

Landers

50 years seeing distant landscapes

by Thiago Christof

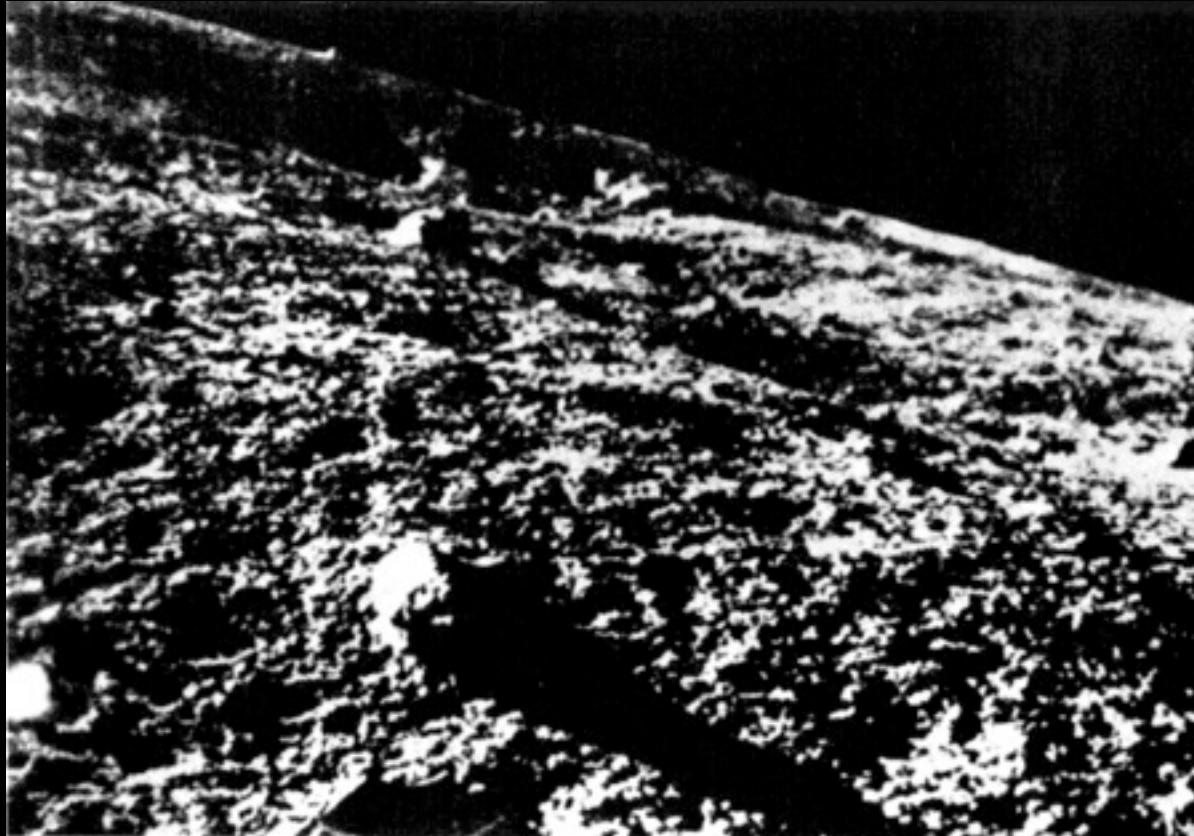
From Wikipédia:

“A lander is a spacecraft which descends toward and comes to rest on the surface of an astronomical body.”

1966 Moon



Luna 9

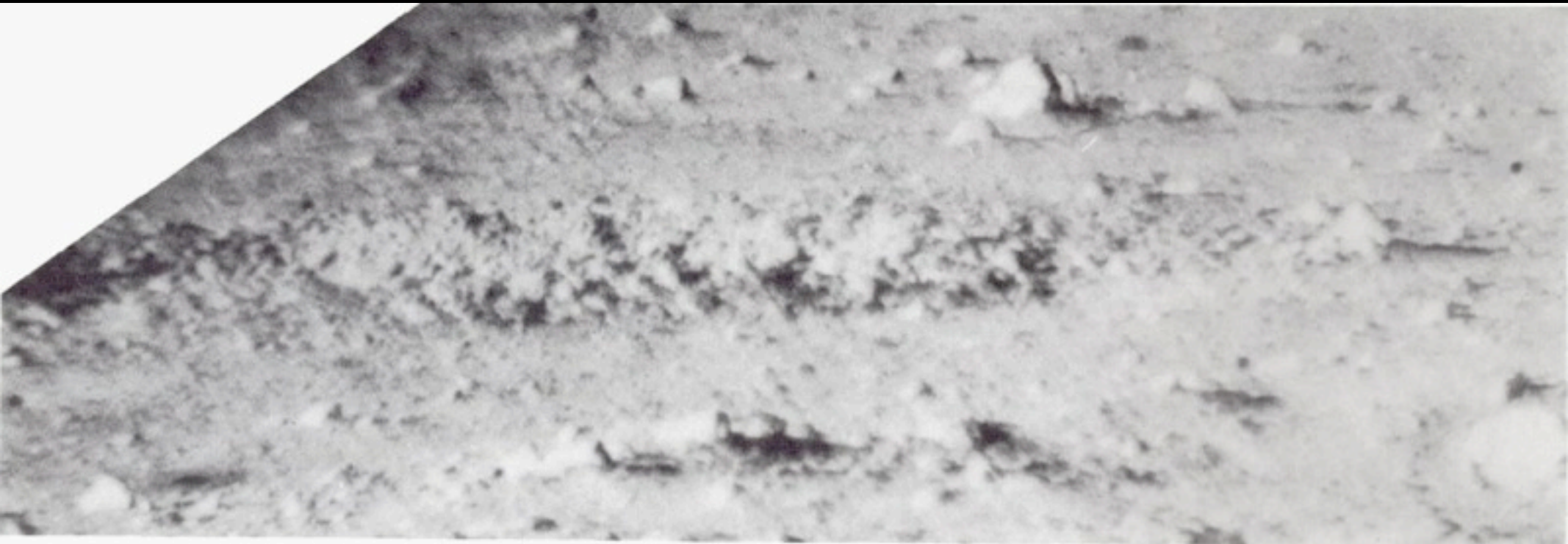


Cropped close-up image of lunar surface taken after landing.

1966 Moon



Surveyor 1 

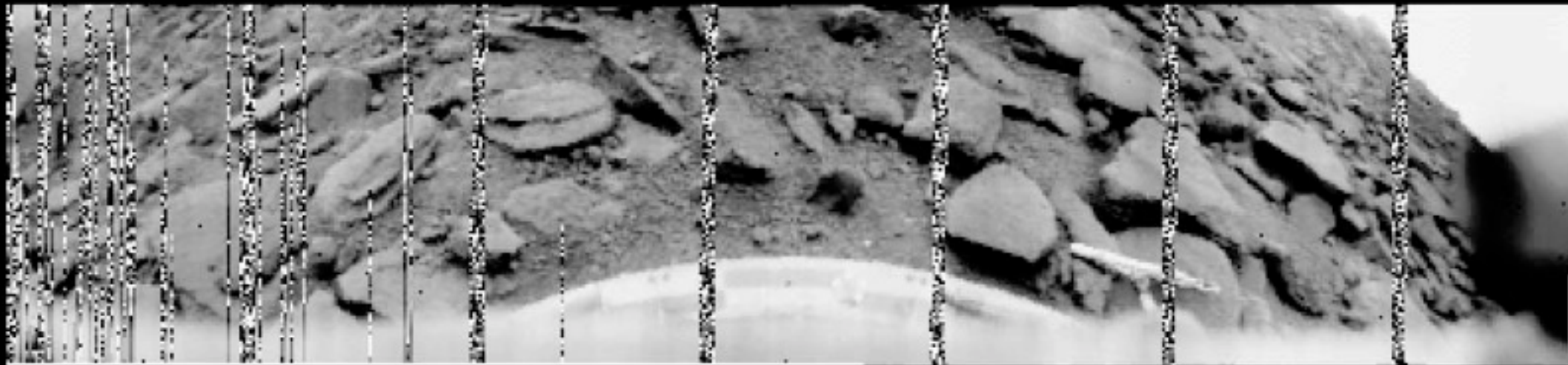


Irregularly shaped crater at the landing site.

1975 Venus



Venera 9

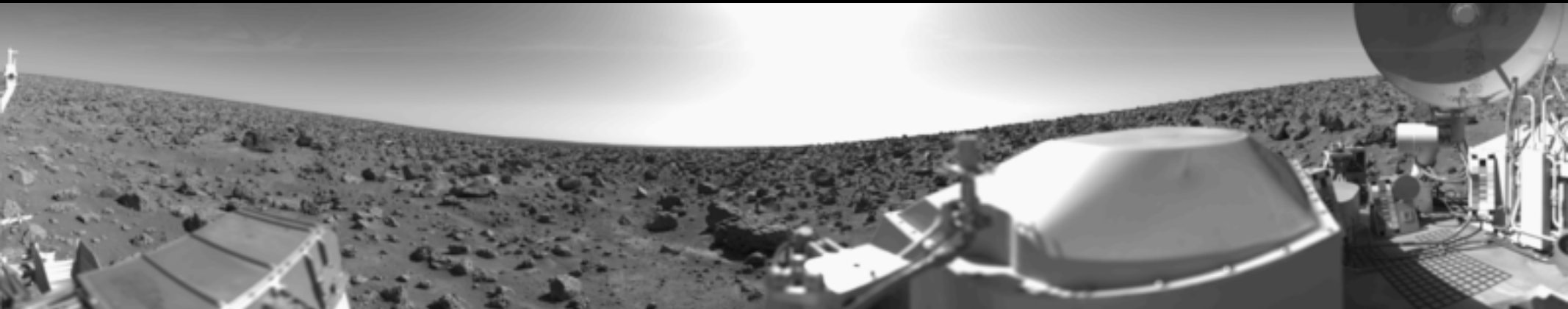


Transmitted from surface for 53 minutes. First pictures from surface.

1976 Mars

Viking 1 & Viking 2 

Viking 1



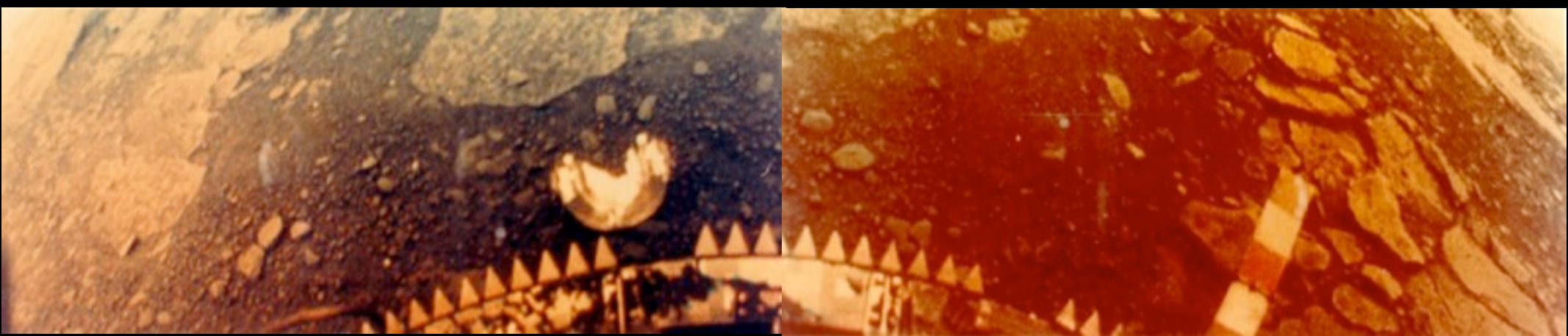
Viking 2

Above: first "clear" image ever transmitted from the surface of Mars shows rocks near the Viking 1 Lander.

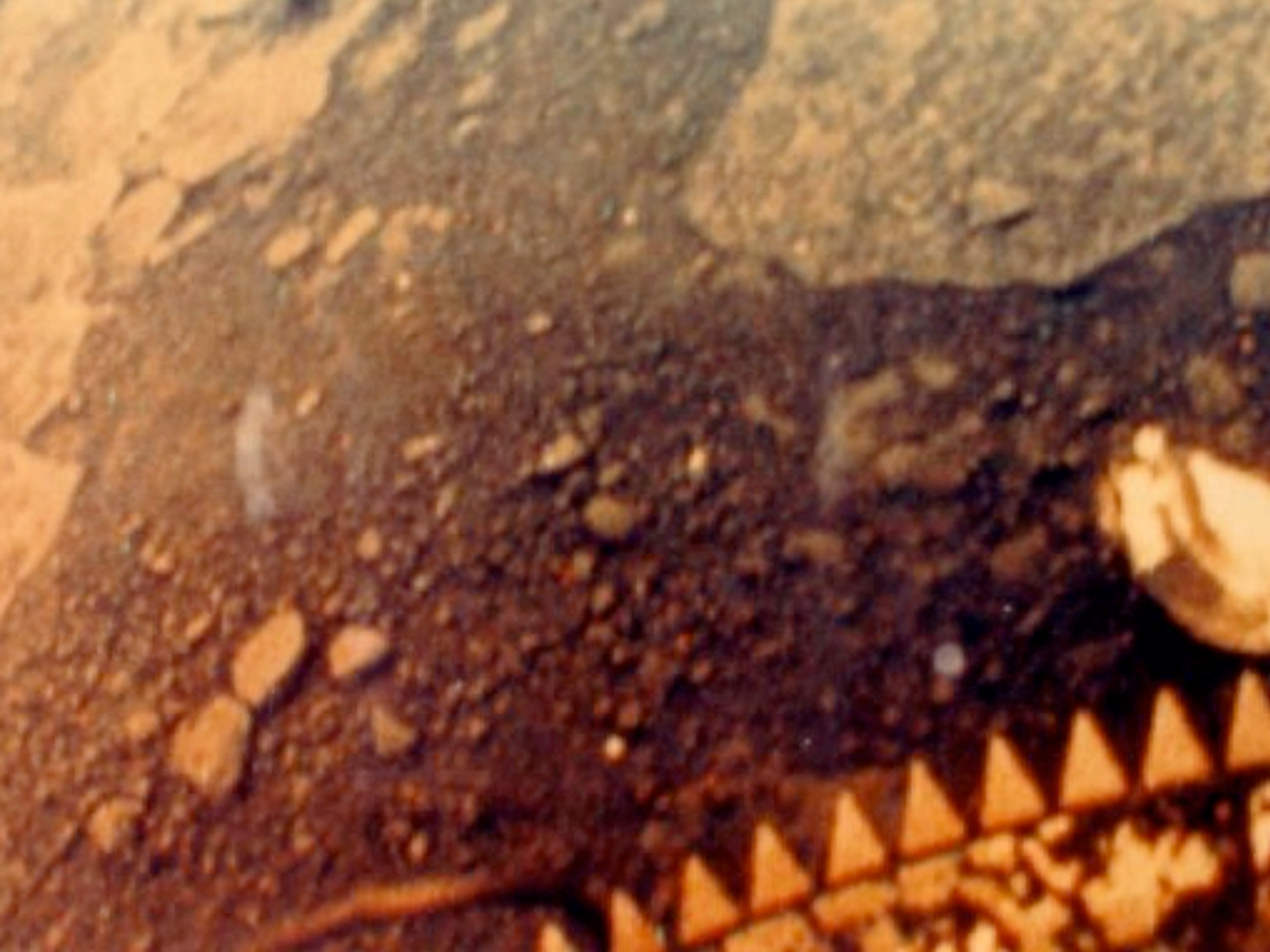
1982 Venus



Venera 13

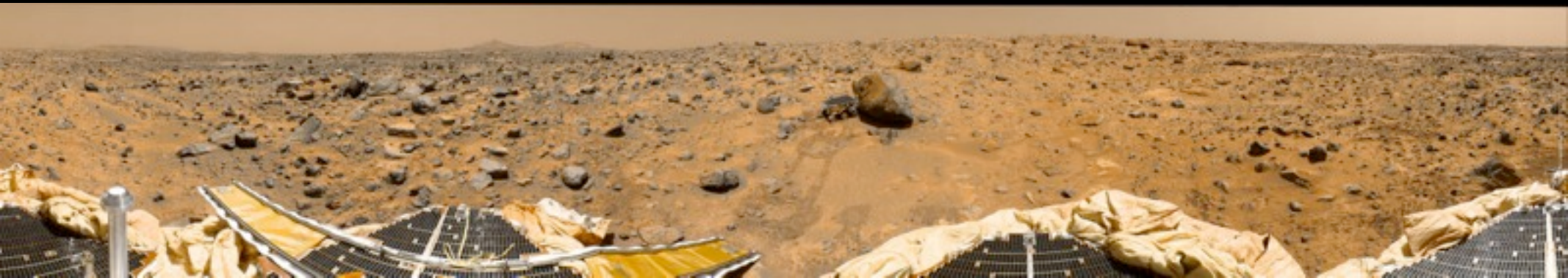


The first lander to transmit color images from the surface of Venus.

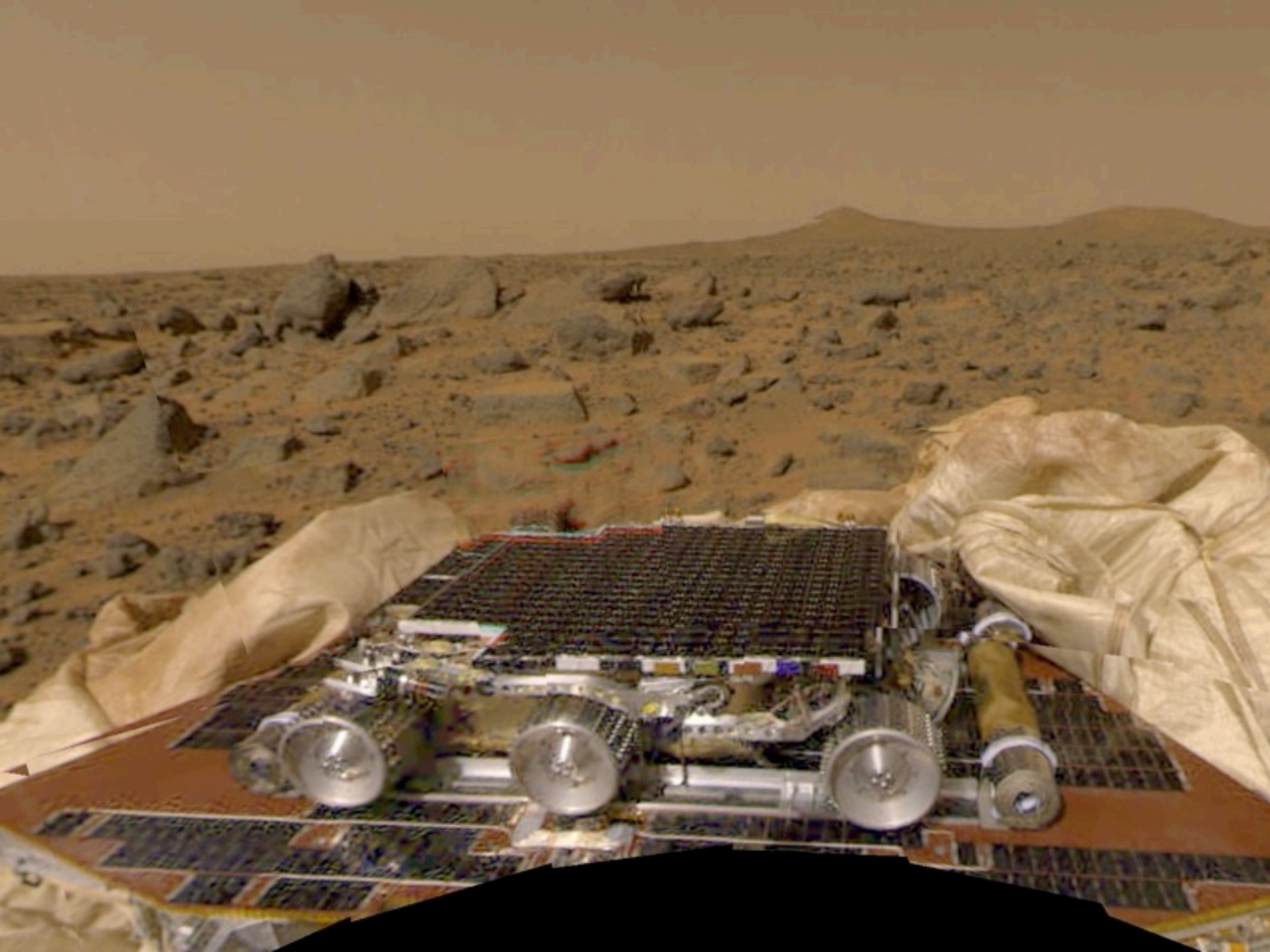


1997 Mars

Mars Pathfinder & Sojourner



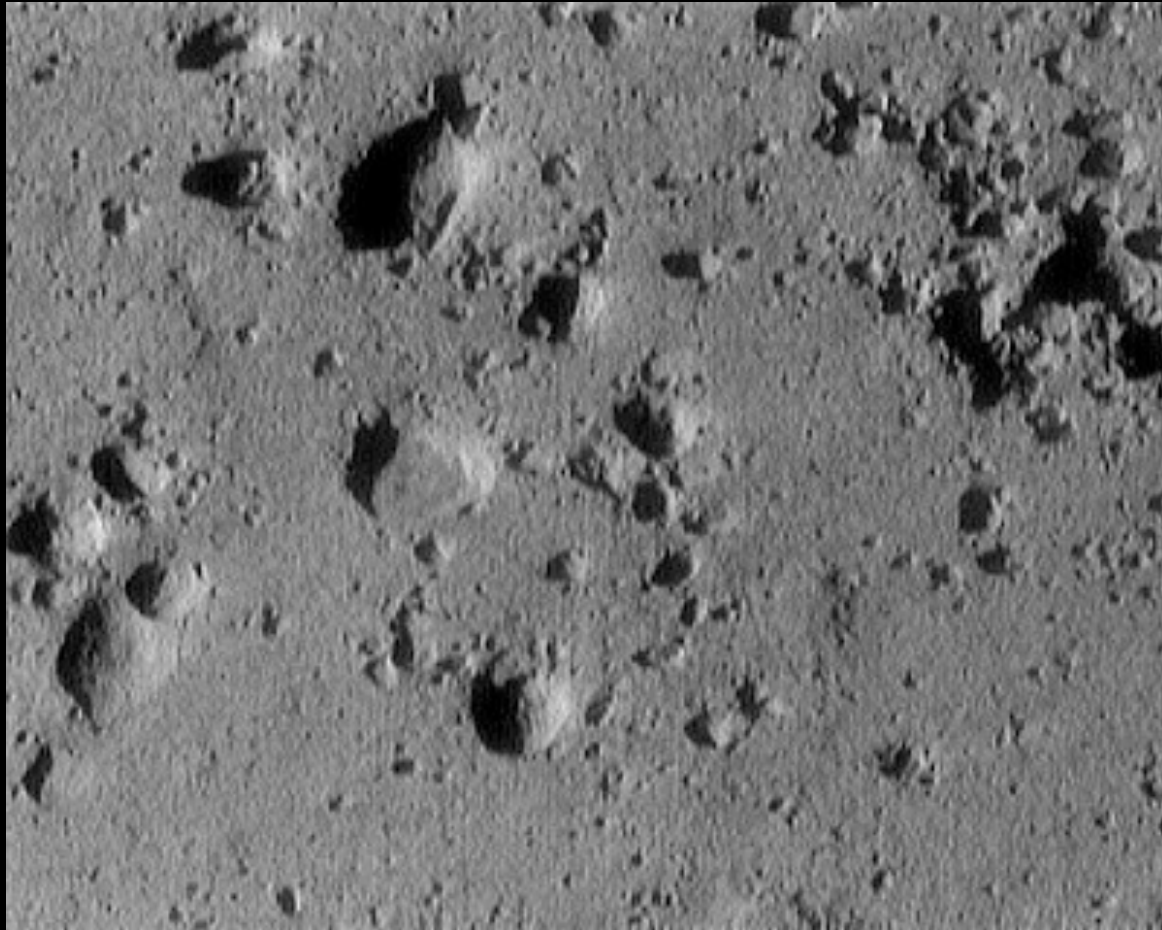
Mars Pathfinder panorama of landing site.



2001 Eros



NEAR Shoemaker



Eros asteroid from approximately 250 meters altitude. This image was taken during NEAR's descent to the surface of the asteroid.

2004 Mars



MER-A Spirit 



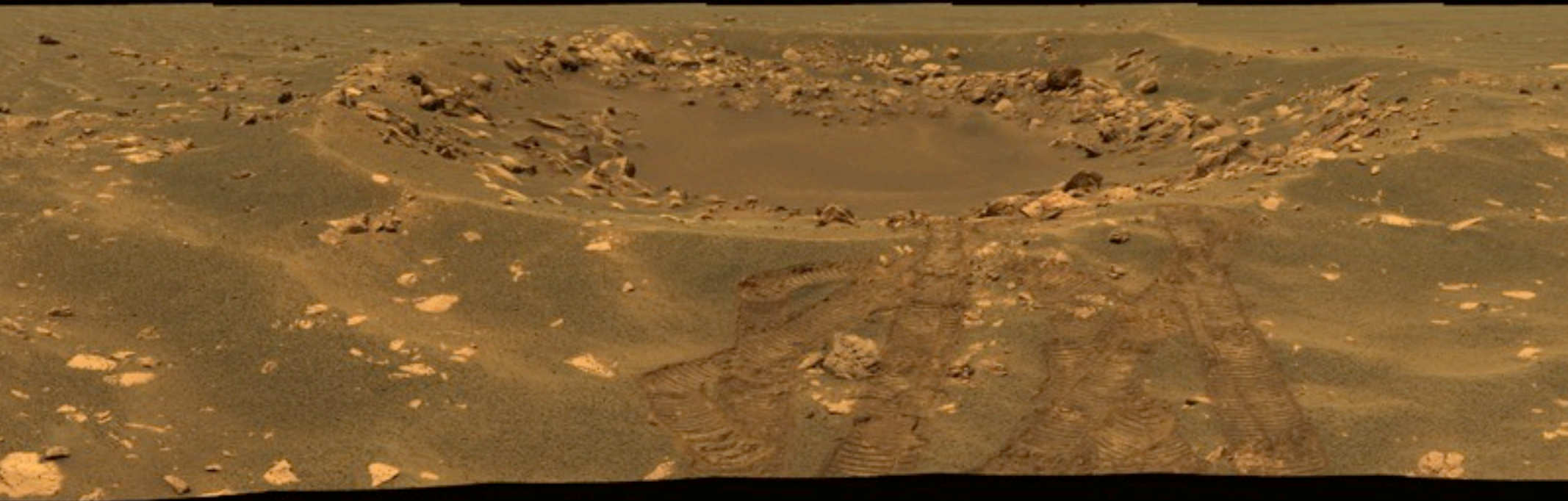
Westward view from atop a low plateau where Spirit spent the closing months of 2007.



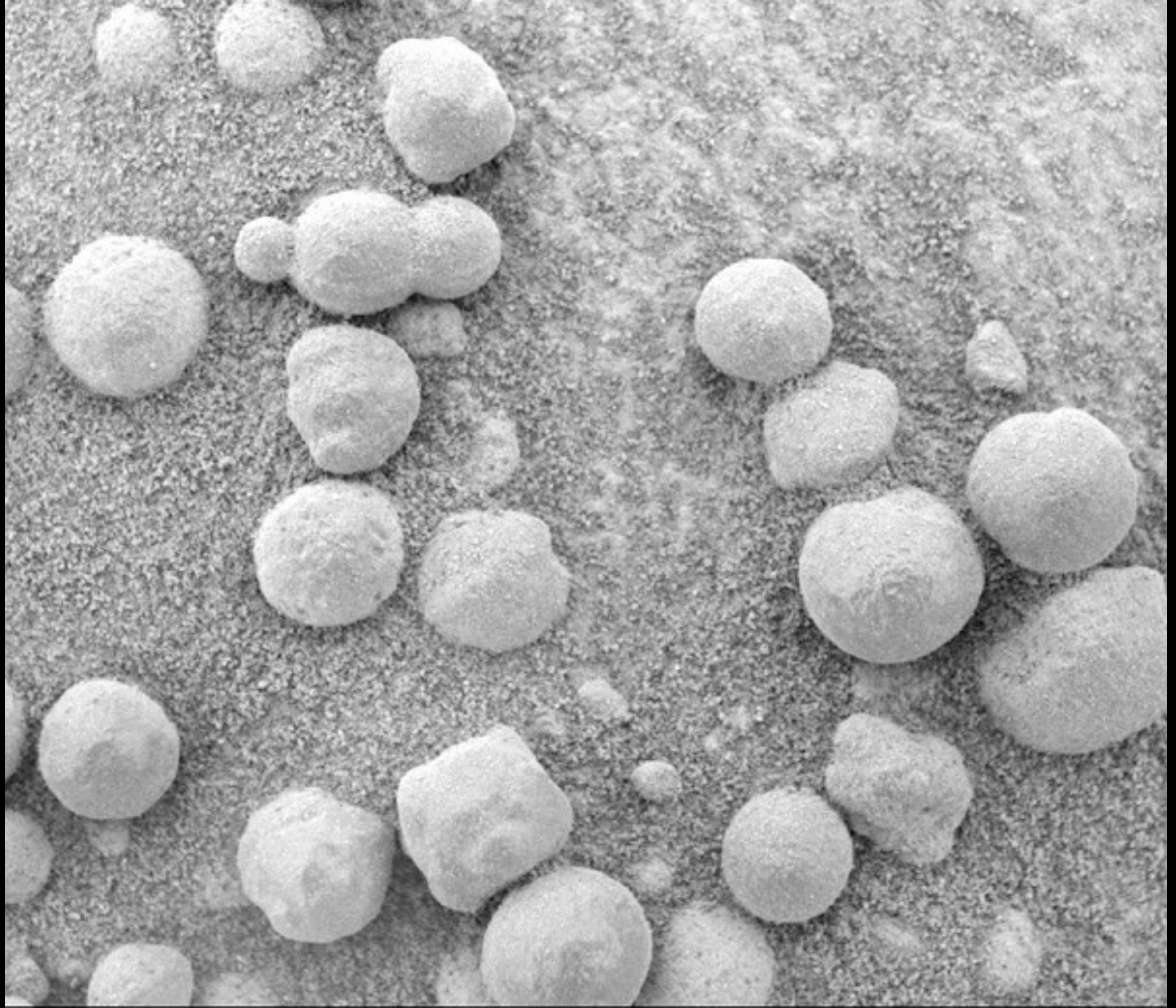
2004 Mars



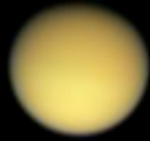
MER-B Opportunity 



Fram crater.



2005 Titan



Cassini–Huygens 



Image of Titan's surface taken by the Huygens probe.

2008 Mars



Phoenix 

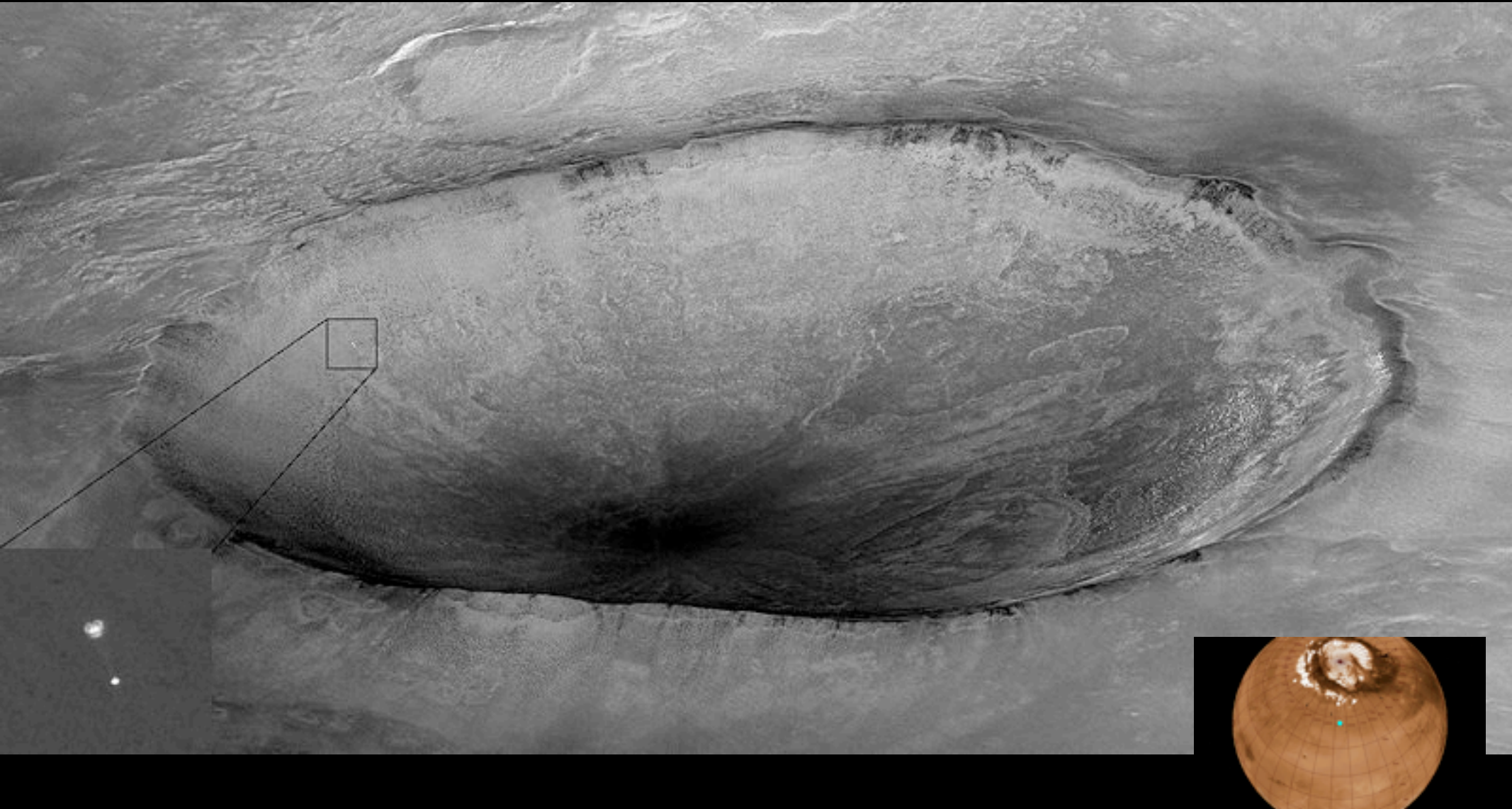


Image taken by Mars Reconnaissance Orbiter showing descent of Phoenix with a crater in the background.

2012 Mars

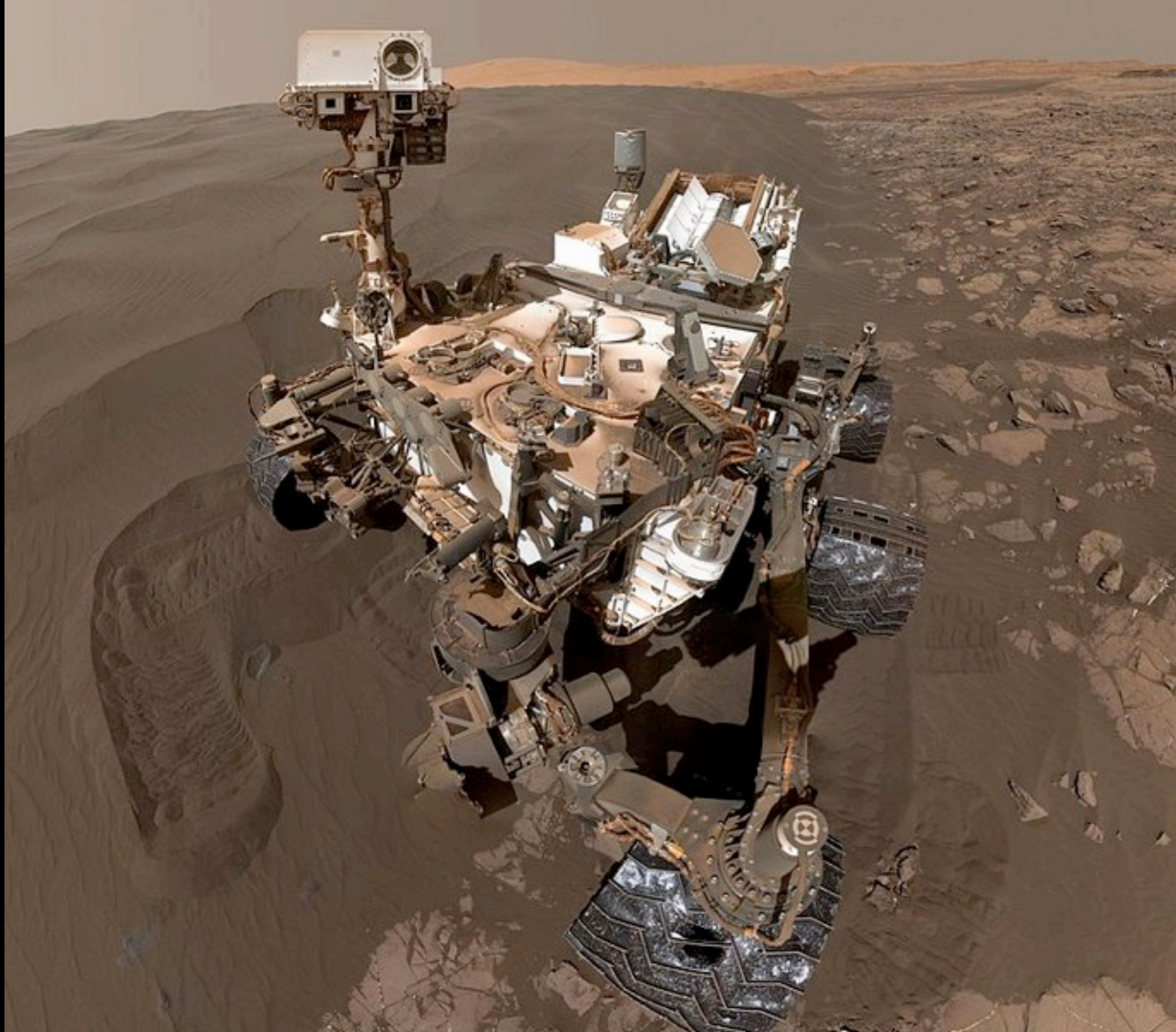


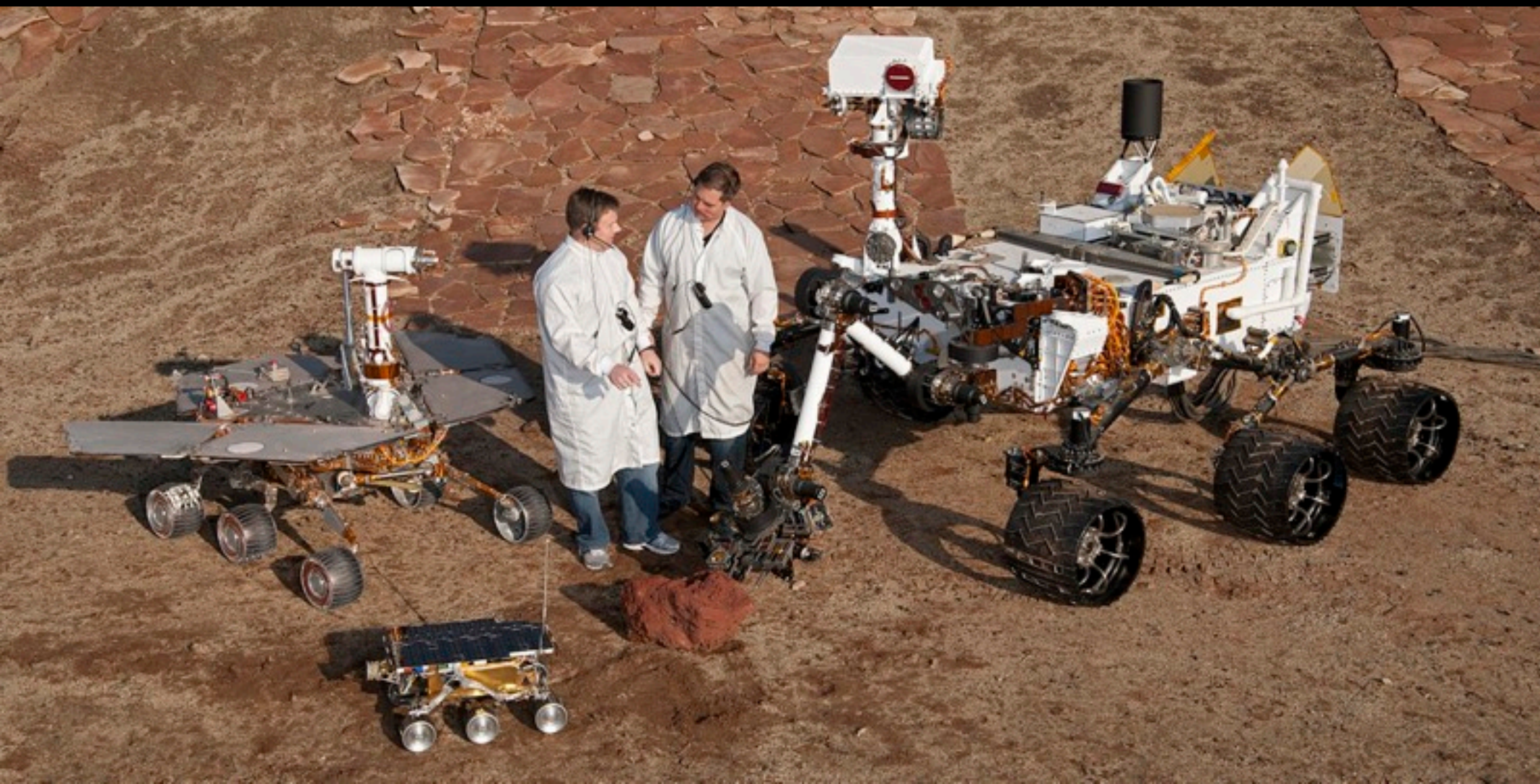
Curiosity 



Curiosity's view of Mount Sharp.







2013 Moon



Chang'e 3



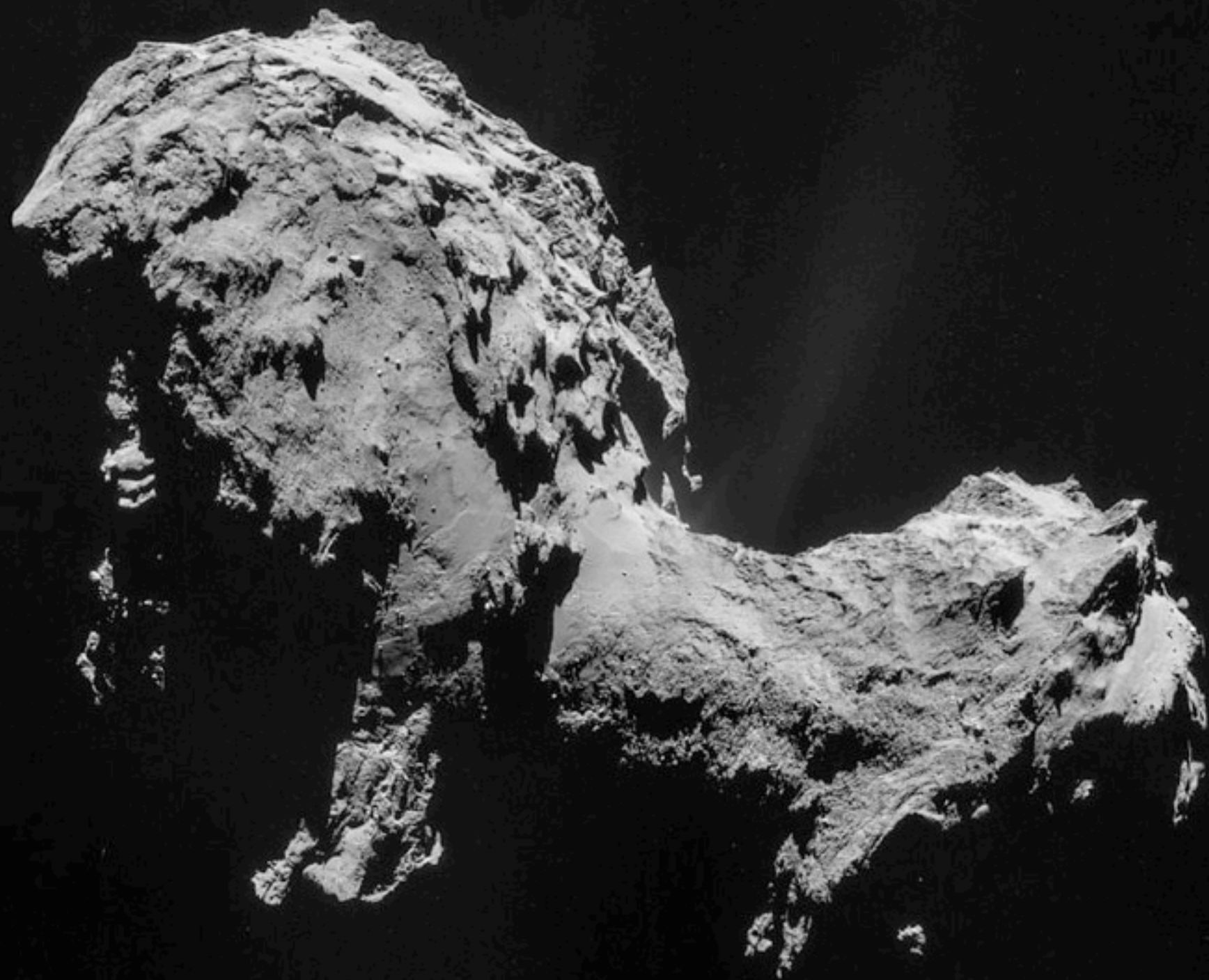
2014 67P/Churyumov–Gerasimenko

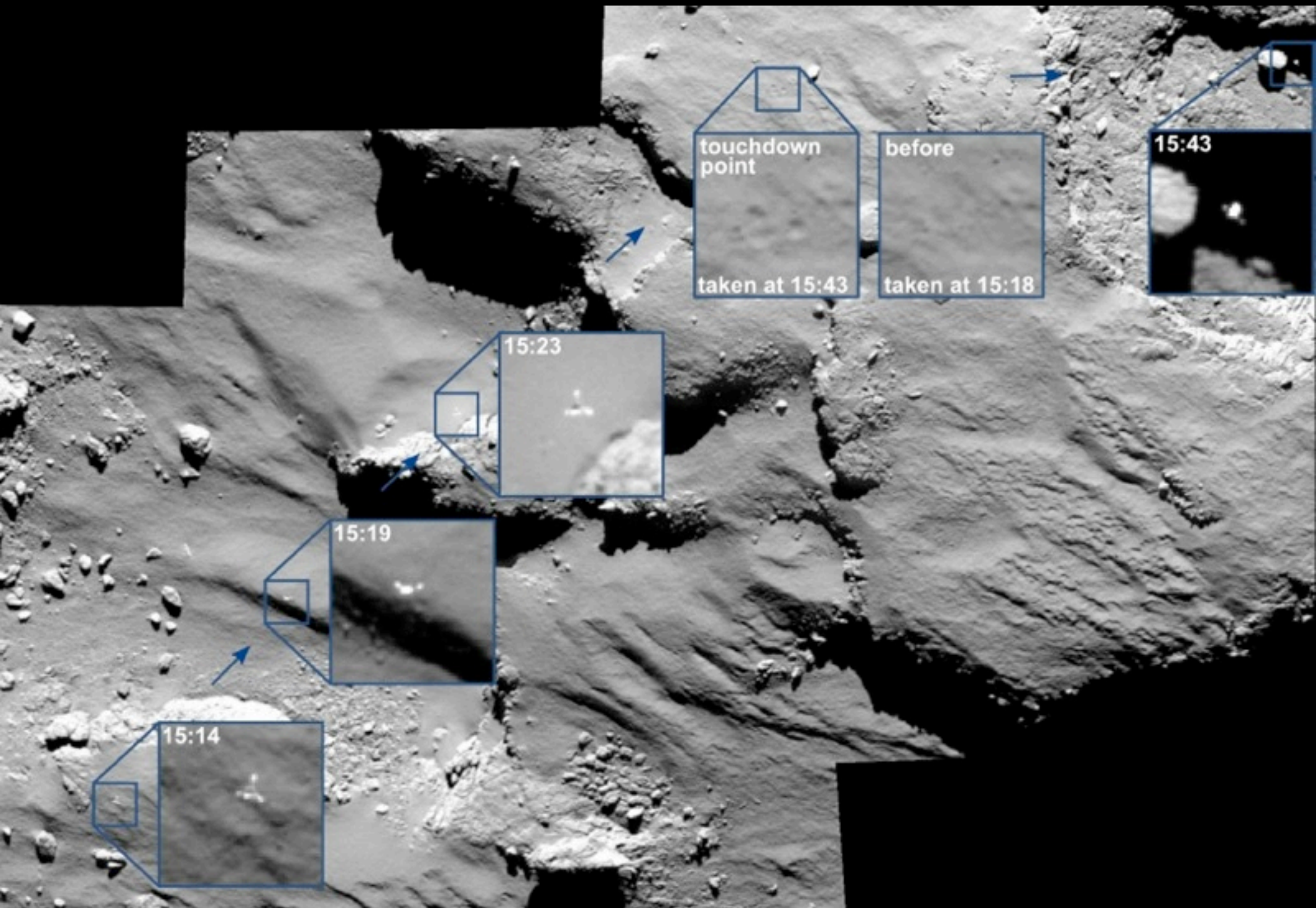


Rosetta



One of the lander's three feet can be seen in the foreground in this high-resolution two-image mosaic.





touchdown
point

taken at 15:43

before

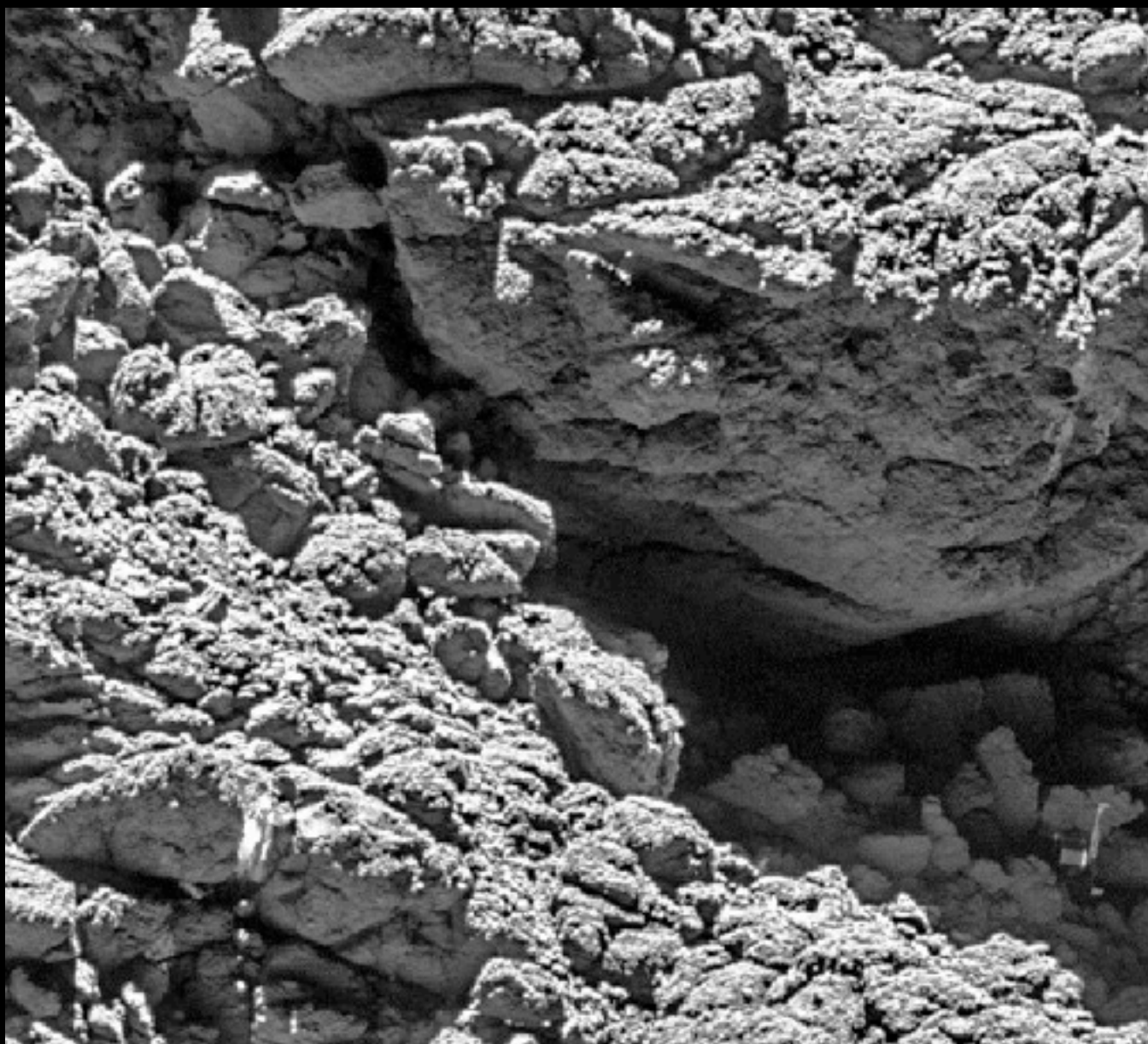
taken at 15:18

15:43

15:23

15:19

15:14



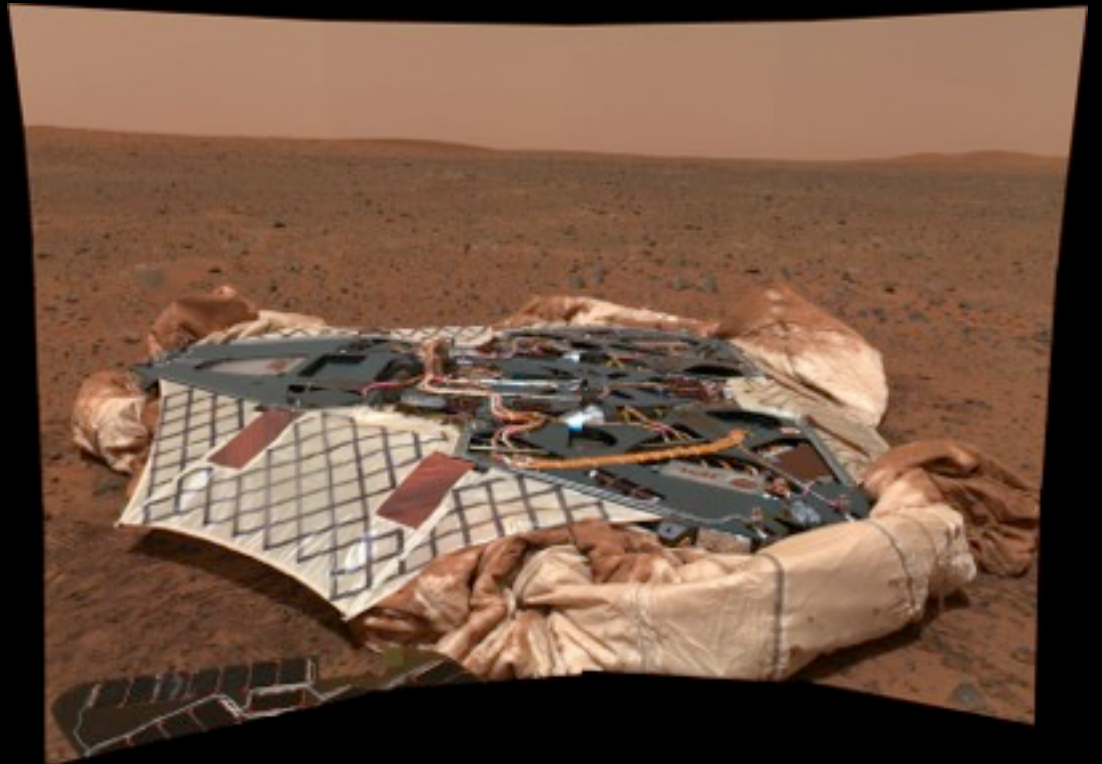
esa





Curiosity team, images from
Google Images





References:

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<https://lightsinthedark.com/?s=philae>

http://www.esa.int/Our_Activities/Space_Science/Rosetta/Frequently_asked_questions



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