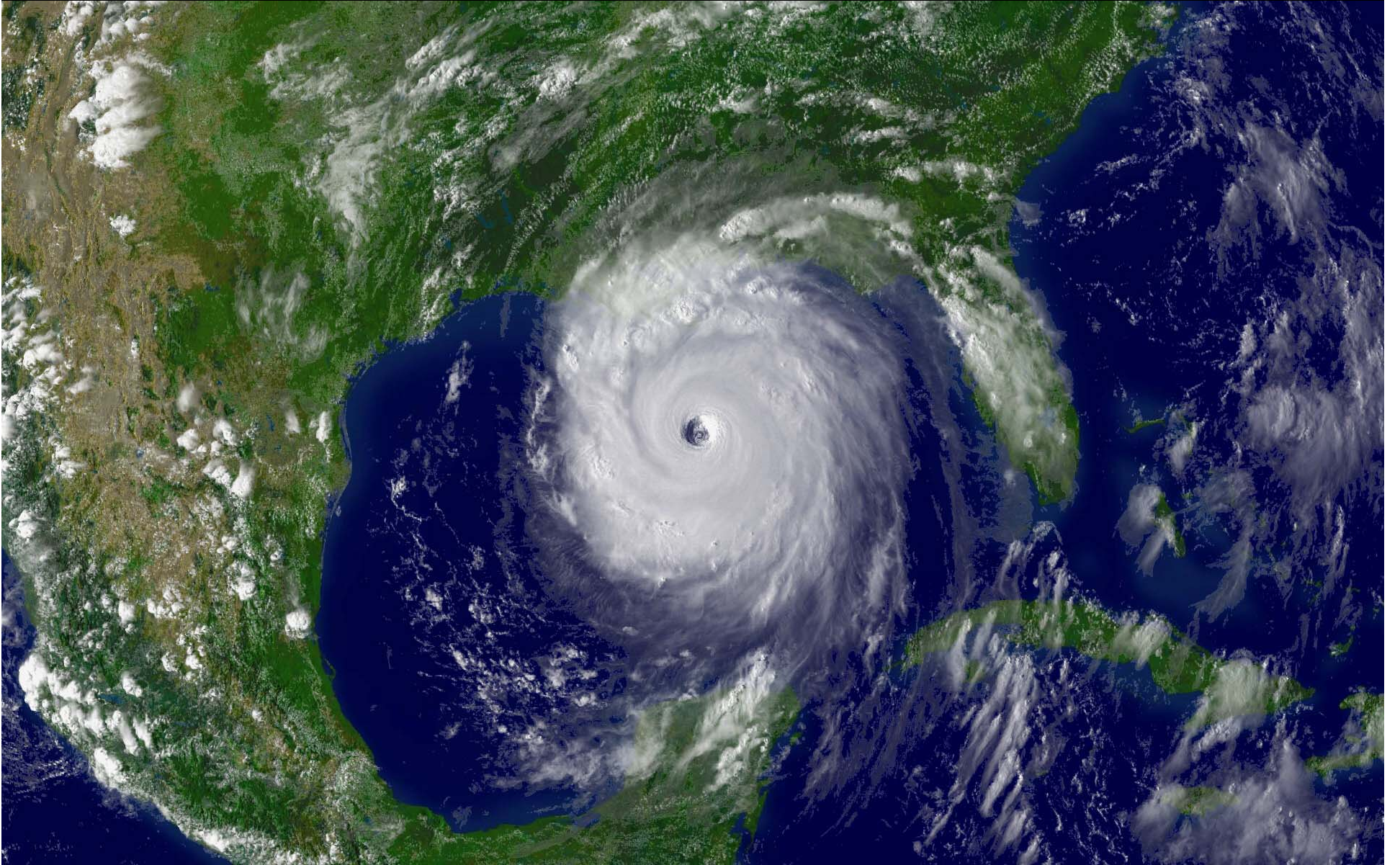


Inspiration

Innovation

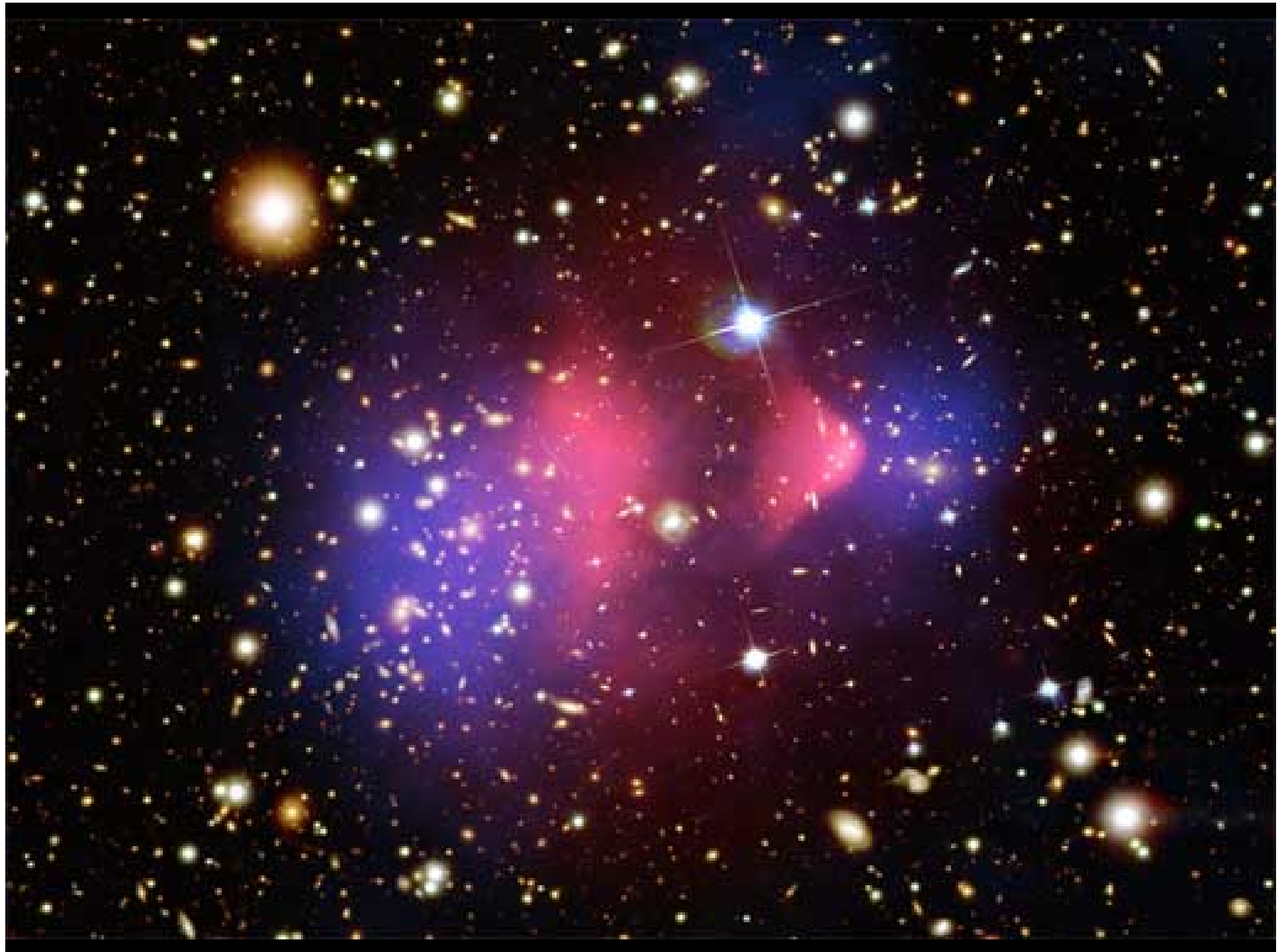
Discovery

...Future



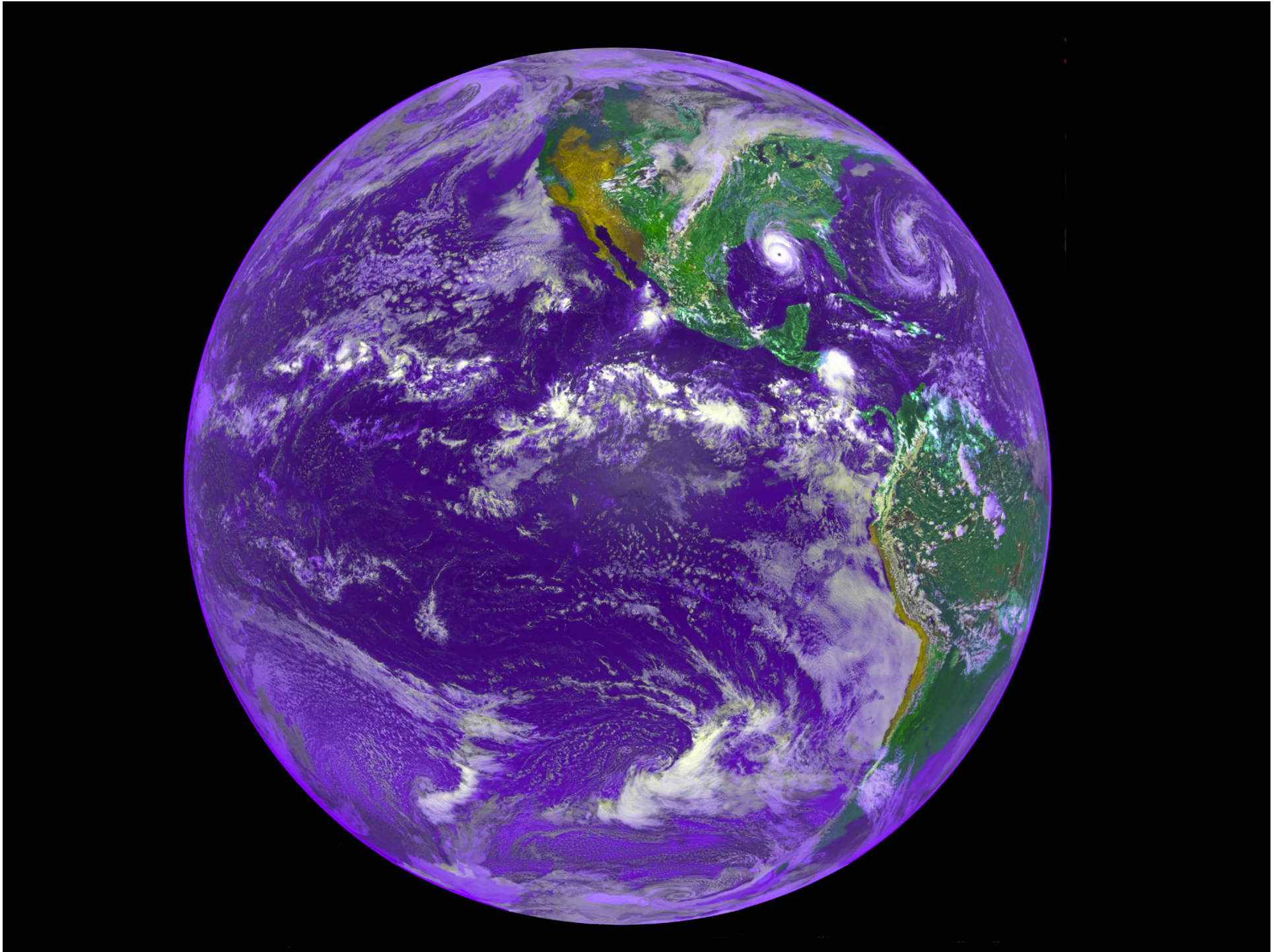






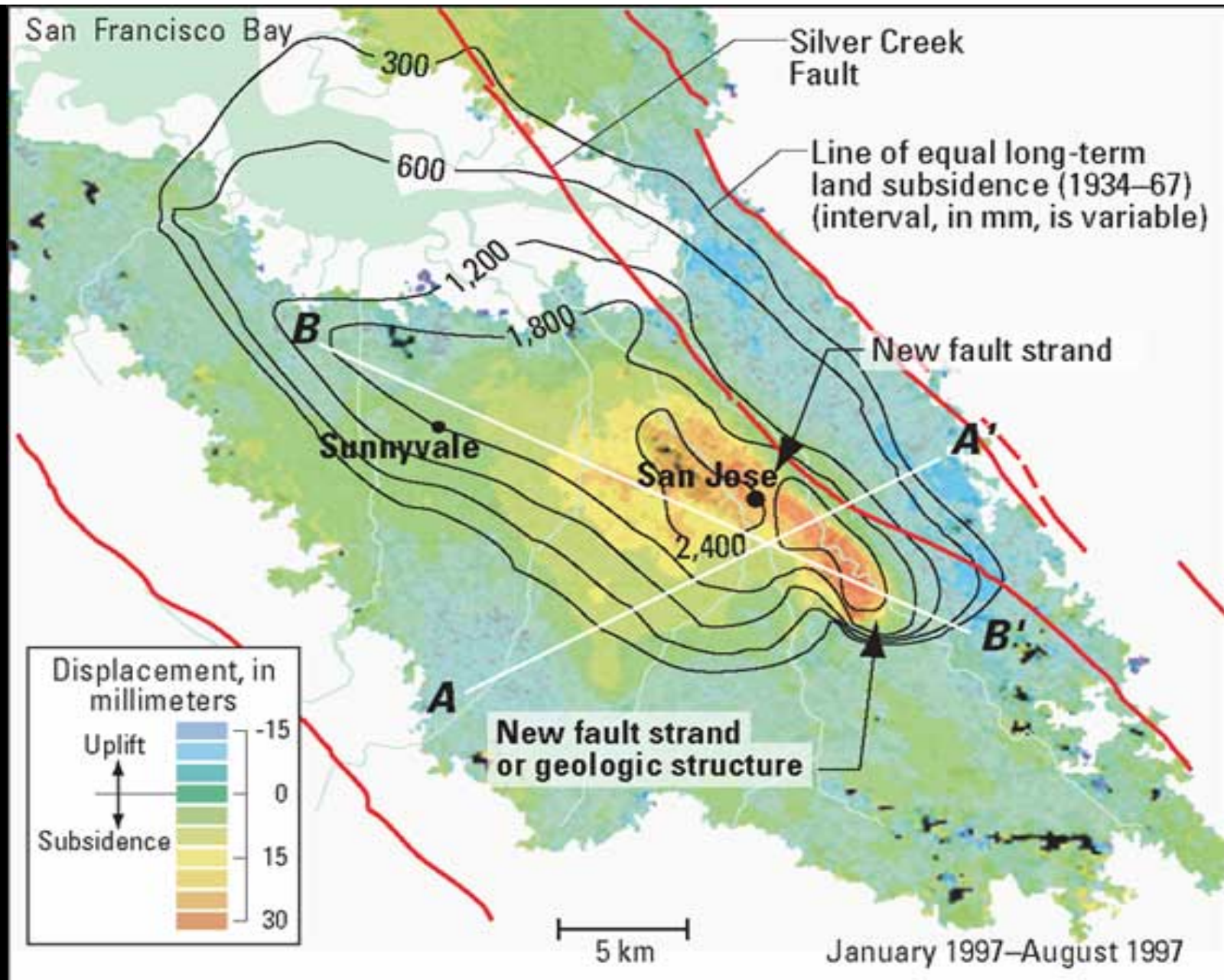






An aerial photograph of San Jose, California. The city is visible in the center, surrounded by green hills and valleys. The terrain is rugged with many small ridges and valleys. The city area is a mix of grey and green, indicating buildings and vegetation. The surrounding hills are covered in dense green vegetation. The overall scene is a high-angle view of the city and its natural surroundings.

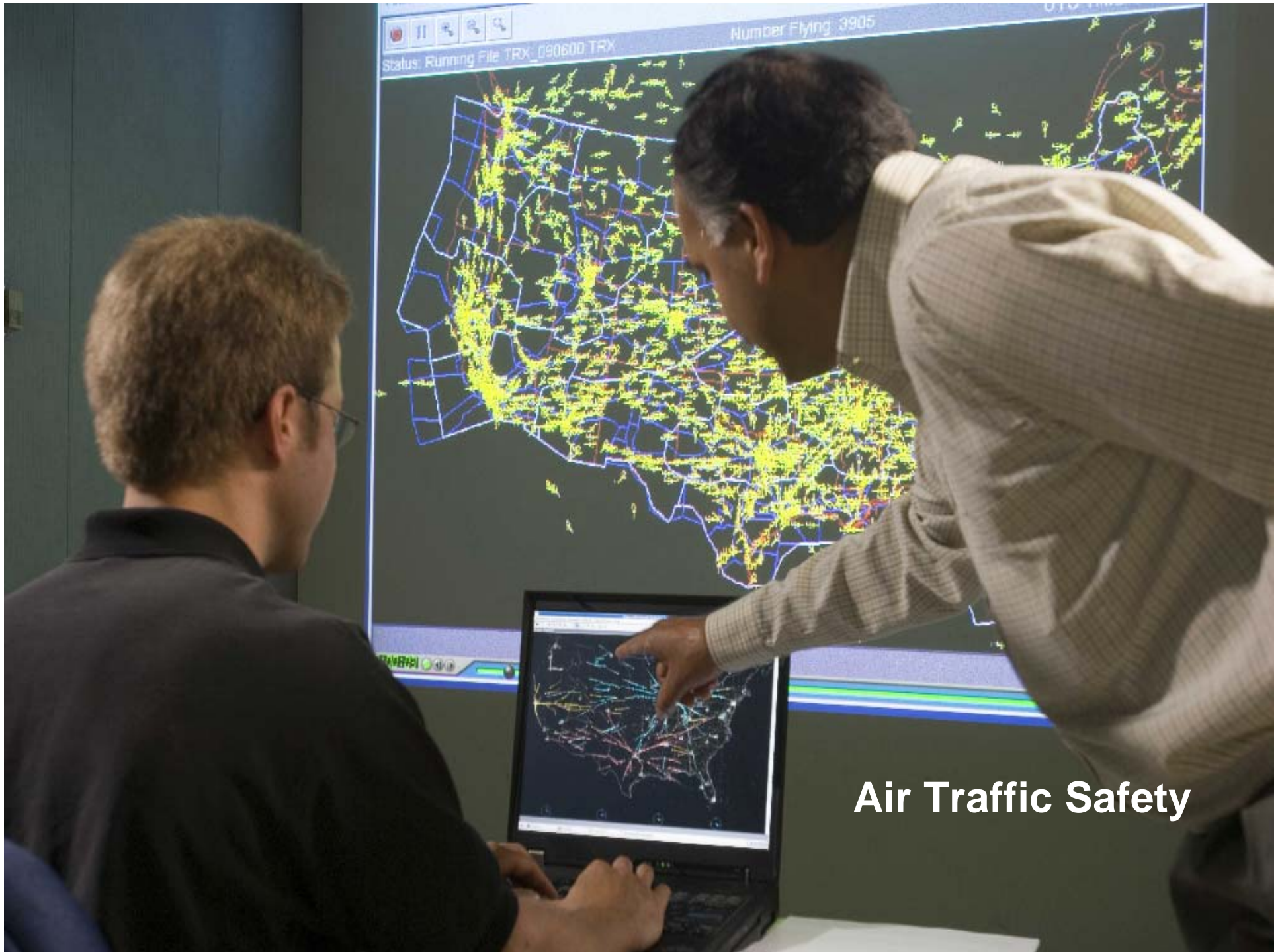
San Jose, California



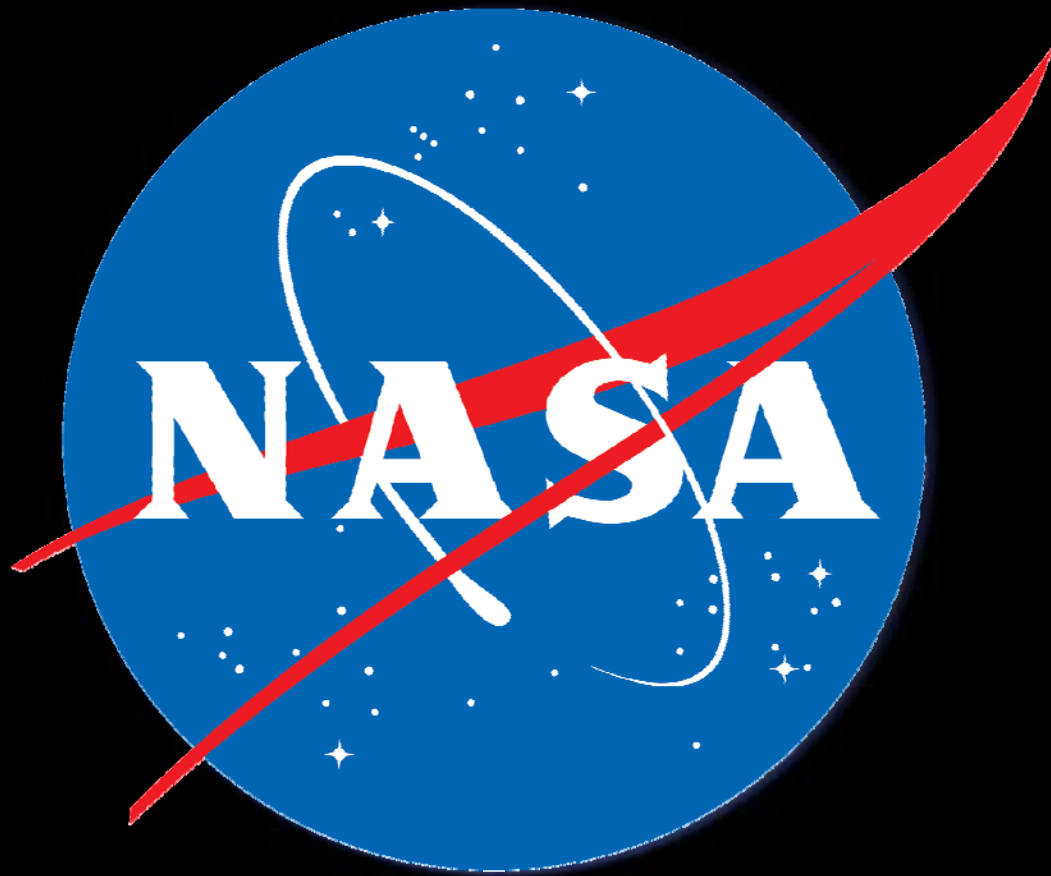
In 1997, Synthetic Aperture Radar identified new fault strand



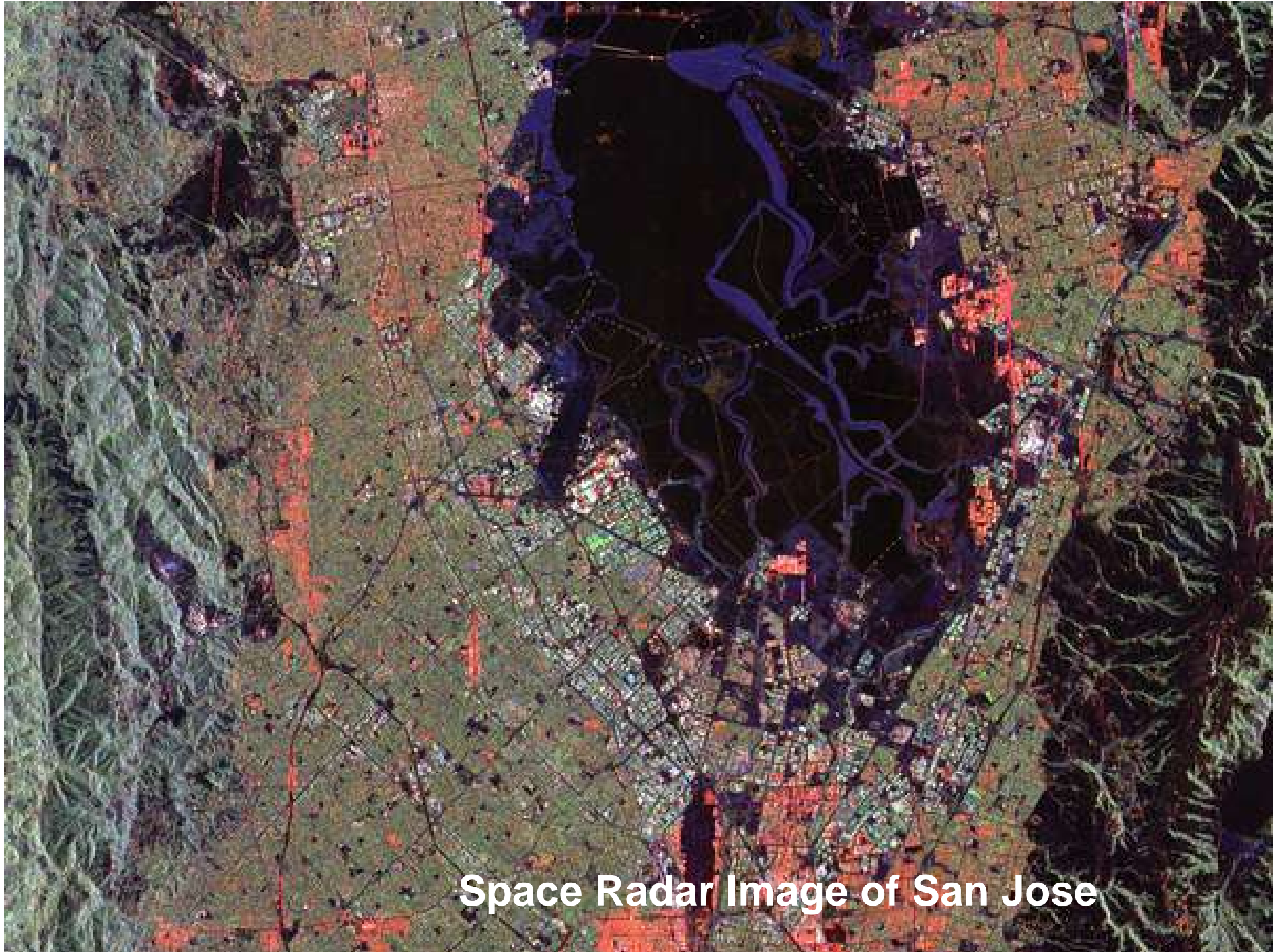
ISS Expedition 11 image of Moon and Hurricane Emily in 2005



Air Traffic Safety

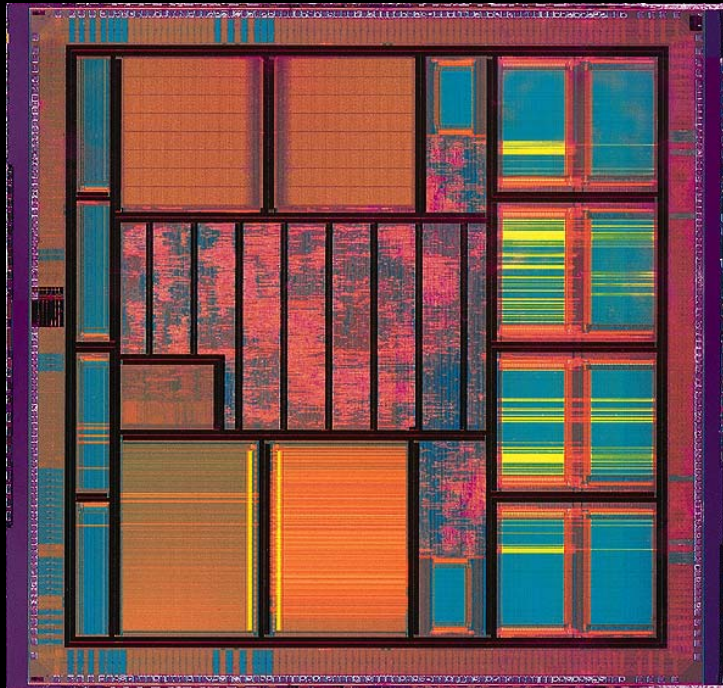






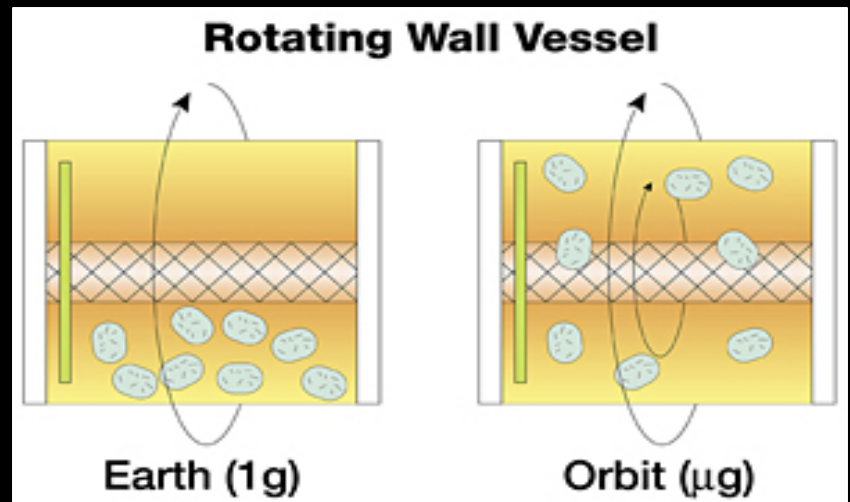
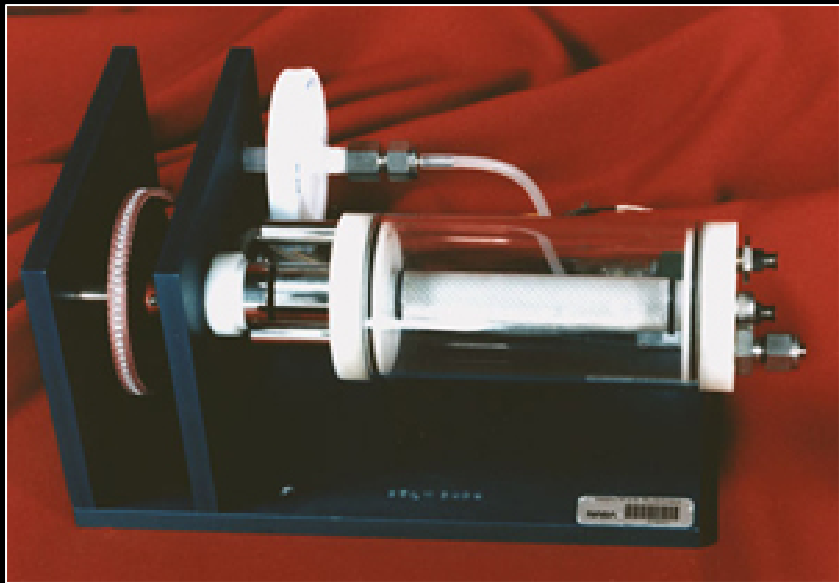
Space Radar Image of San Jose

Integrated Circuit



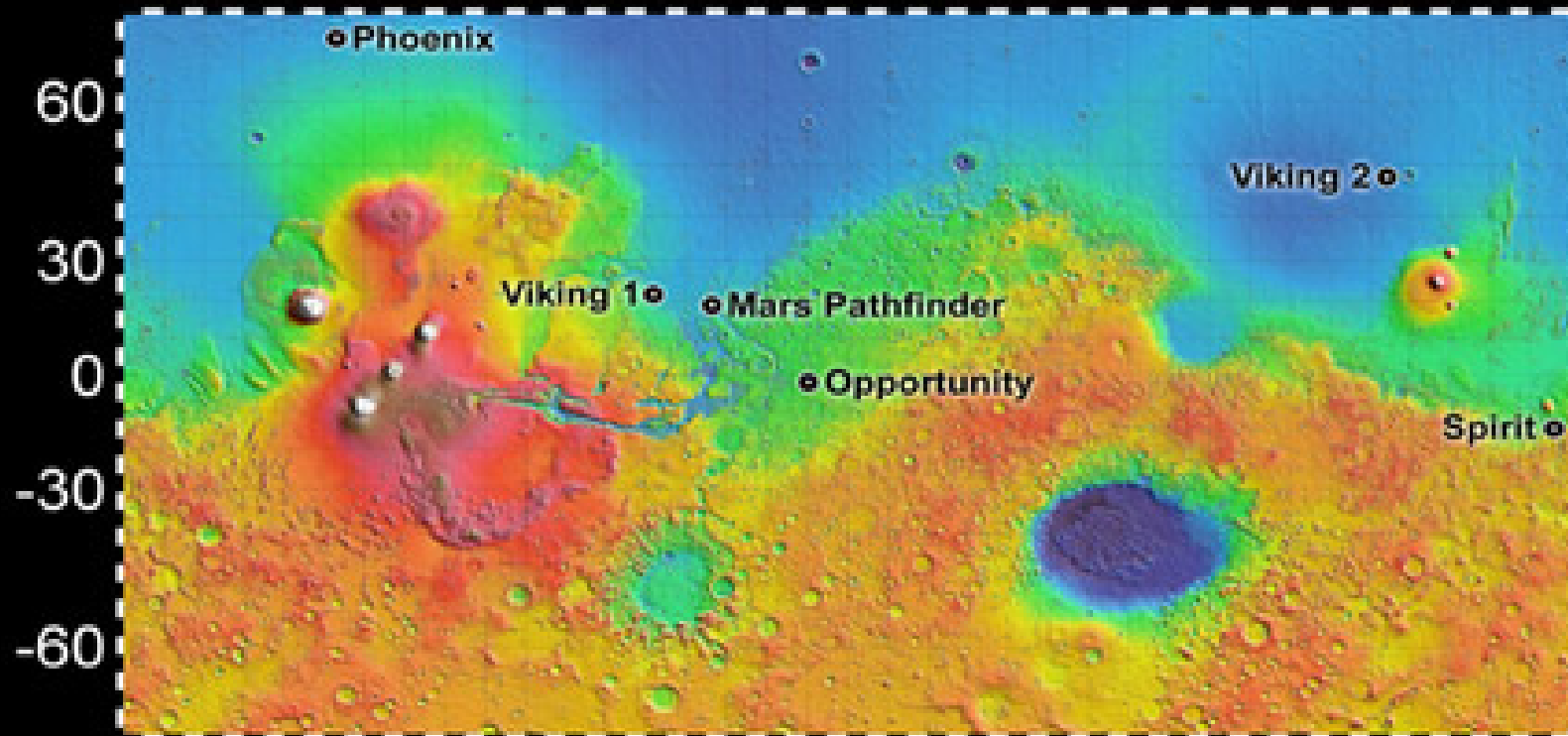


Solar Cells





Mars Phoenix Lander: Planned for May 25, 2008



**Landing Site Compared to Other Landings
FEW ROCKS!**



San Jose Viewed from the International Space Station



ISS016E010959



California Scenes from Space

- Hollywood
- San Francisco
- El Capitan



Santa Monica High School From Santa Monica, Calif. Wins U.S. Department of Energy National Science Bowl®

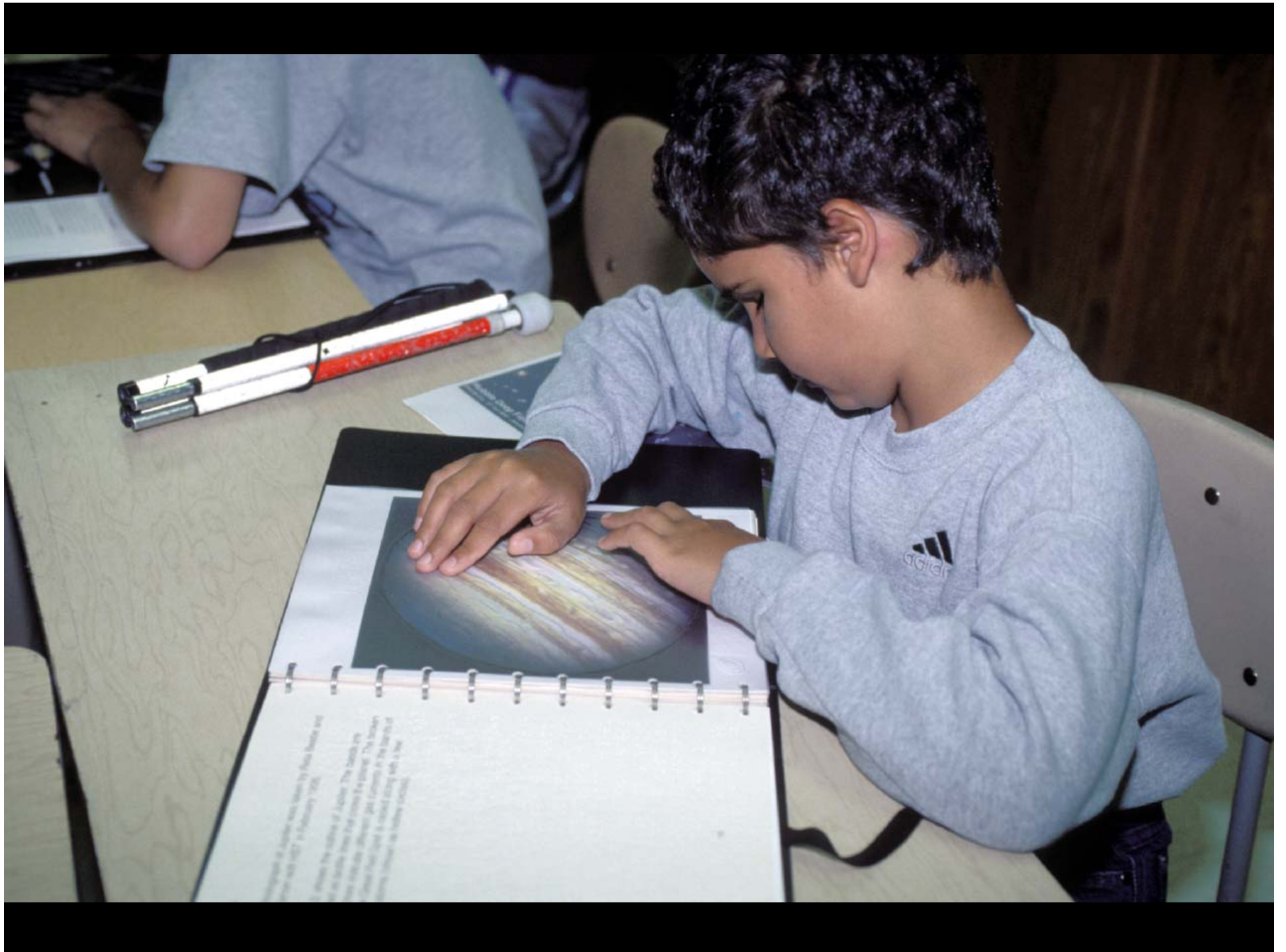




**California
Astronaut Heroes**



Launch Date: September 2008



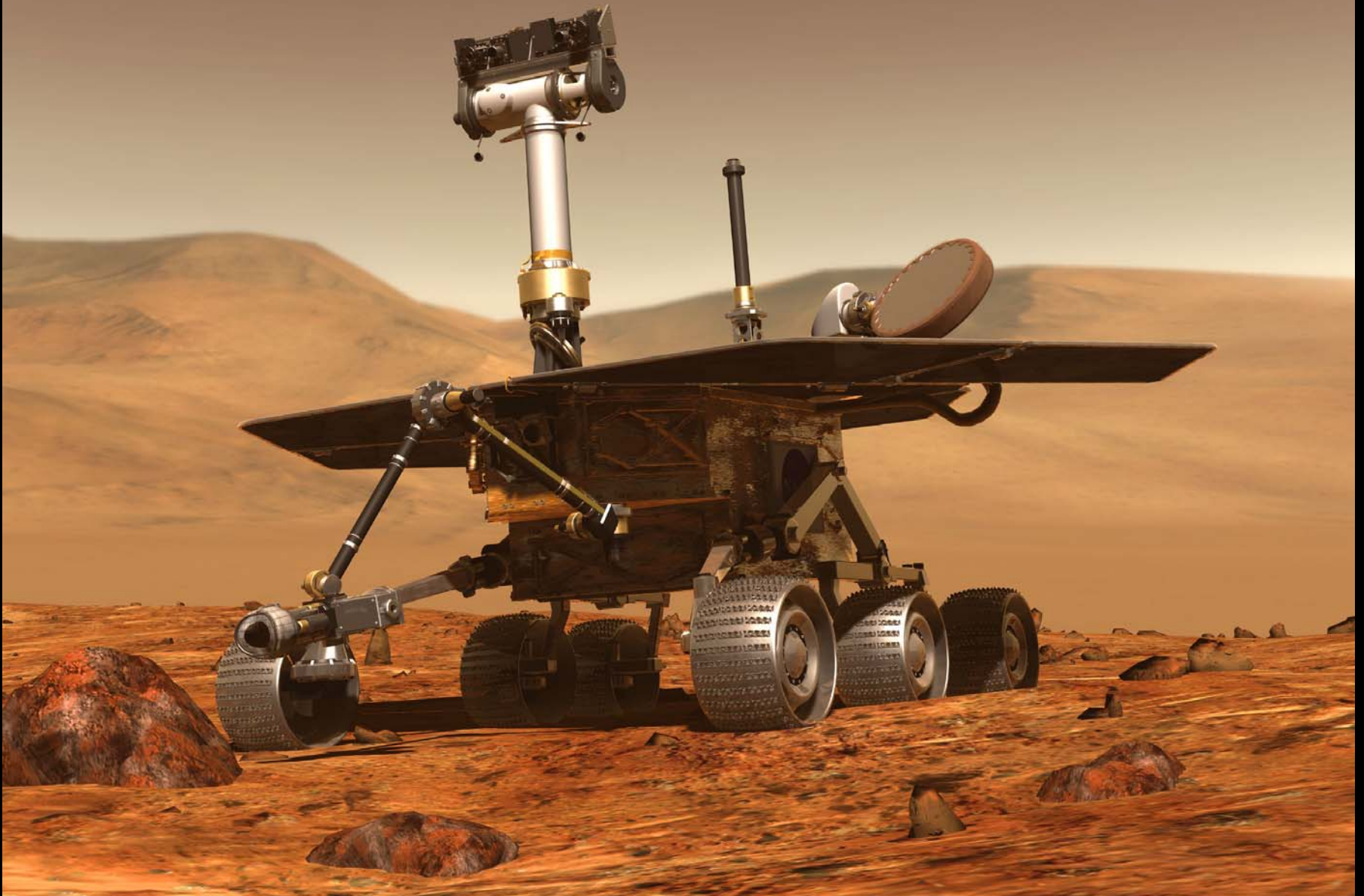
Igniting imaginations





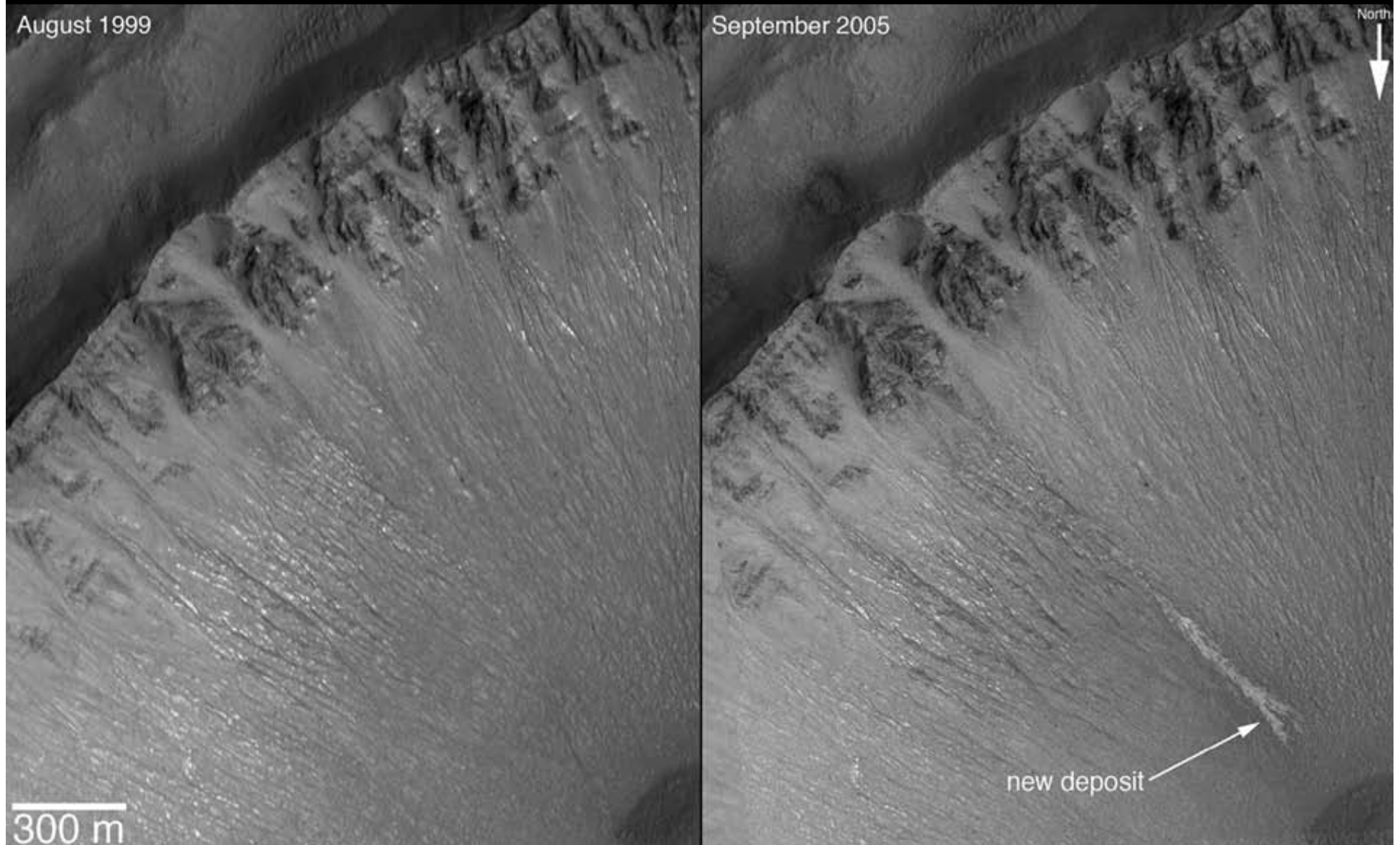


Mars Rover: Opportunity

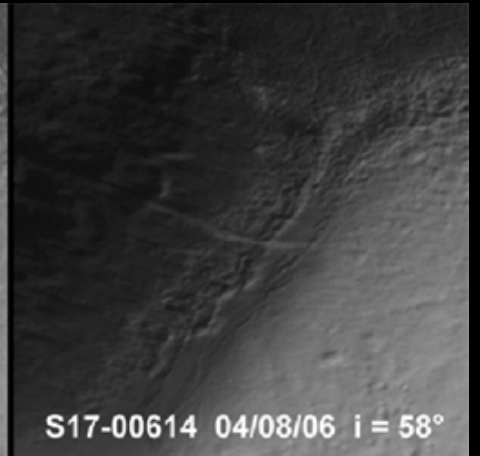
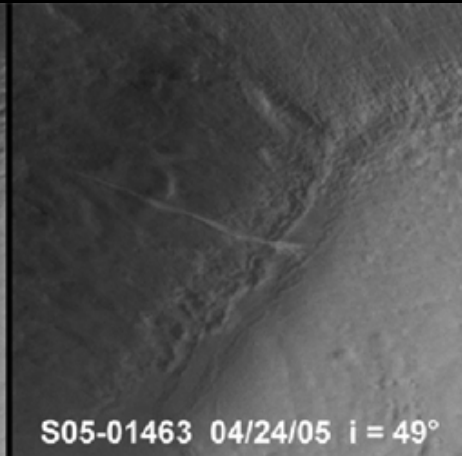
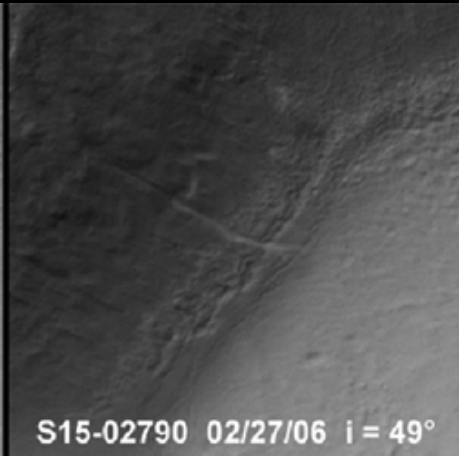
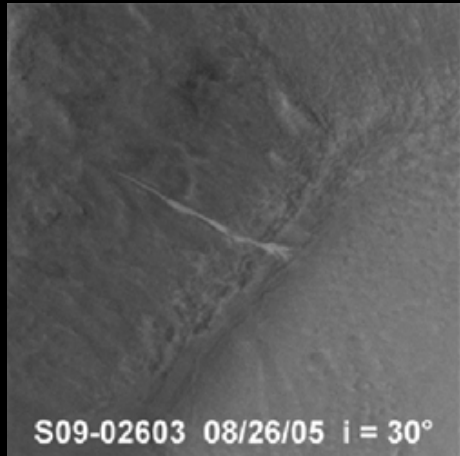




Video Image Communication and Retrieval (VICAR)

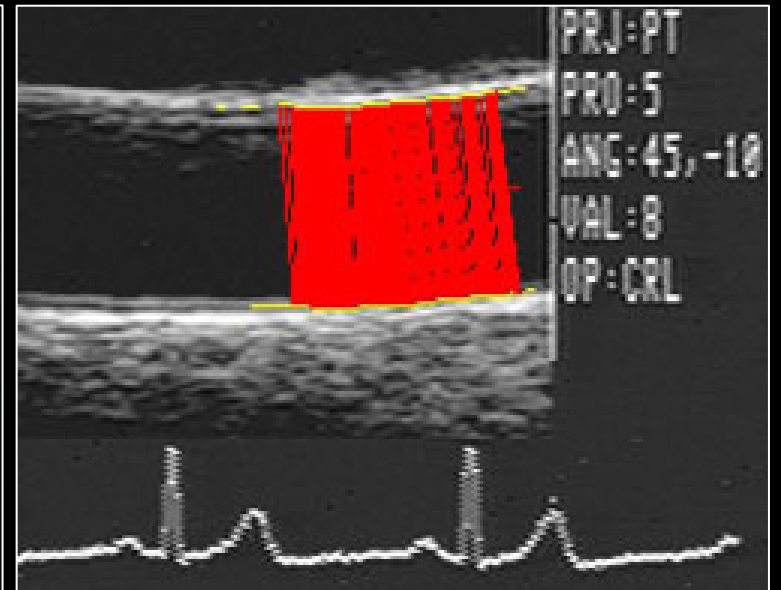
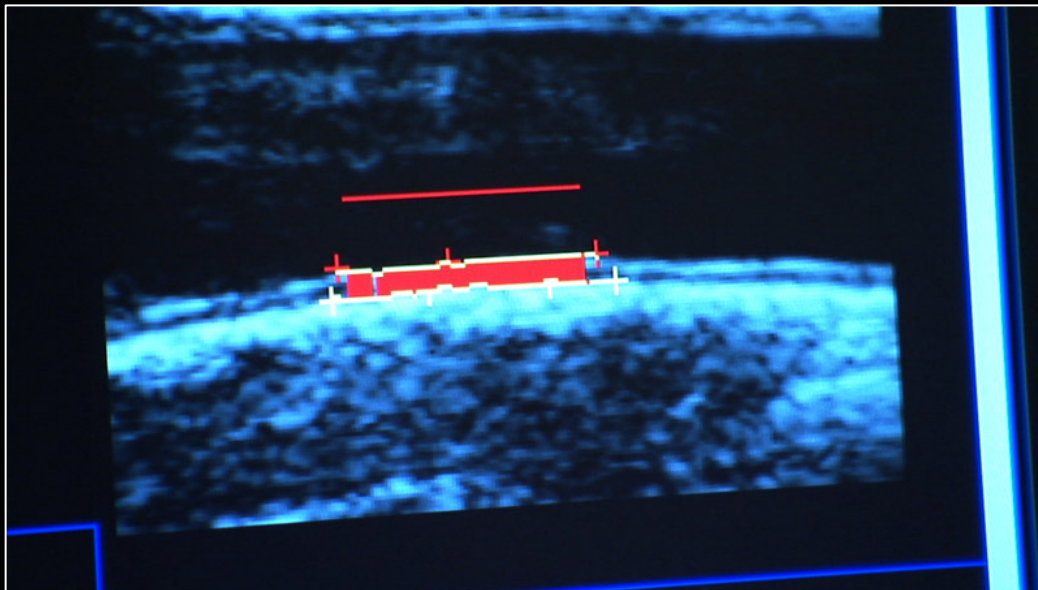


Images from the Mars Reconnaissance Orbiter suggest that liquid water has flowed on Mars within the past 6 years.

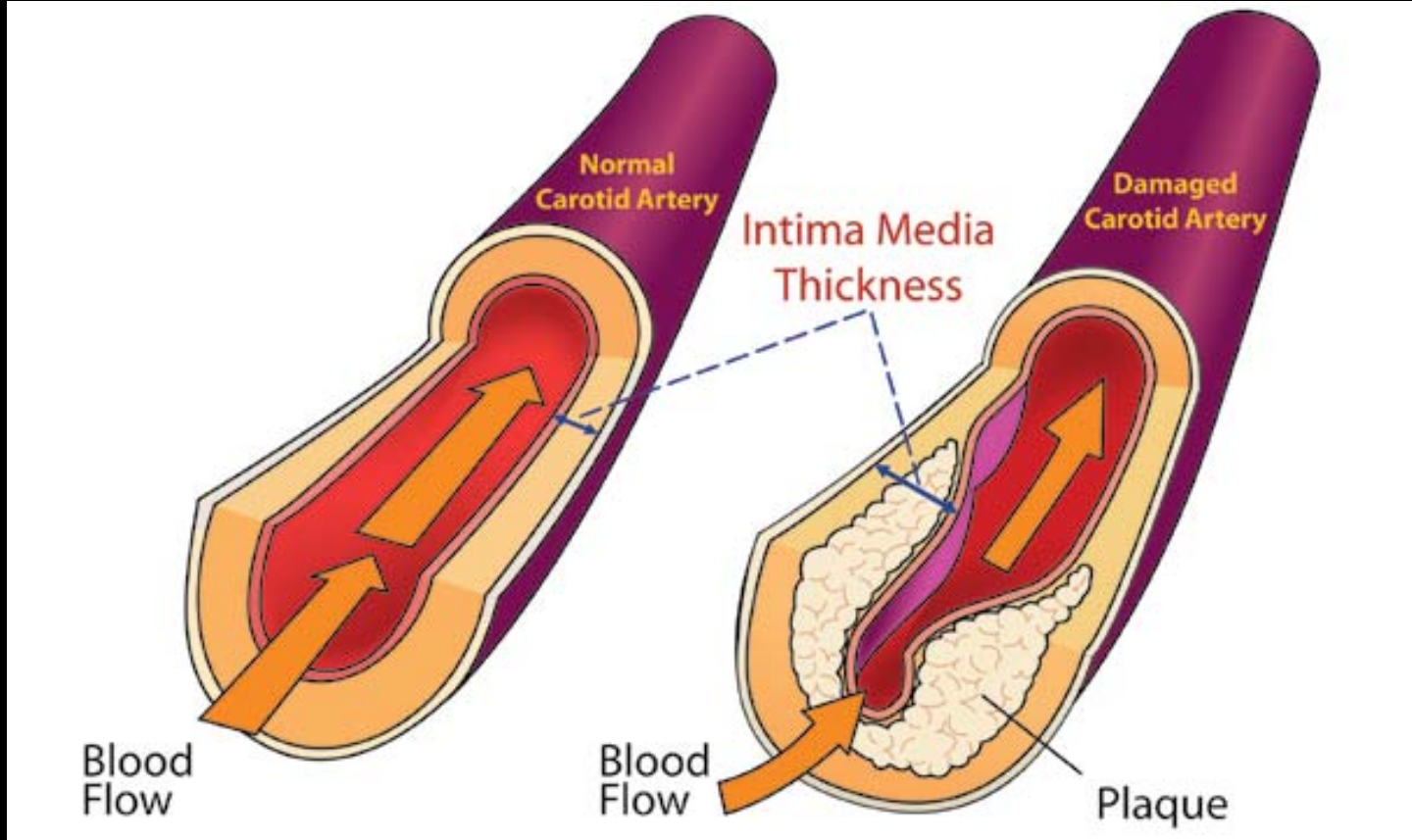


Jet Propulsion Laboratory



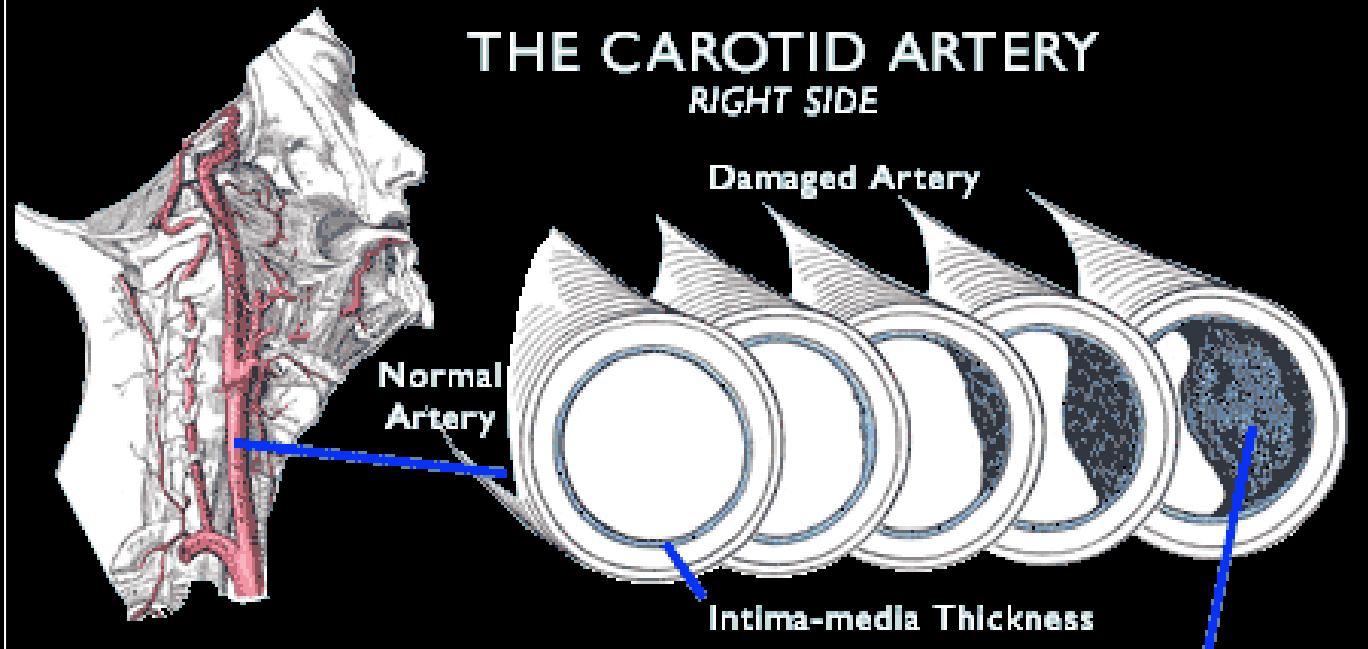








THE CAROTID ARTERY RIGHT SIDE



Hardware becomes heartware



National Aeronautics and Space Administration



2007

spinnoff

Inspiration Innovation Discovery Future







**Scalloped Edge of Engine Nozzle
Reduces Engine Noise**



San Jose State University



© QT Luong / terragalleria.com

Stanford University and National Biocomputation Center



Ames Research Center





Hawaii





Vietnam



International Space Station

Clean water in Sabana San Juan, in the Dominican Republic

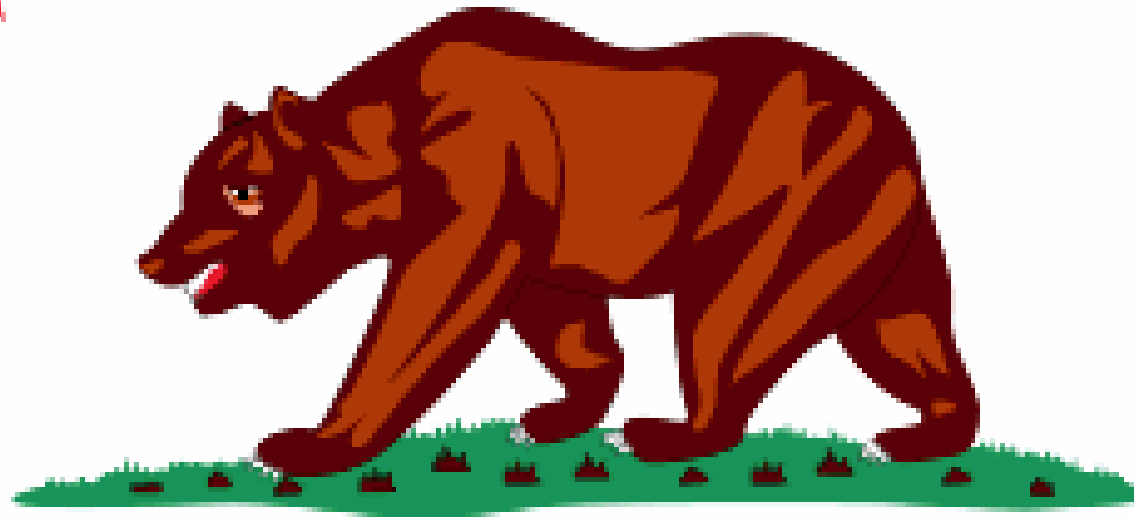






Clean water in Kendala, Iraq





CALIFORNIA REPUBLIC





**Constellation:
Ares I and Ares V**

NASA's Dryden Readies First Orion full-scale Abort Flight Test Crew Module



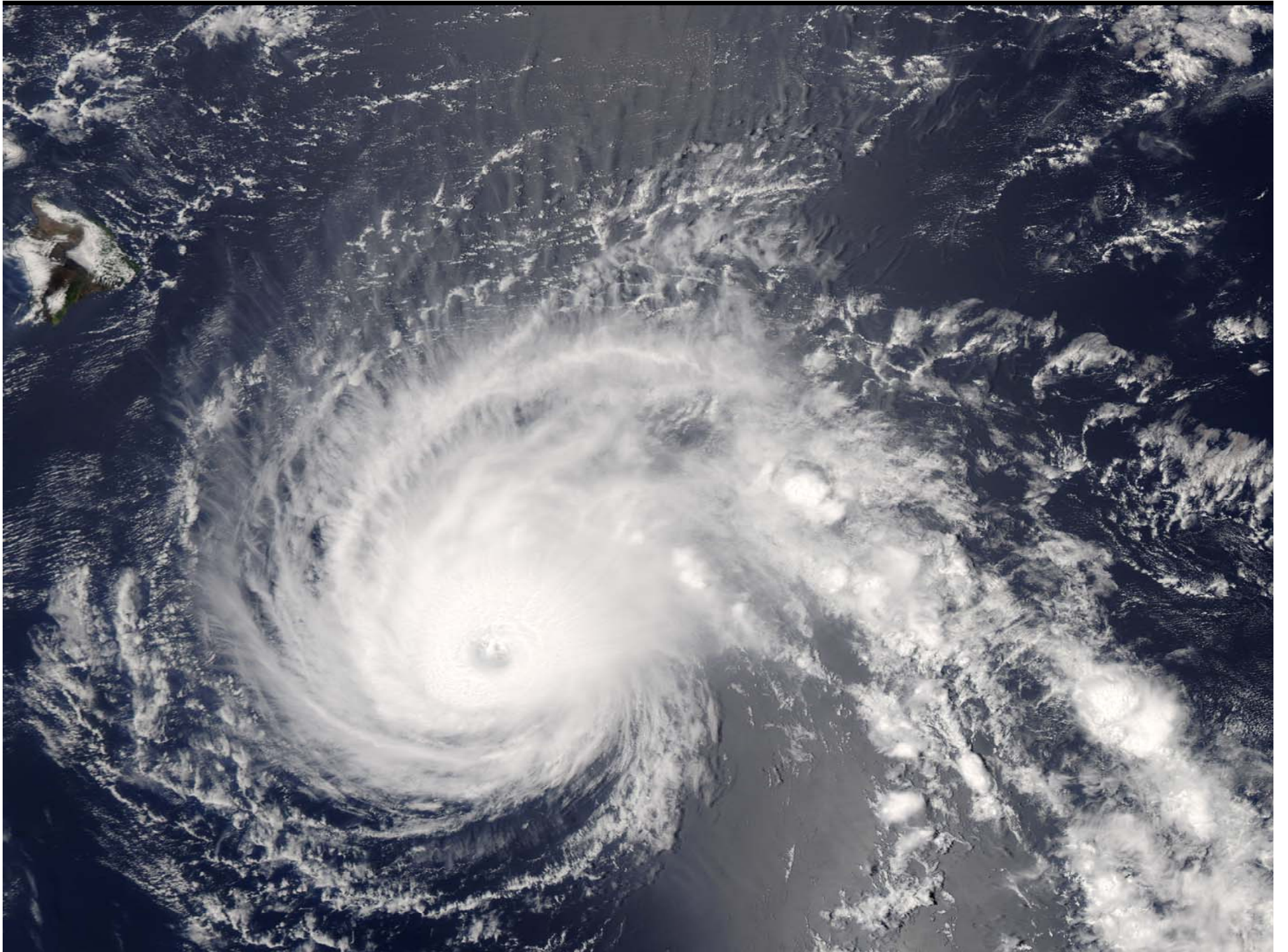
NASA's Ames Conducts Wind Tunnel Tests of Orion Abort System

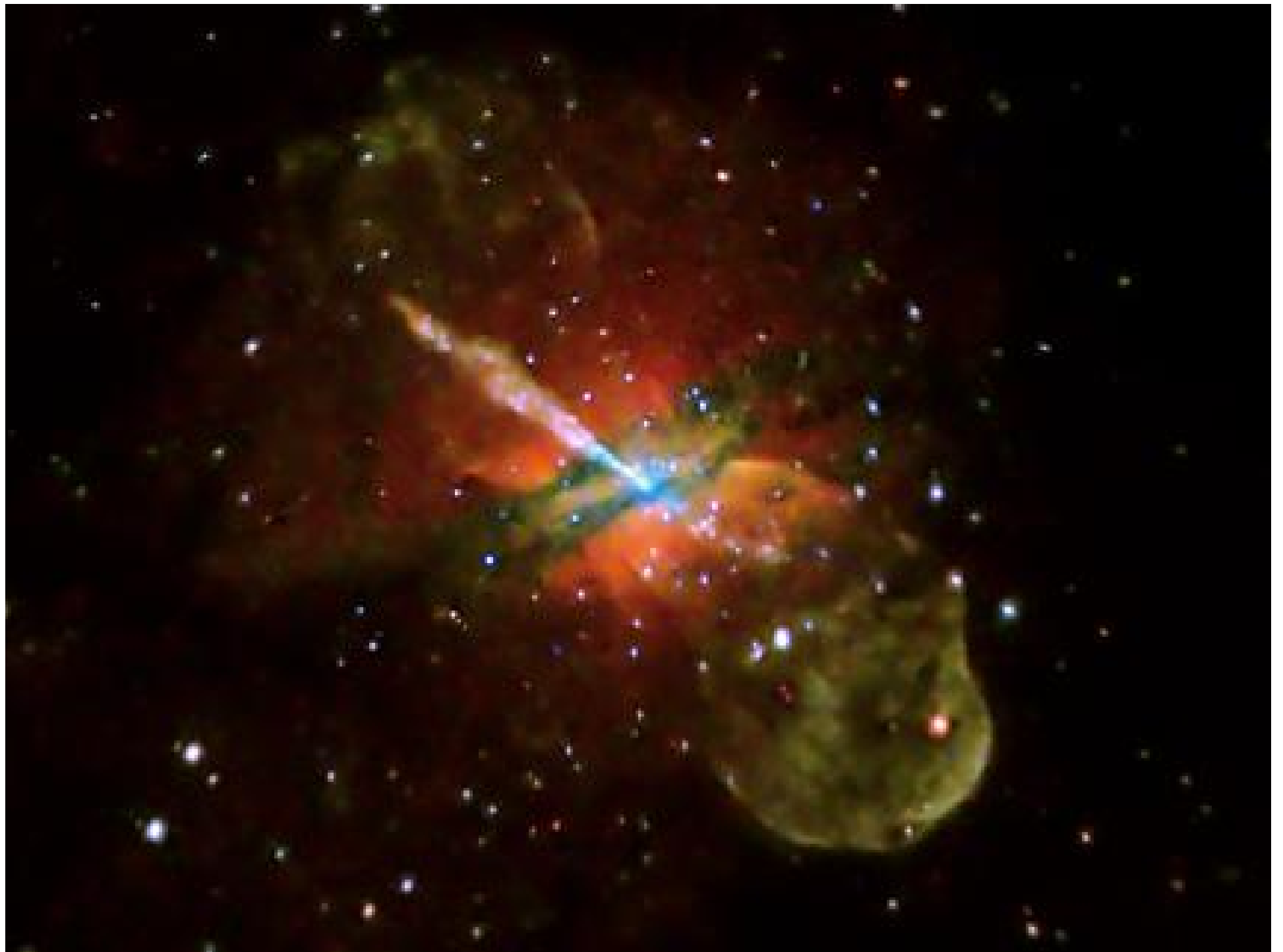




Successful Test of Next Generation Safety System for Orion Program

Credit: Aerojet

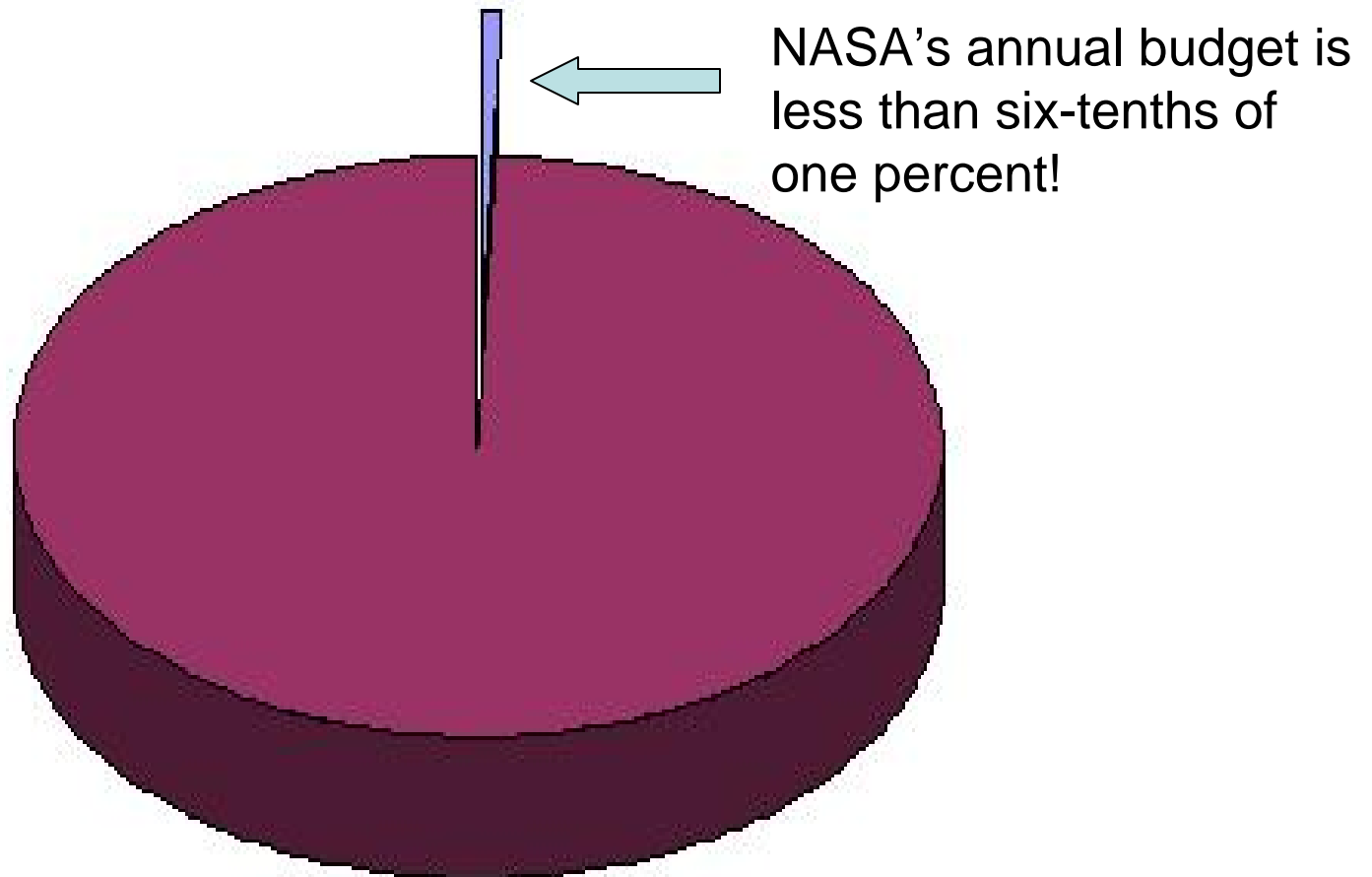


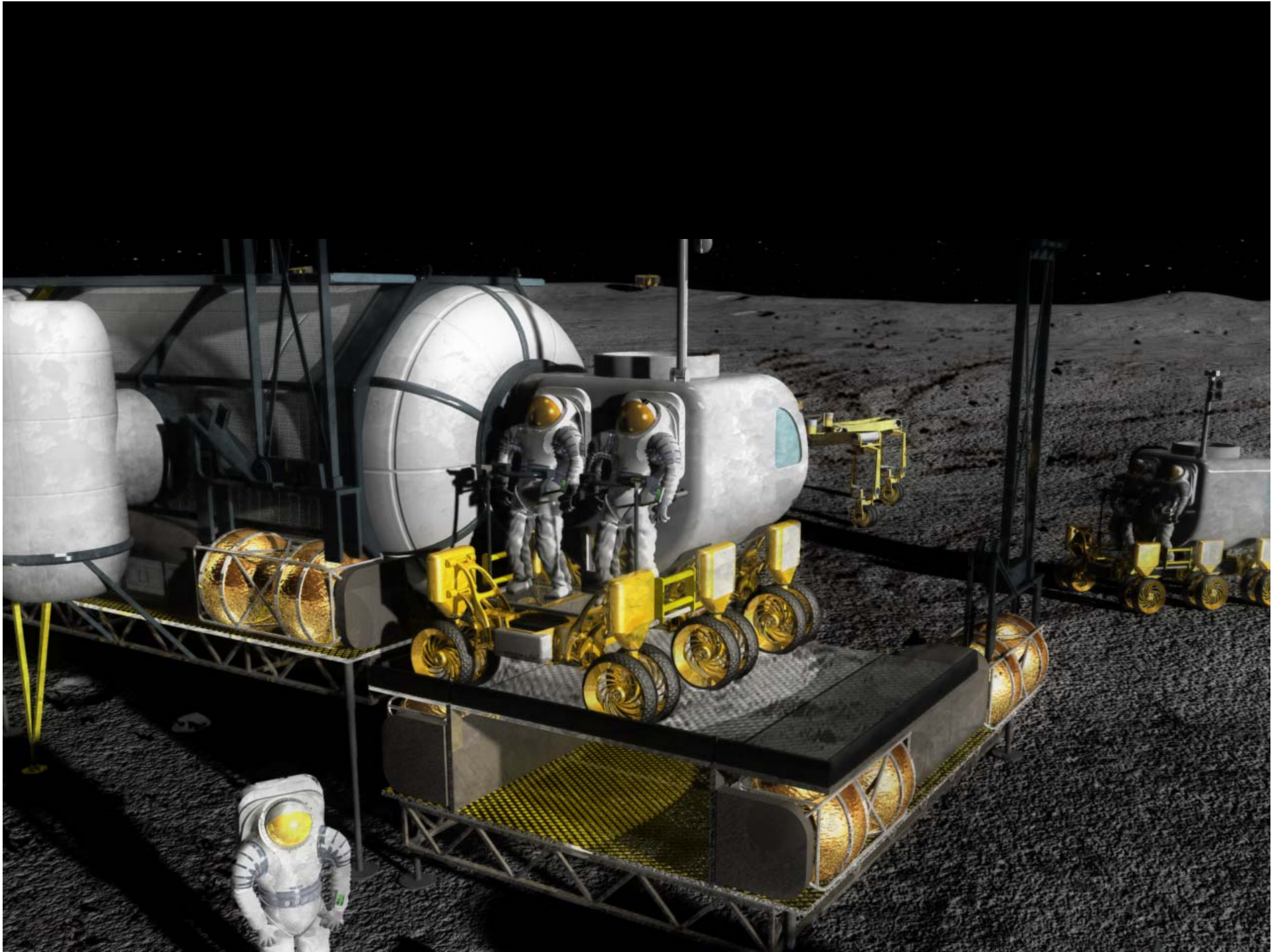


Winglet



NASA's Annual Budget as a Percentage of the Total Annual Federal Budget - FY 2008







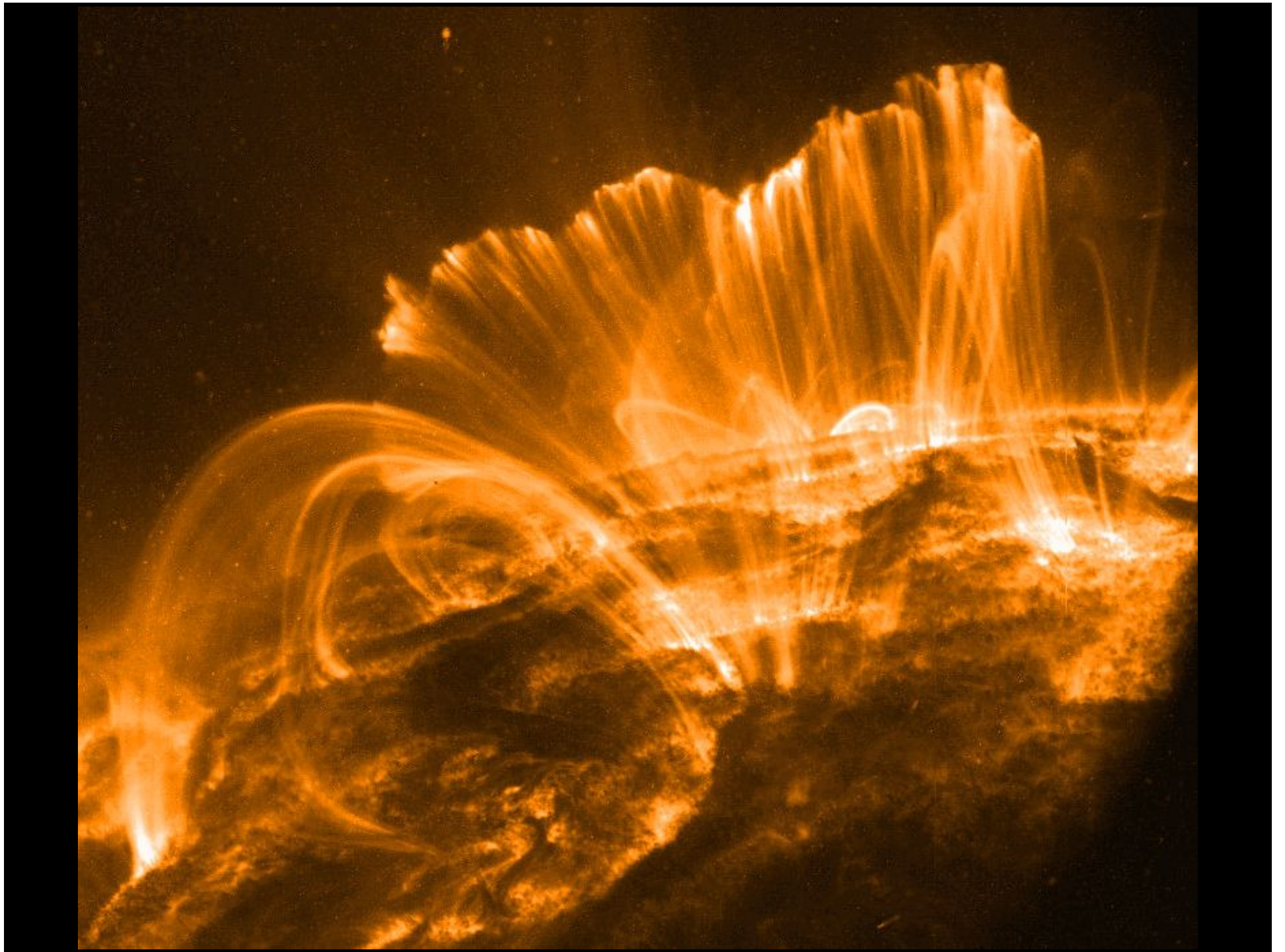




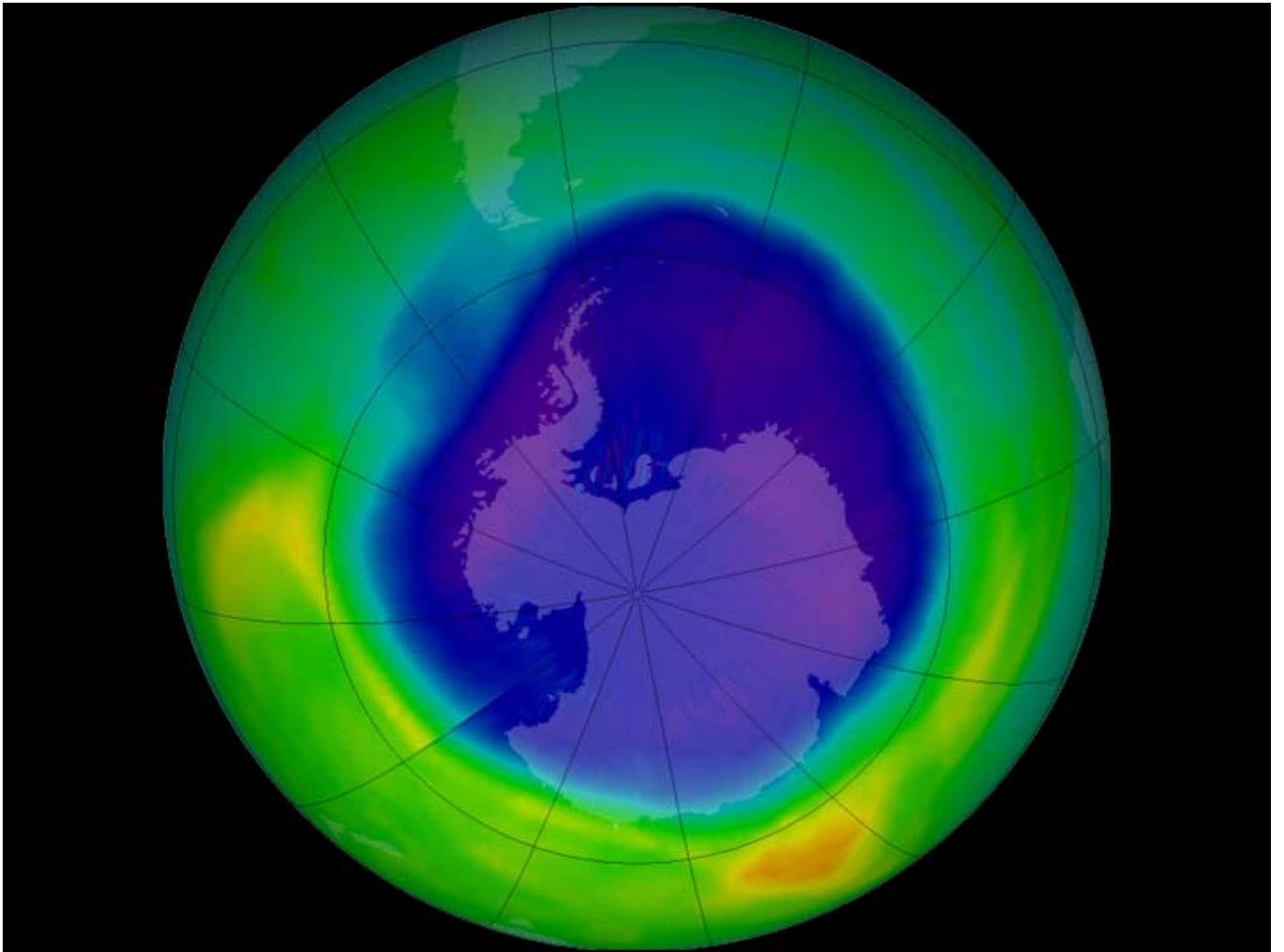
Pluto and its moons

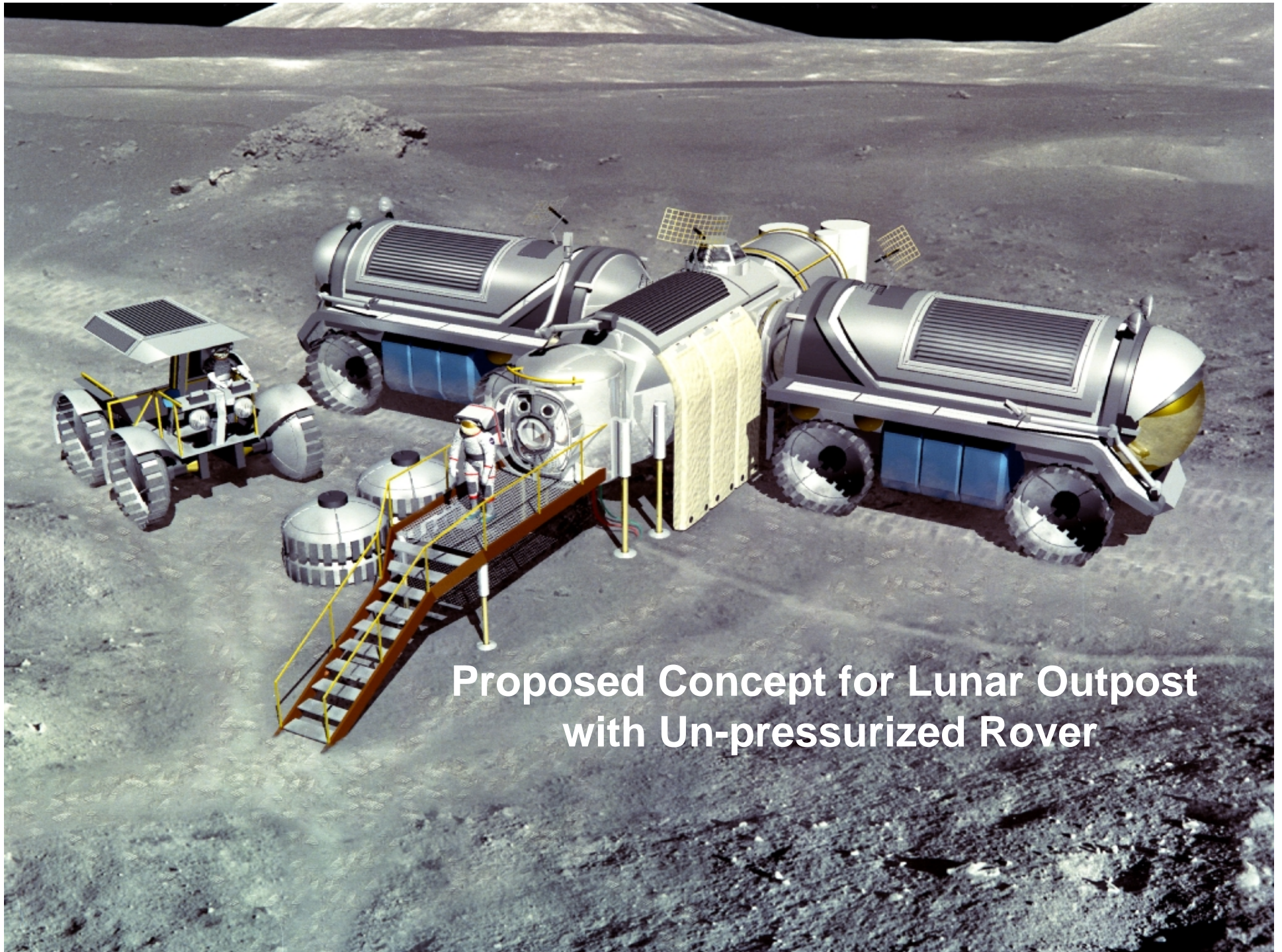
International Space Station





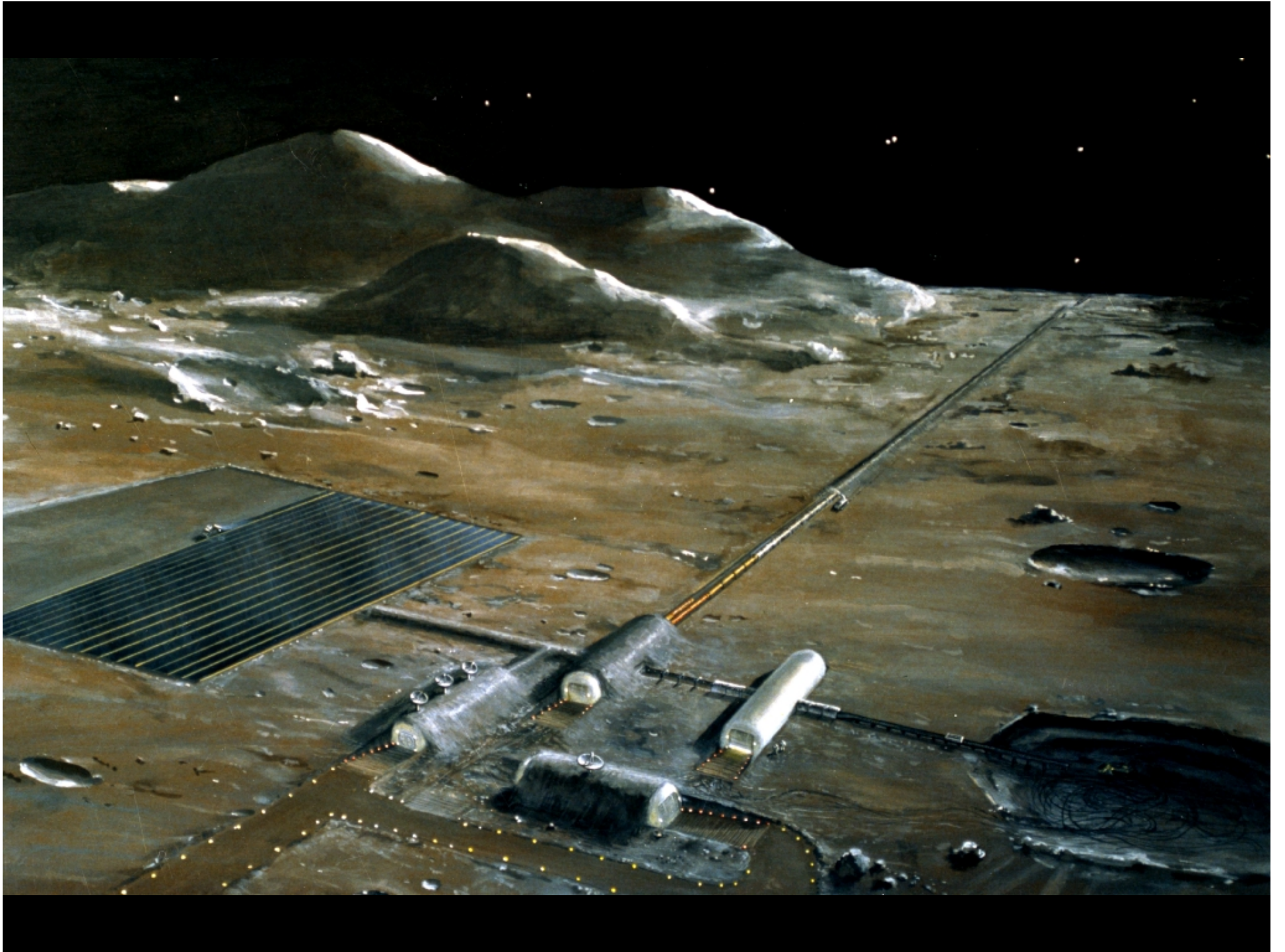




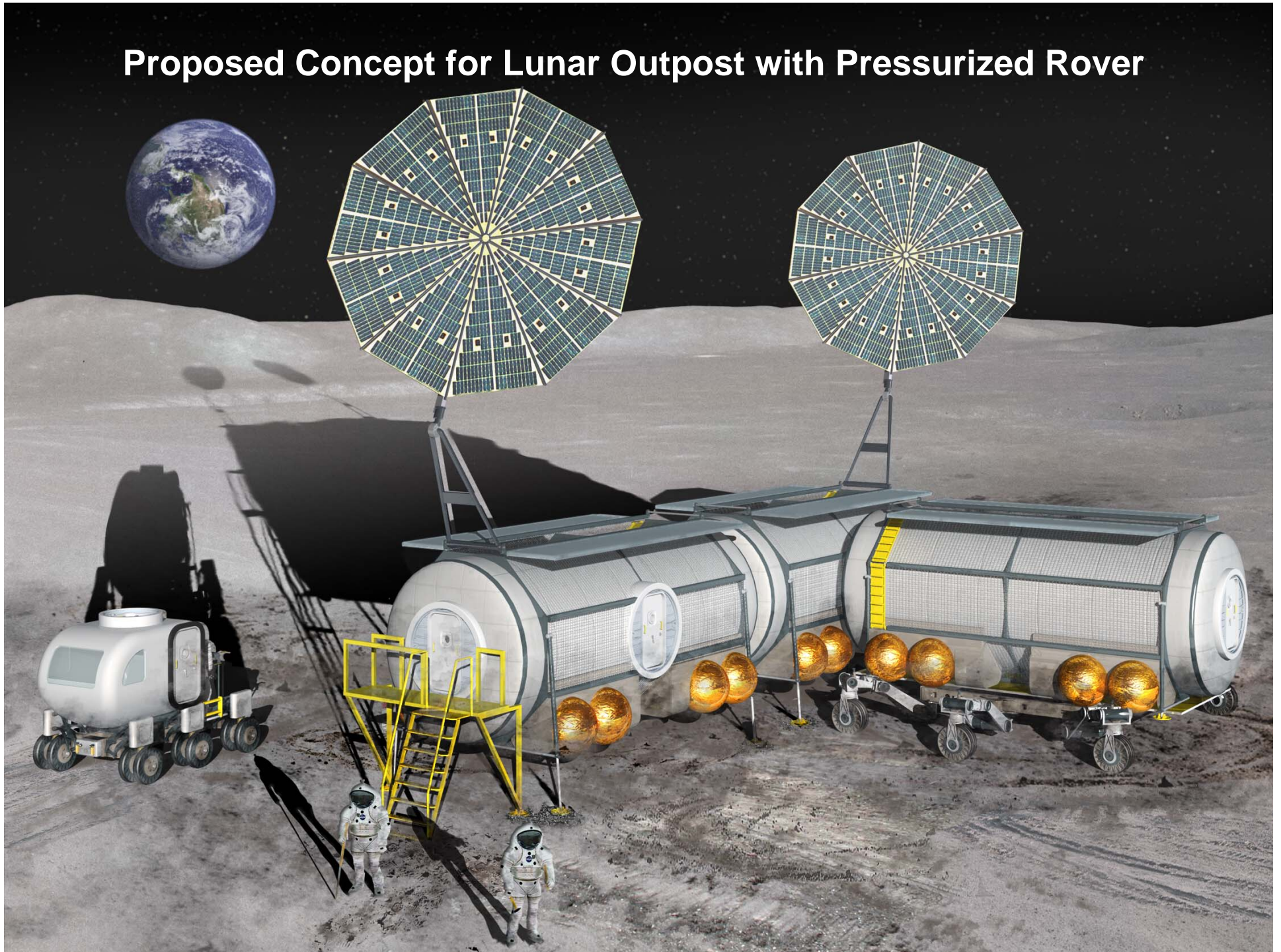


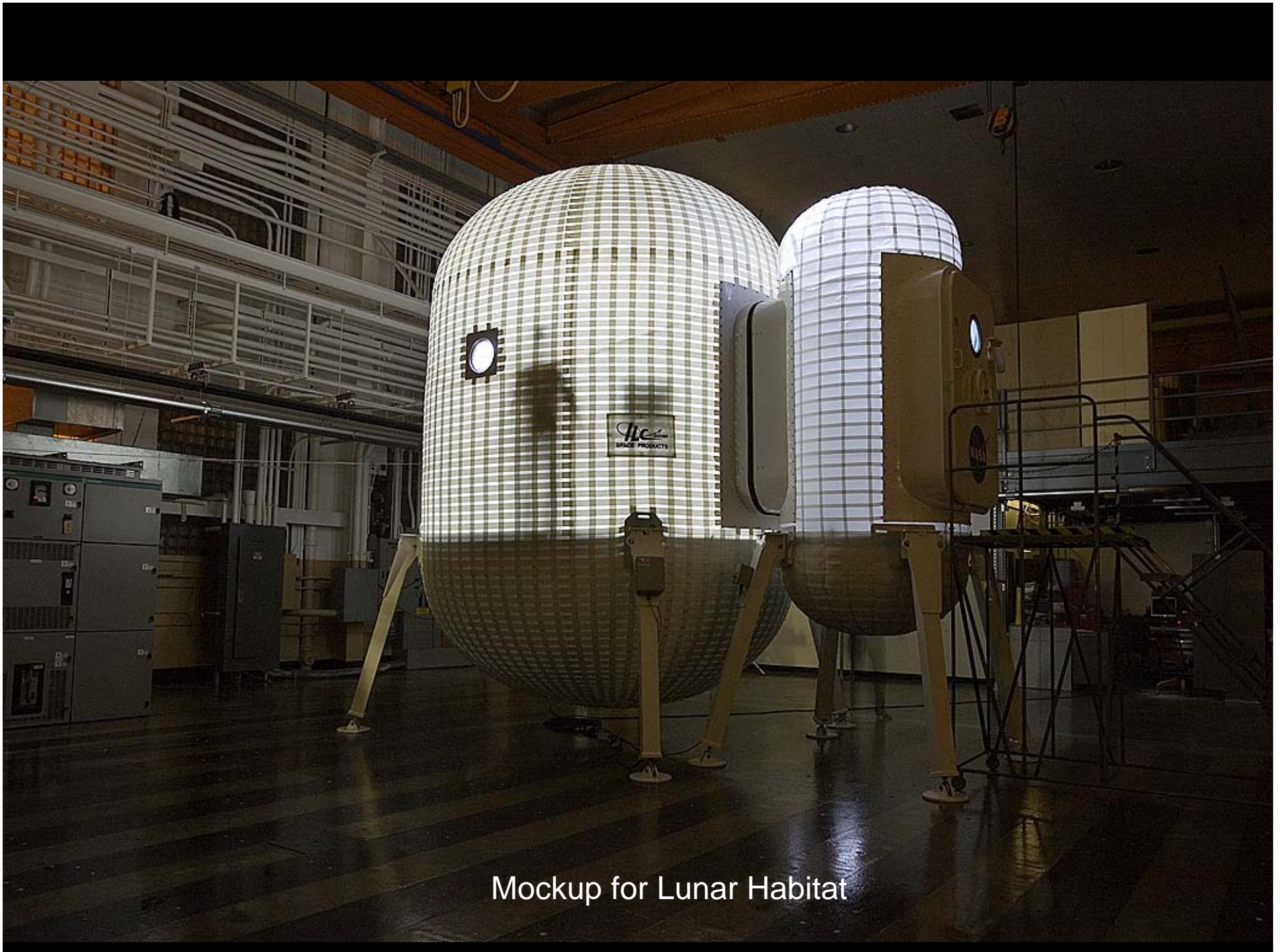
**Proposed Concept for Lunar Outpost
with Un-pressurized Rover**





Proposed Concept for Lunar Outpost with Pressurized Rover



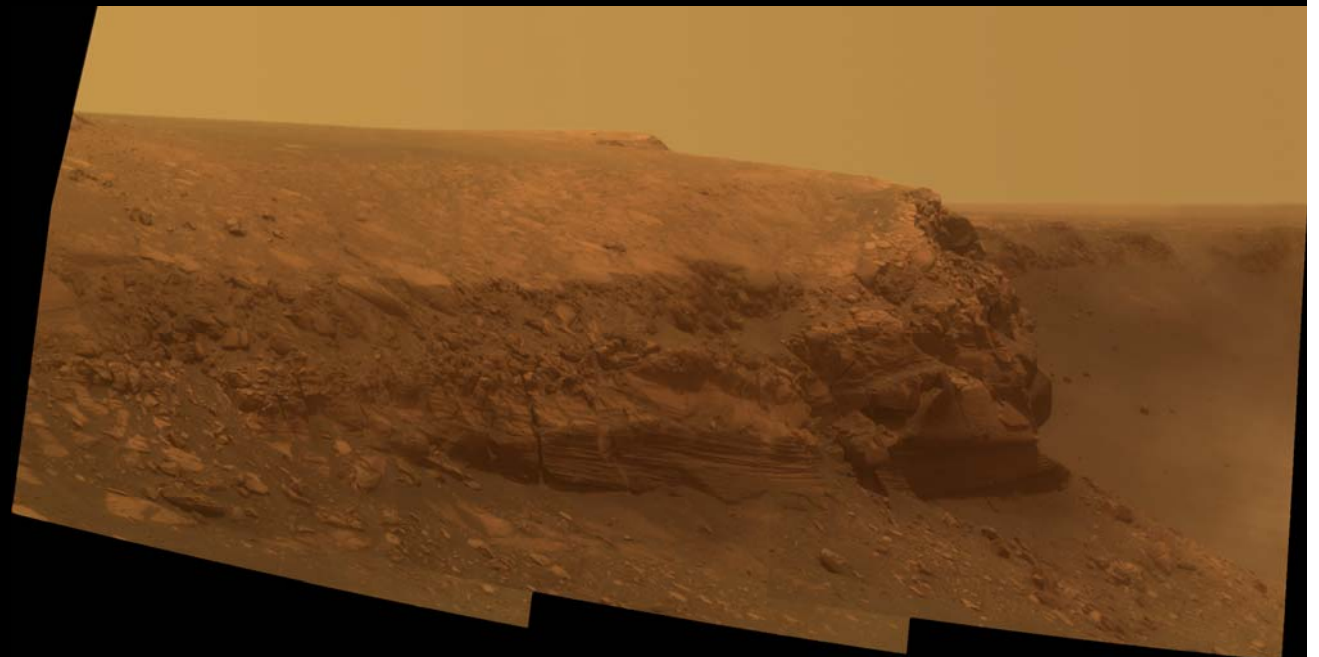


Mockup for Lunar Habitat



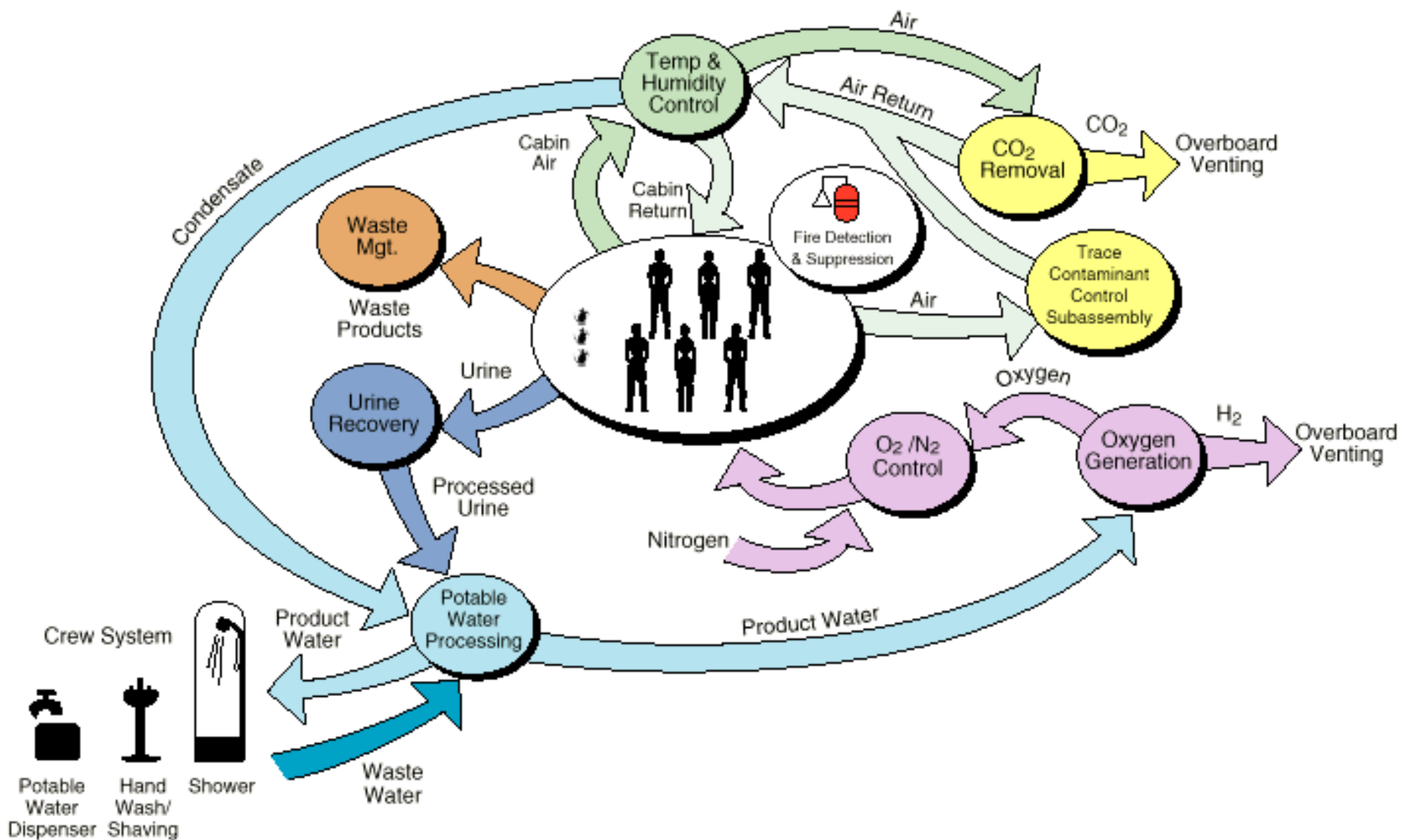


Images of
Victoria Crater
on Mars as
seen by
Opportunity
Rover



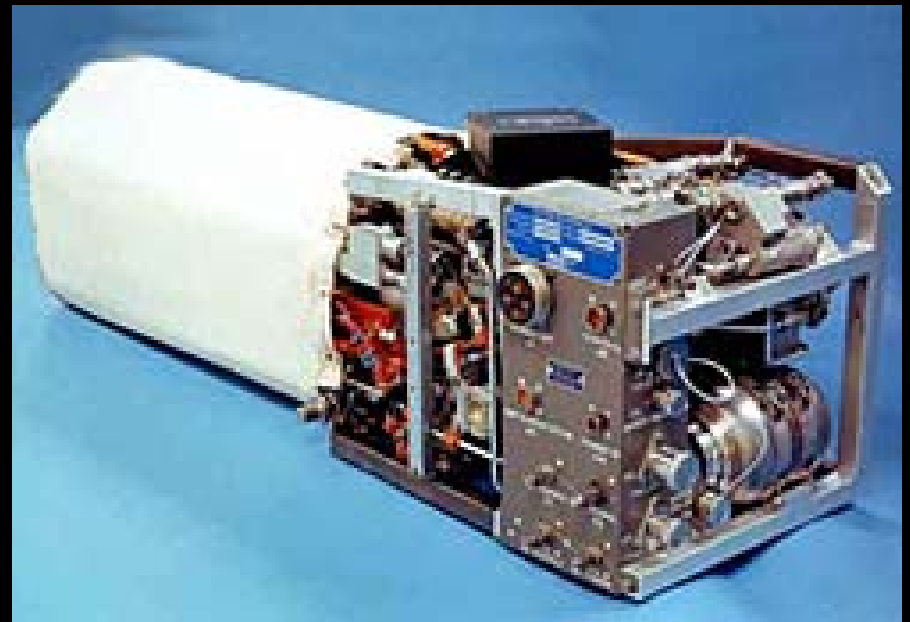


International Space Station Regenerative Life Support Diagram





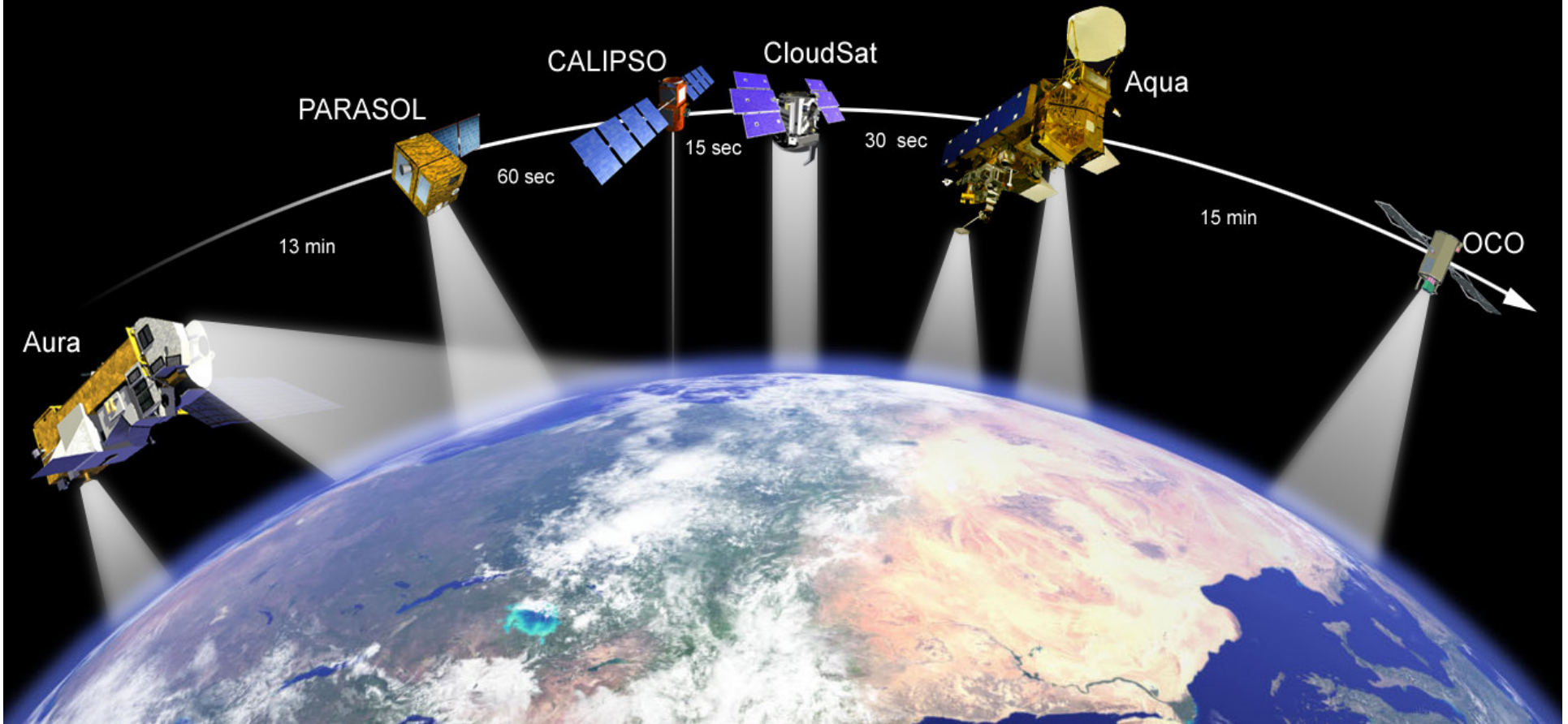
Air Filters



Fuel Cells



The A-Train



Chile

Chilean Chaitén Volcano

Argentina

Chaitén — ash

— Península Valdés

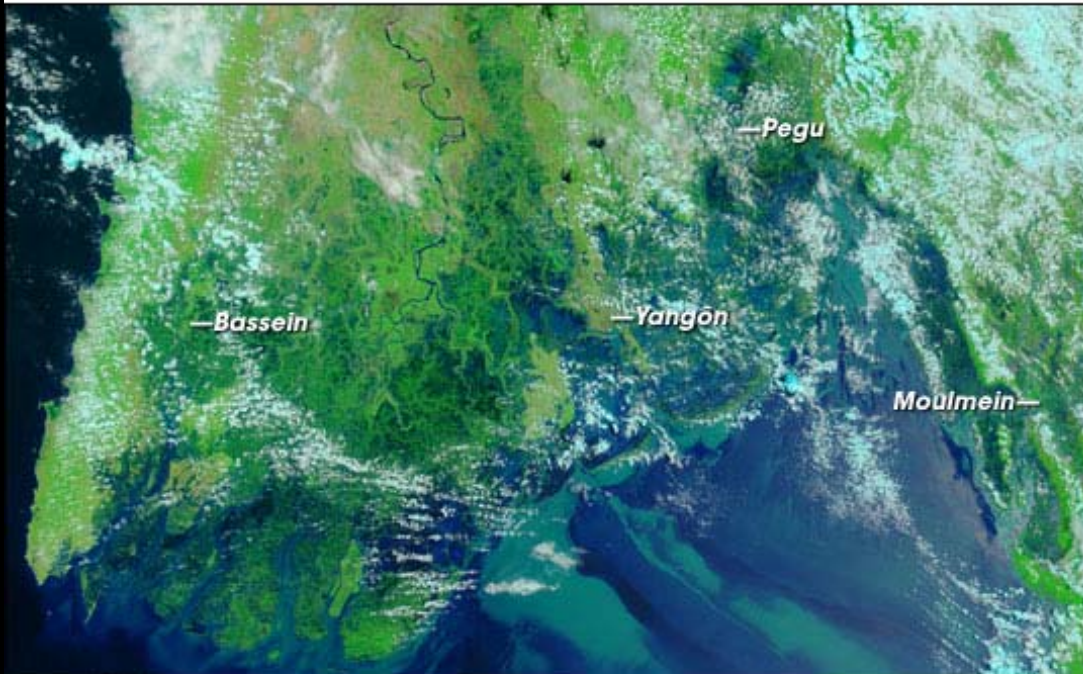
Atlantic Ocean

100 km





April 15, 2008

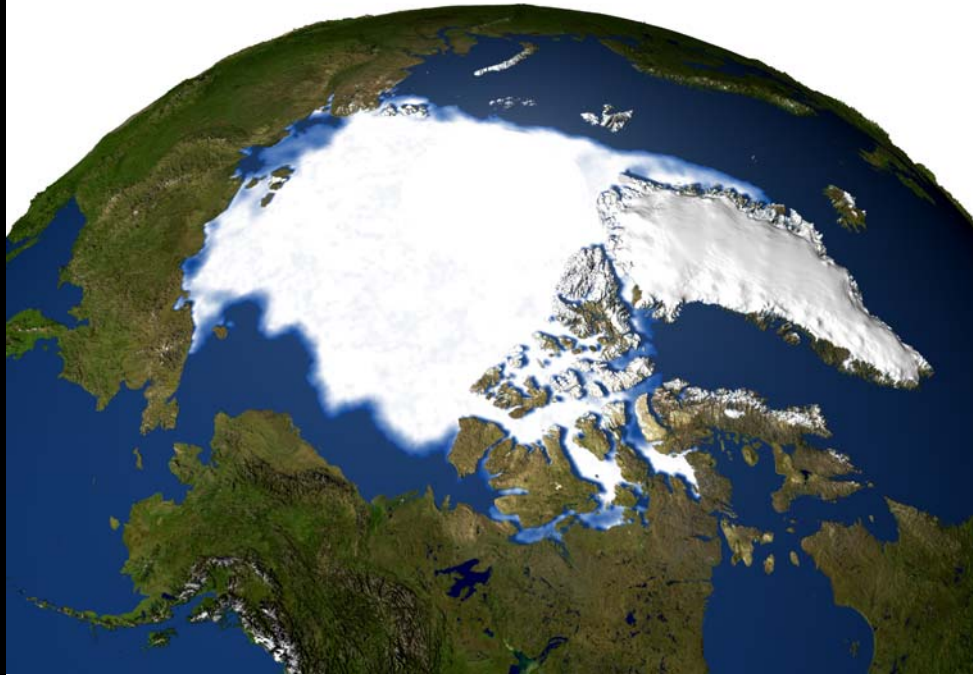


May 5, 2008

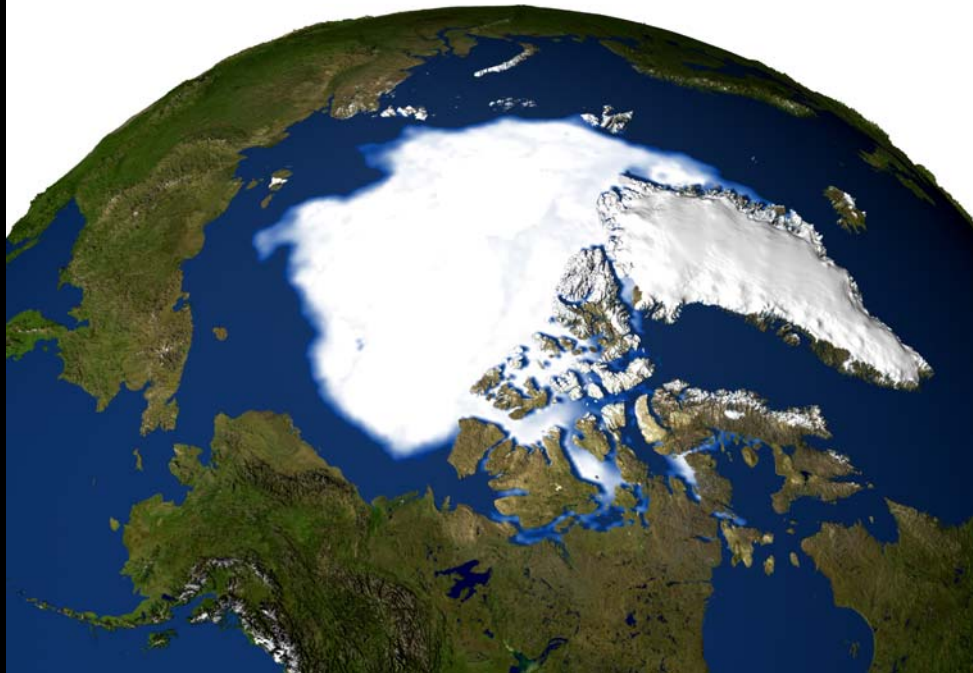
Before and After Images of Cyclone Devastation in Myanmar



**Wilkins Ice Shelf
Collapse, Antarctica
March 17, 2008**

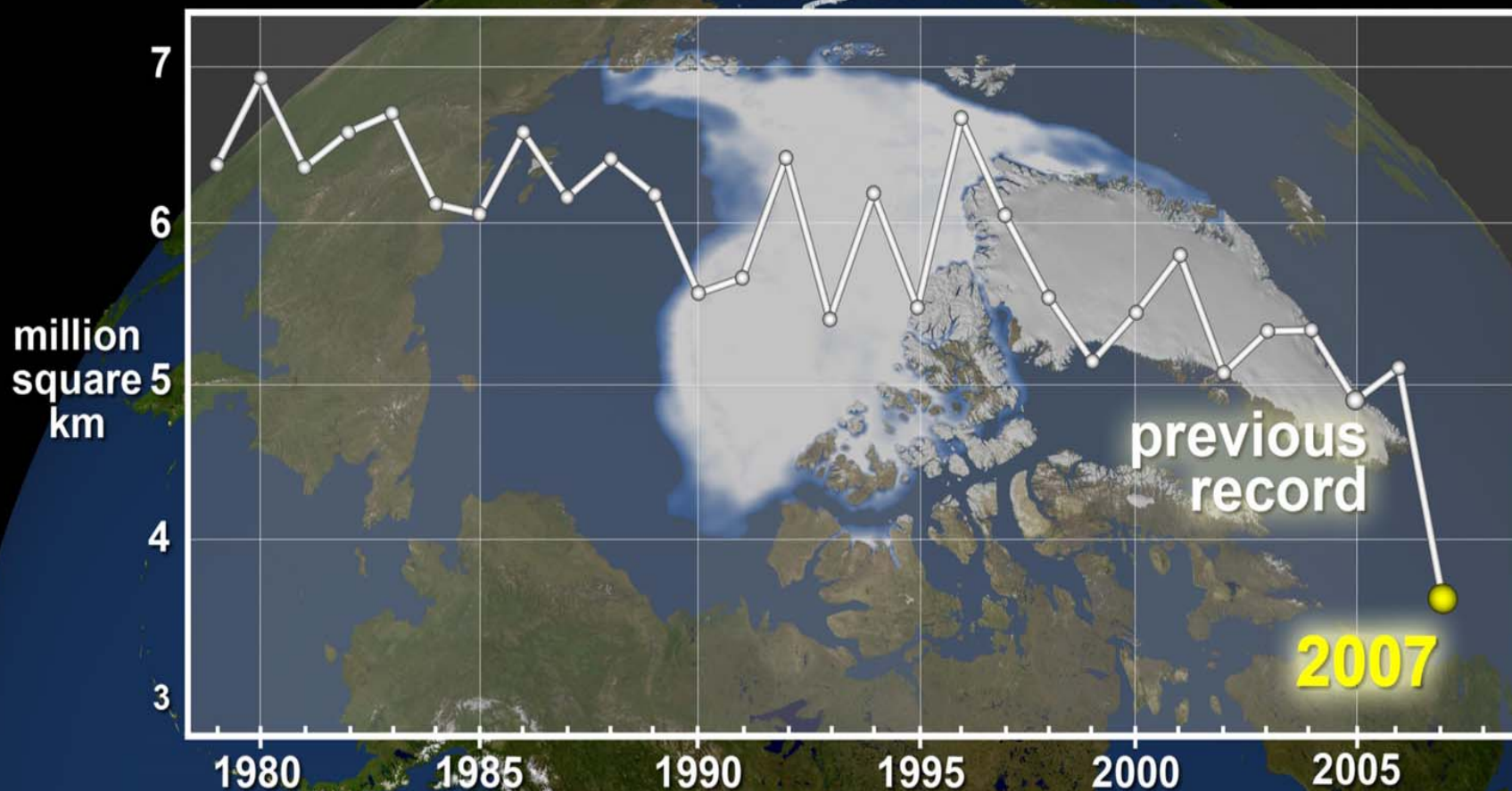


**Sea Ice Minimum
1979**



**Sea Ice Minimum
2005**

Annual Sea Ice Minimum



Examining Earth to save the future





Global Vegetation



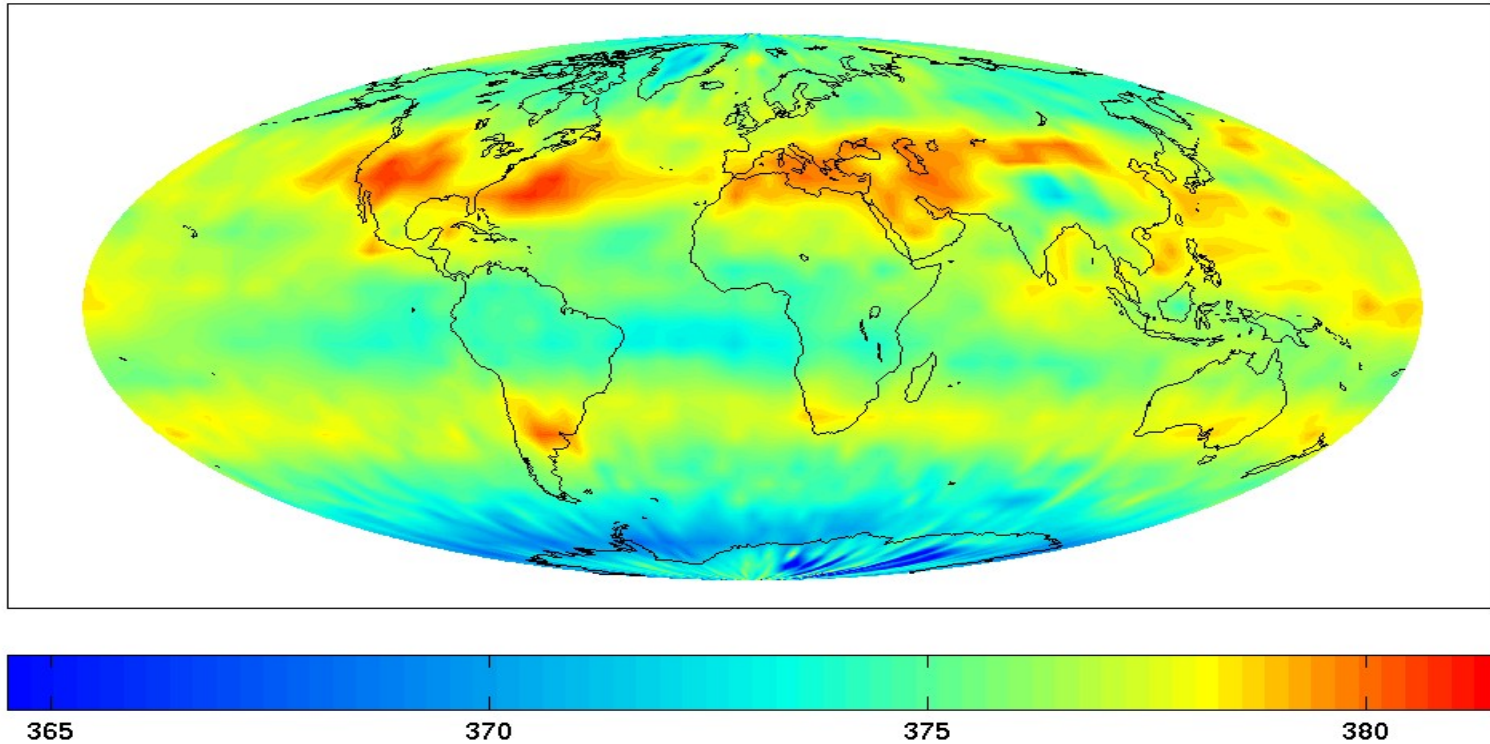
Inspiration

Innovation

Discovery

...Future

AIRS Mid-Tropospheric CO₂. July 2003, V5 Day 16 x 31



**NASA's AQUA Spacecraft in 2003
measuring carbon dioxide levels.
Red = highest CO₂ levels**

5

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***“Space exploration is about
imagining the future.”***

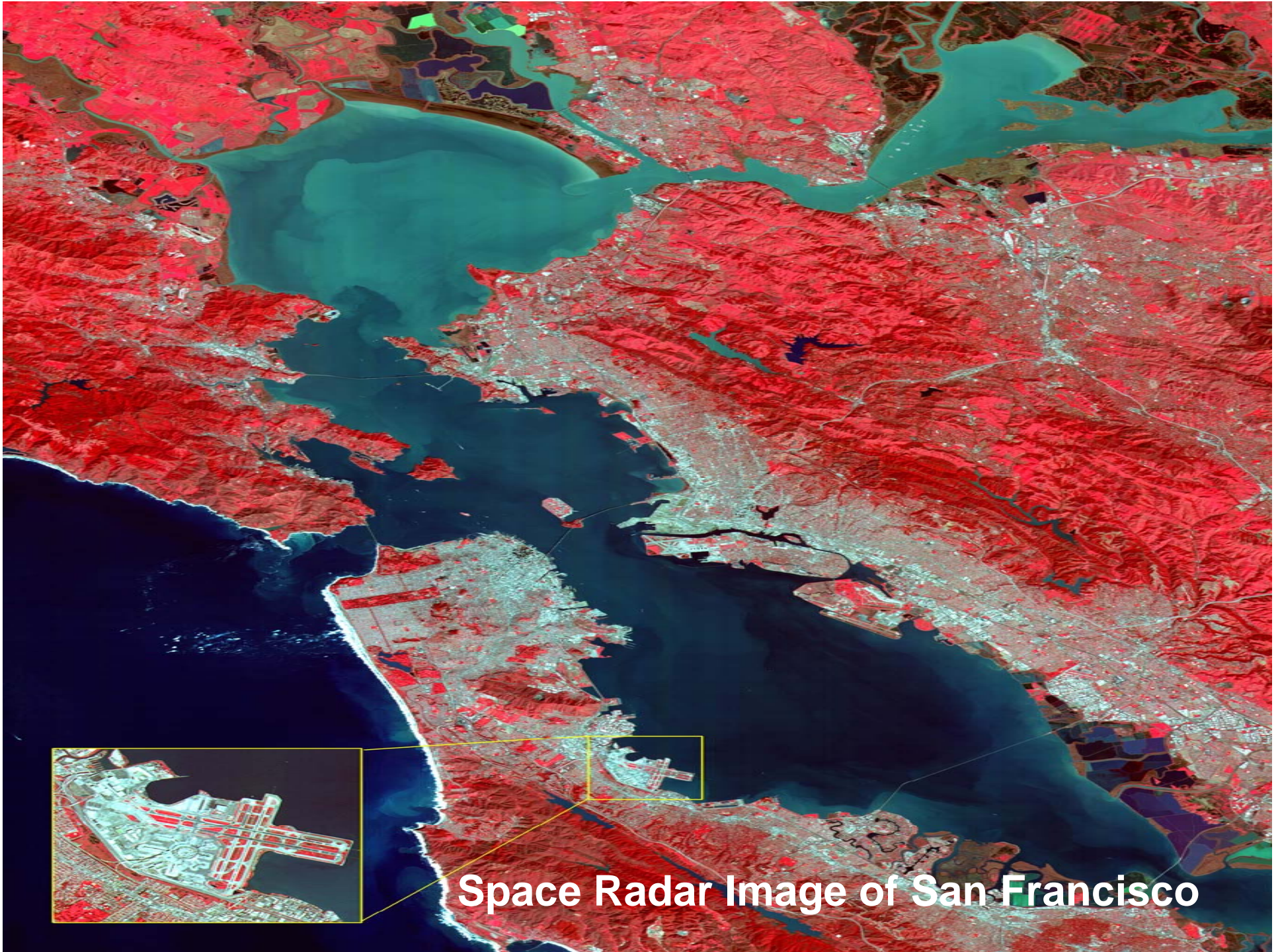
San Jose

We'll never stop exploring

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ZZ 94633 - UNCHARTED
●
PROBE LOCATION
7-20-2010





Space Radar Image of San Francisco



5

YEARS

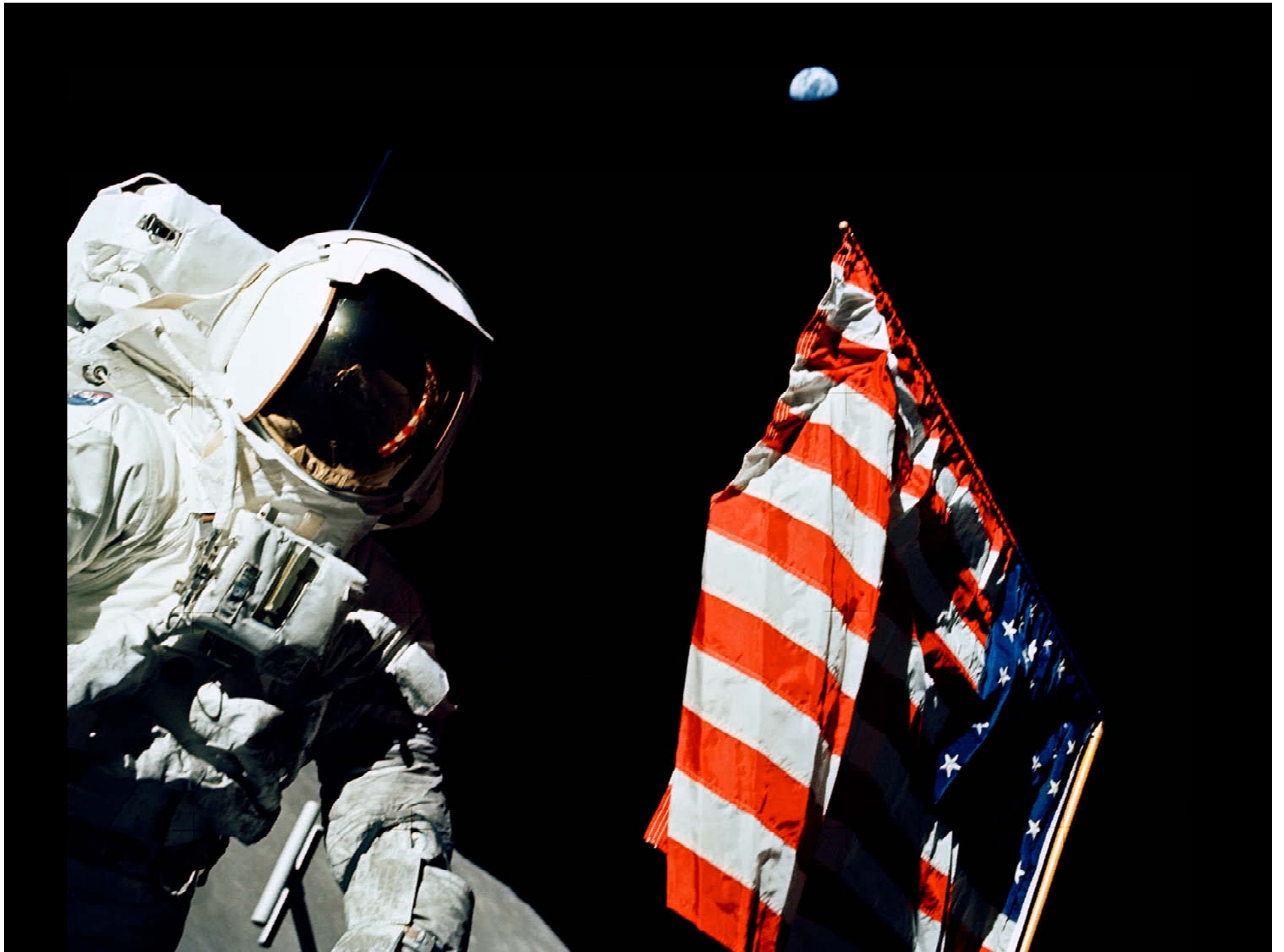




Sun peeking above Earth's Horizon photographed with a digital still camera from the Space Shuttle Columbia's last mission.



First ever photo of Earth and Moon taken by Voyager 1 in 1977





Tomorrow on other worlds



5

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NASA'S

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**The Honorable Shana Dale
NASA Deputy Administrator**

San Jose

5

YEARS



NASA'S

FUTURE FORUM



TheTech™
museum of innovation

San Jose