

POSTCARDS FROM MARS

A Photographic Journey
with the Mars Rovers
Spirit & Opportunity

Prof. Jim Bell
Mars Exploration Rover Team
Cornell University

Two amazing robot geologists...



The Rover Science Payload

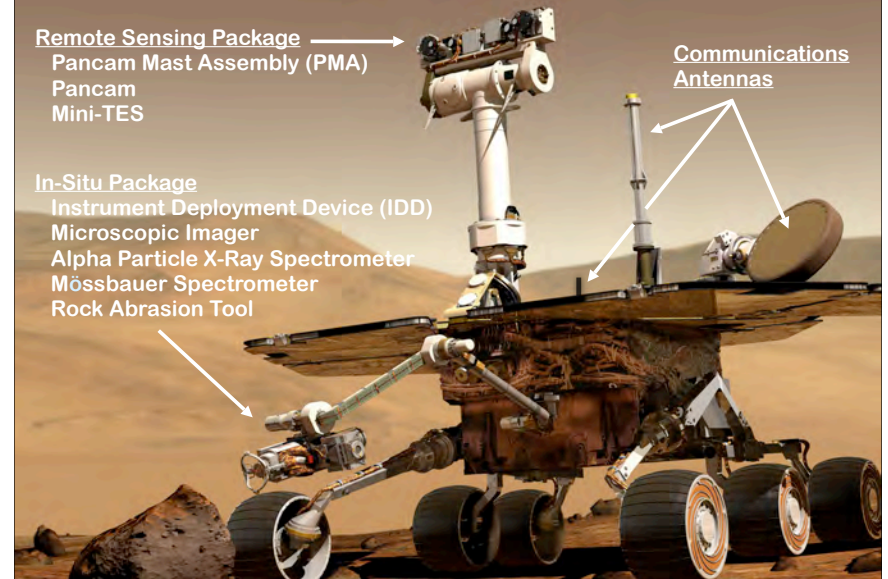
Remote Sensing Package

Pancam Mast Assembly (PMA)
Pancam
Mini-TES

In-Situ Package

Instrument Deployment Device (IDD)
Microscopic Imager
Alpha Particle X-Ray Spectrometer
Mössbauer Spectrometer
Rock Abrasion Tool

Communications
Antennas



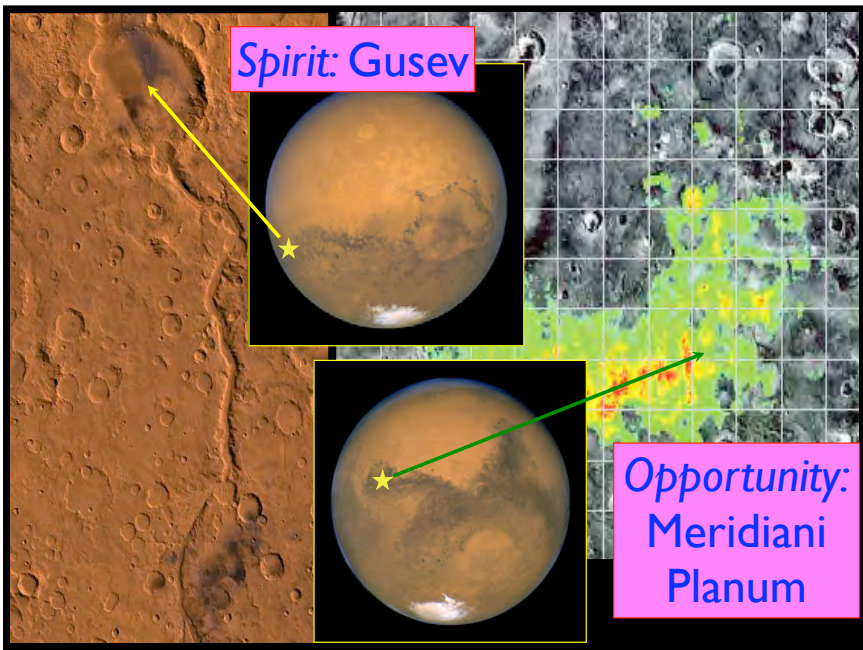
A journey of a thousand miles
begins with a single step
--Lao-tzu



"Spirit" (June 10, 2003)



"Opportunity" (July 7, 2003)



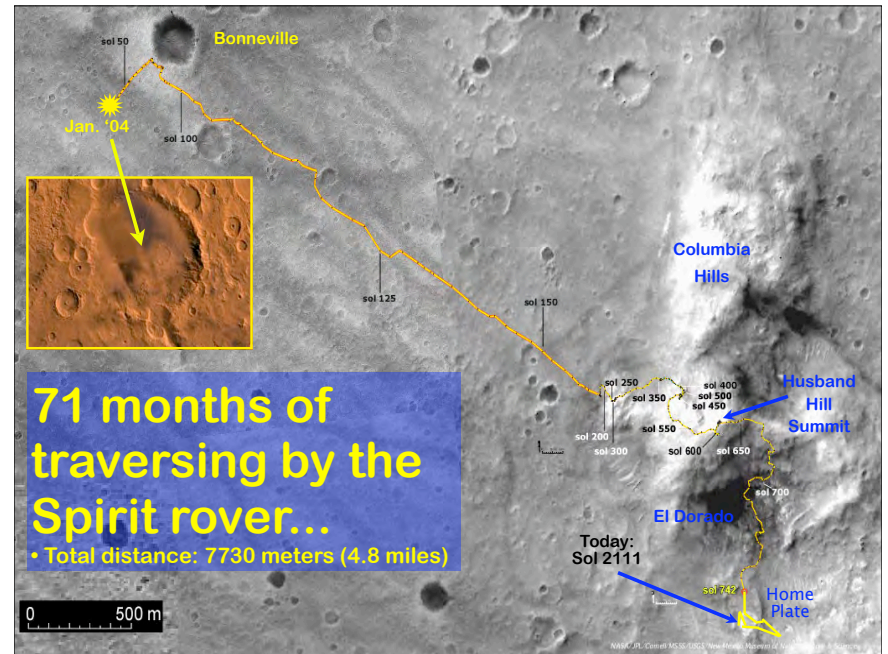
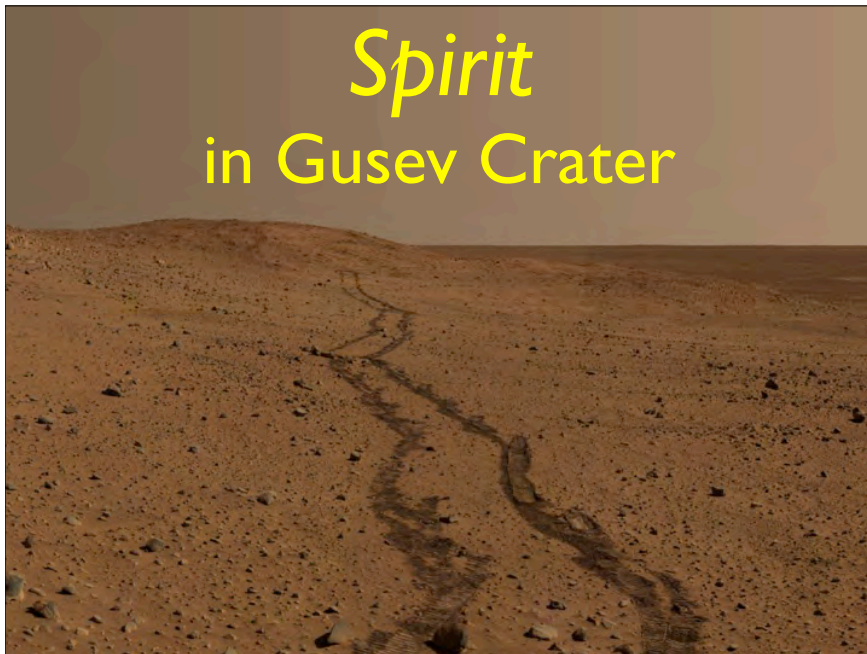
A Tale of Two Landings...

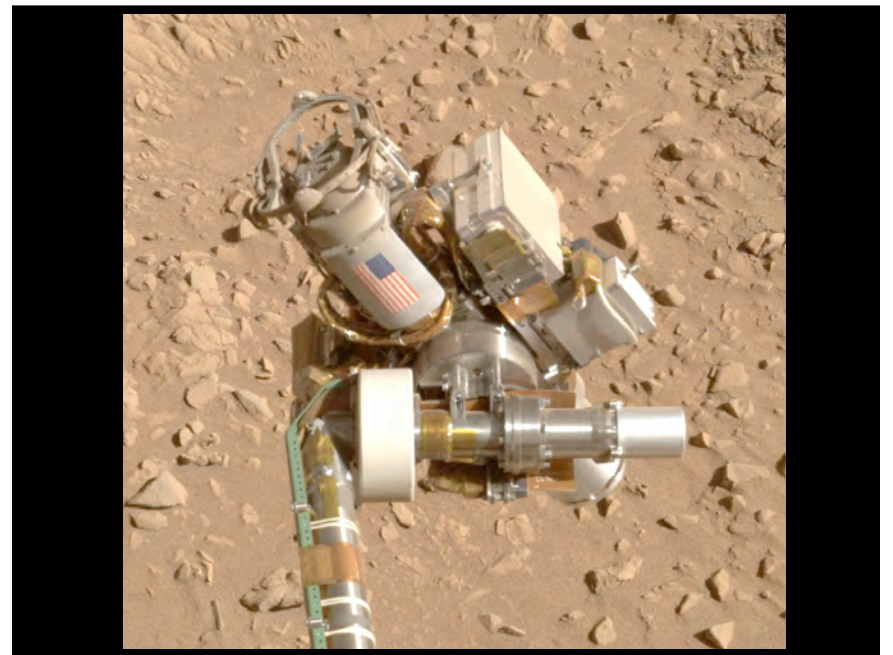
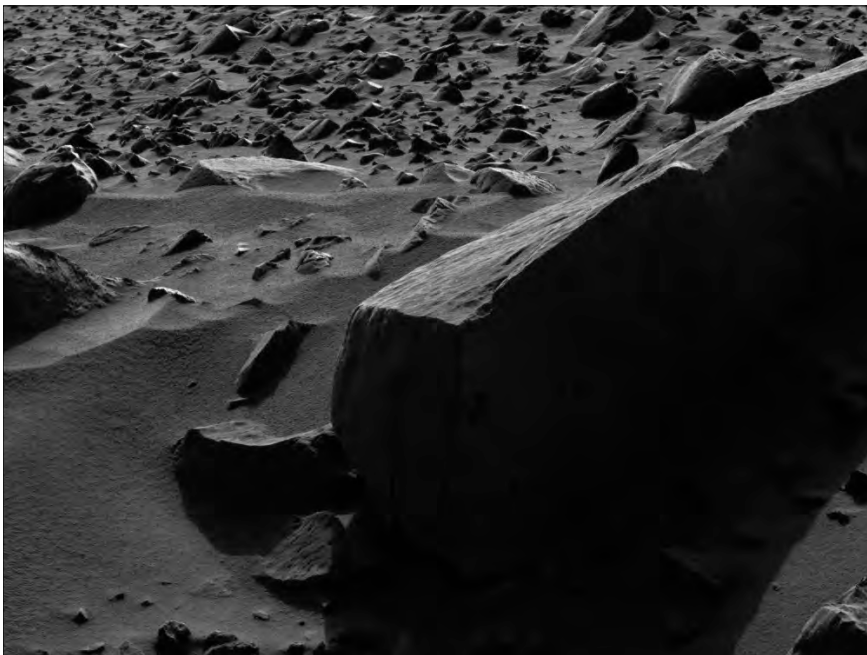
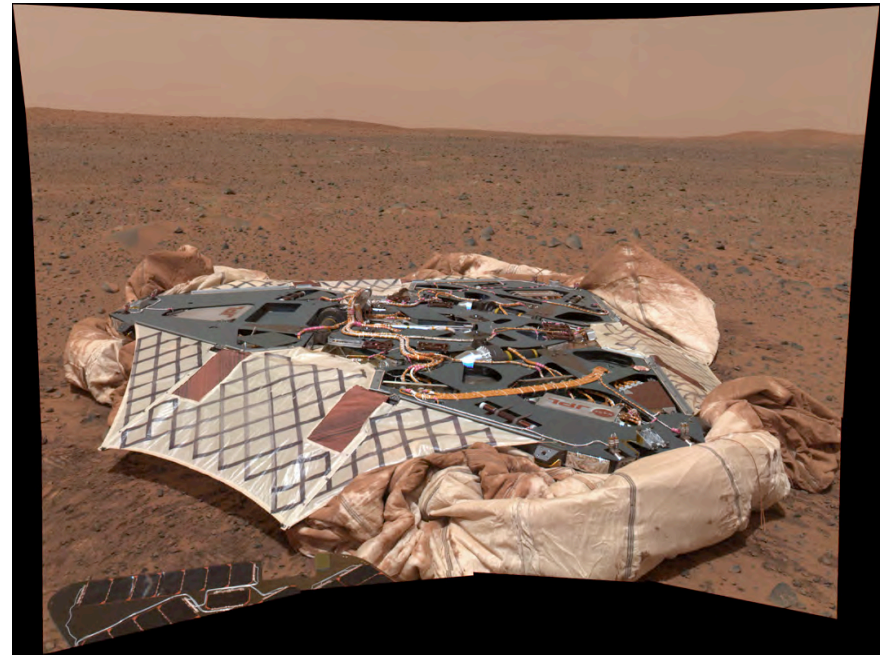
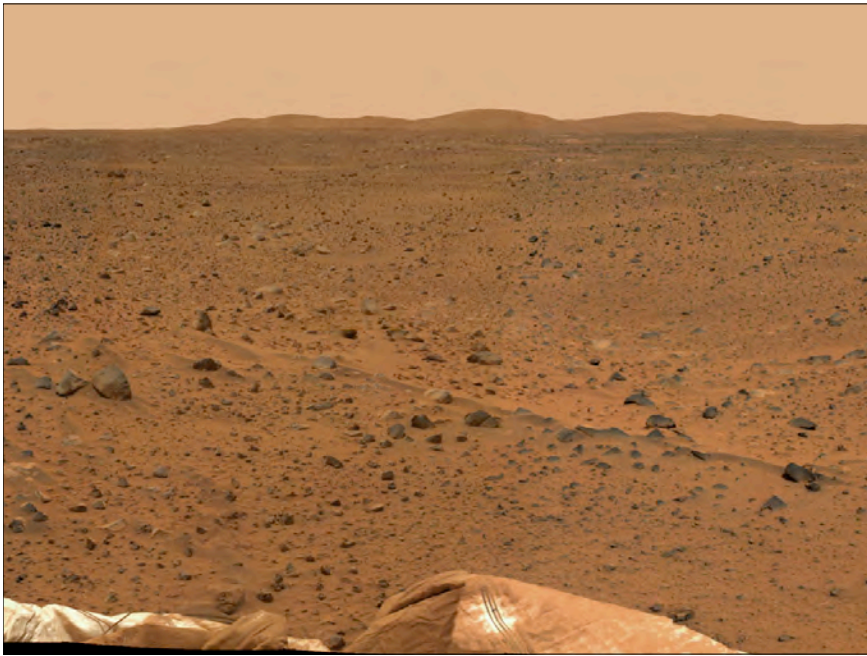


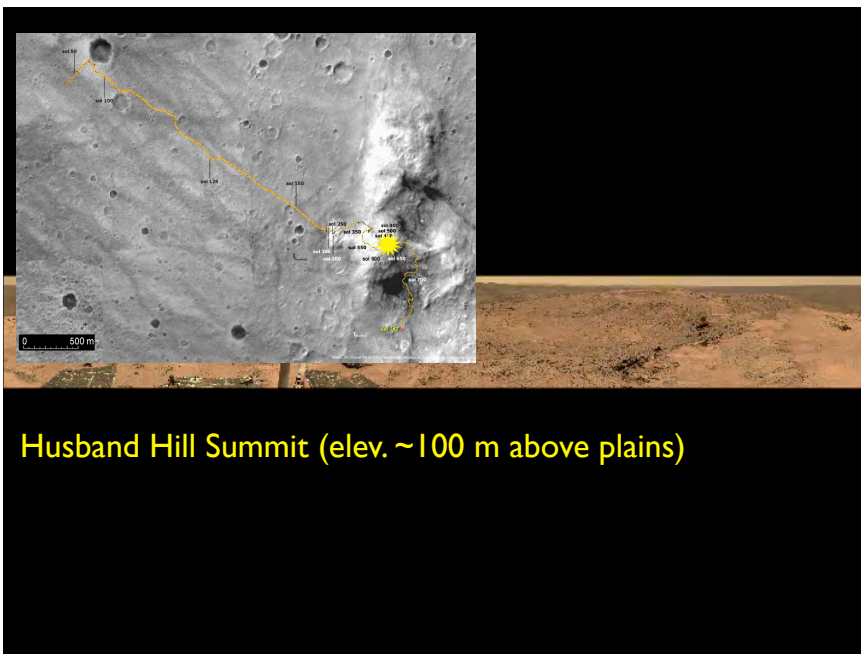
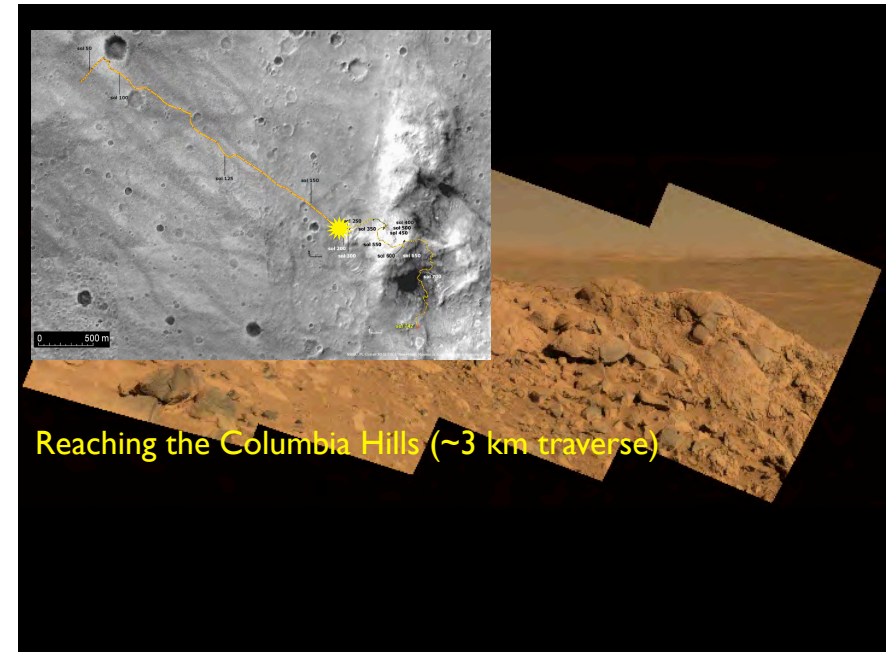
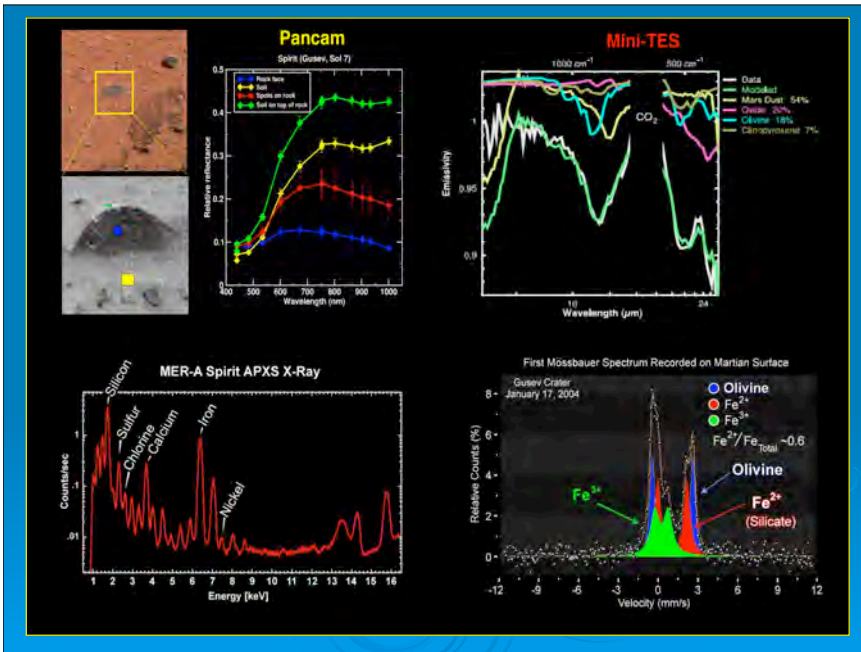
Some Favorite Postcards

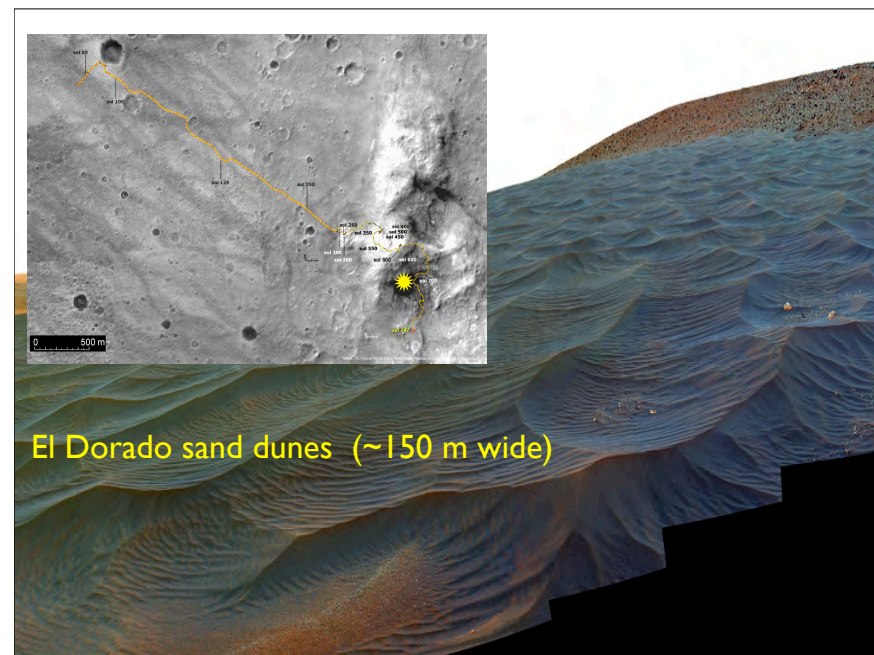
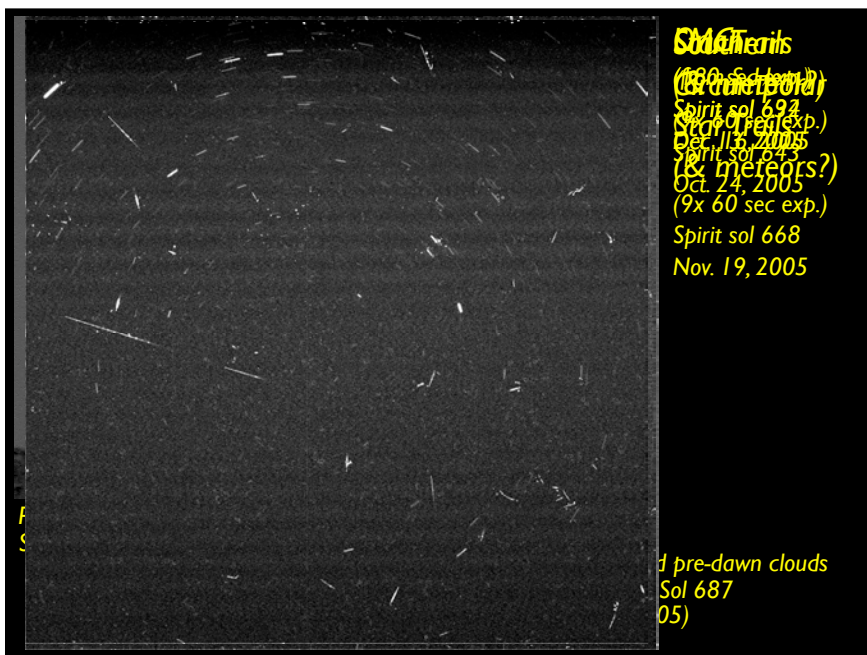
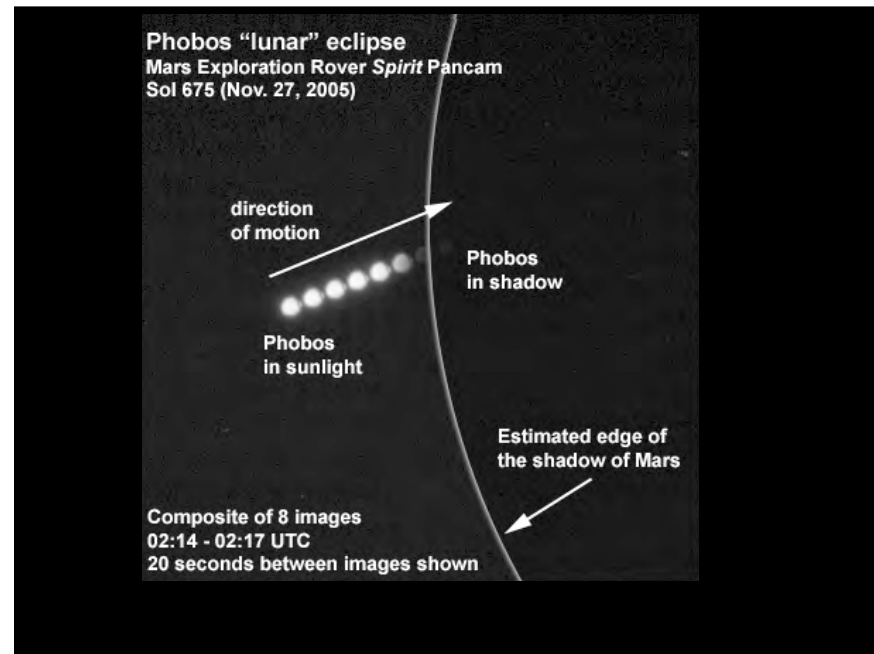
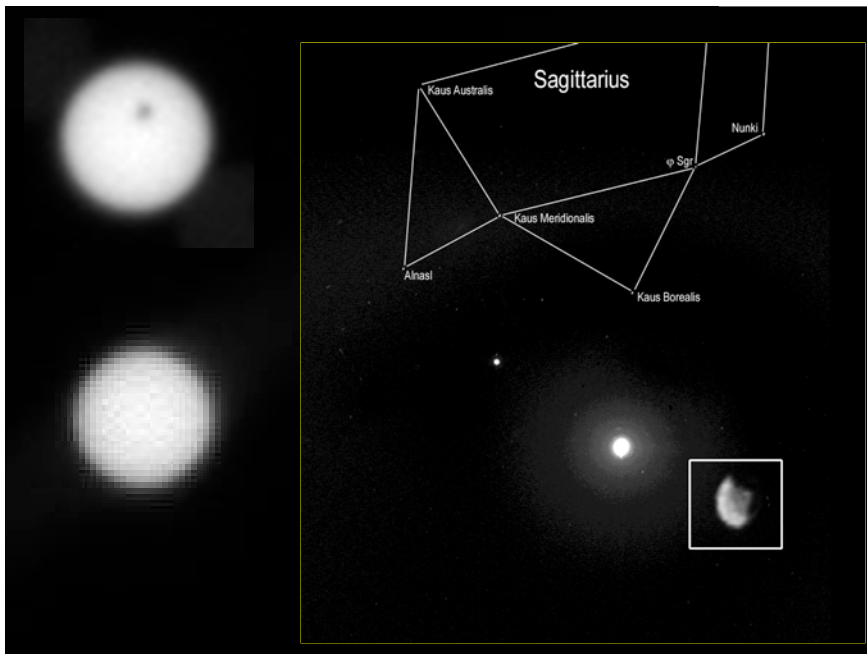
Based on, in no particular order:

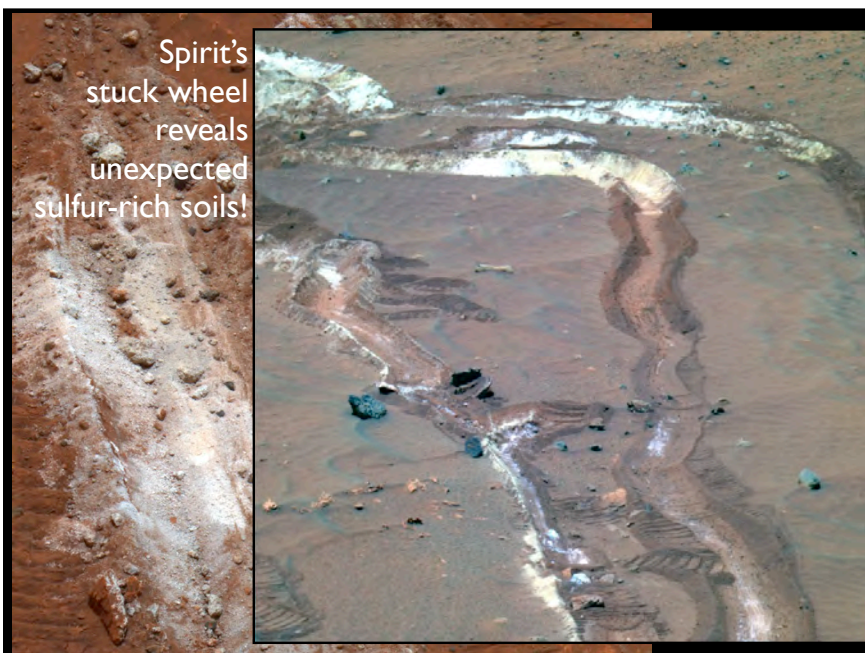
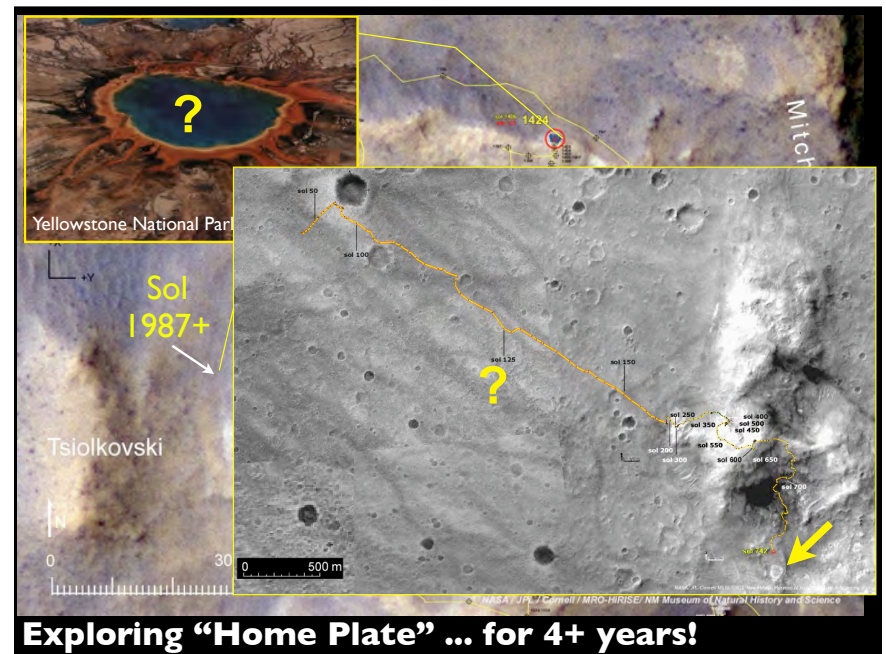
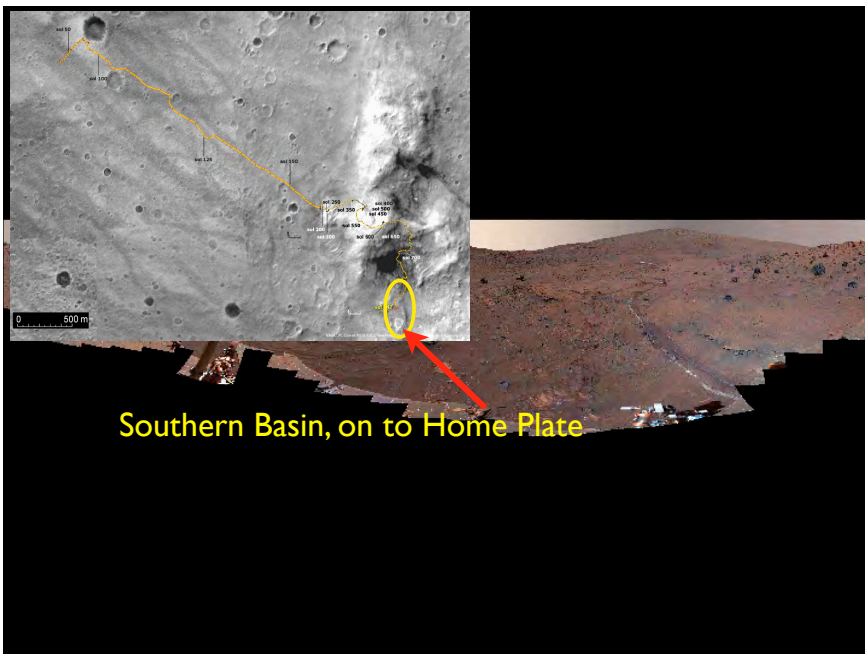
- “That’s just purty!”
- Photographic Composition
- Historical Value
- Compelling Scientific “Value”
- The Story Behind the Picture...

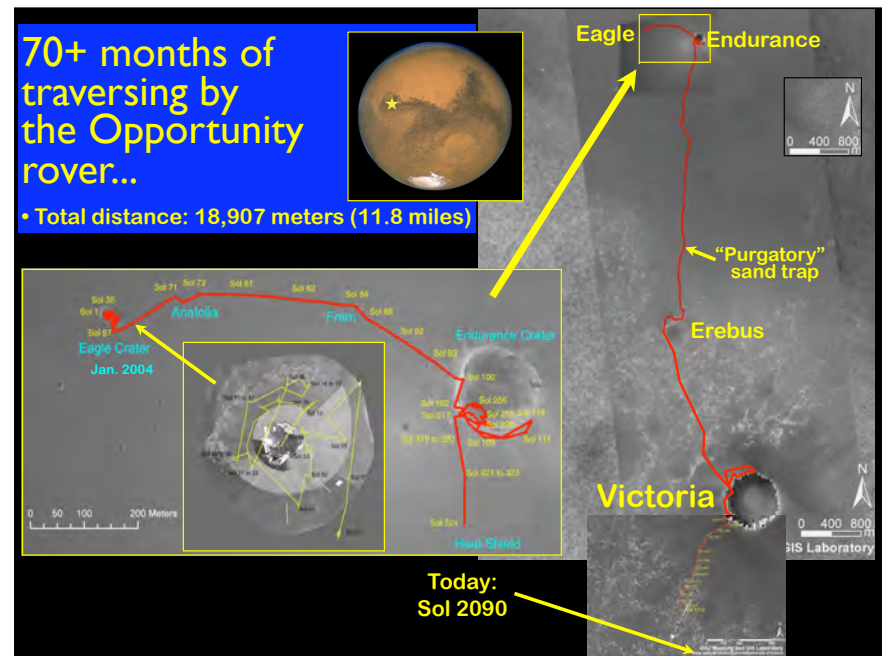


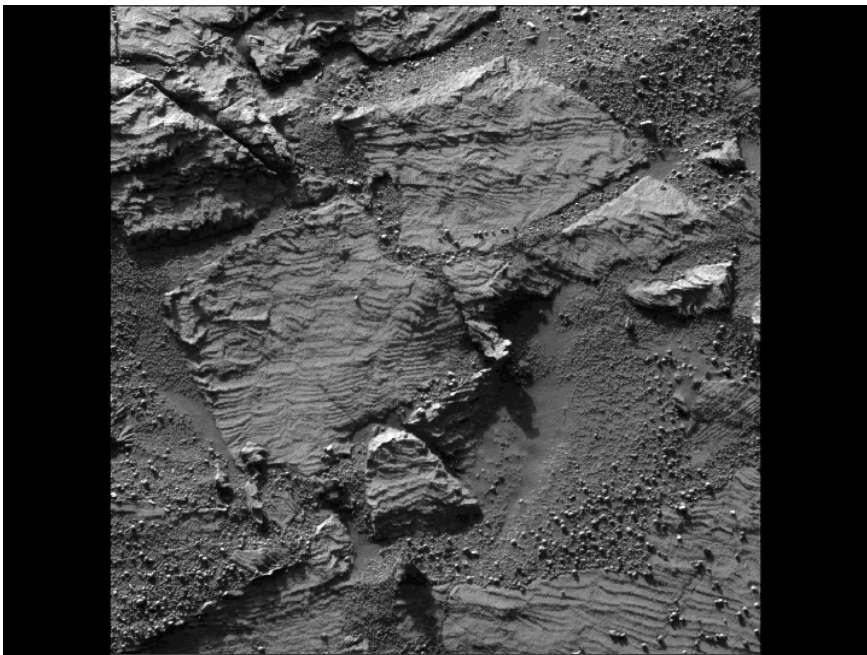
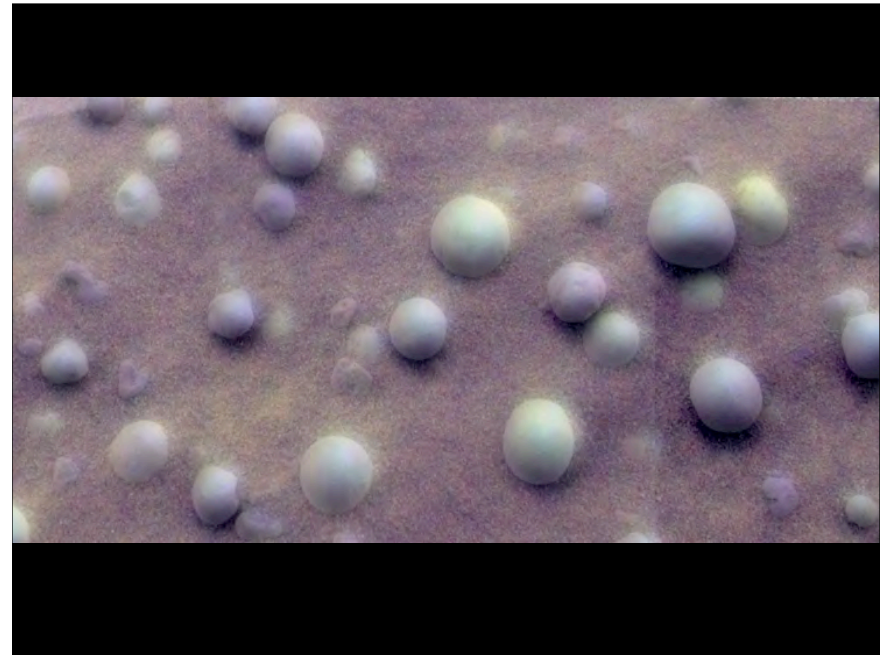
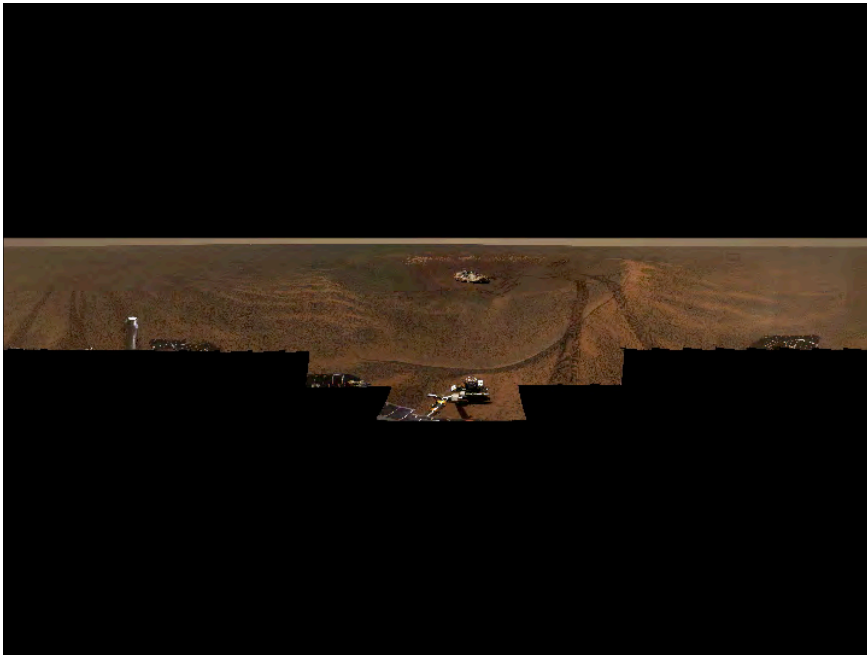


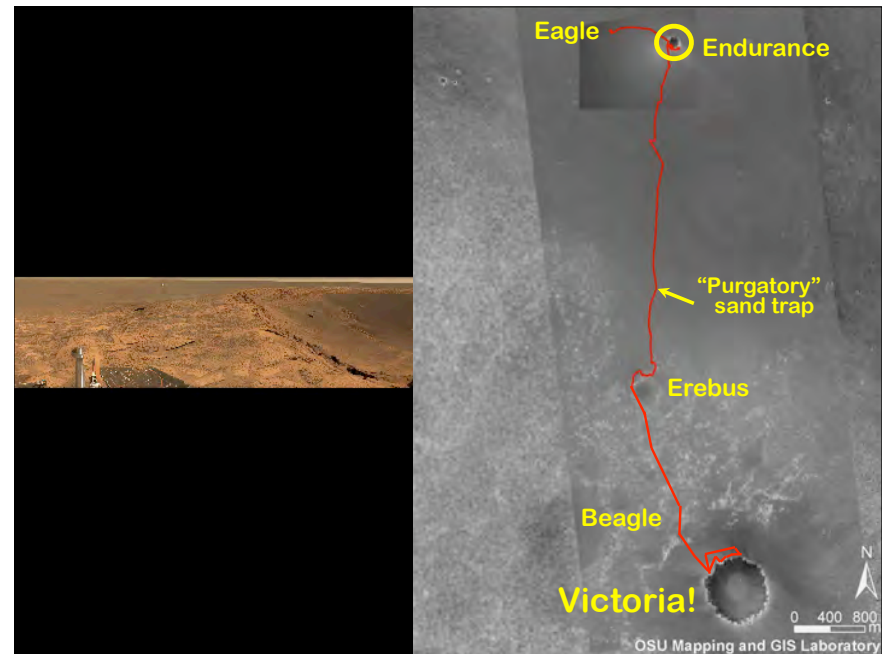
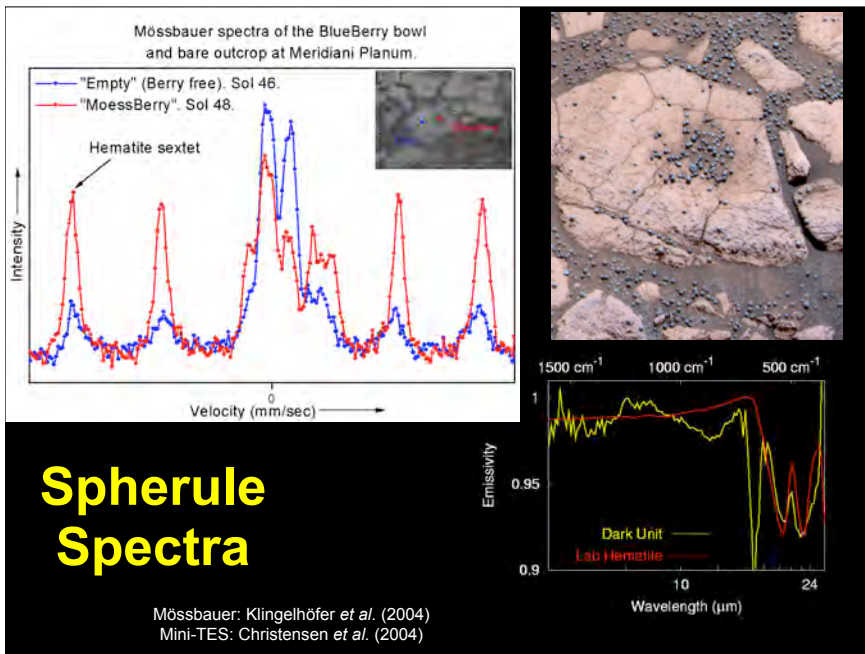


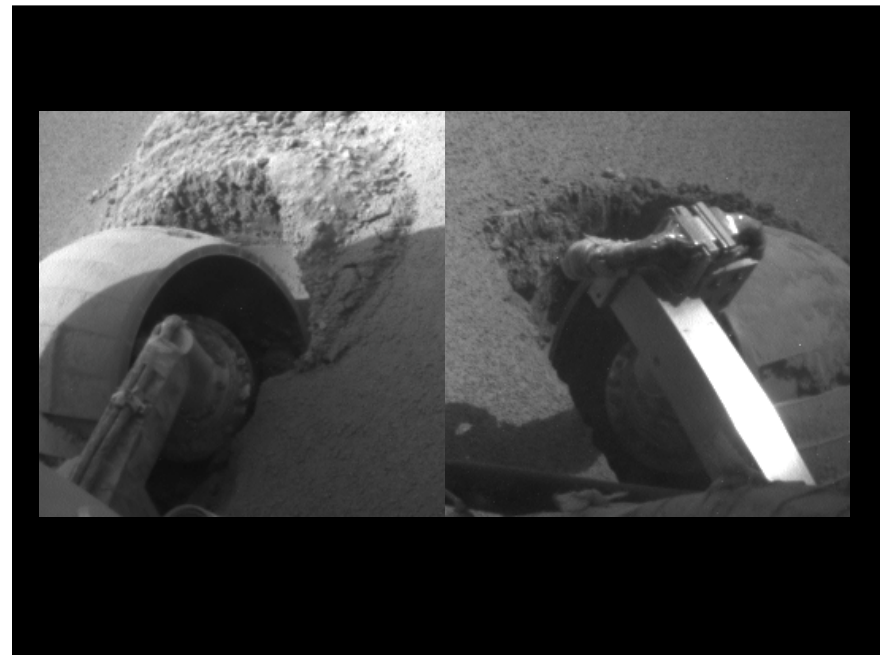
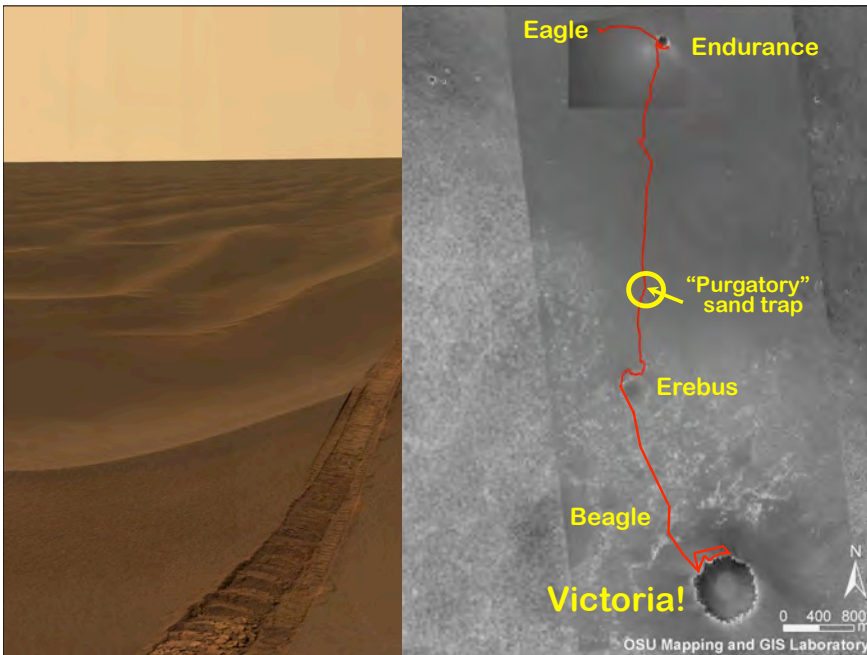
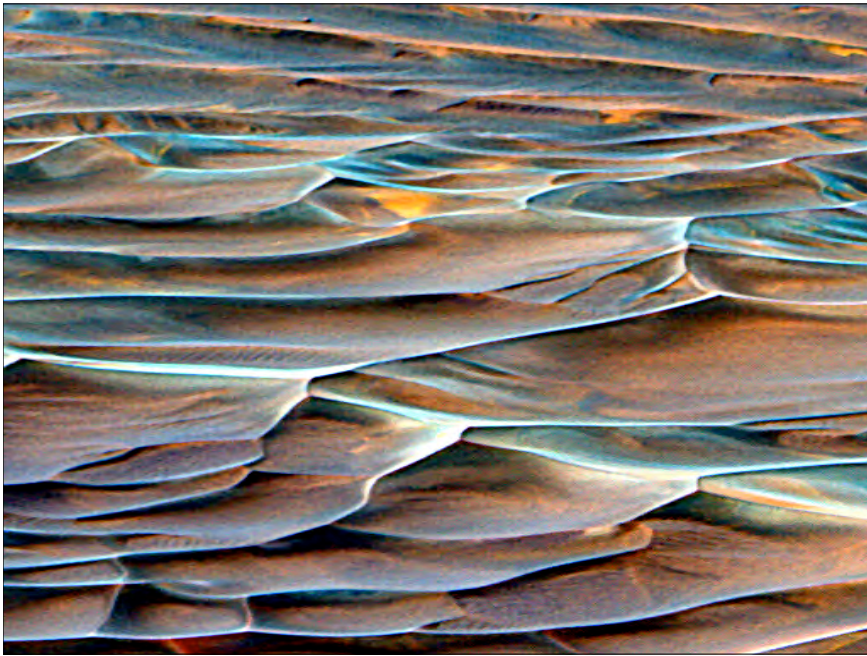


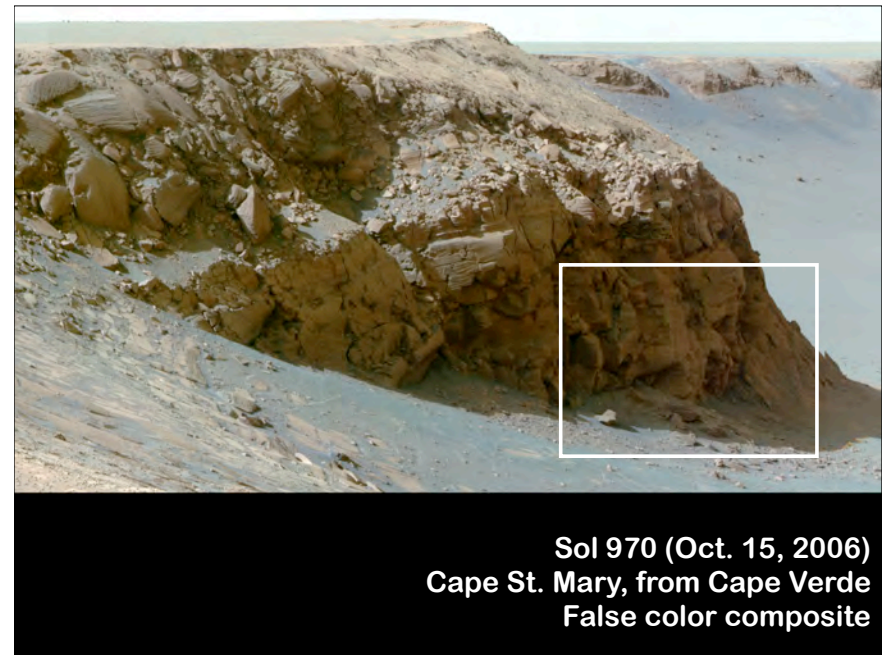
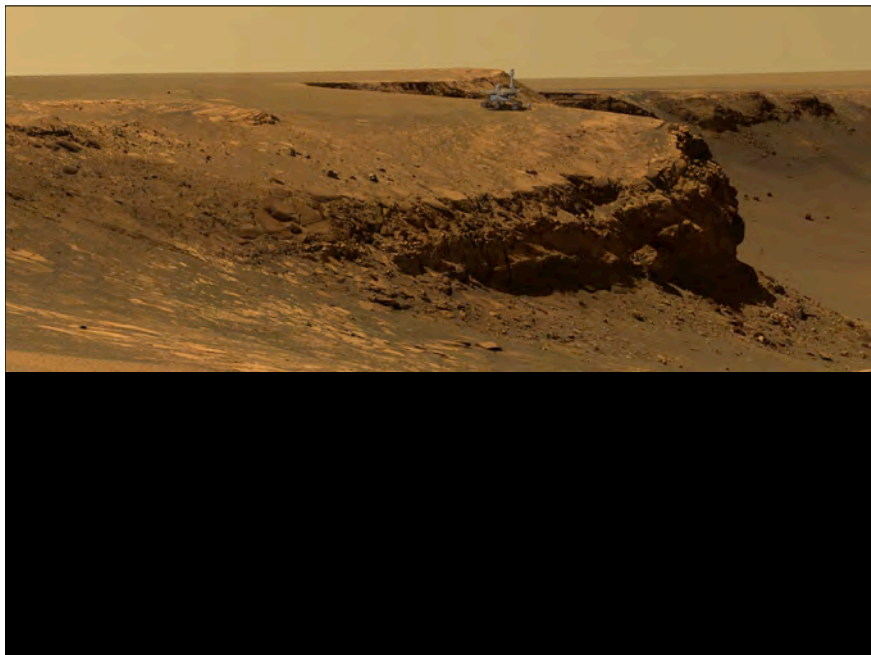
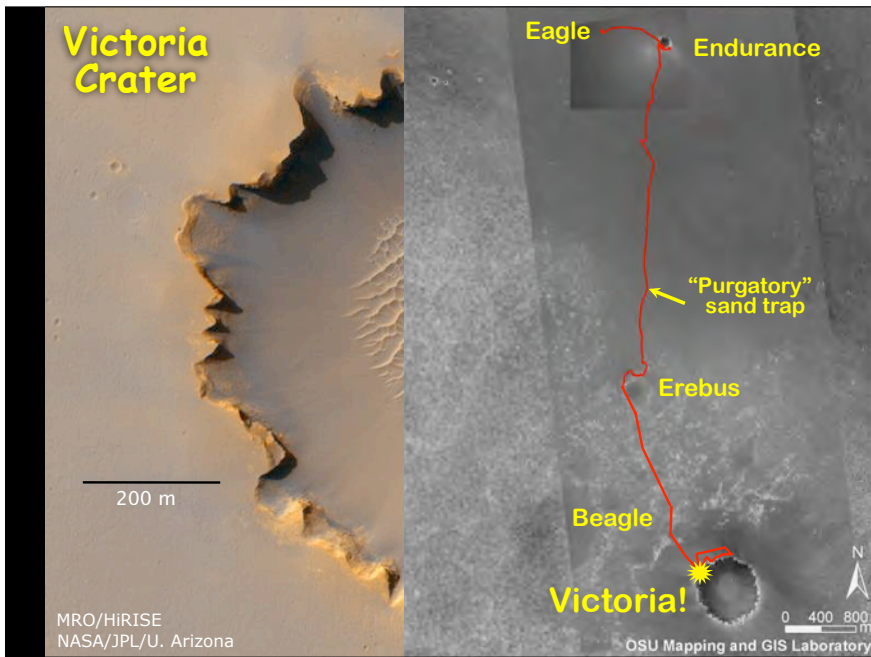


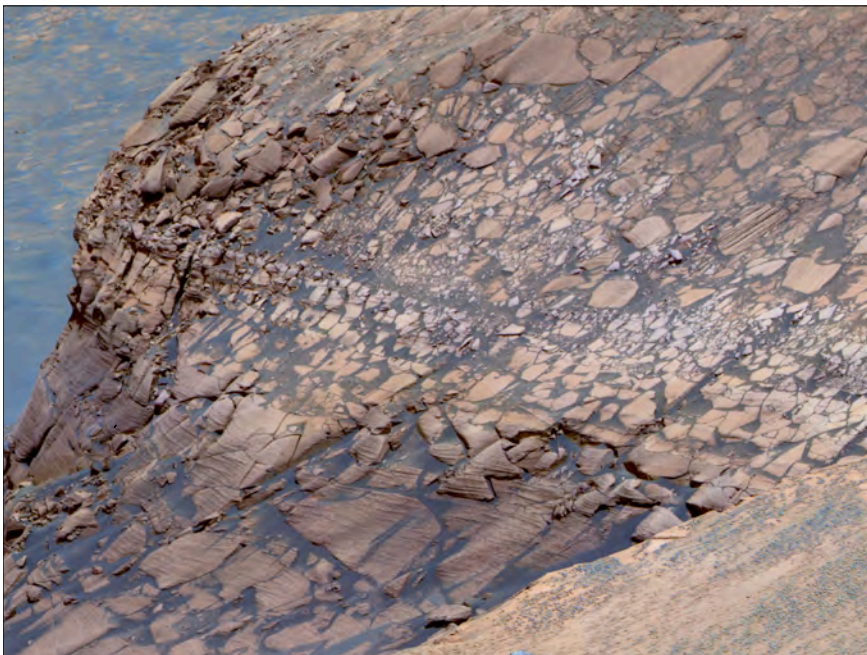




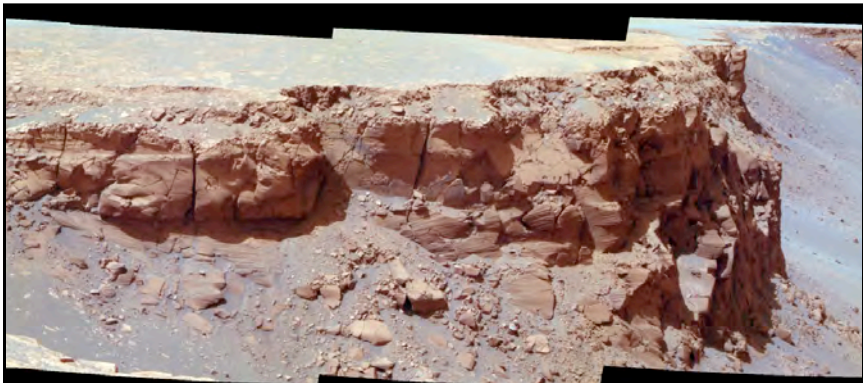








Sol 1006 (Nov. 22, 2006)
3:40 p.m. local time
Cape Verde, from Cape St. Mary
False color composite



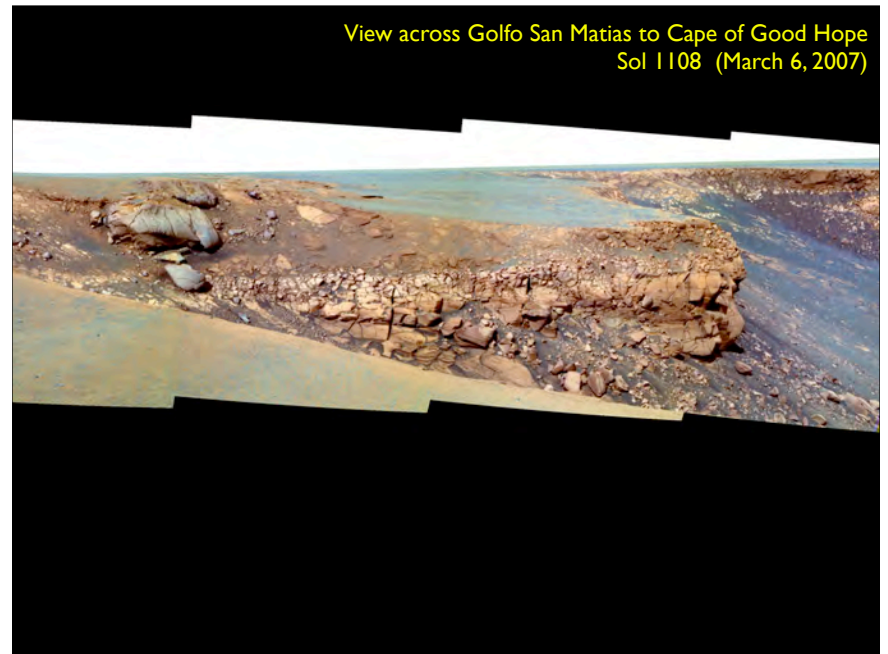
Sol 1019 (Dec. 6, 2006)
Bottomless Bay, from Cape St. Mary
False color composite



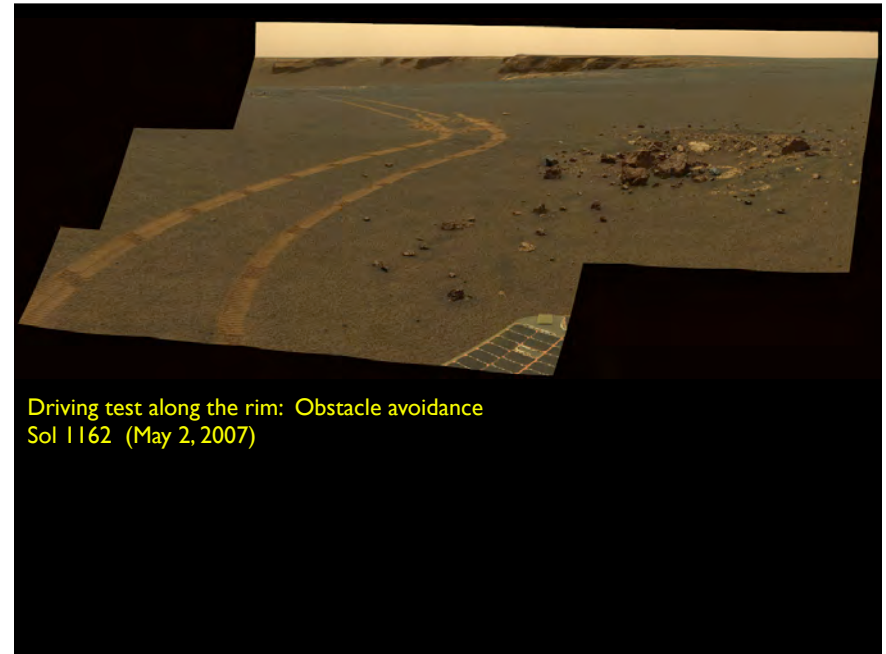
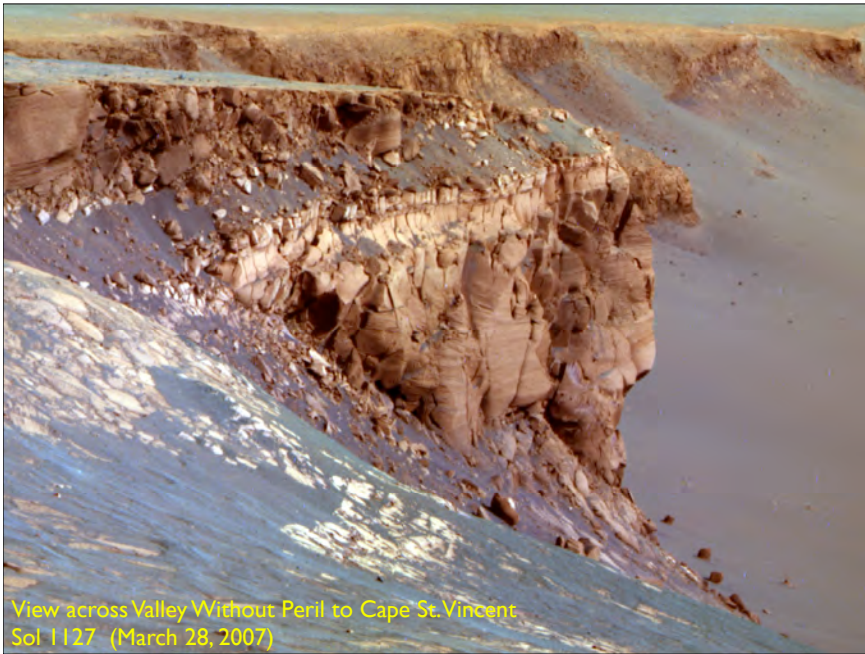
Sol 1037 (Dec. 24, 2006)
Looking across Bottomless Bay, from the northeast
False color composite



Cape Desire
Sol 1083
(Feb. 9, 2007)



View across Golfo San Matias to Cape of Good Hope
Sol 1108 (March 6, 2007)



Sol 1 → "Endurance"

Left Victoria:
Sol 1679
(Oct. '08)

Today:
Sol 2090

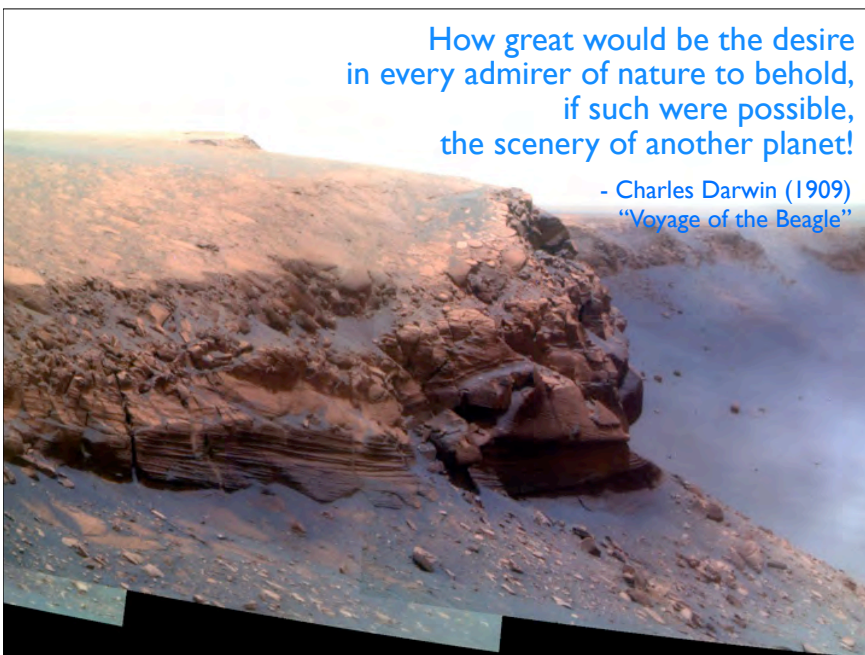
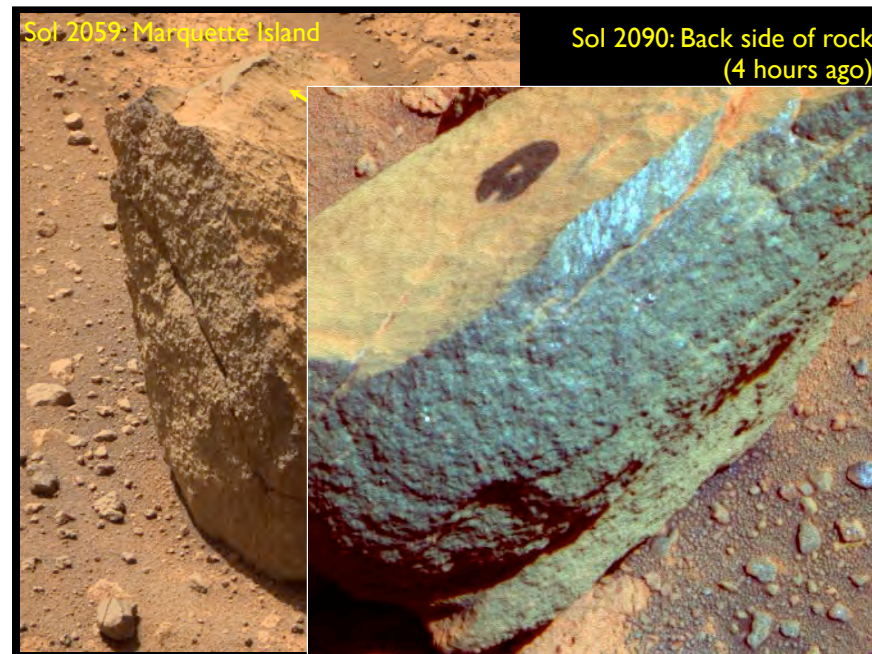
Long-term goal:
Endeavour Crater

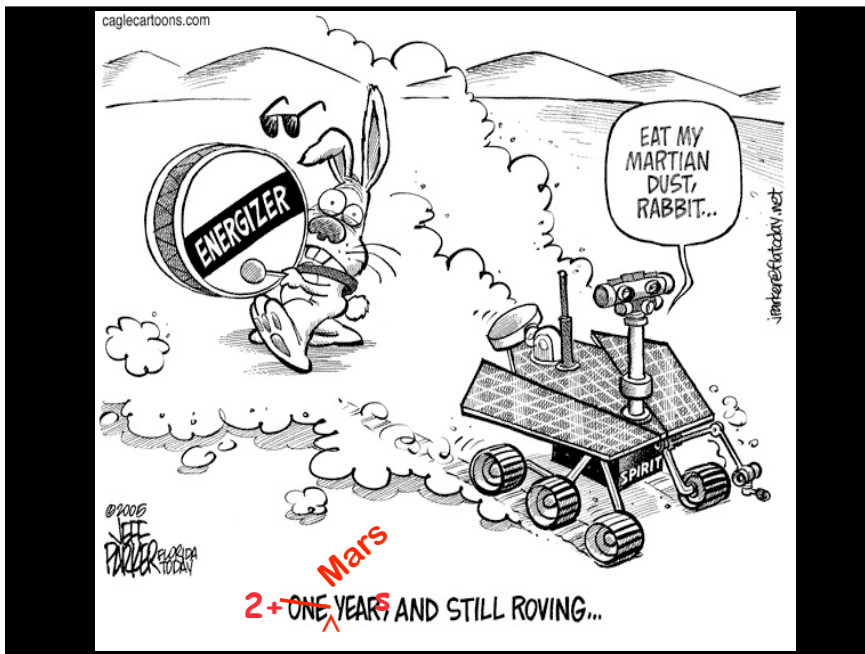
- 22 km diameter
- 20x Victoria!
- 12.5 km SE
- We are 30% of the way there
- Drive may take another year!

Why not?

Adventure is worthwhile in itself
--Amelia Earhart







Follow along!

<http://pancam.astro.cornell.edu>
<http://marsrovers.jpl.nasa.gov>
<http://athena.cornell.edu>
<http://www.planetary.org>

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POSTCARDS FROM
MARS

THE FIRST PHOTOGRAPHER ON THE RED PLANET
JIM BELL

Cornell University NASA

A composite image featuring a Mars rover on the left, an astronaut on the right, and a book cover in the center. The book cover is titled 'POSTCARDS FROM MARS' by 'THE FIRST PHOTOGRAPHER ON THE RED PLANET JIM BELL'. Logos for Cornell University and NASA are at the bottom.