

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 the U.S. Senate (1 term)



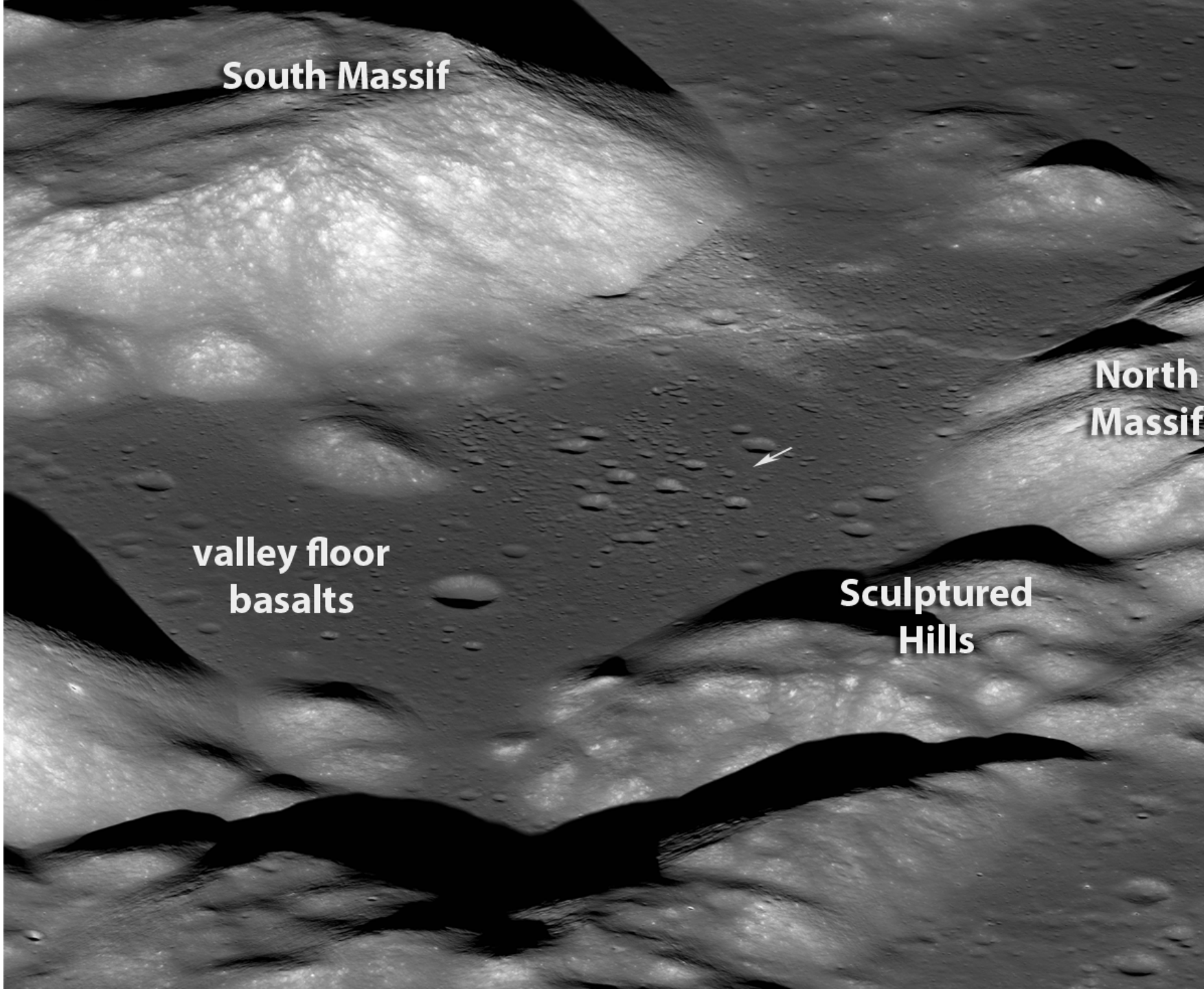


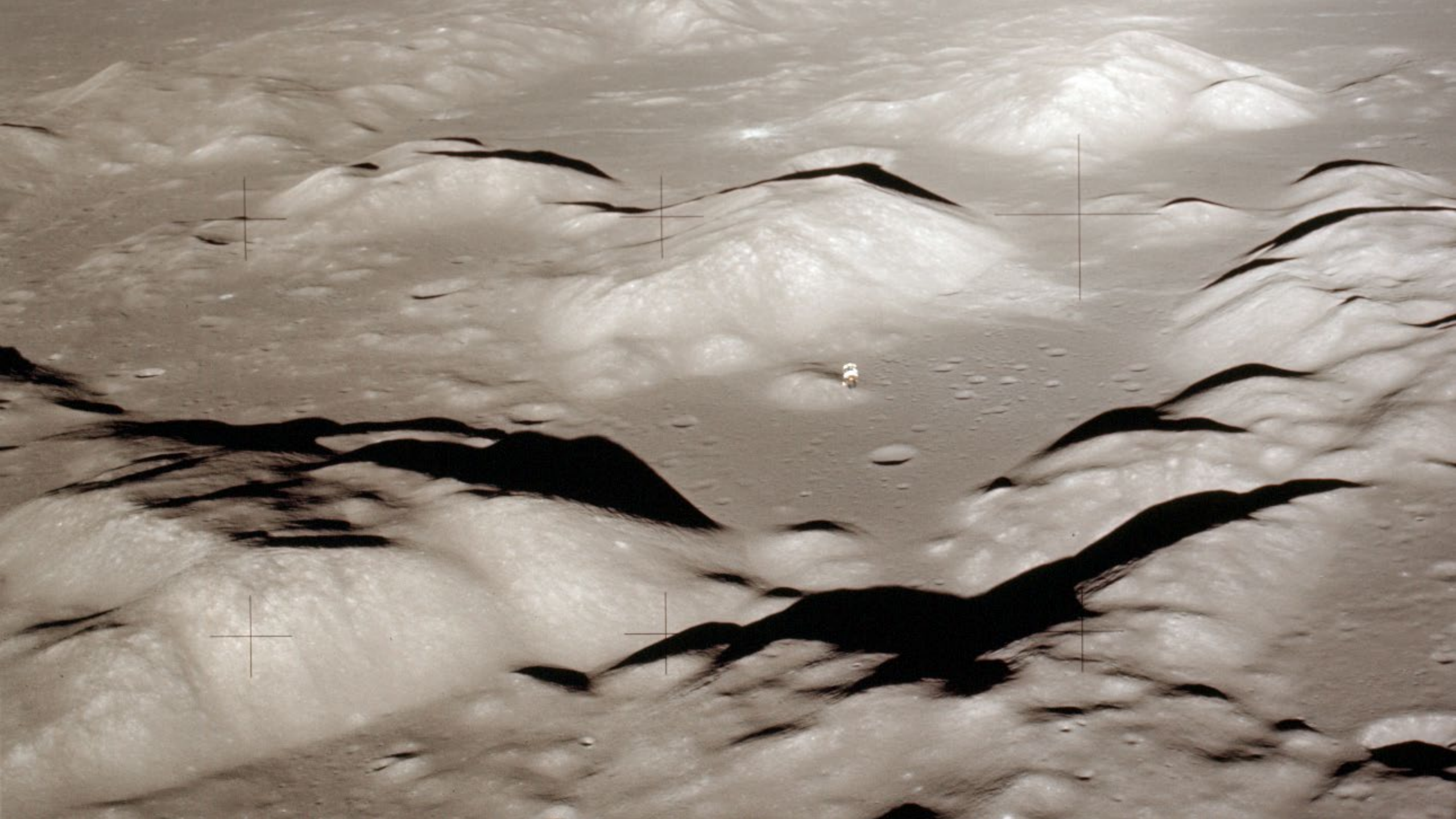
South Massif

**North
Massif**

**valley floor
basalts**

**Sculptured
Hills**





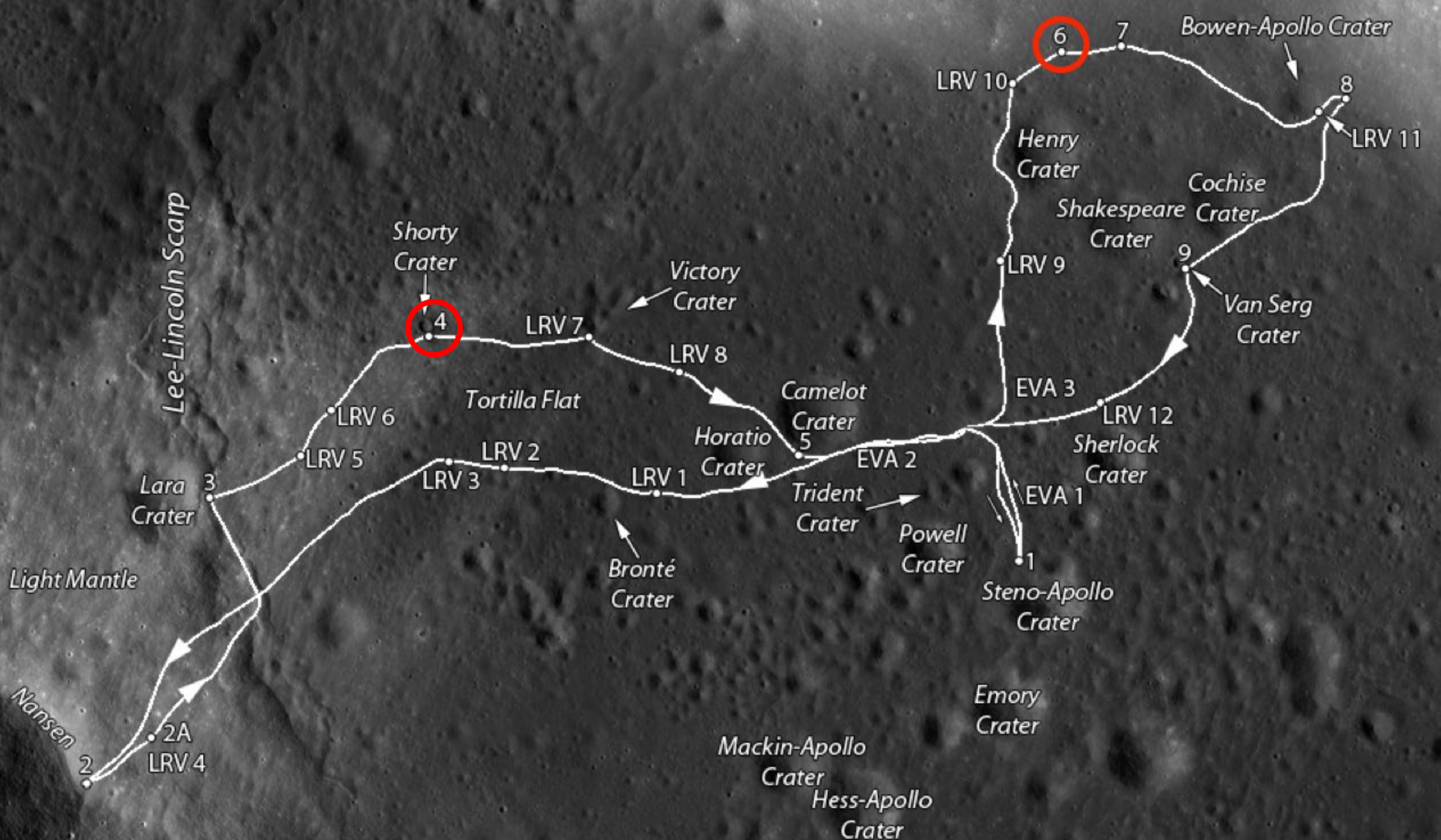
North Massif

Sculptured Hills

Lee-Lincoln Scarp

Light Mantle

South Massif

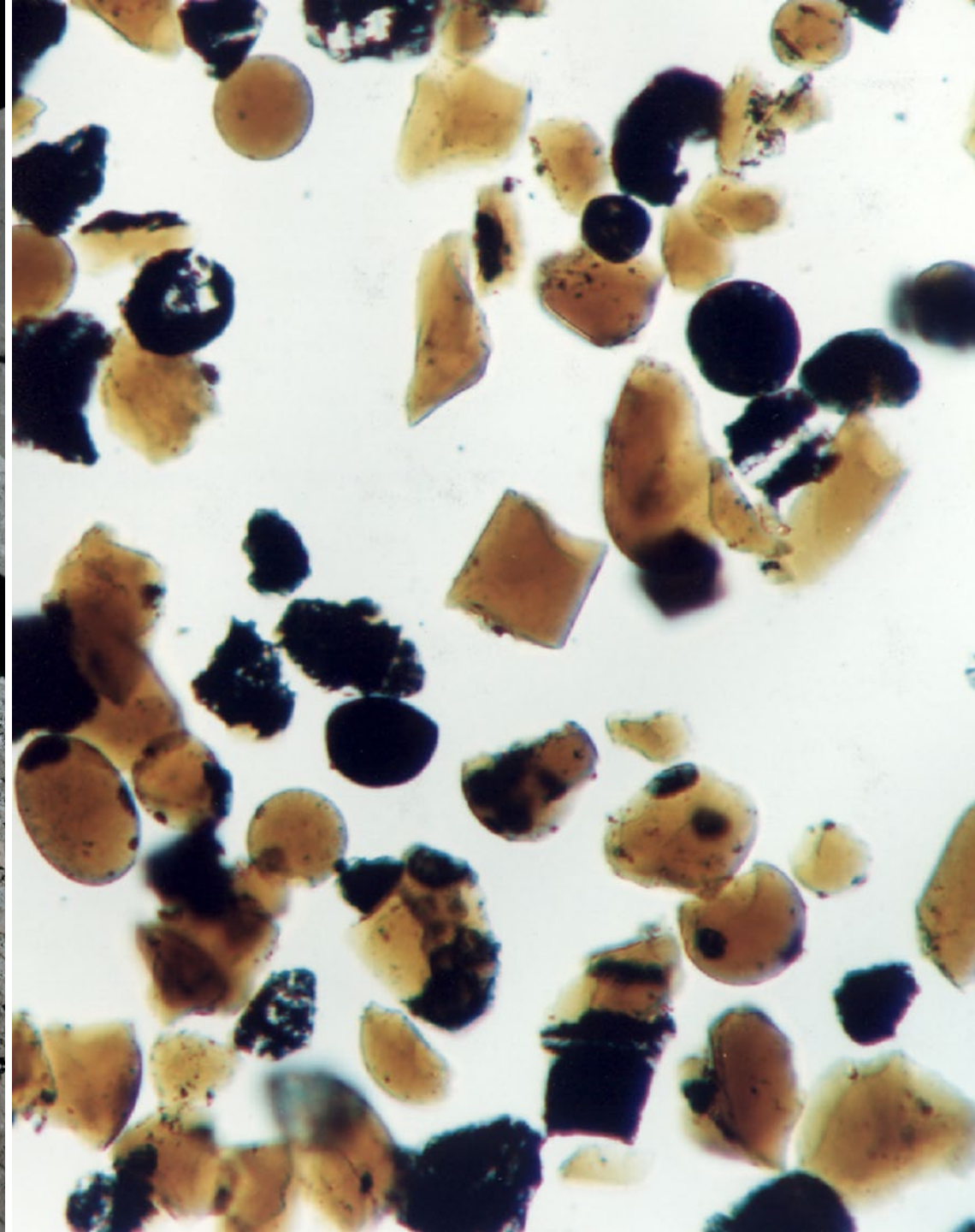


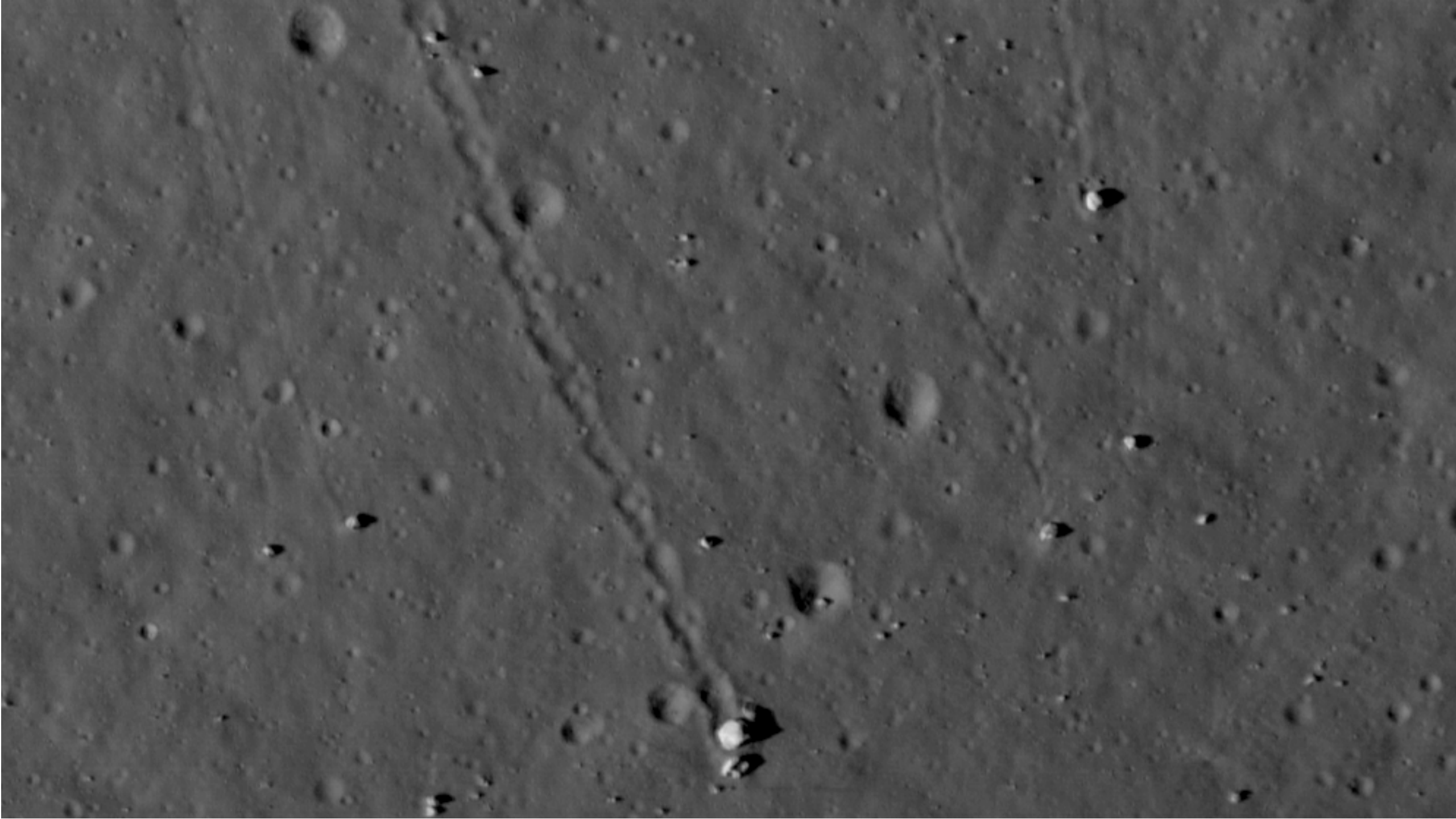
Core Sample Tube
This core tube was mounted on an
extensive handle and then hammered
or pushed into the lunar soil to obtain
various specimens of the Moon's
surface. The tubes were used to seal the
core tubes after they were filled.

VEHICLE REPAIR ON THE MOON



**Lunar Roving
Repair - Apollo**





The Last Mission to the Moon

- EVA 1 ALSEP deployment
 - 118:51, 119:17:25, 119:38
- EVA 2 Station 4
 - 145:26, 145:33
- EVA 3 Station 6
 - 165:00, 165:03, 165:07:45
- Lunar Liftoff
 - 188:01

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 13
 - Instead he became the Apollo Spacecraft Program Office director
- 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
- Mike Collins
 - Before Apollo 11, Slayton asked if he would like to command Apollo 14's backup crew
 - Instead, he retired after Apollo 11

Discussion Groups

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

Soviet Lunar Landing Program Readings

- Siddiqi Chapter 15 (“Final Lap to the Moon”)
 - The Soviet space program between Apollo 1 and Apollo 11
- **Chertok Chapter 3 (“N1-L3 Lunar Program Under Korolev”)**
 - **The origins of the Soviet lunar landing program**
- Chertok Chapter 10 (“1969—The First N-1 Launch”)
 - The first attempt to launch the Soviet moon rocket
- The Engines that Came in from the Cold video
 - The rebirth of the N1’s engines in American rockets