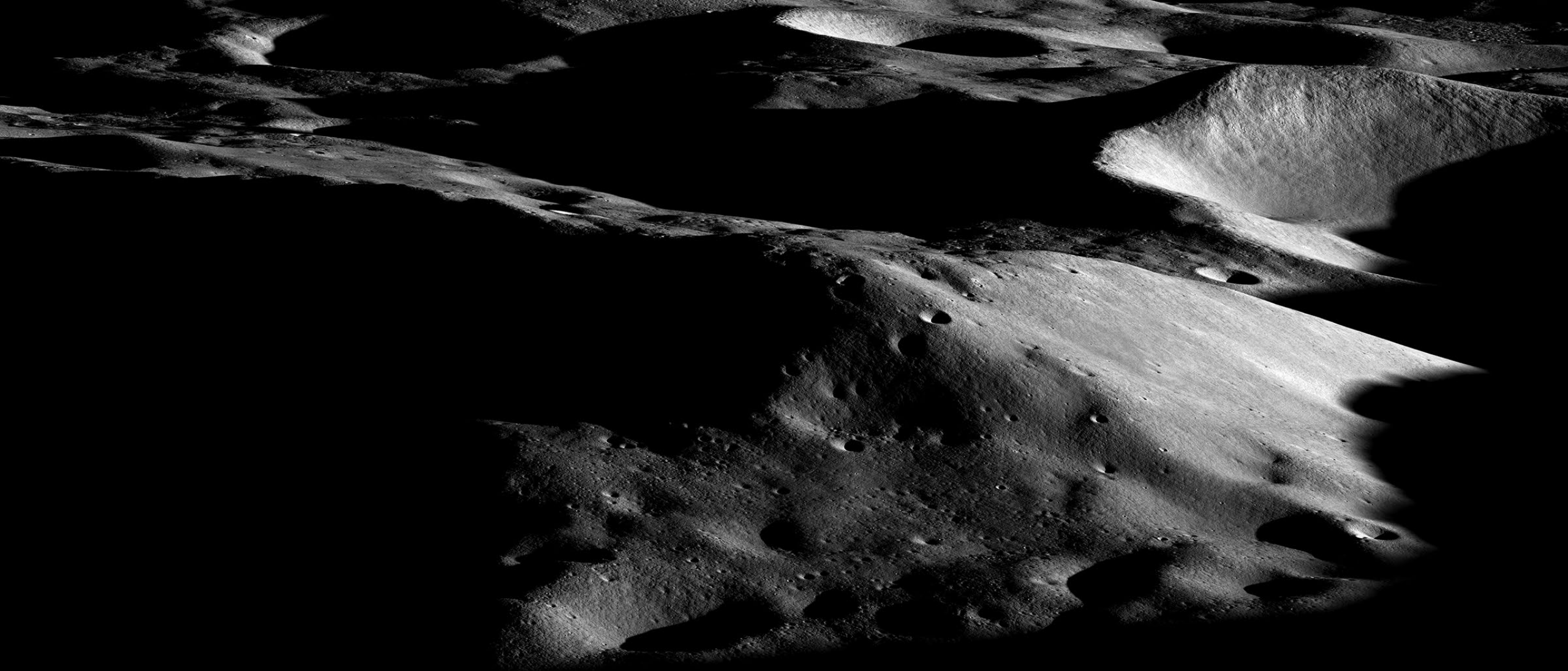


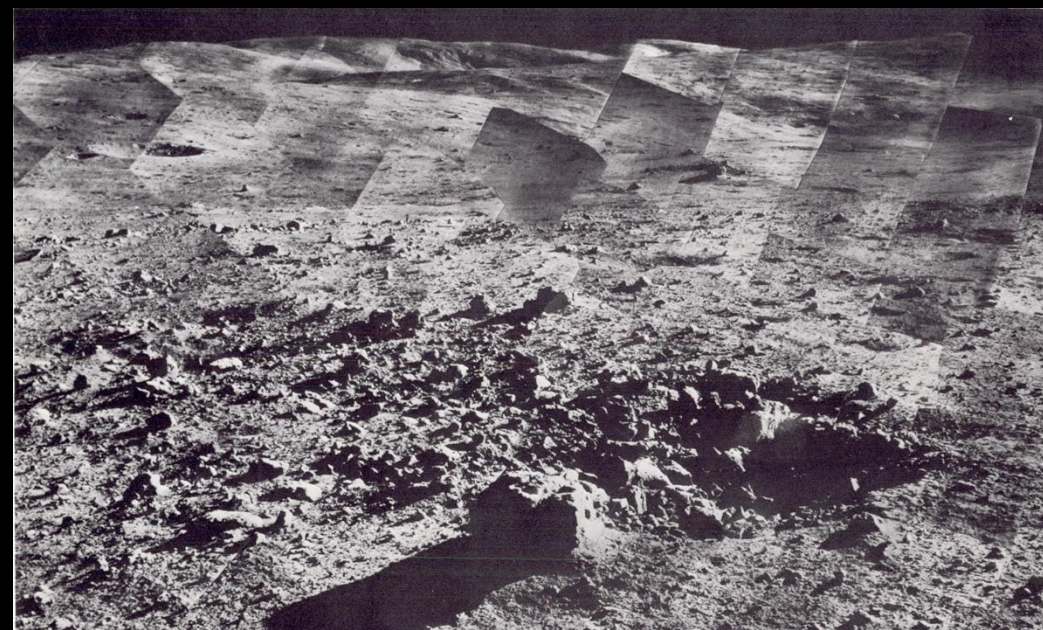


Science in the Artemis Program

Brett Denevi



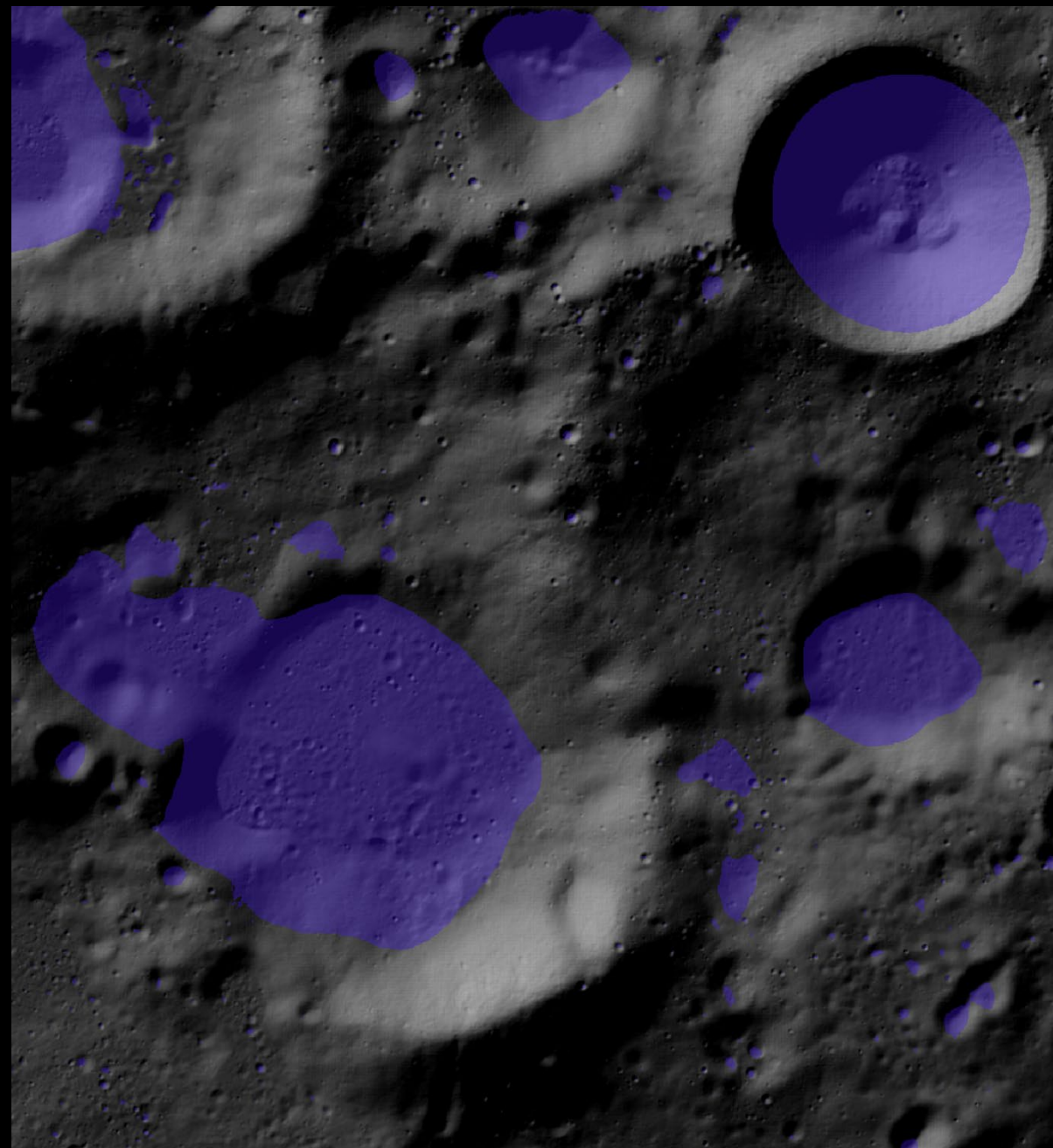
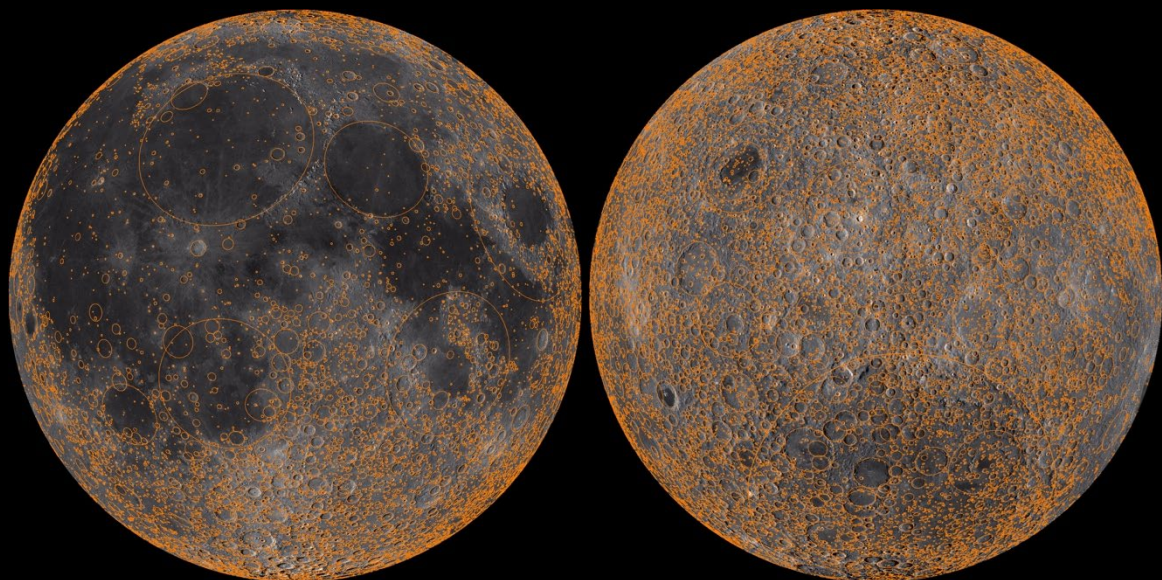
Apollo 17 Taurus-Littrow Valley (1972)

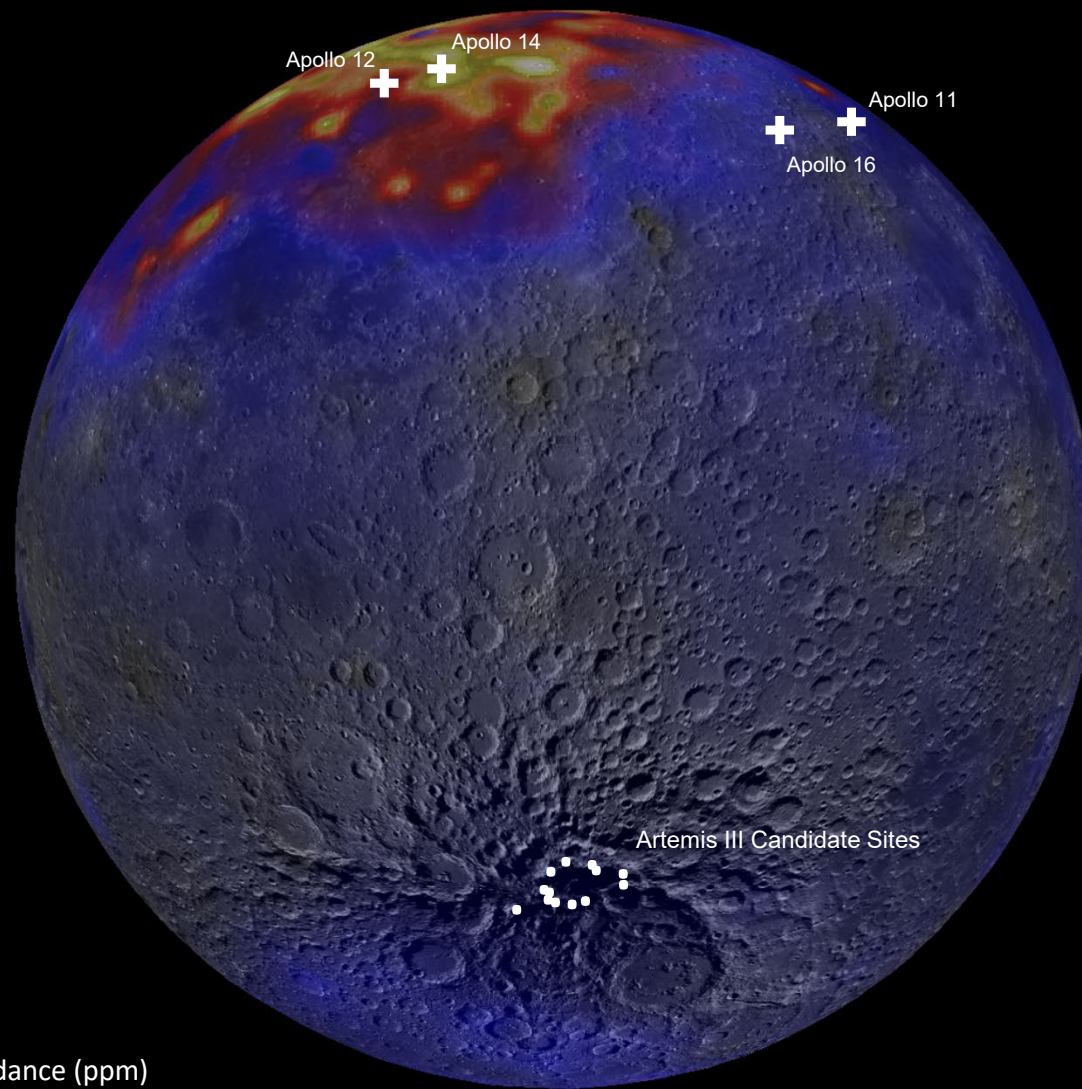
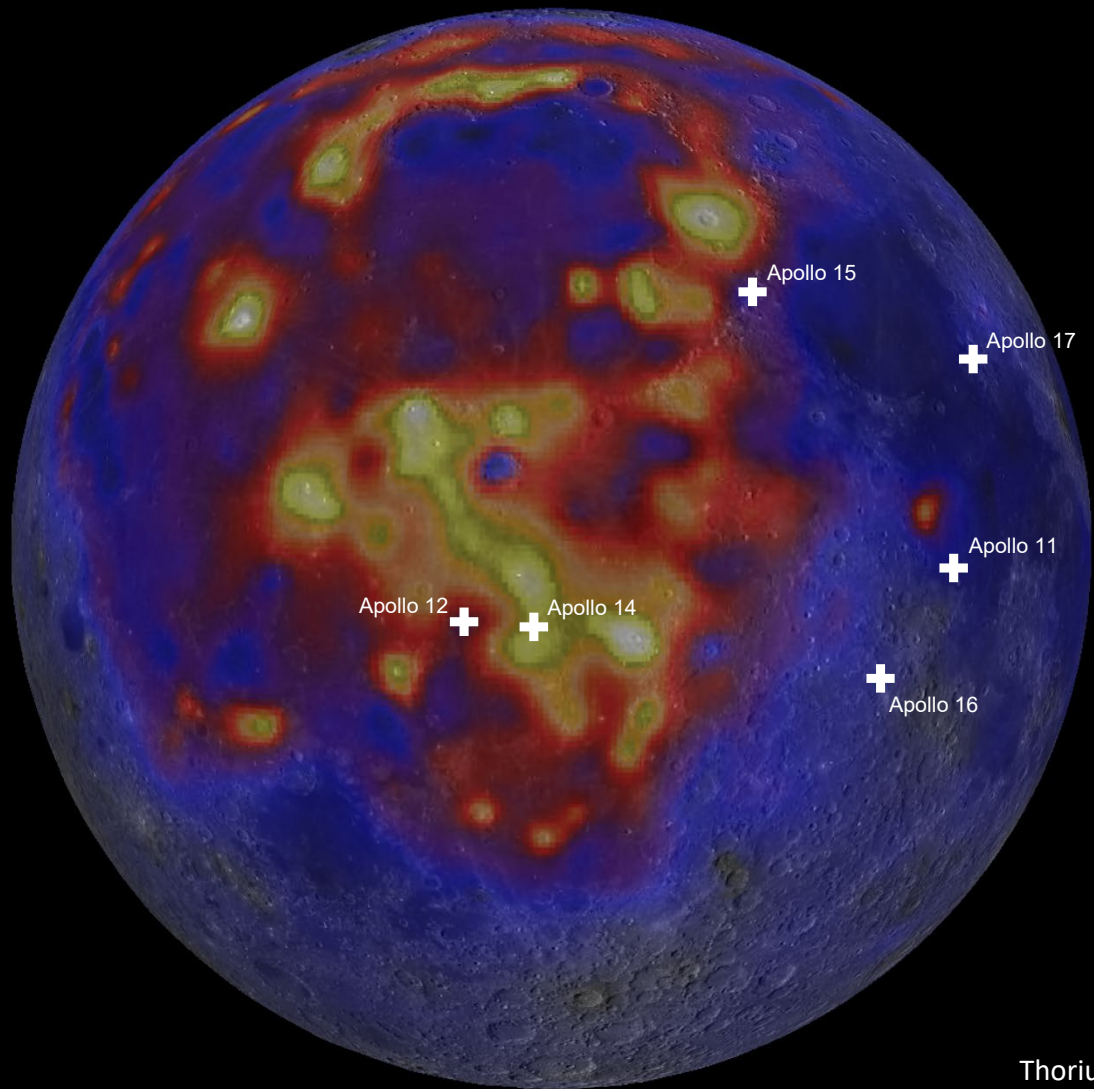


Surveyor VII view near Tycho Crater (1968)



Image: Dana Berry







NASA Appoints Lunar Science Leads for Artemis III, Artemis IV Missions



NASA has appointed two scientists to coordinate the lunar science teams supporting the first and second crewed lunar landing missions in more than 50 years. NASA's [Artemis missions](#) will land the first woman and first person of color on the Moon, using innovative technologies to explore the lunar South Pole region and establish a long-term presence at the Moon.

Noah Petro, of NASA's [Goddard Space Flight Center](#) in Greenbelt, Maryland, has been named the project scientist for [Artemis III](#), which, in 2025, is scheduled to land the first crewed mission on the Moon's surface since the Apollo missions. Petro has been the project scientist for NASA's [Lunar Reconnaissance Orbiter](#) (LRO), which is currently orbiting the Moon and has provided much of the data essential to future lunar missions. Petro will transition to LRO deputy project scientist while serving on the Artemis III mission.



Dr. Noah Petro has been named the project scientist for Artemis III. Petro is the current project scientist for NASA's Lunar Reconnaissance Orbiter mission.
Credits: NASA Goddard/Jay Friedlander

Barbara Cohen, of Goddard, was named project scientist for Artemis IV, which will follow Artemis III and feature a second crewed landing near the Moon's South Pole, as well as the first [Gateway](#) assembly mission with the addition of a new element to the lunar space station. Cohen is the principal investigator of NASA's [Lunar Flashlight](#) mission, an orbiter aiming to map ice in the permanently shadowed regions of the Moon's South Pole, and the [Peregrine Ion-Trap Mass Spectrometer](#) (PITMS), an instrument aboard Astrobotic's [Peregrine Mission 1](#), one of the first lunar surface delivery contracts awarded through NASA's Commercial Lunar Payload Services initiative.

"Drs. Petro and Cohen are well respected lunar scientists and leaders within the NASA and broader lunar science communities," said Sarah Noble, Artemis lunar science lead at NASA Headquarters in Washington. "I am very excited to see them step into these critical roles. Their leadership will help us maximize the science we can accomplish as we return humans to the lunar surface."

As Artemis mission project scientists, Petro and Cohen will coordinate and support the work of the various components of the Artemis science team, which includes the Artemis internal science team, the competed geology teams, participating scientists, and the payload teams, as well as provide a voice for the entire science team with the missions' operations teams.



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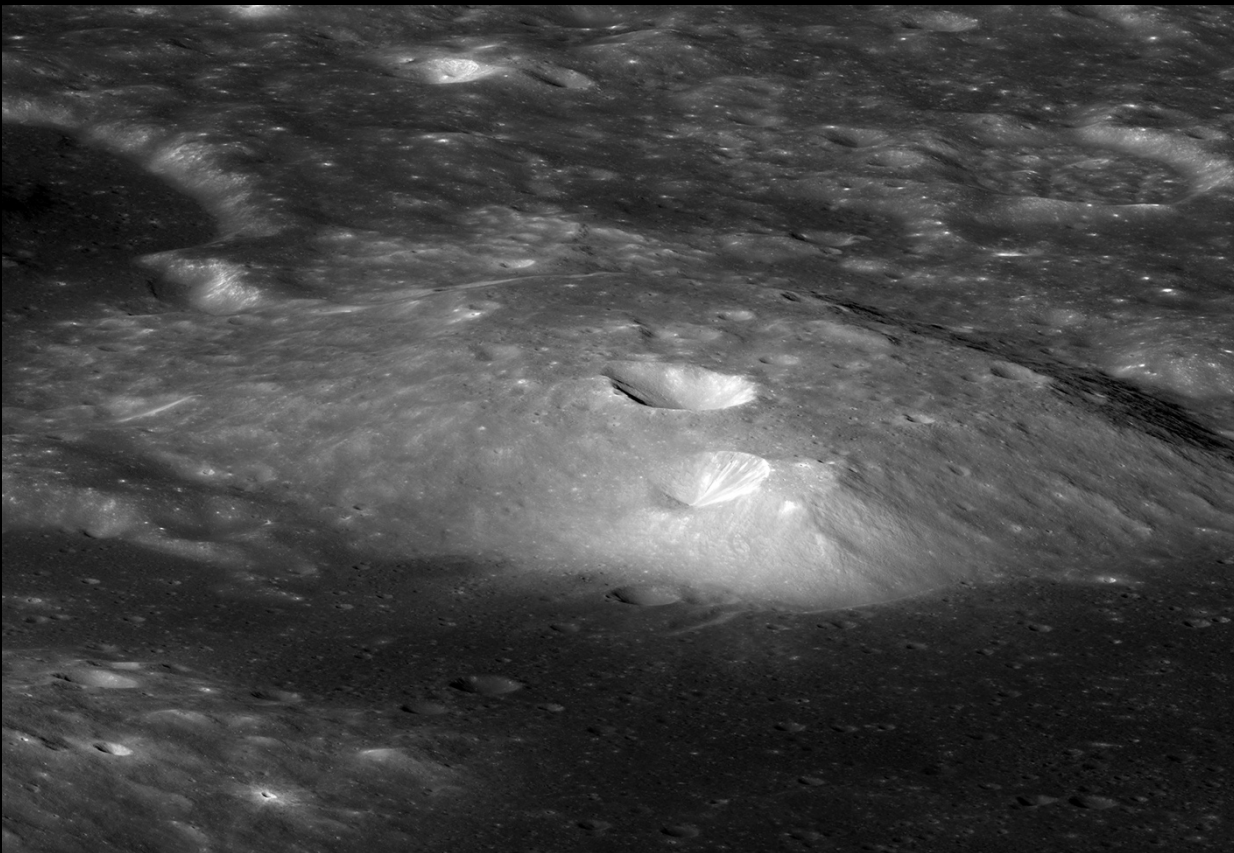


C.25 Artemis III Geology Team

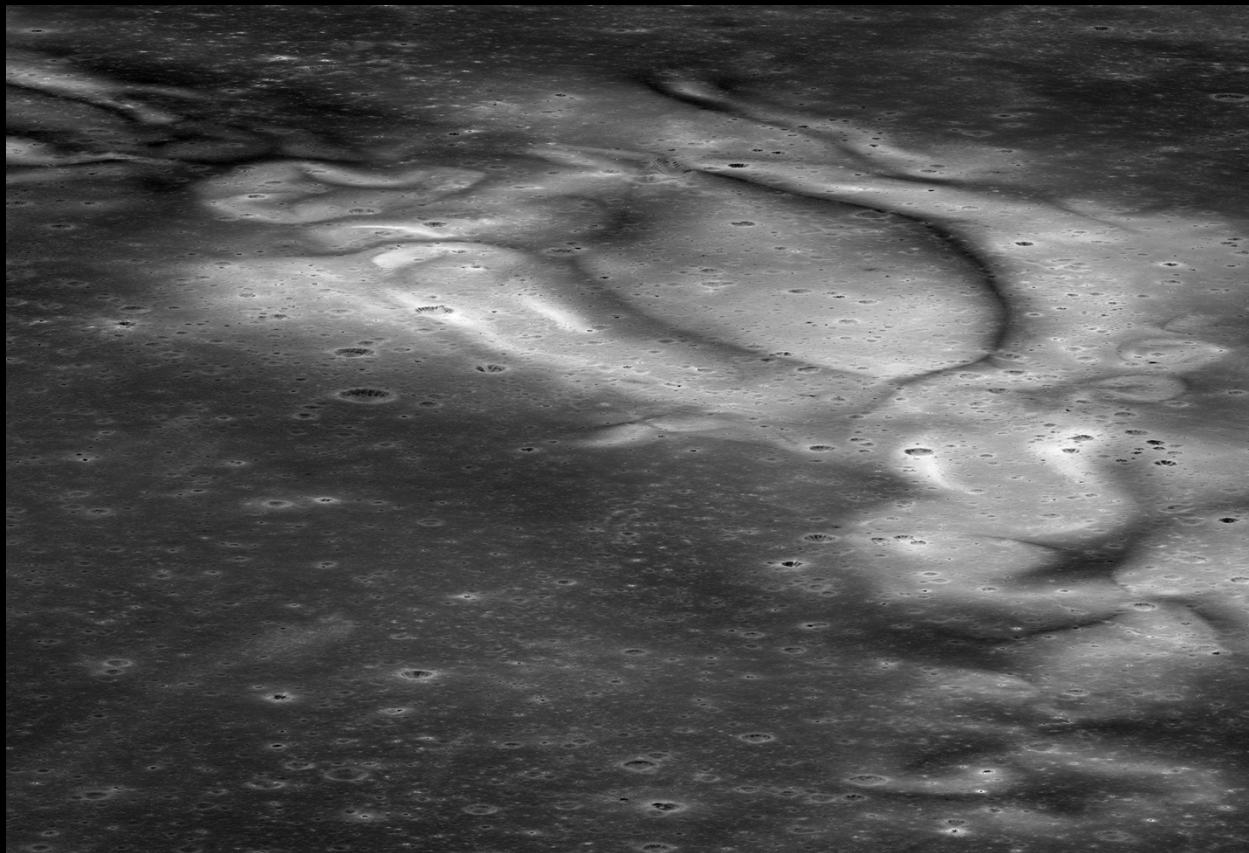
Number: NNH22ZDA001N-A3GT Directorate: Science Mission Directorate Type: NASA Research Announcement

Dates

Label	↑↓ Date
Release	Feb 14, 2022
A3GT22 Step-1 Proposals Due	Feb 24, 2023
A3GT22_2 Step-2 Proposals Due	Apr 25, 2023

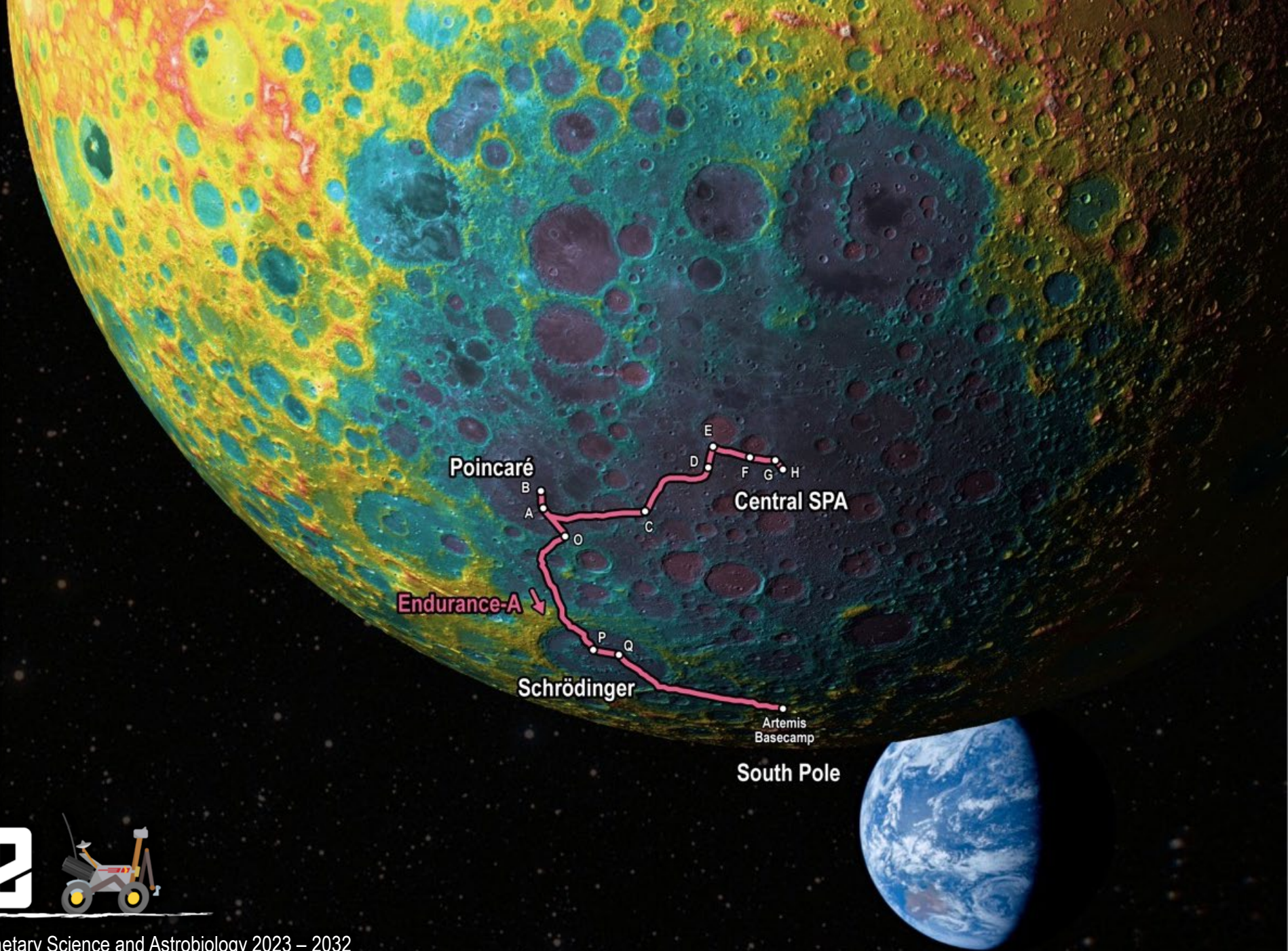


Gruithuisen Domes (2023)
(and 2026)



Reiner Gamma (2024)

And 7 other Commercial Lunar Payload Services “deliveries” to the lunar surface scheduled for 2023–2026



Endurance



Origins, Worlds, and Life: A Decadal Strategy for Planetary Science and Astrobiology 2023 – 2032

“Retrieval and return of substantial Endurance-A samples by Artemis astronauts...would be a forward-looking, inspirational partnership to deliver ground-breaking science” (OWL)

National Aeronautics and
Space Administration

