

Apollo 17: A Geologist on the Moon

INST 154

Apollo at 50

[The Last Mission to the Moon](#)

Harrison H. (“Jack”) Schmitt

- 1964 Ph.D. in geology from Harvard
- U.S. Geological Survey, Astrogeologist
- 1965 Astronaut group 4
- 1966 1-year Air Force jet pilot training
- 1967 Astronaut candidate training
- 1970 Apollo 15 backup crew LMP
- 1972 Apollo 17 LMP
- 1975 Resigned from NASA
- 1976 Elected to U.S. Senate (1 term)





Descent Orbit Pass Over the Landing Site

Lunar Landing



Rudolph

ALSEP

Geophone Rock

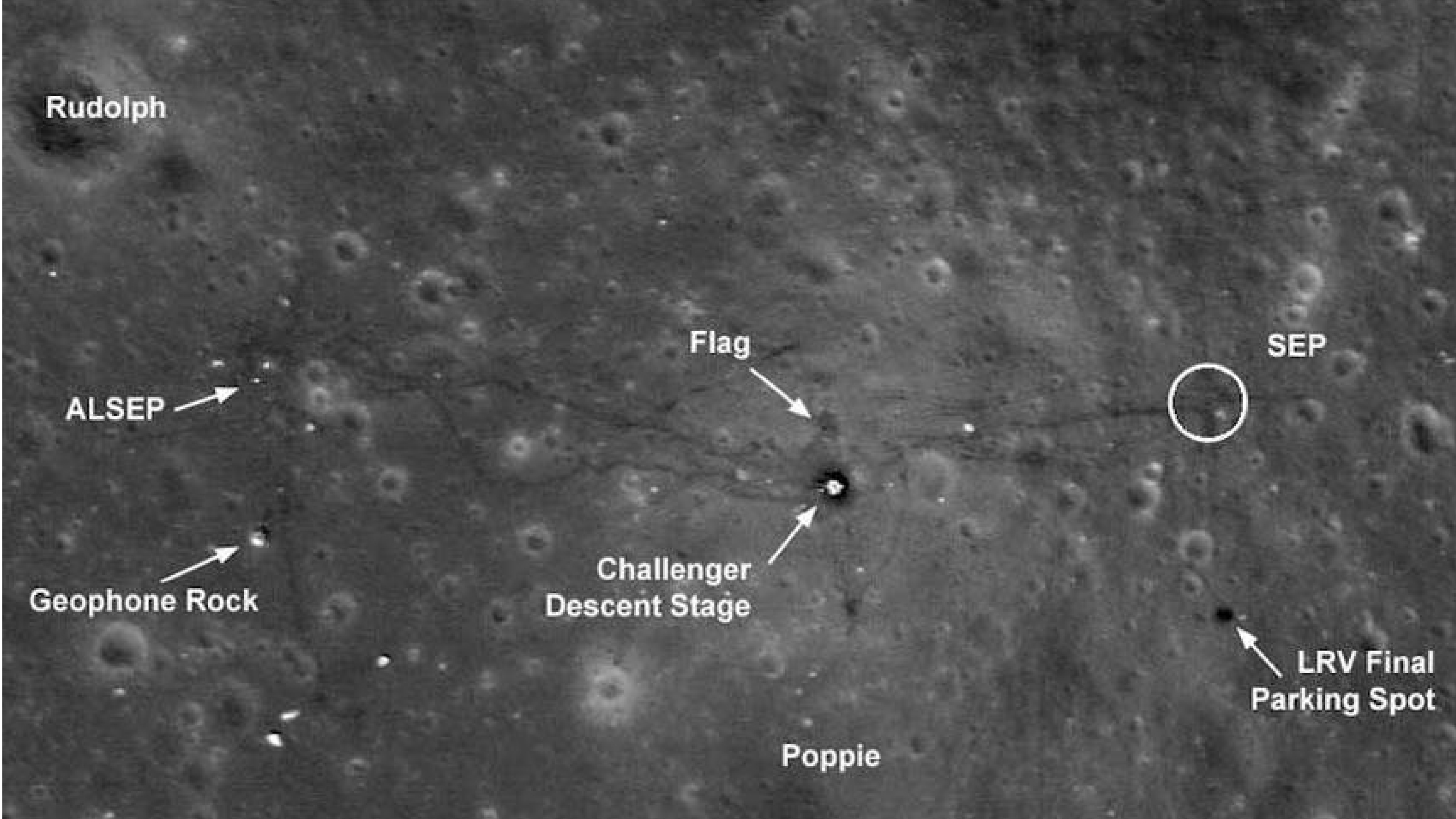
Flag

Challenger
Descent Stage

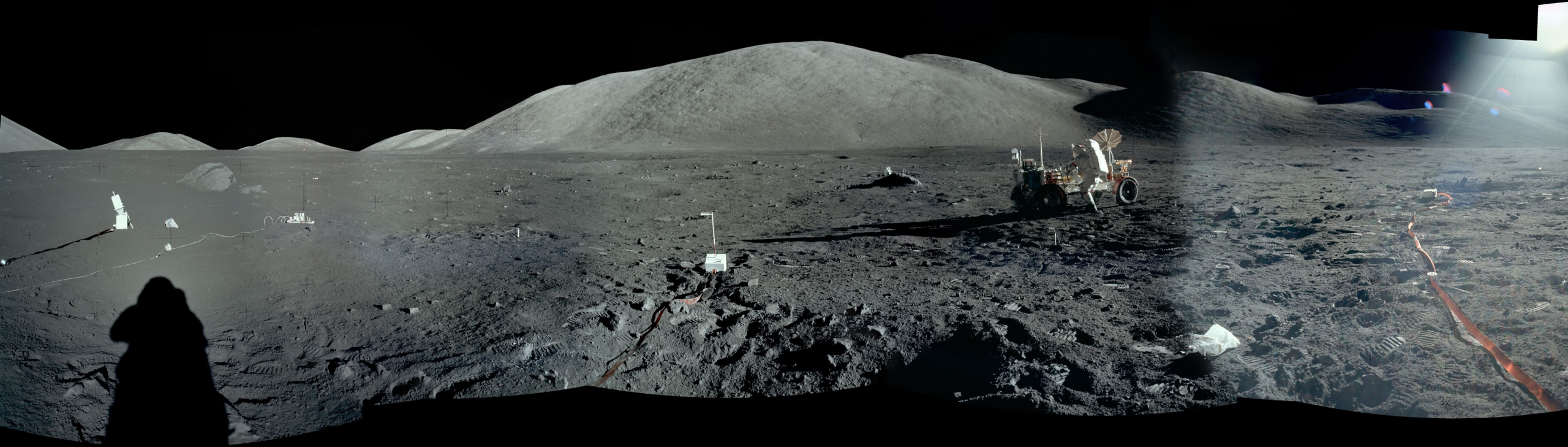
Poppie

SEP

LRV Final
Parking Spot

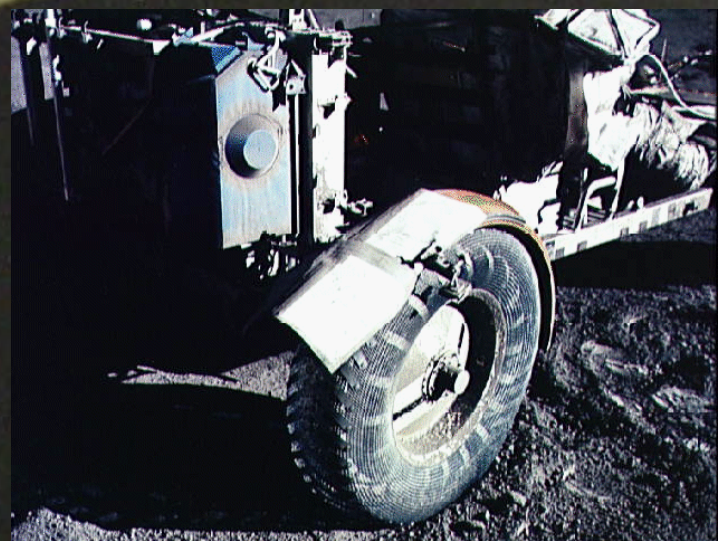


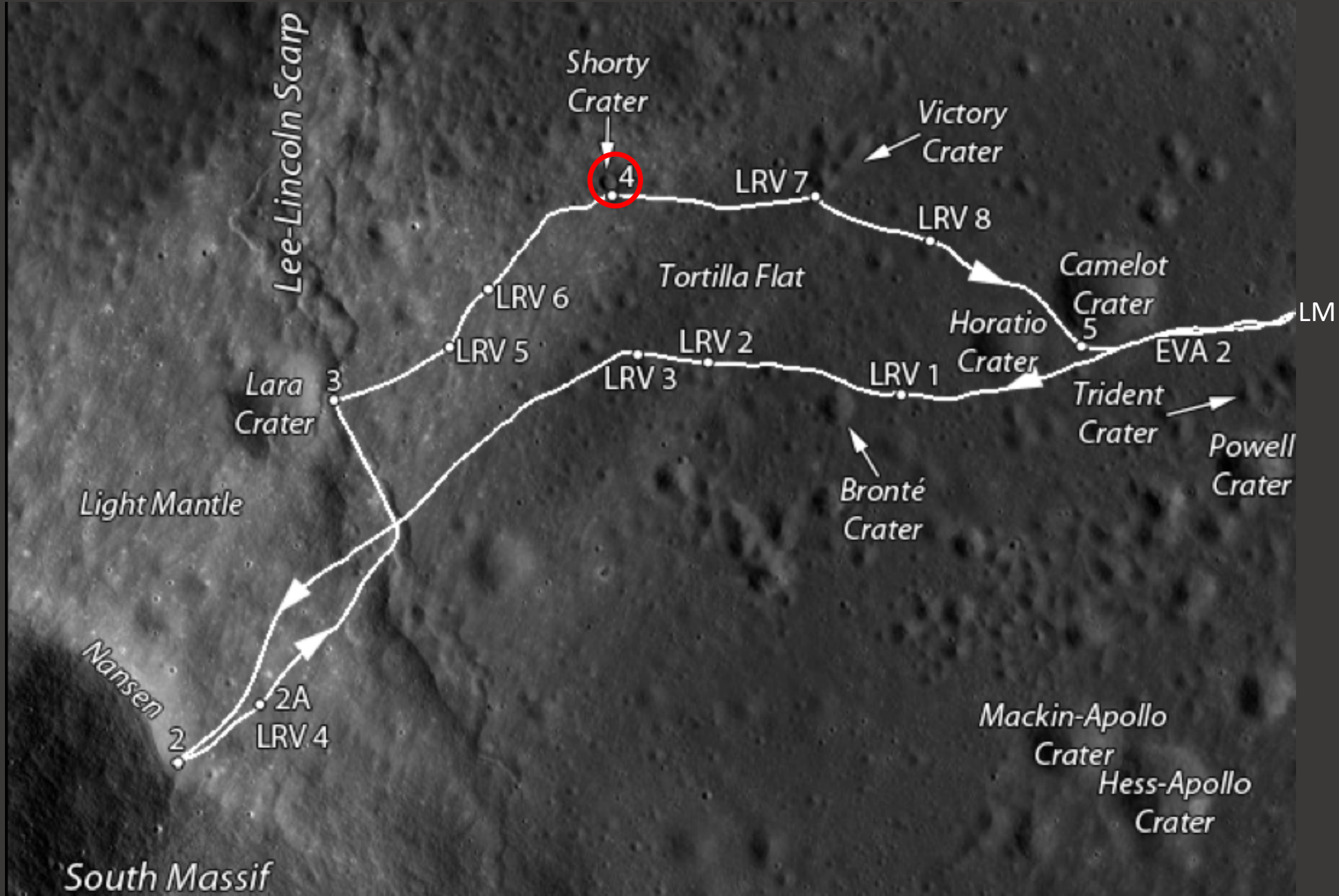
ALSEP Deployment: [Site Selection](#) [Setup](#) [Drilling](#)

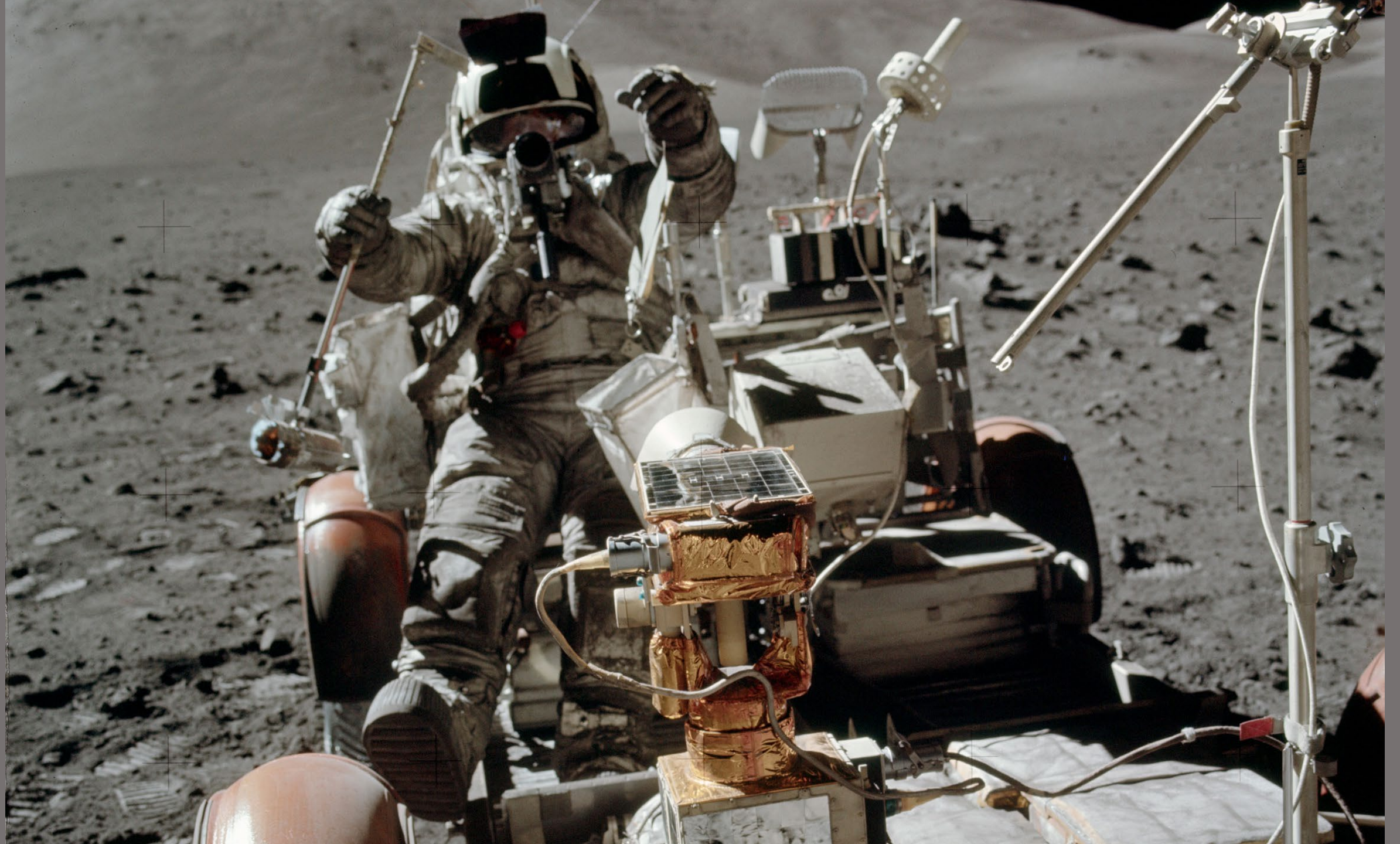


Core Sample Tube
This core tube was mounted on an aluminum handle and then hammered or pushed into the lunar soil to obtain mineral specimens of the Moon's surface. The tubes were used to seal the core tubes after they were filled.

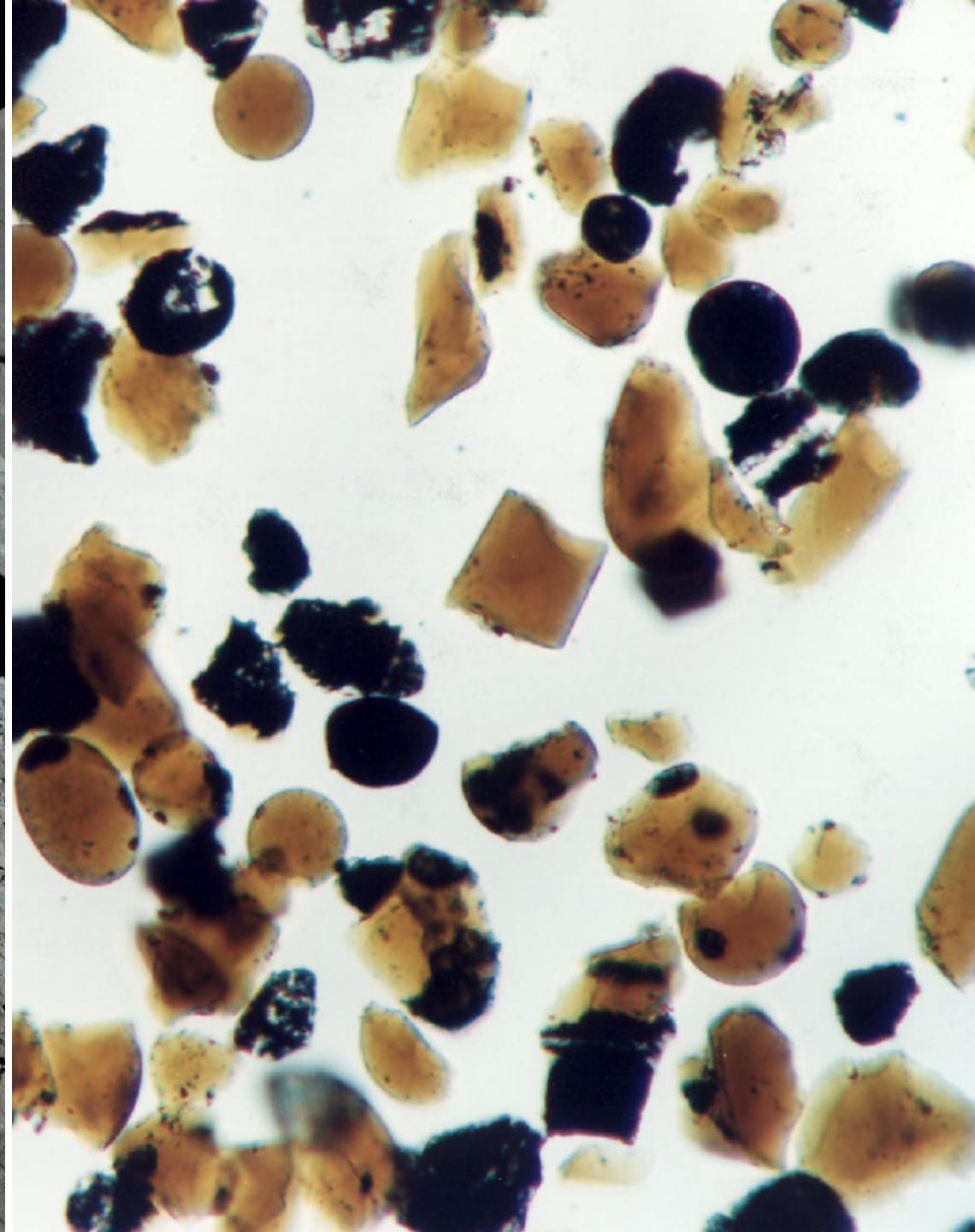
VEHICLE REPAIR ON THE MOON







Station 4: [Orange Soil](#) [Soil Sample](#)



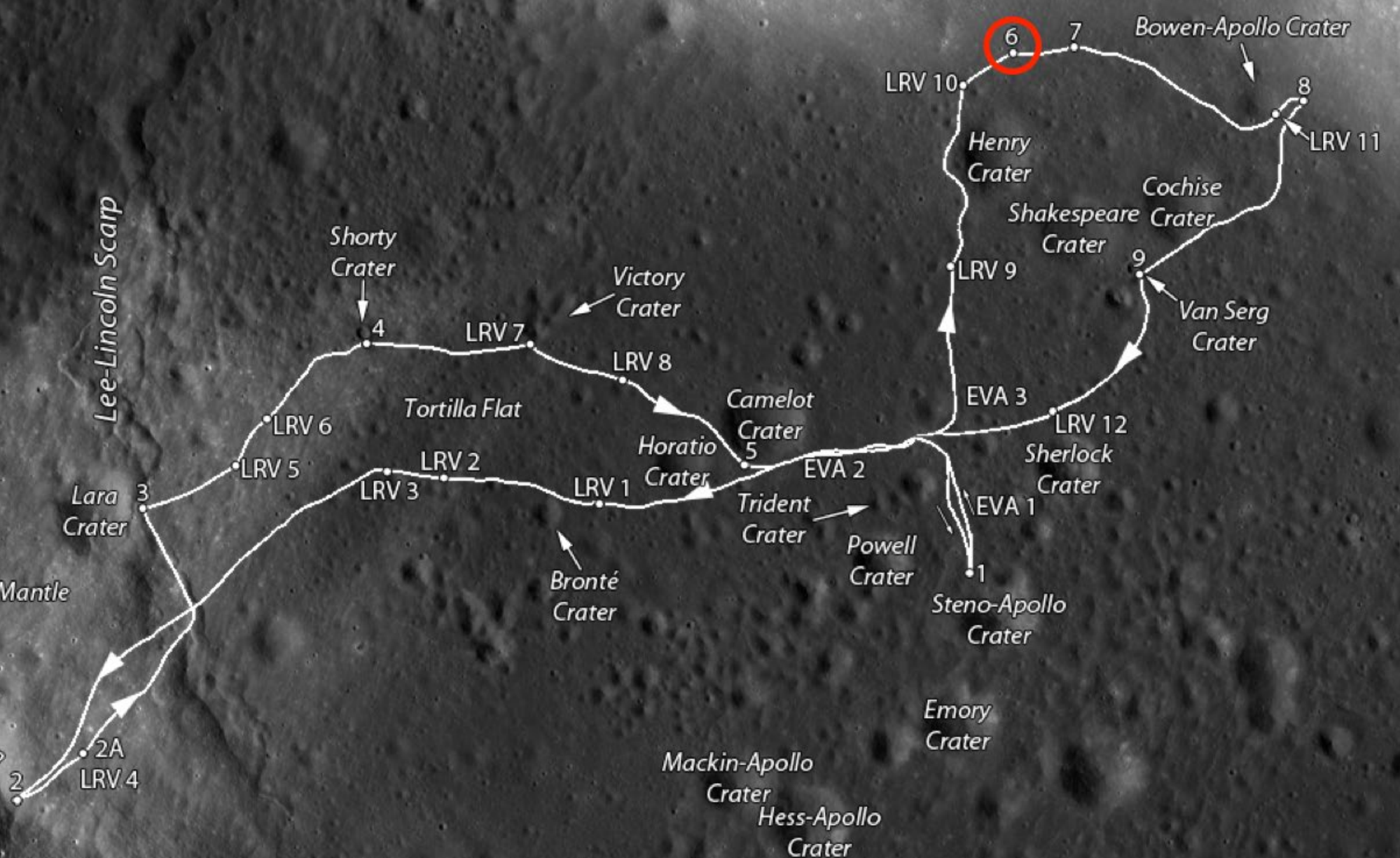
North Massif

Sculptured Hills

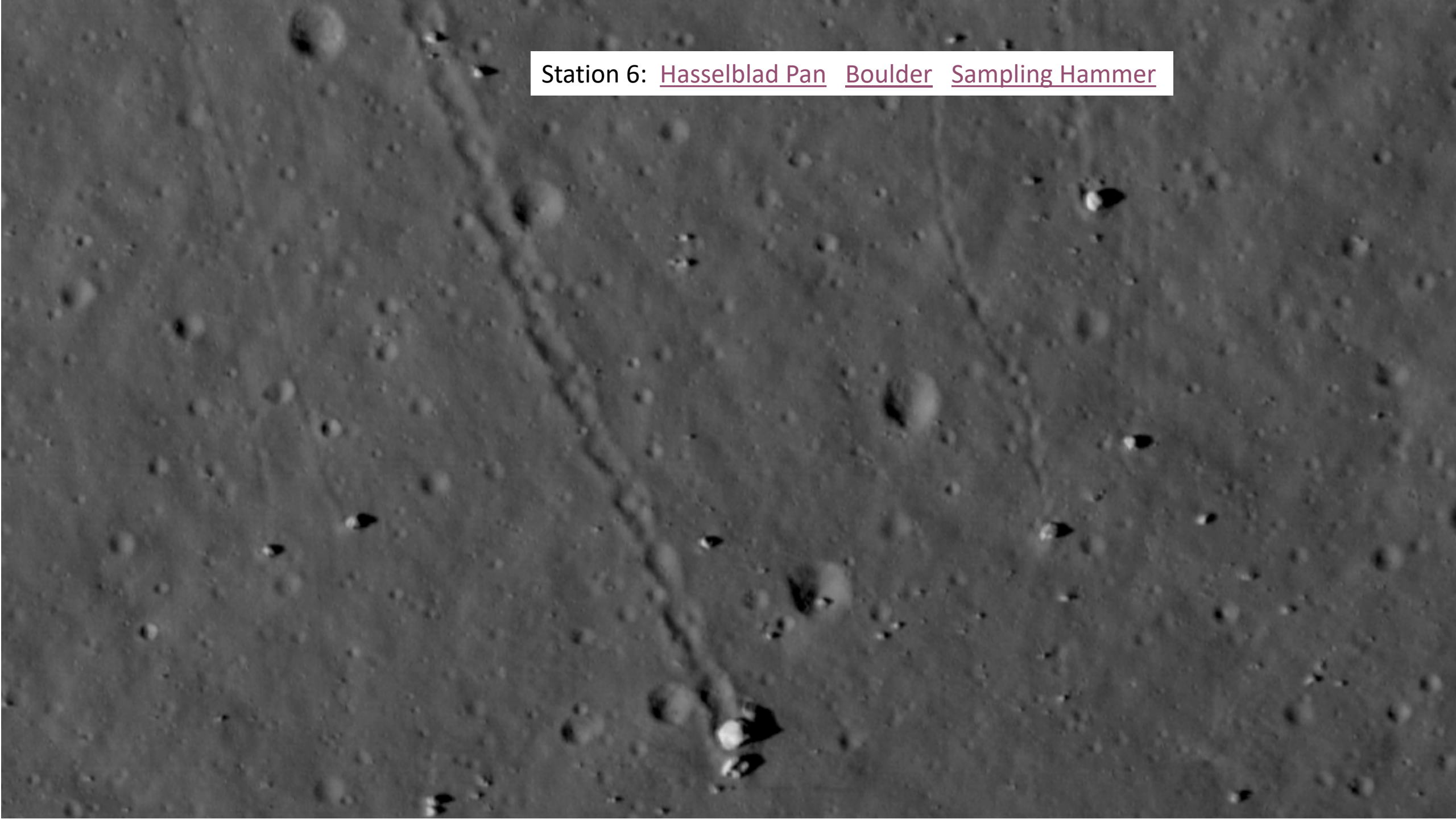
Lee-Lincoln Scarp

Light Mantle

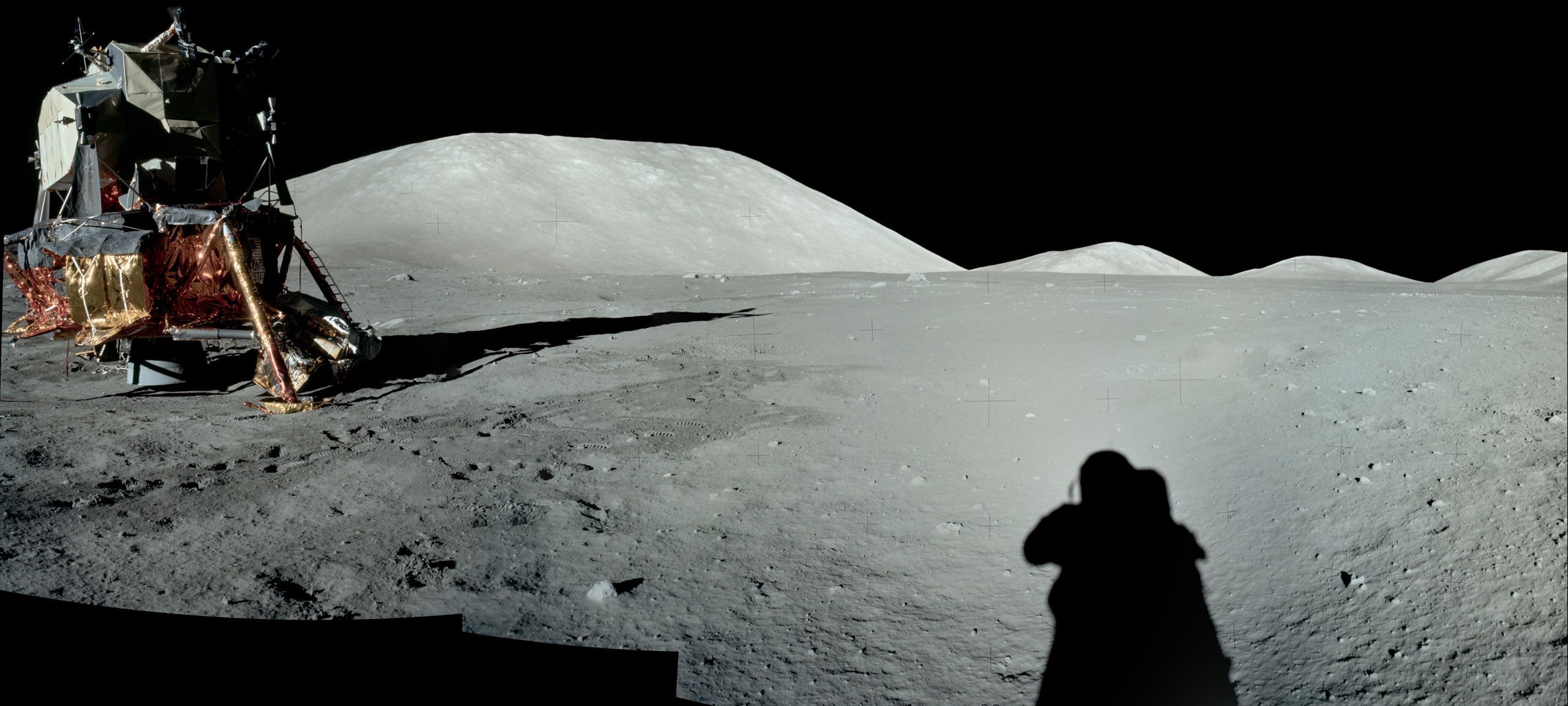
South Massif



Station 6: Hasselblad Pan Boulder Sampling Hammer



Lunar Liftoff



People Who Said No to a Moonwalk

- Frank Borman
 - Before Apollo 8, Slayton asked if he would like to have his crew fly Apollo 11
 - Instead, he retired after Apollo 8
- Jim McDivitt
 - Slayton asked if he would fly as Shepard's LMP on (what became) Apollo 14
 - Instead he became the Apollo Spacecraft Program Office director
- Mike Collins
 - Before Apollo 11, Slayton asked if he would like to command Apollo 14's backup crew
 - Instead, he retired after Apollo 11
- Gene Cernan
 - Slayton asked if he would like to serve as Young's LMP on Apollo 16
 - Instead, he held out for the possibility of commanding Apollo 17

Discussion Groups

- Heikin Chapter 8 (“Boulder Rolling – the Last Apollo EVA”)
 - A book made from annotated transcripts of the lunar surface period
- A Voyage to the Moon and its Major Discoveries video
 - A seminar for a scientific audience at the Lunar and Planetary Institute
- Chaikin Chapter 13 (“The Last Men on the Moon”)
 - The astronaut’s view of Apollo 17