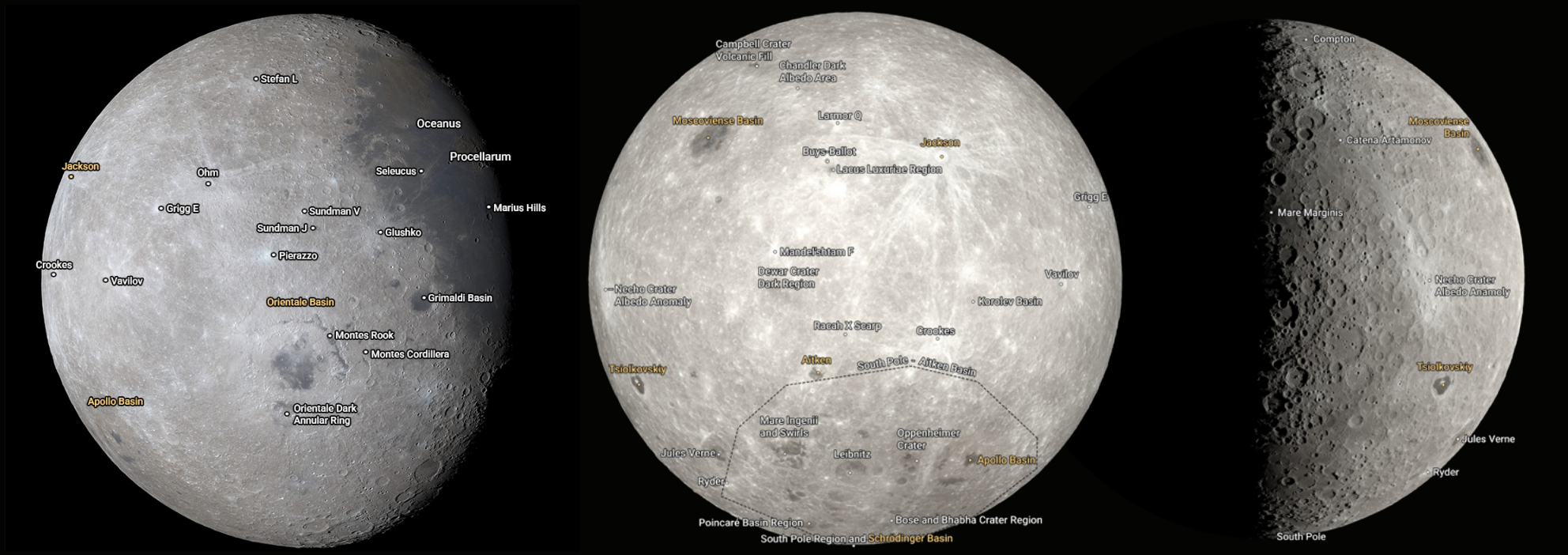


Common Artemis II Lunar Science Target Flashcards

Amber Turner, Megan Borel, & Jacob Richardson

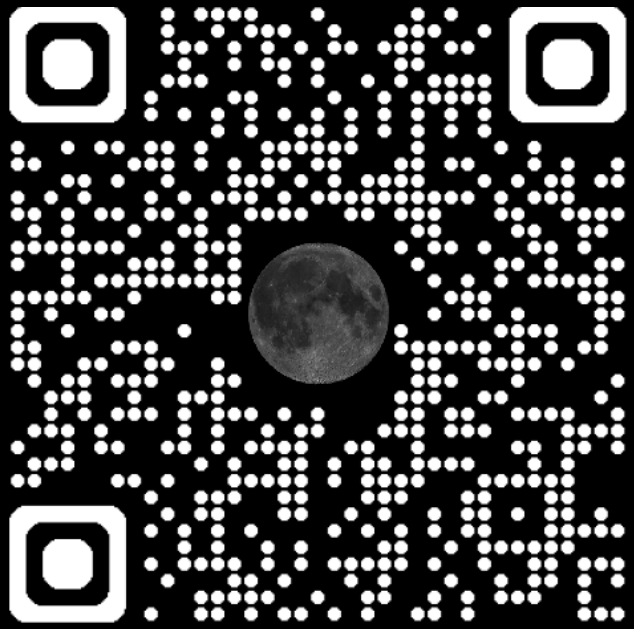
This set of flashcards is a study aid for your common lunar science targets based on recent iterations of the LTP with February flyby dates. More flashcards will be provided as additional targets come online.

For more challenging targets, additional flashcards are included to represent a range of illumination conditions, reflecting cases where topography becomes washed out with a high-illumination visual, color is difficult to discern with an average-illumination visual, or targets are small and difficult to identify quickly regardless of the illumination condition of the visual provided.

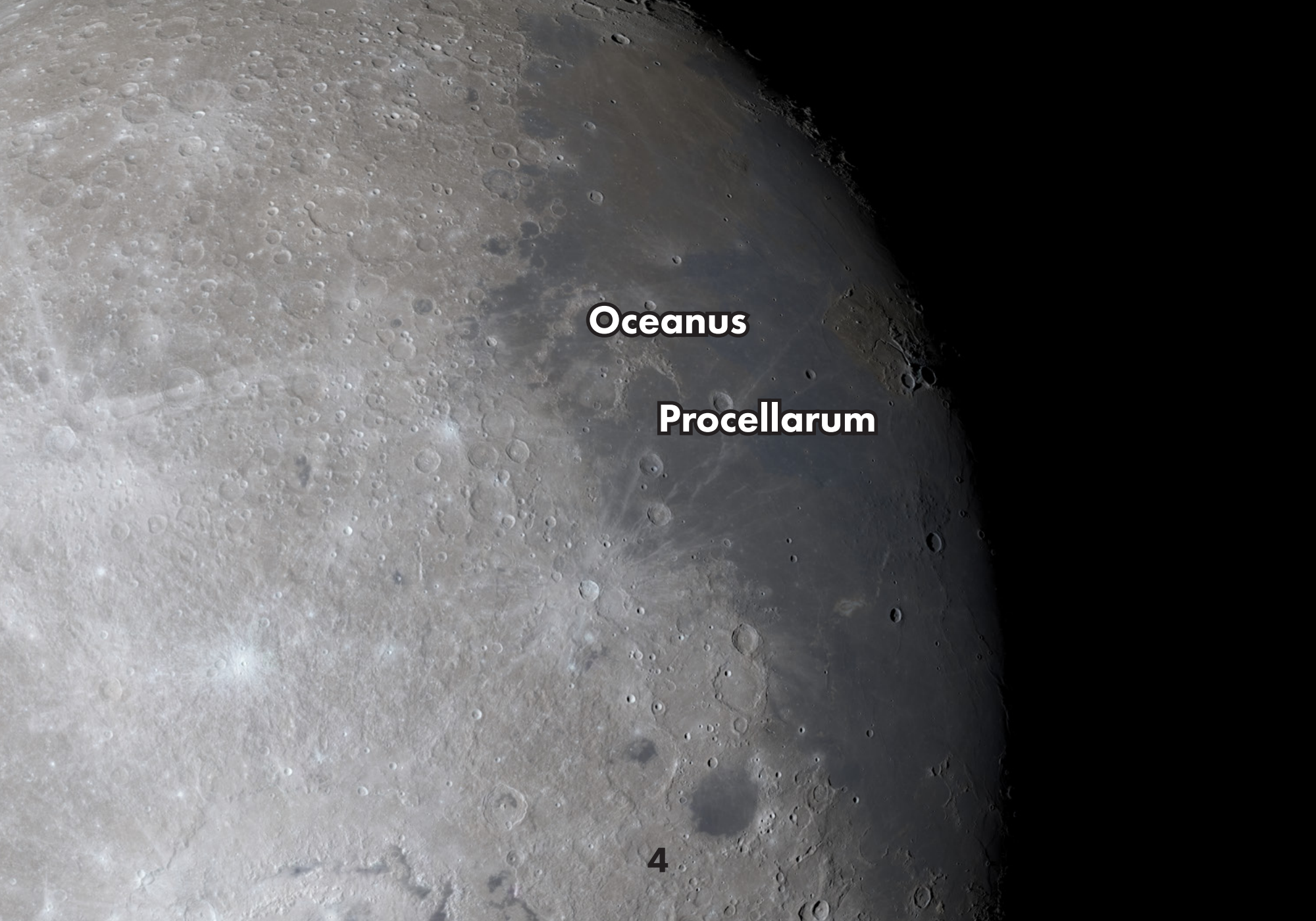
Happy studies!
-Amber & Megan

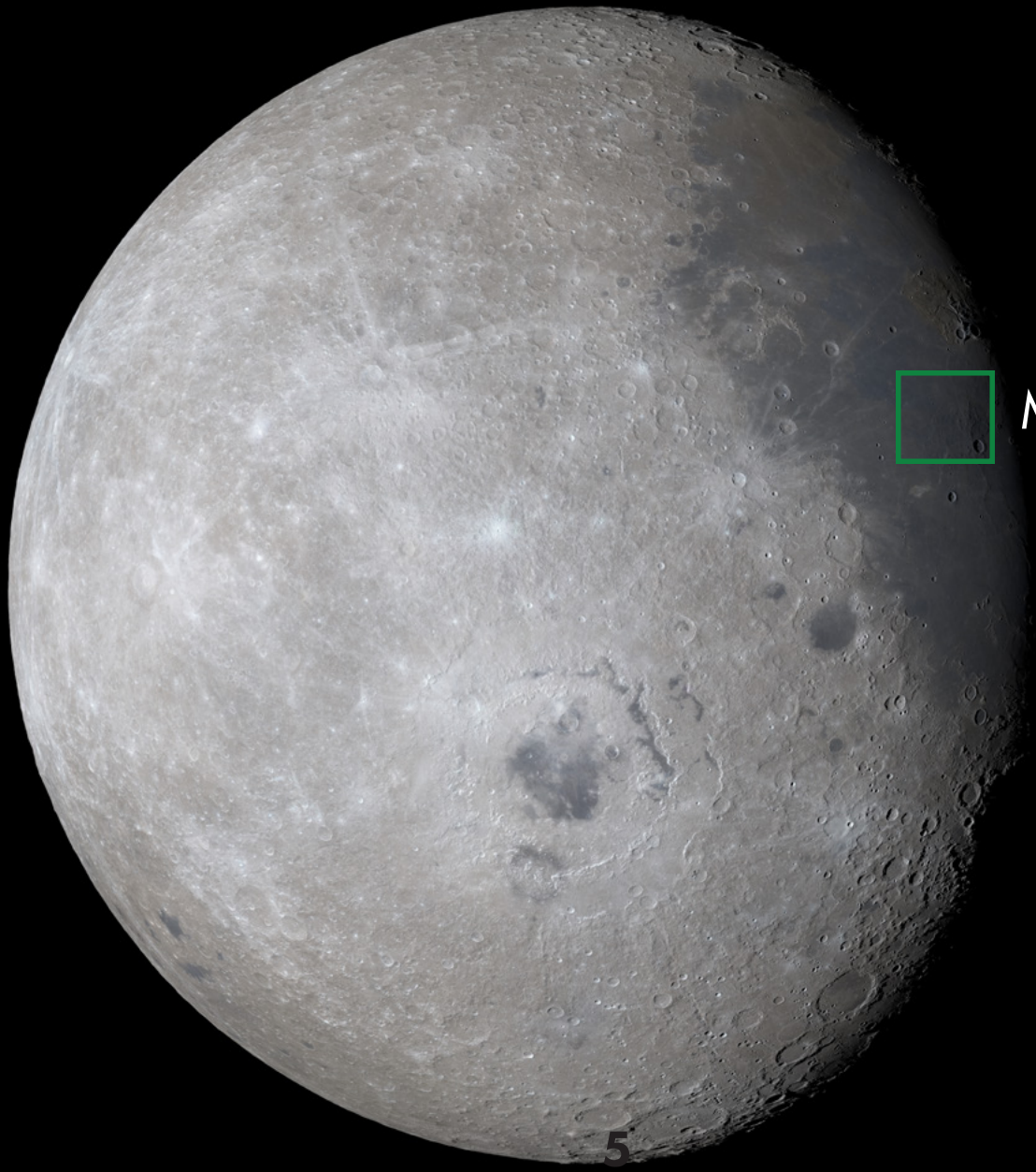
Your flashcards are also available digitally so that you can study on the go. When/if more targets are selected by the Artemis II Lunar Science Team, we will update both your physical and digital copies.

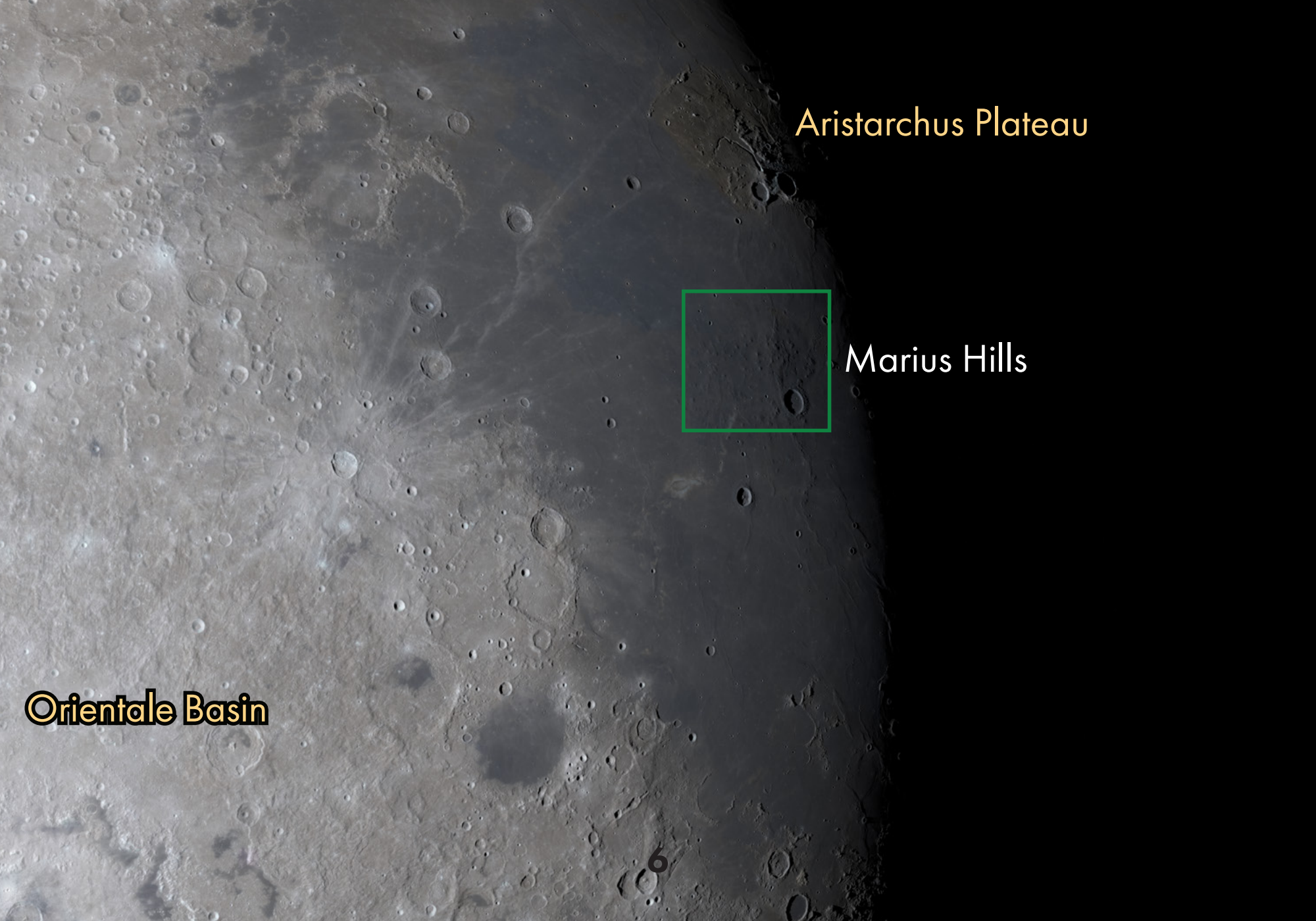
Please Scan the QR Code to be taken to Artemis ERA and scroll down to the Artemis II Lunar Surface Target Flashcards PDF.

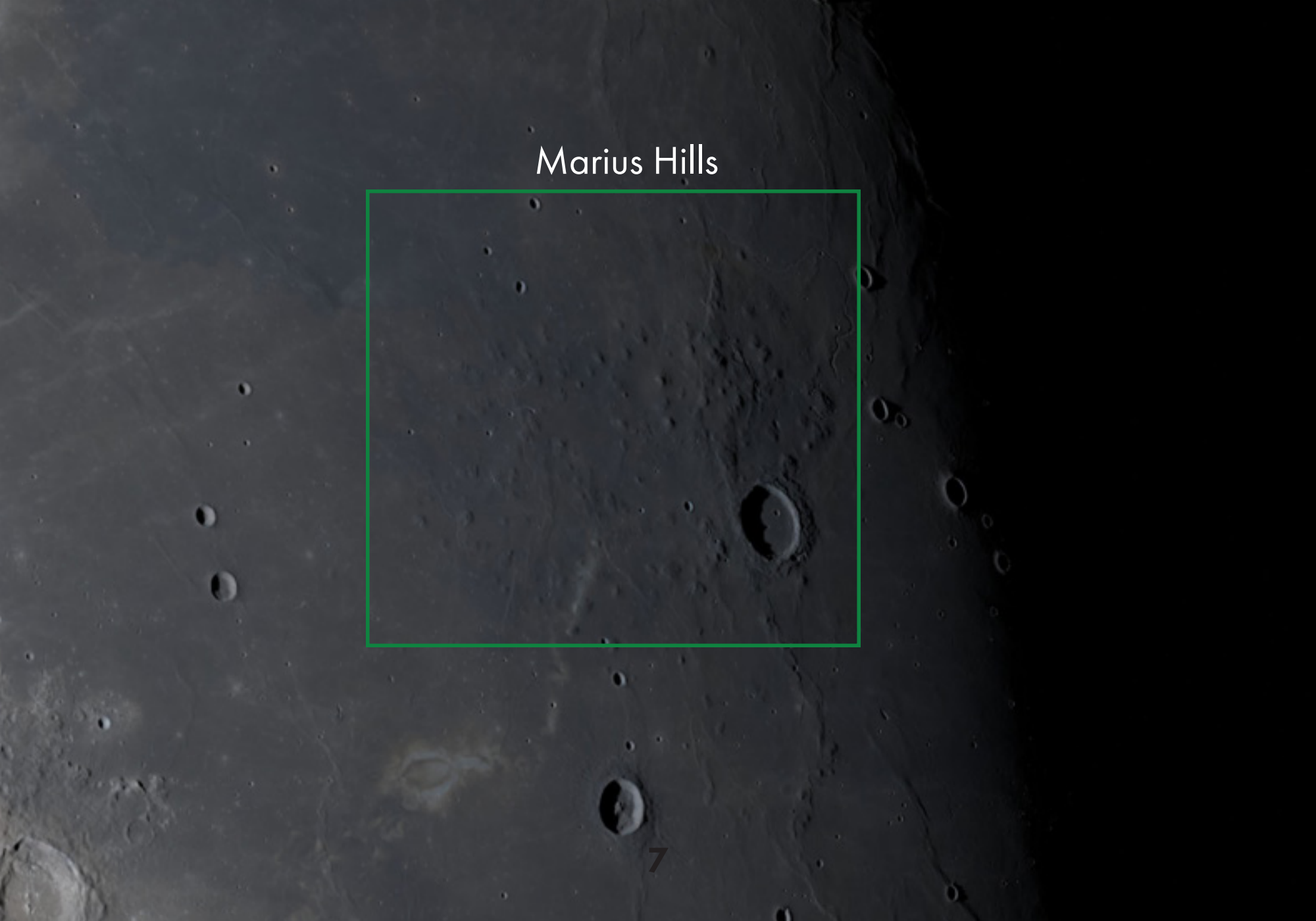


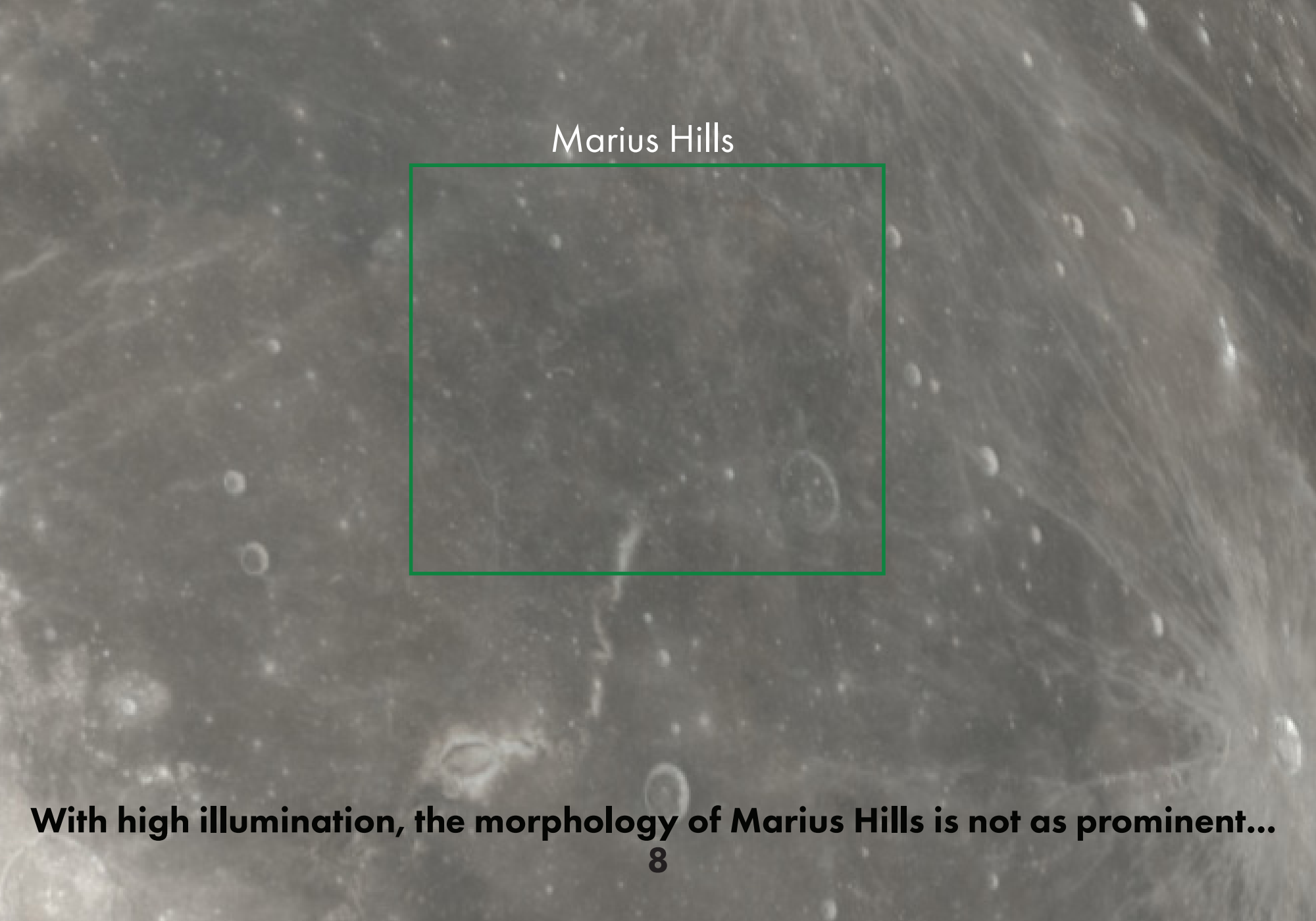
APPROACHING SIDE


Oceanus
Procellarum


Marius Hills

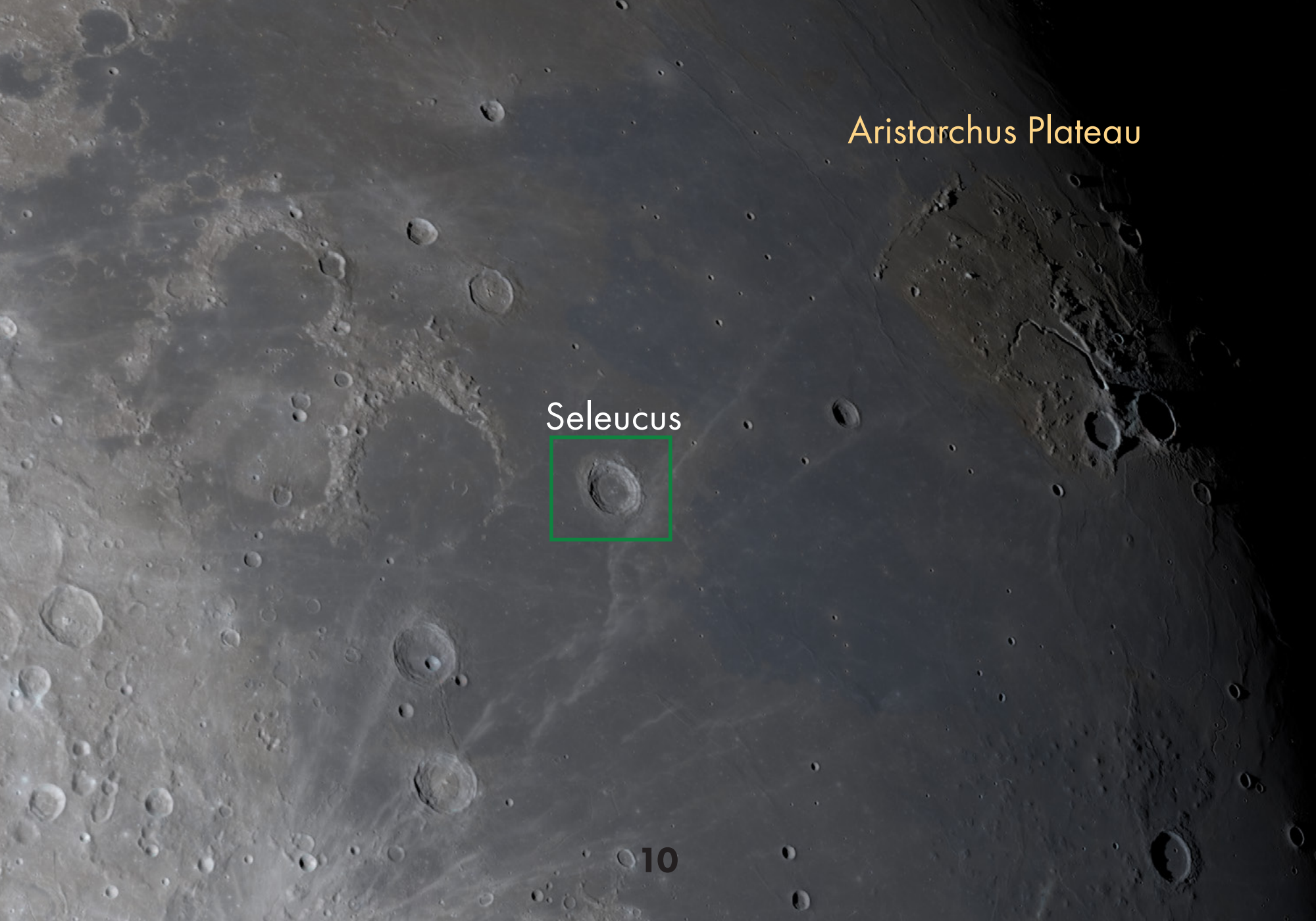

Aristarchus Plateau
Marius Hills
Orientale Basin


Marius Hills



With high illumination, the morphology of Marius Hills is not as prominent...


Seleucus

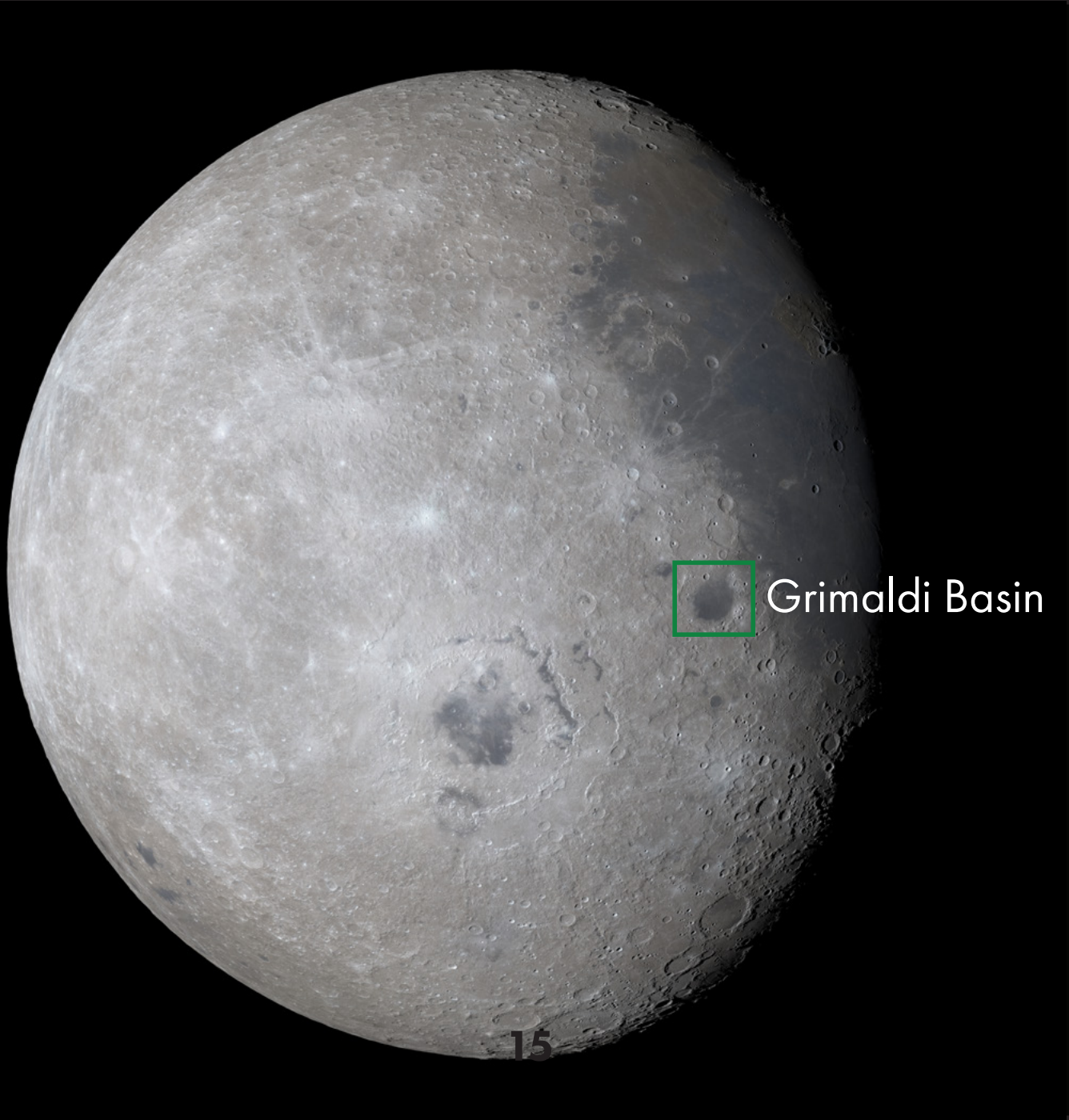

Aristarchus Plateau
Seleucus

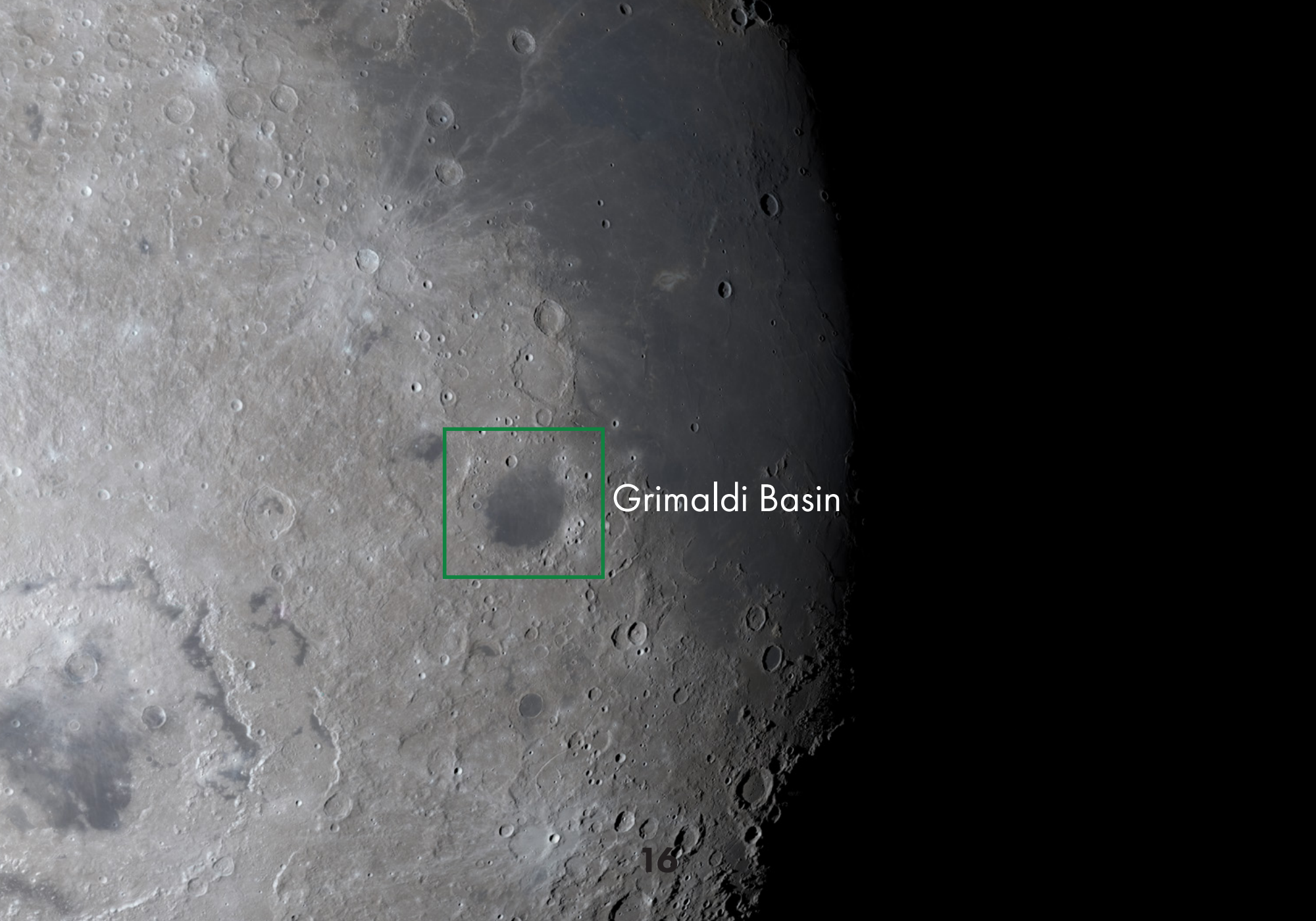

Aristarchus
Plateau
Seleucus


Glushko


Glushko


Glushko


Grimaldi Basin

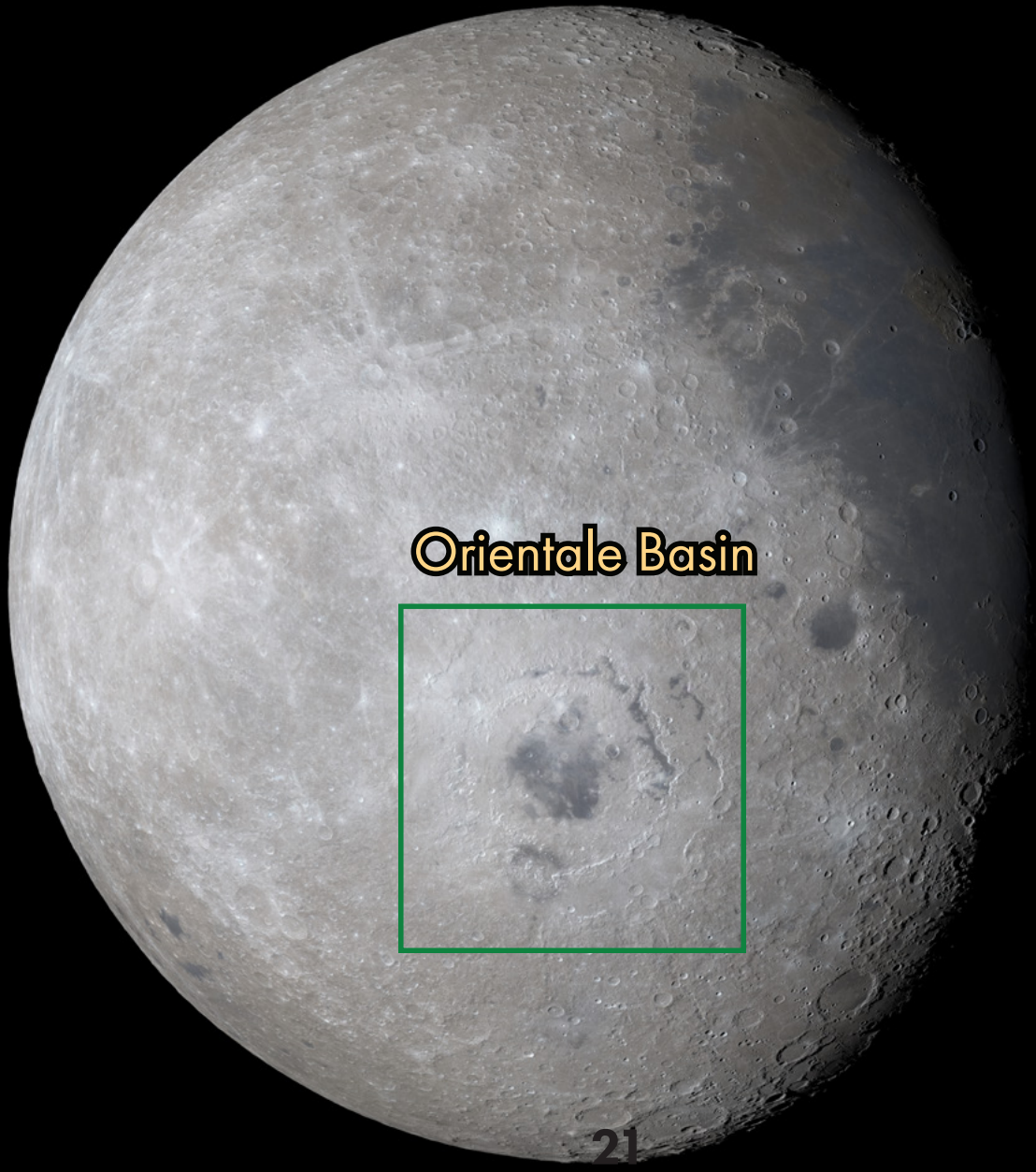

Grimaldi Basin


Grimaldi Basin


Byrgius A

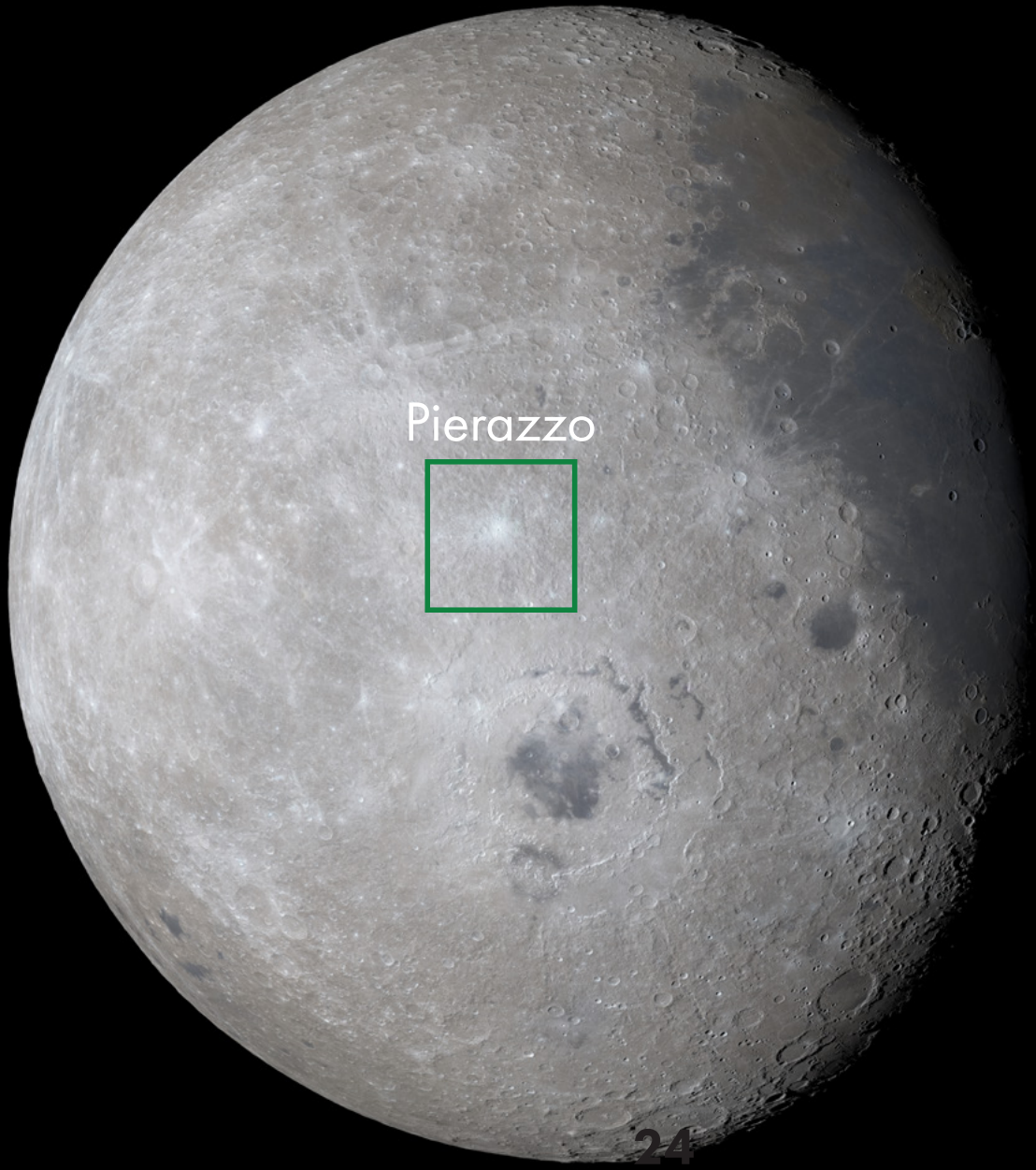

Orientale Basin
Byrgius A

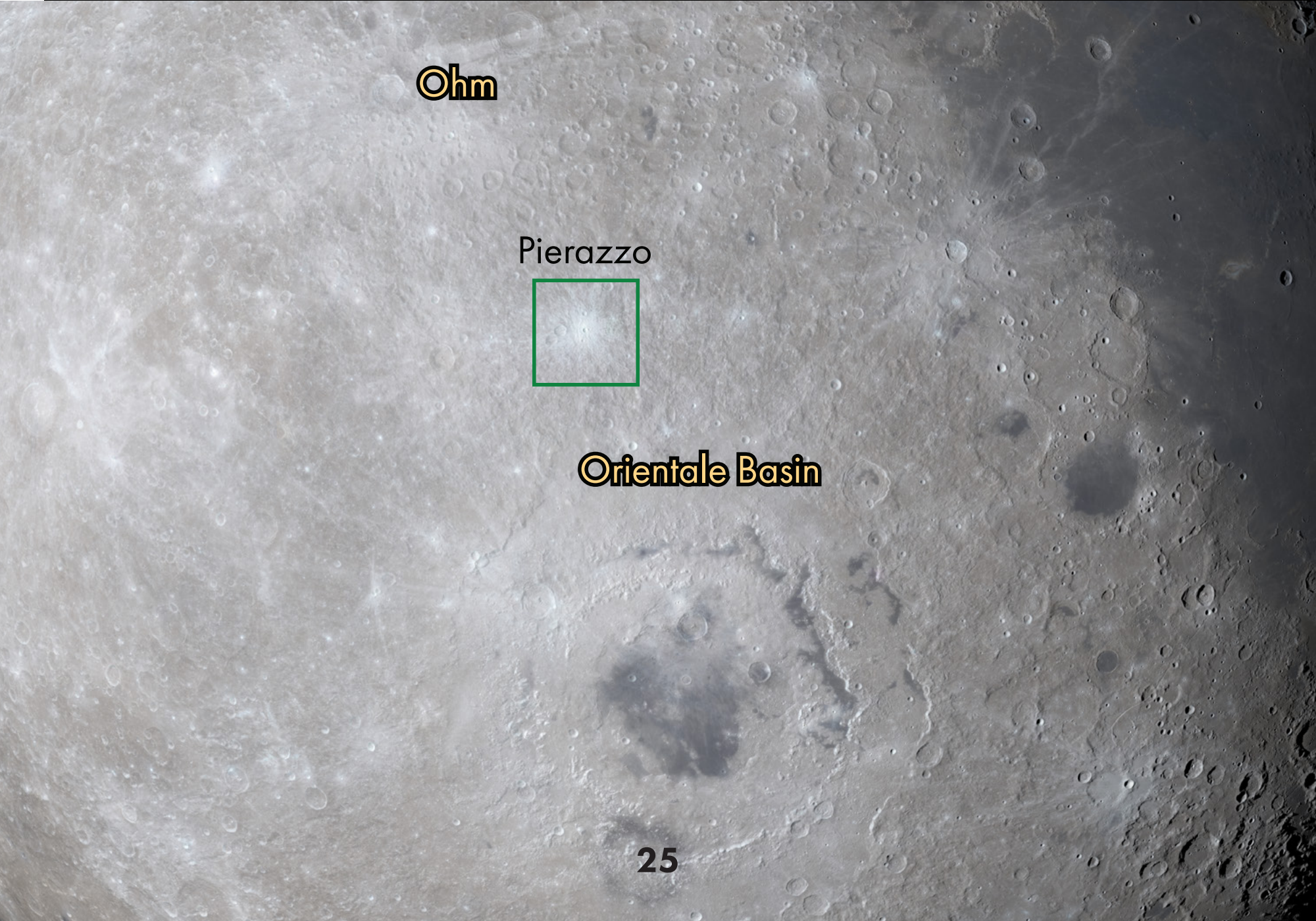

Byrgius A


Orientale Basin

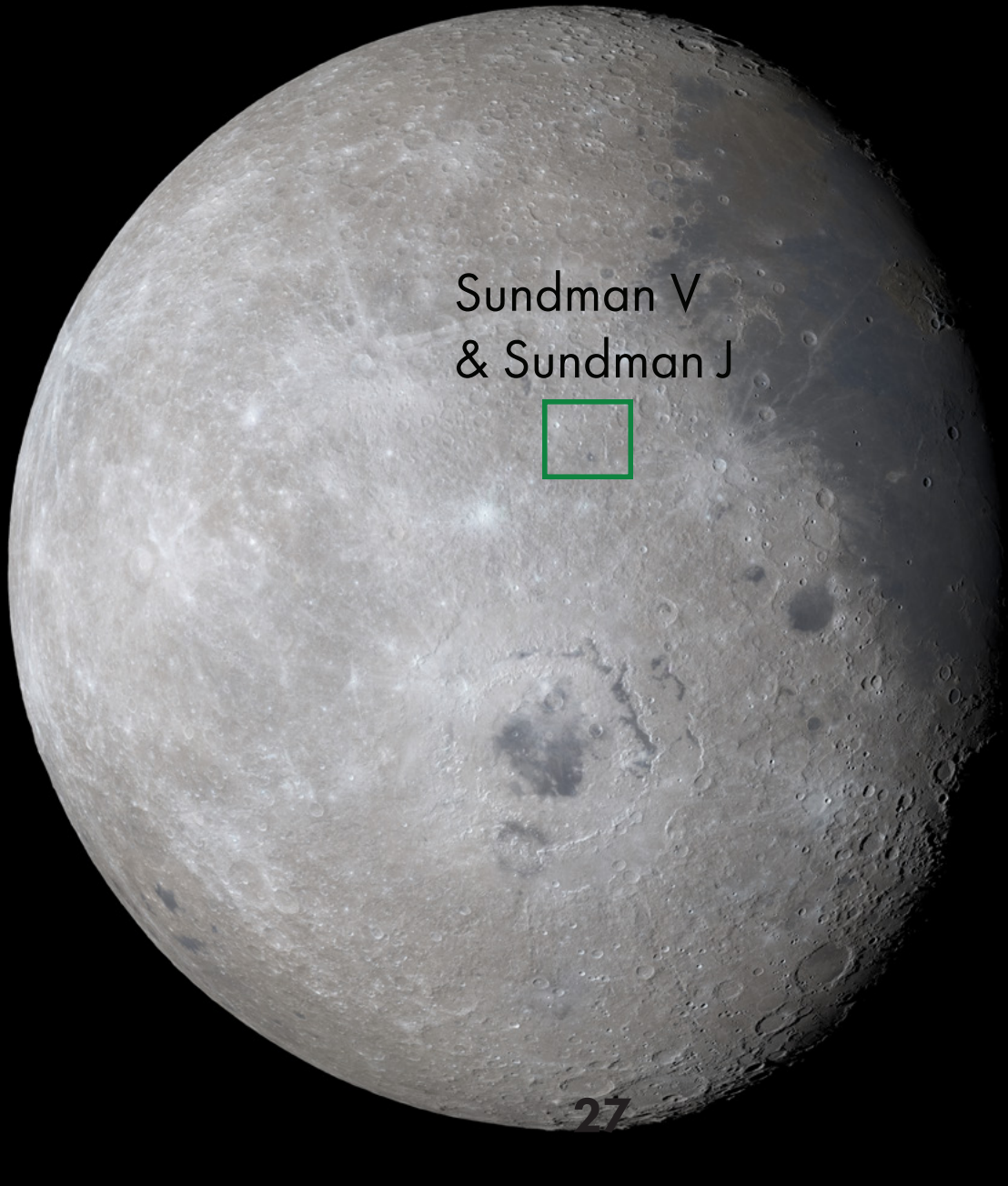

Orientale Basin


Orientale Basin
Montes Cordillera
Montes Rook
Montes Rook
Dark Annular Ring

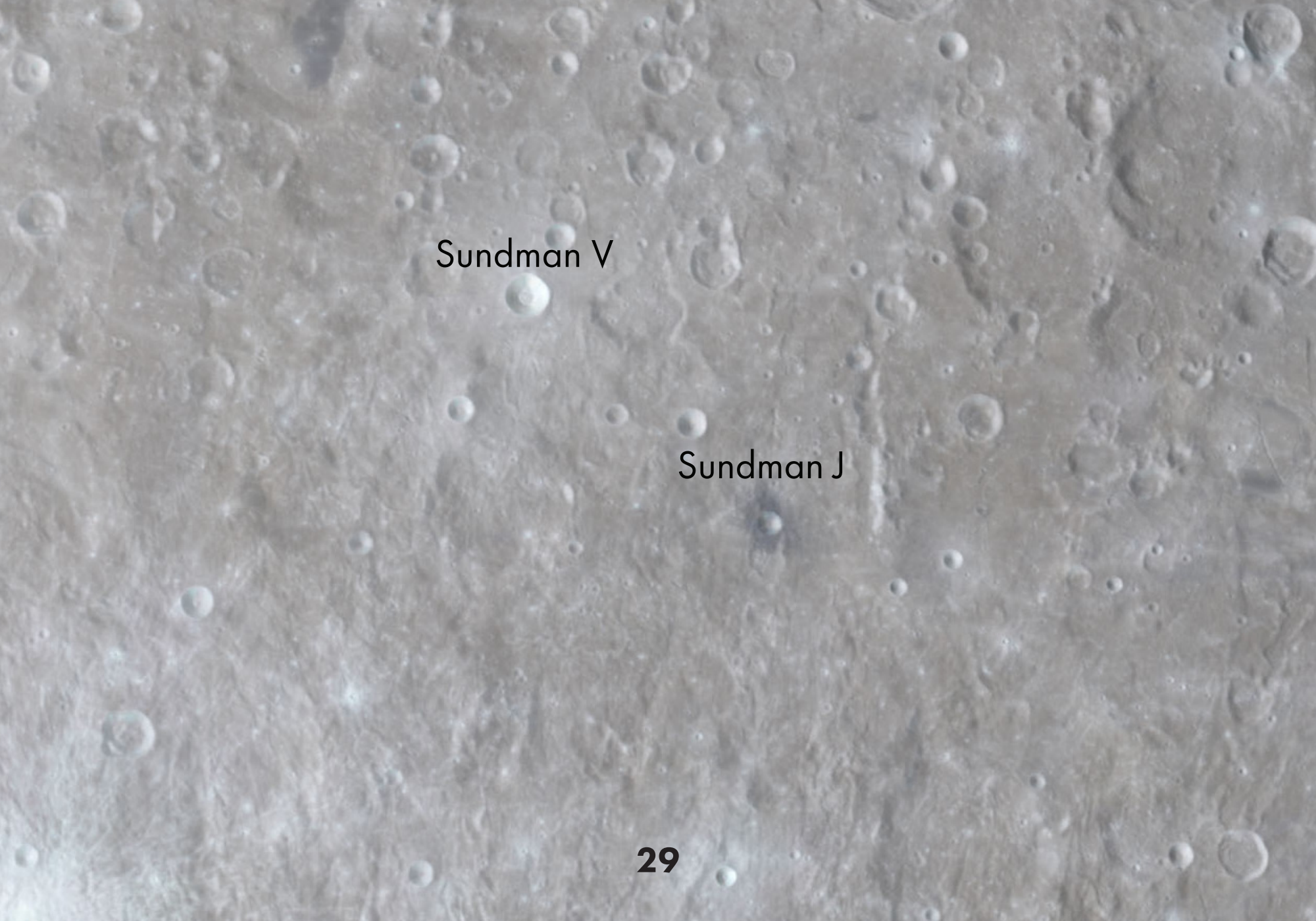

Pierazzo

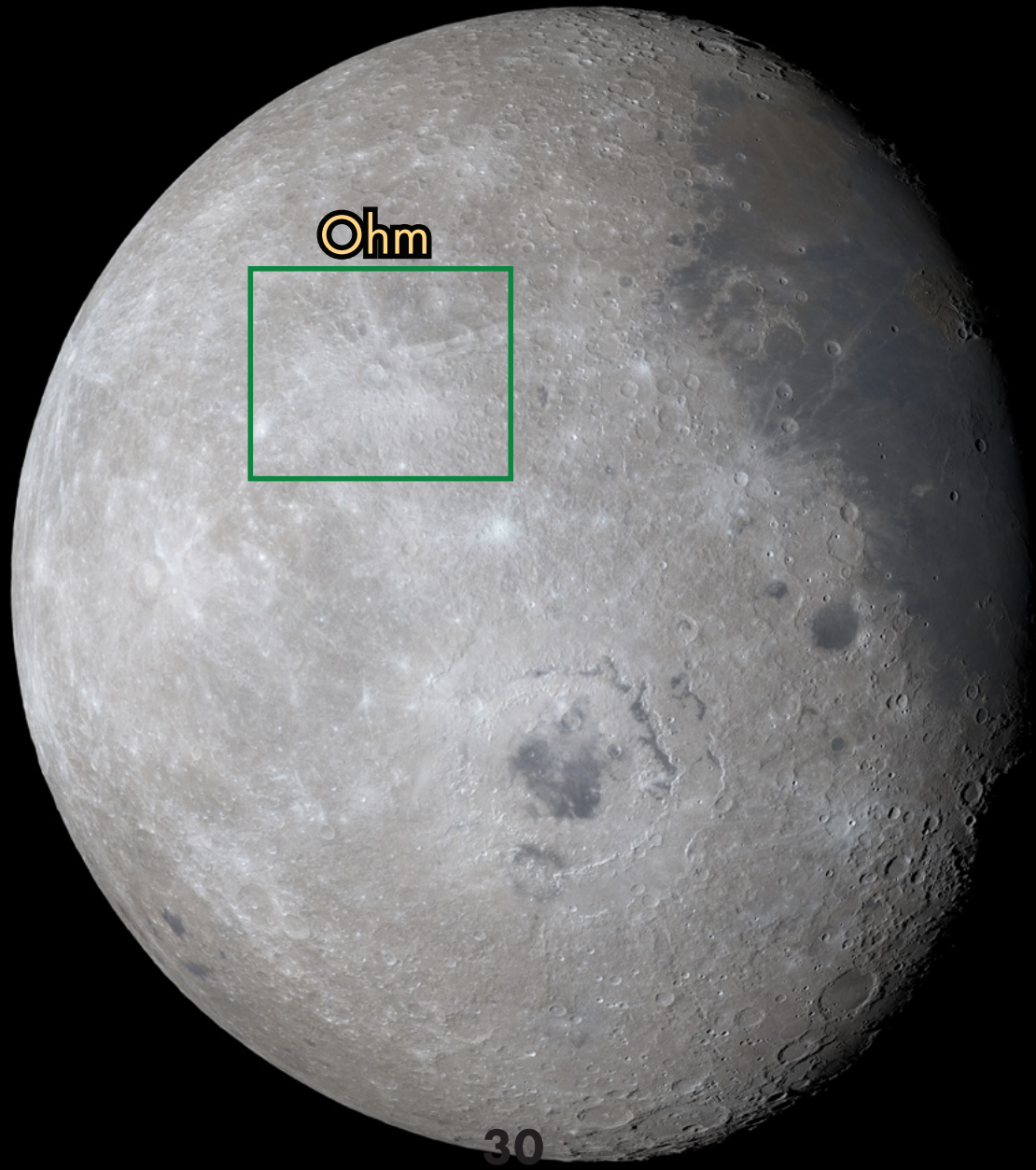

Ohm
Pierazzo
Orientale Basin


Pierazzo

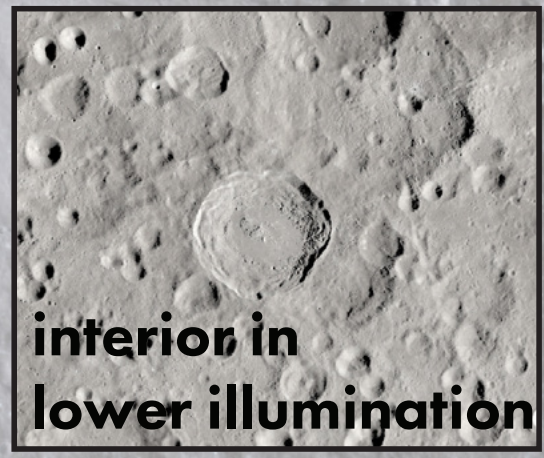

Sundman V
& Sundman J


Sundman V
Sundman J
Orientale Basin

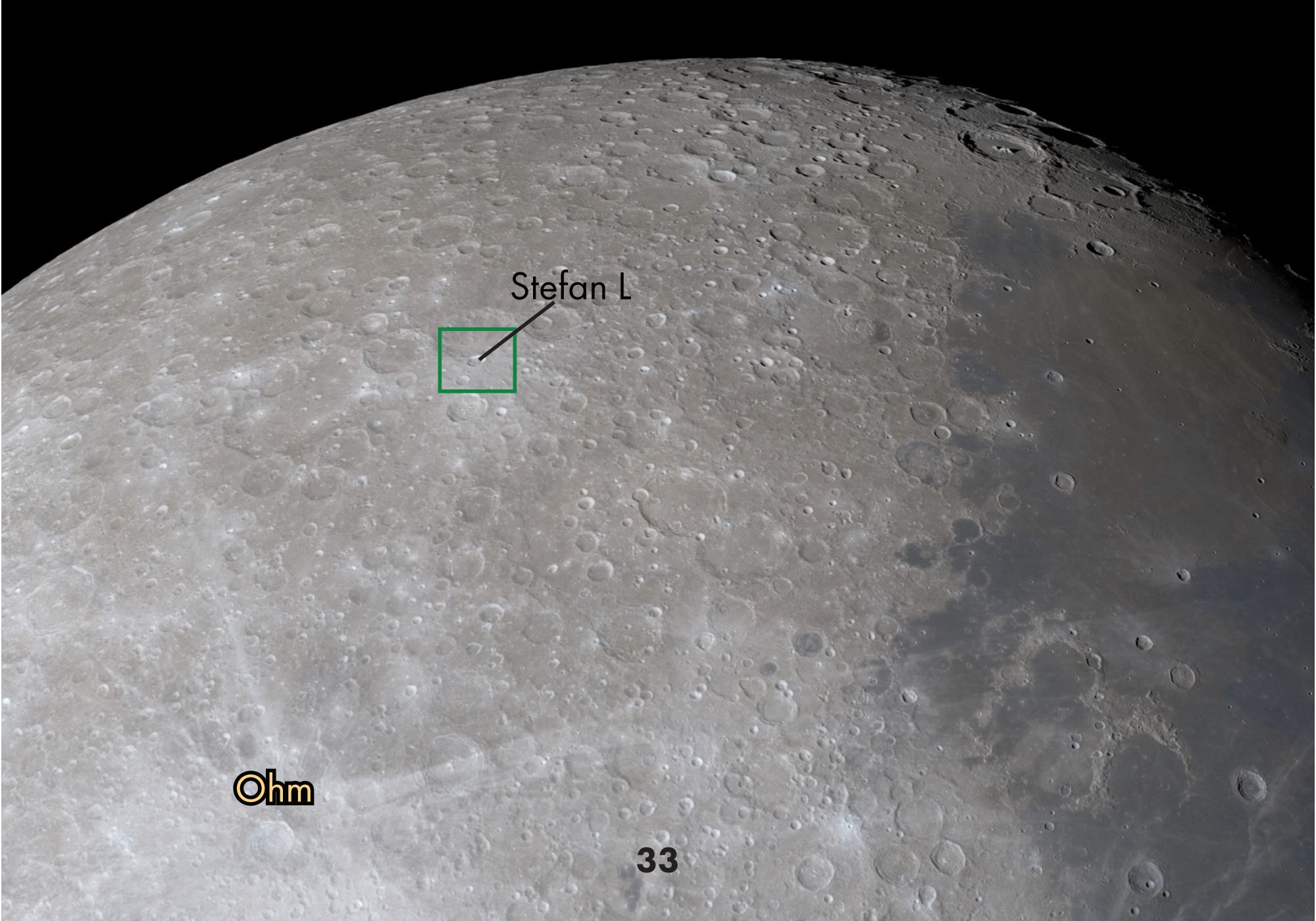

Sundman V
Sundman J

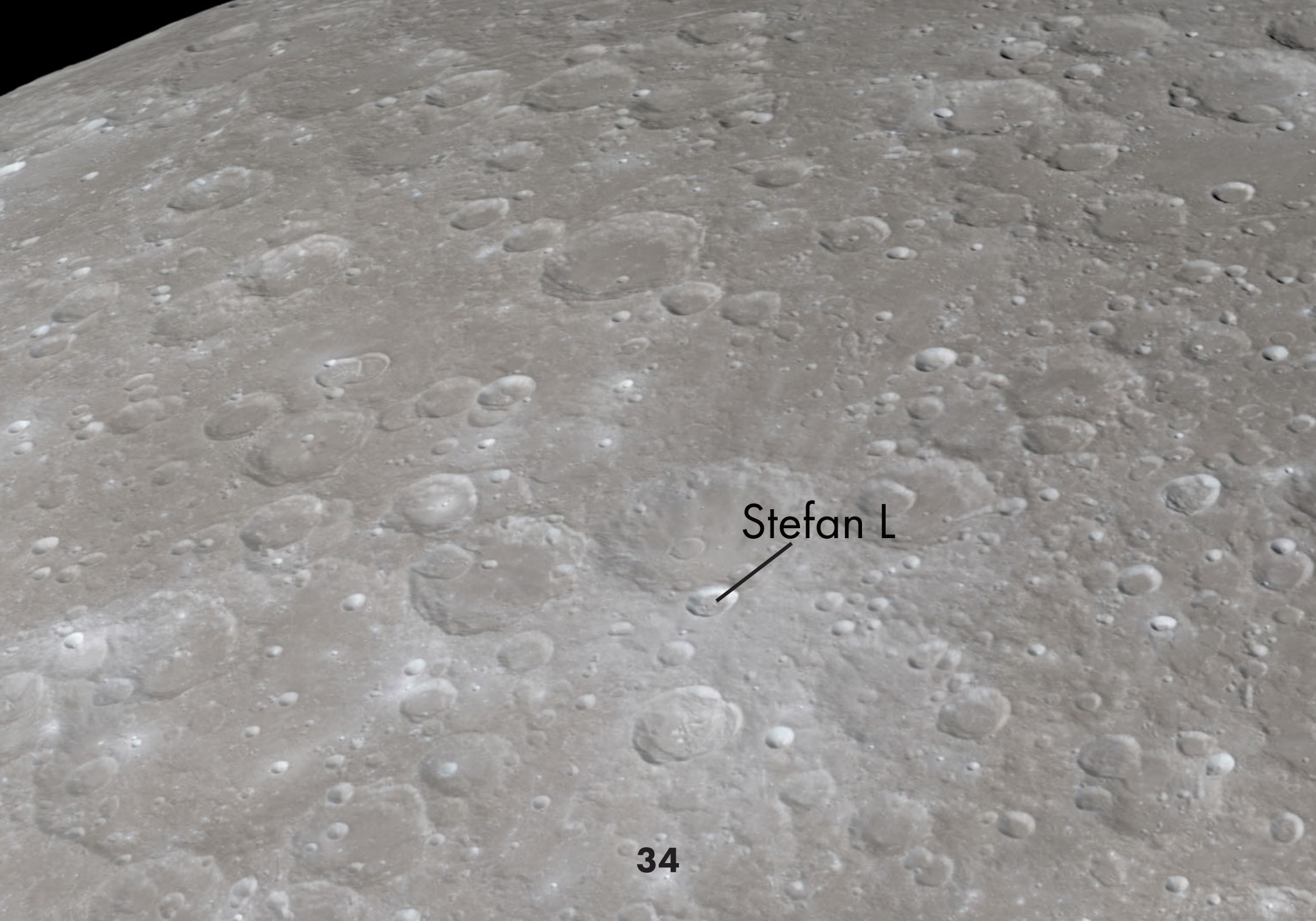

Ohm

Ohm



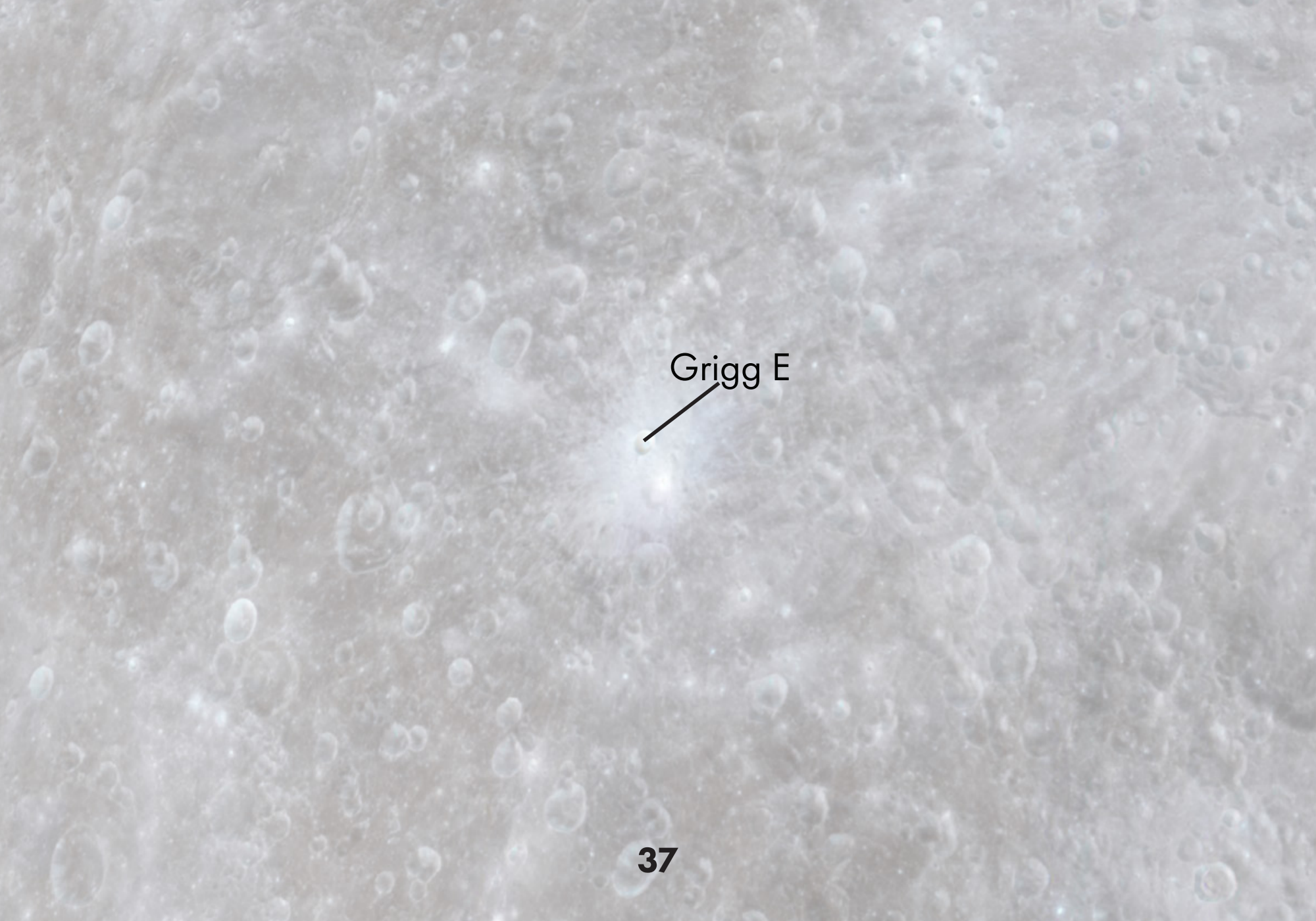

Stefan L

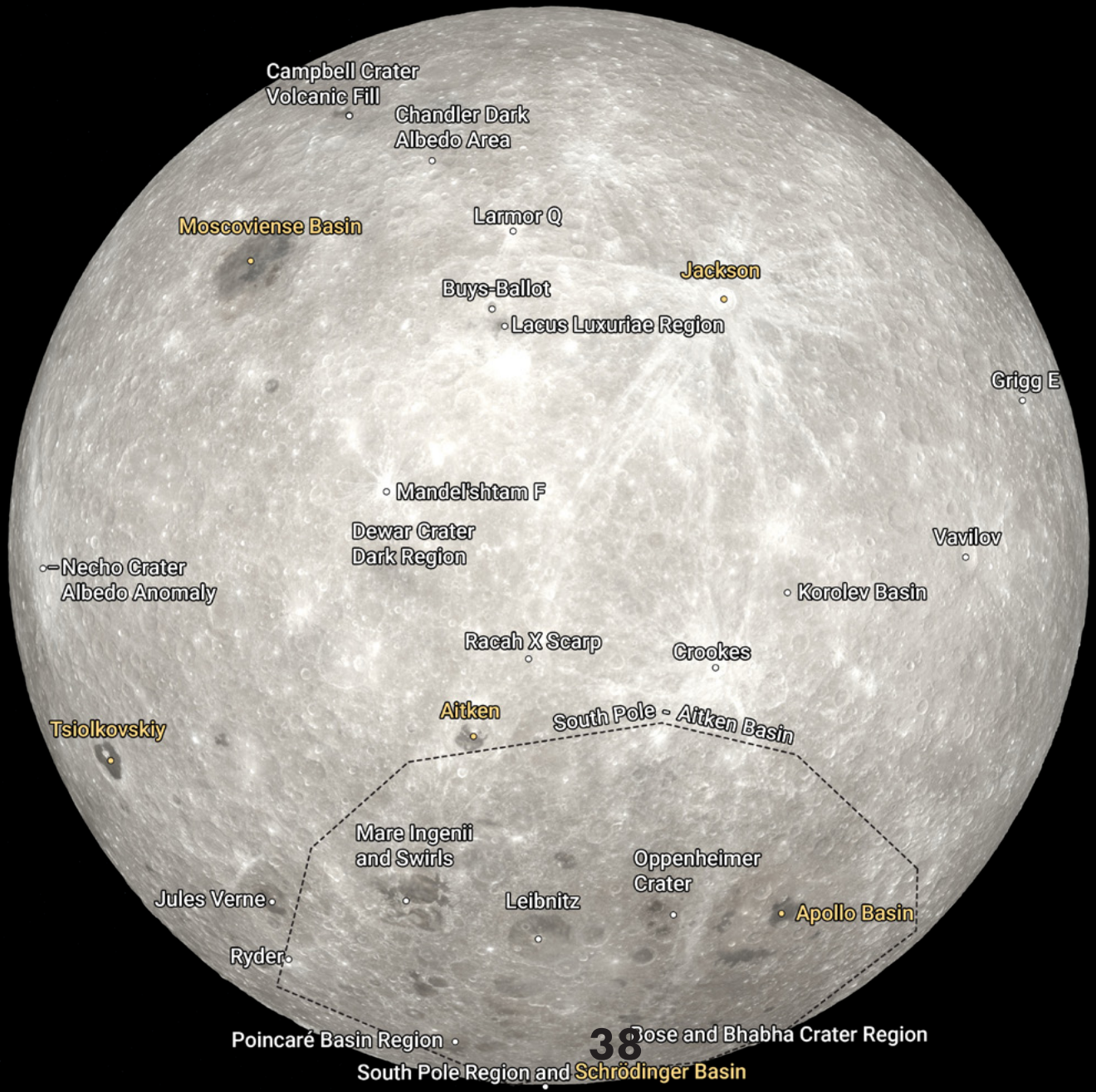

Stefan L
Ohm


Stefan L

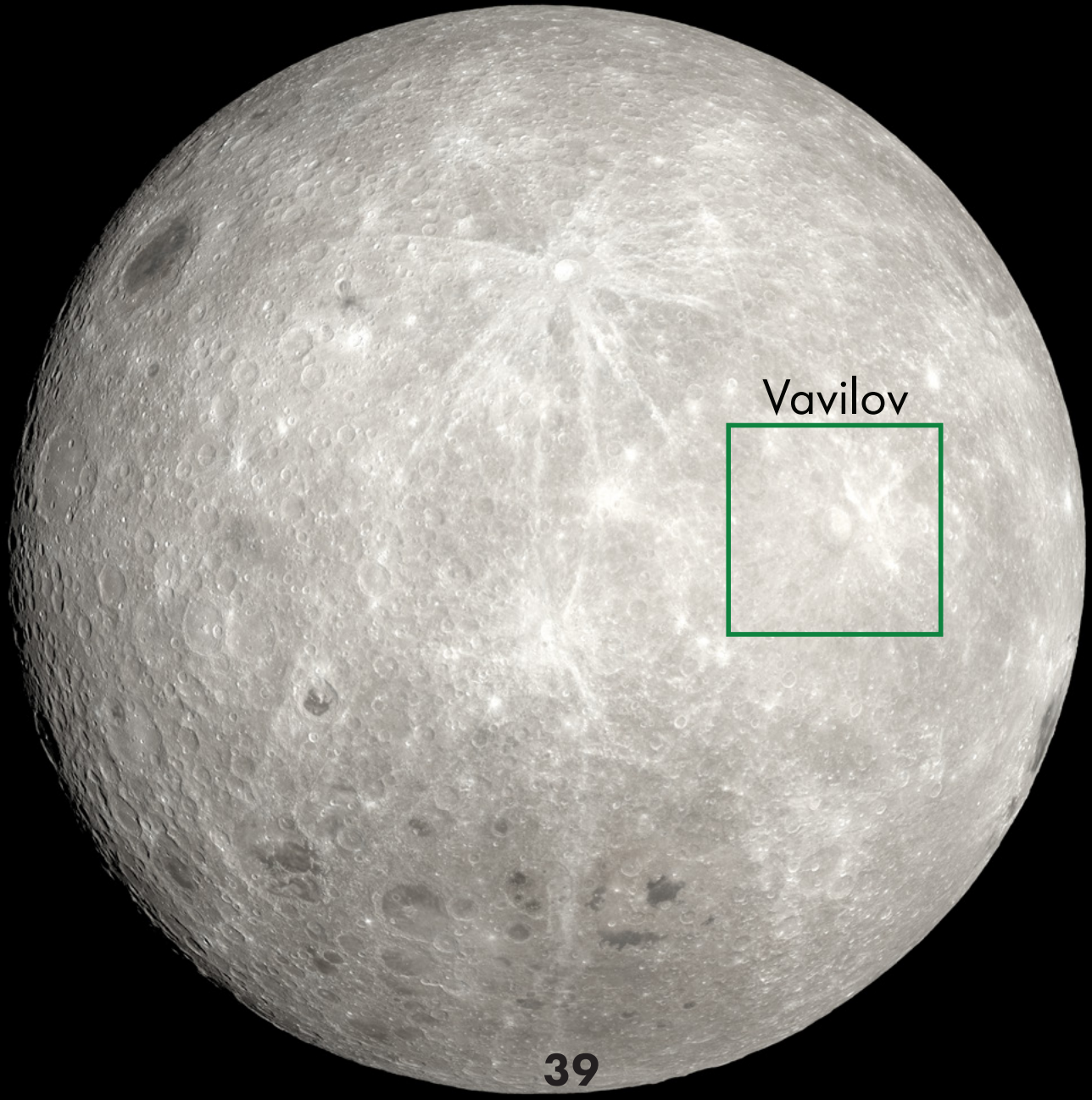

Grigg E


Jackson
Ohm
Grigg E

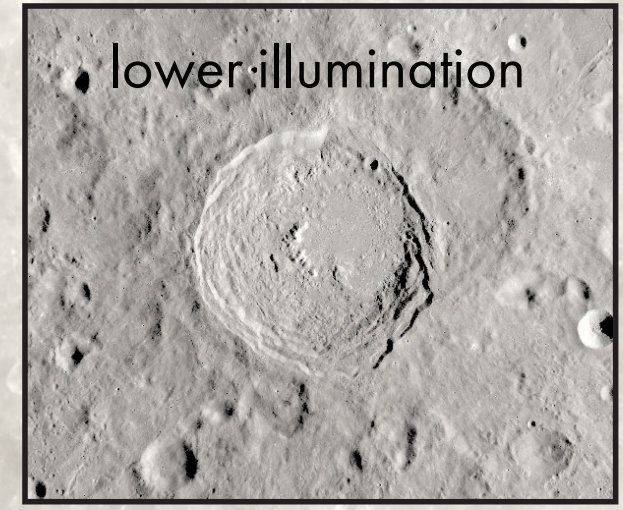

Grigg E

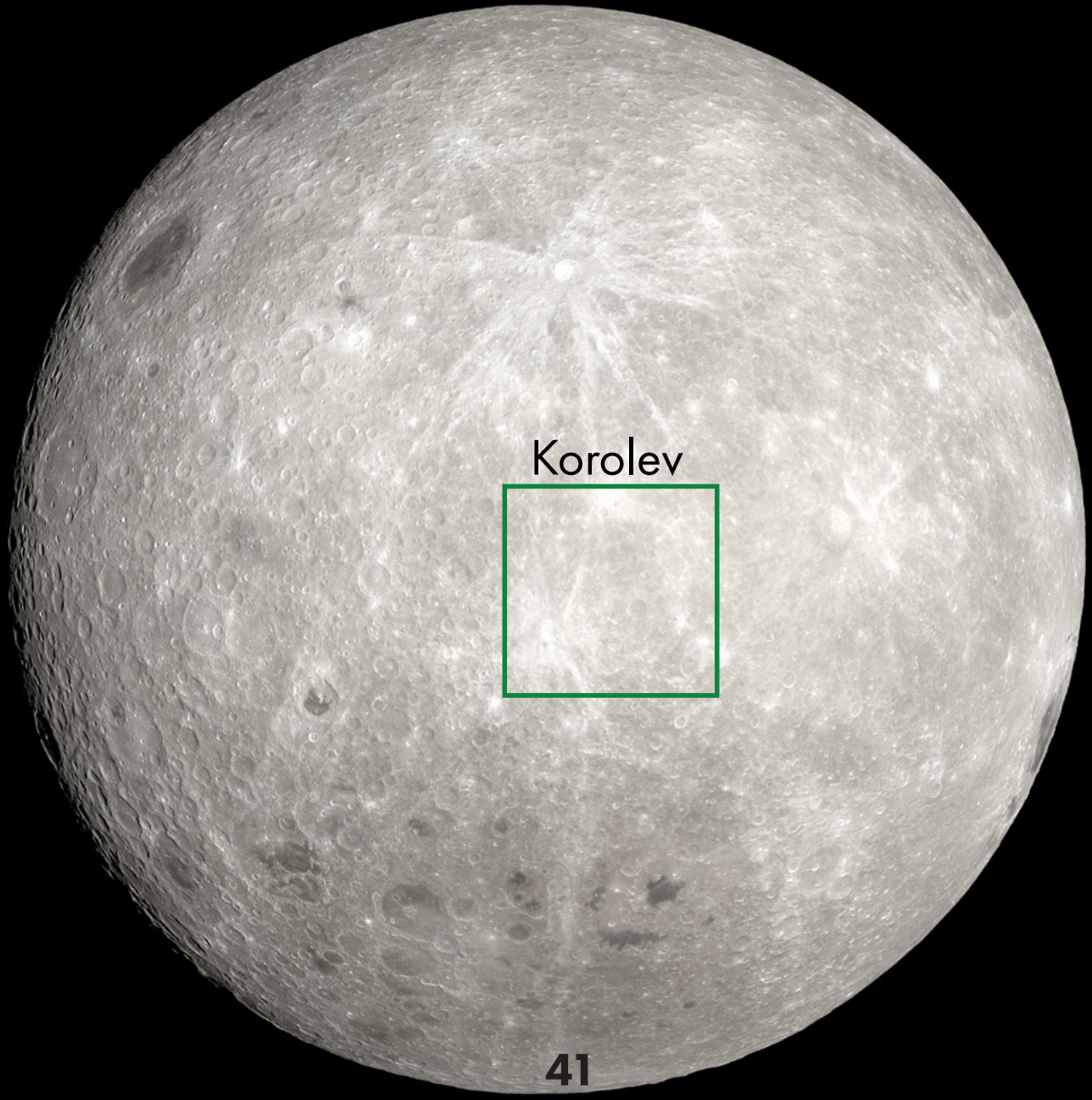

Campbell Crater Volcanic Fill
Chandler Dark Albedo Area
Moscoviense Basin
Larmor Q
Jackson
Buys-Ballot
Lacus Luxuriae Region
Grigg E
Mandel'shtam F
Dewar Crater Dark Region
Vavilov
Necho Crater Albedo Anomaly
Korolev Basin
Racah X Scarp
Crookes
Aitken
South Pole - Aitken Basin
Tsiolkovskiy
Mare Ingenii and Swirls
Oppenheimer Crater
Jules Verne
Leibnitz
Apollo Basin
Ryder
Poincaré Basin Region
Bose and Bhabha Crater Region
South Pole Region and Schrödinger Basin

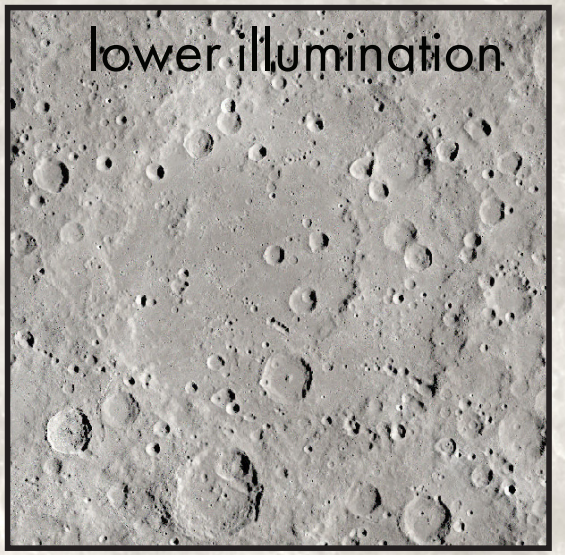
FARSIDE


Vavilov

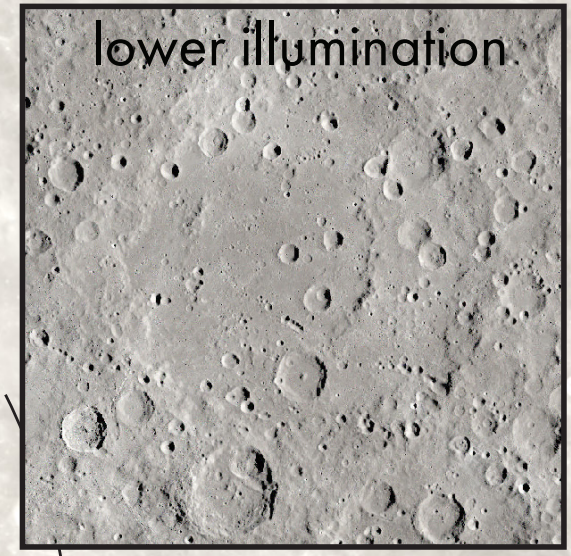
Vavilov



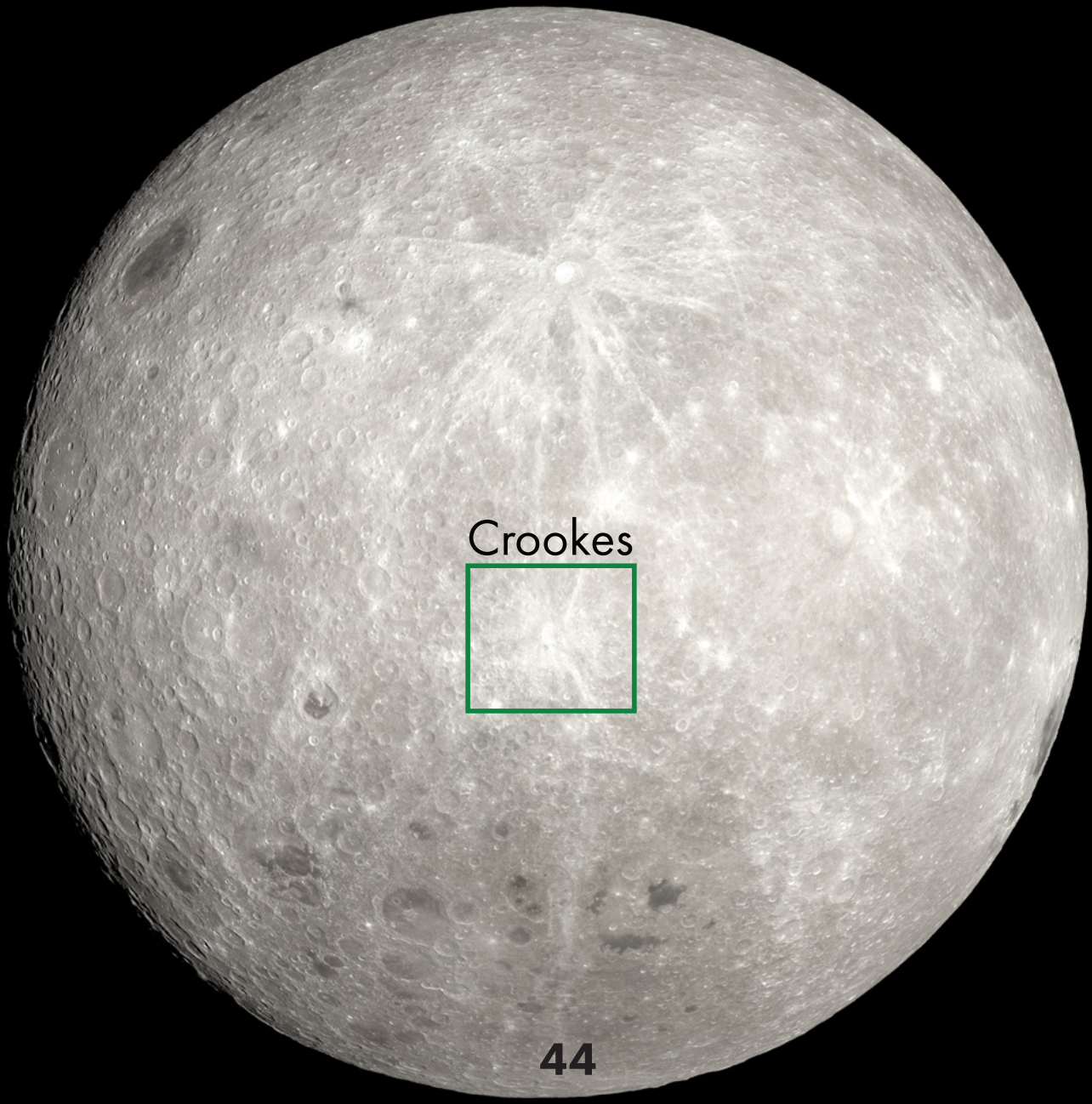

Korolev



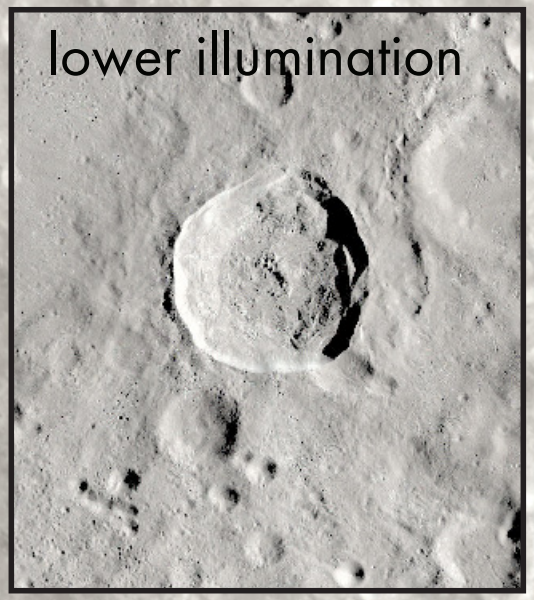
Korolev

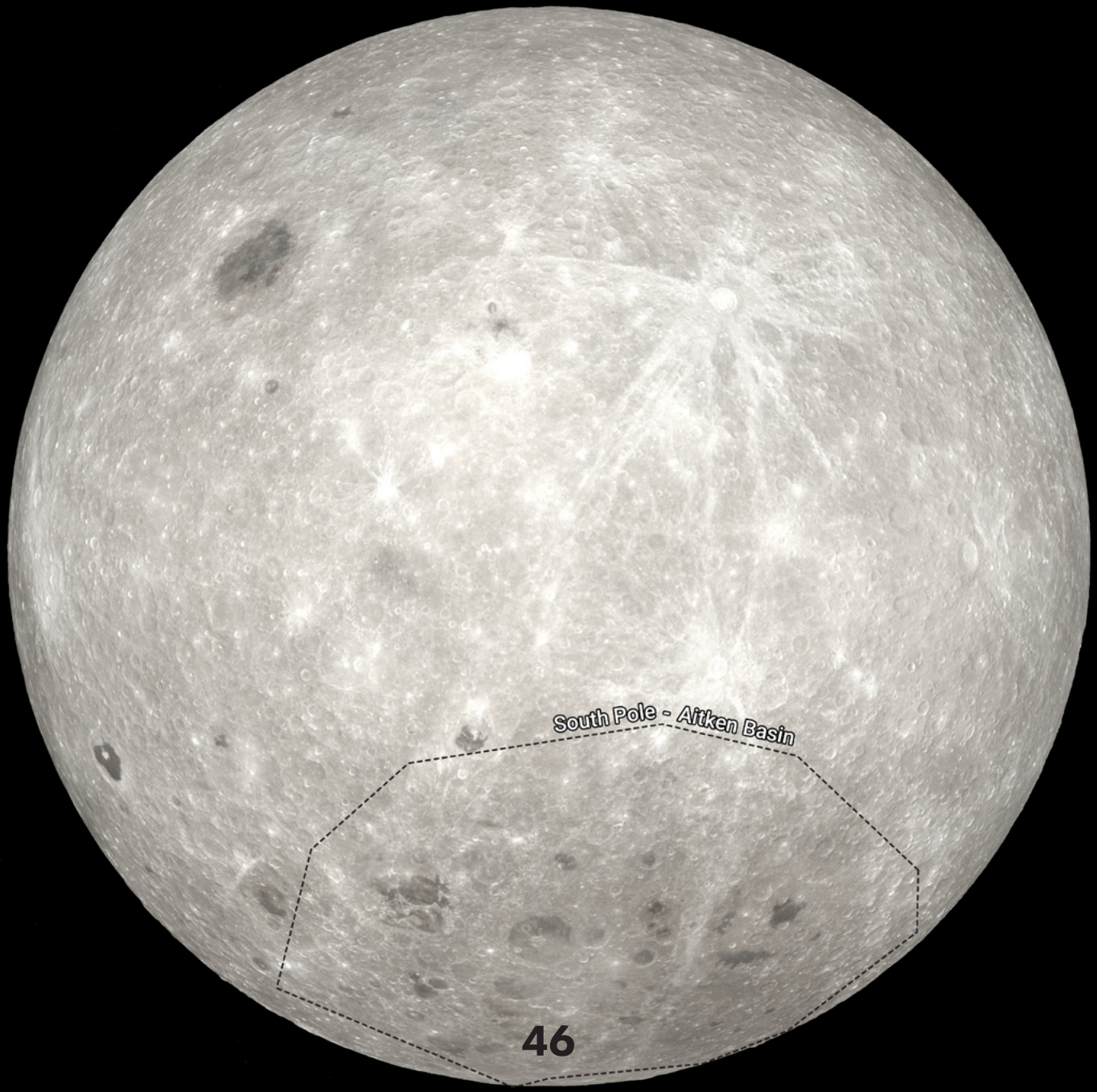


Korolev

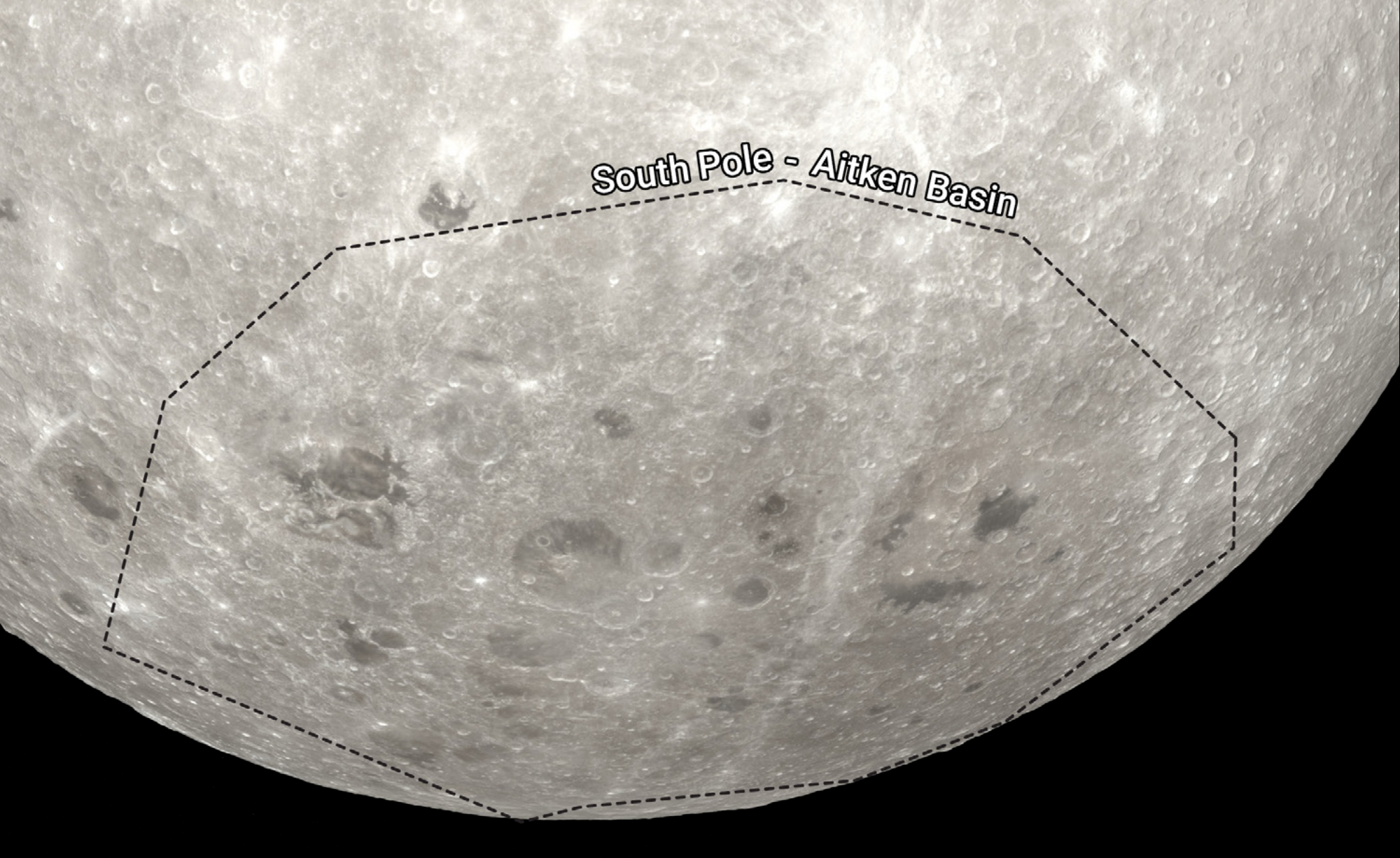

Crookes

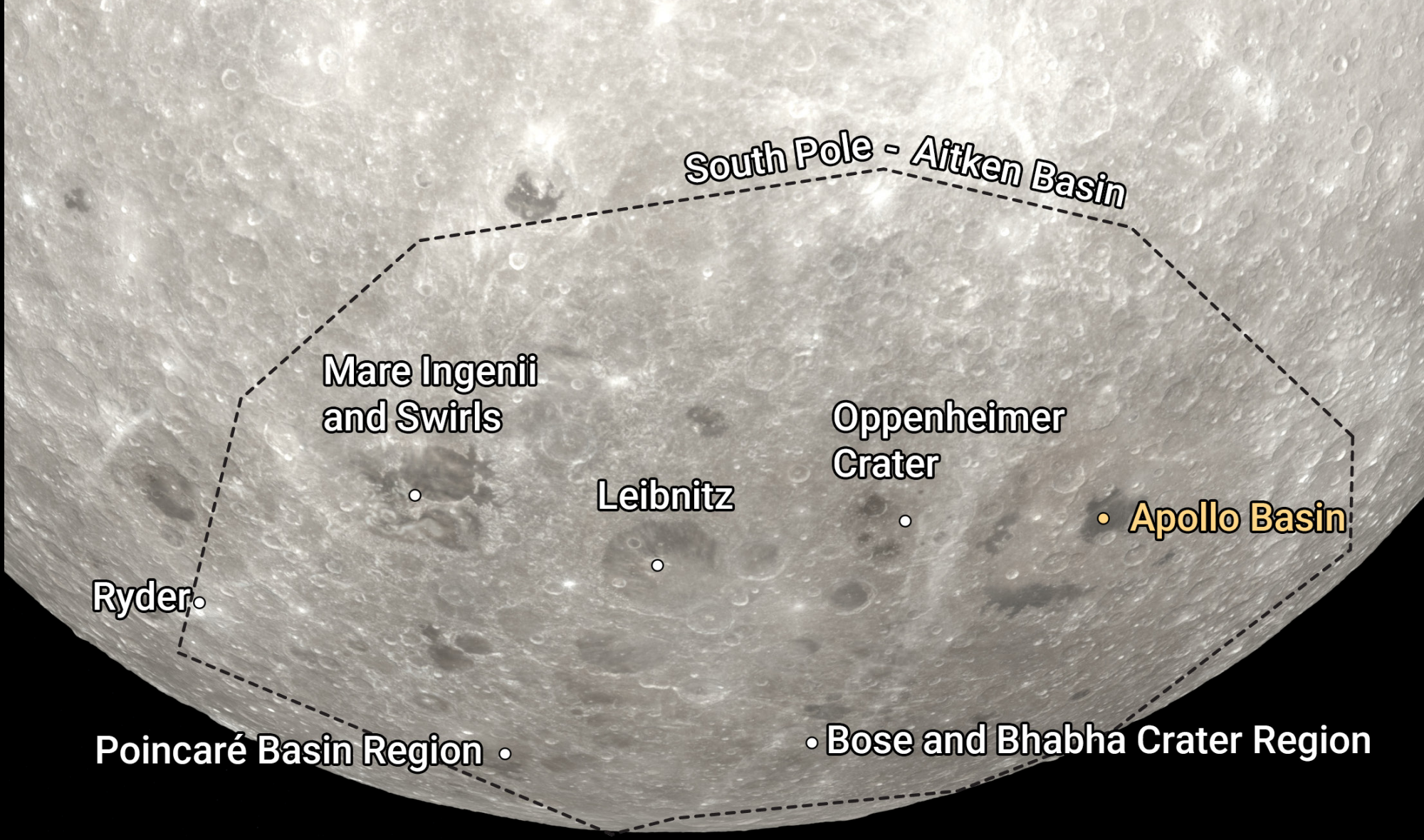
Crookes

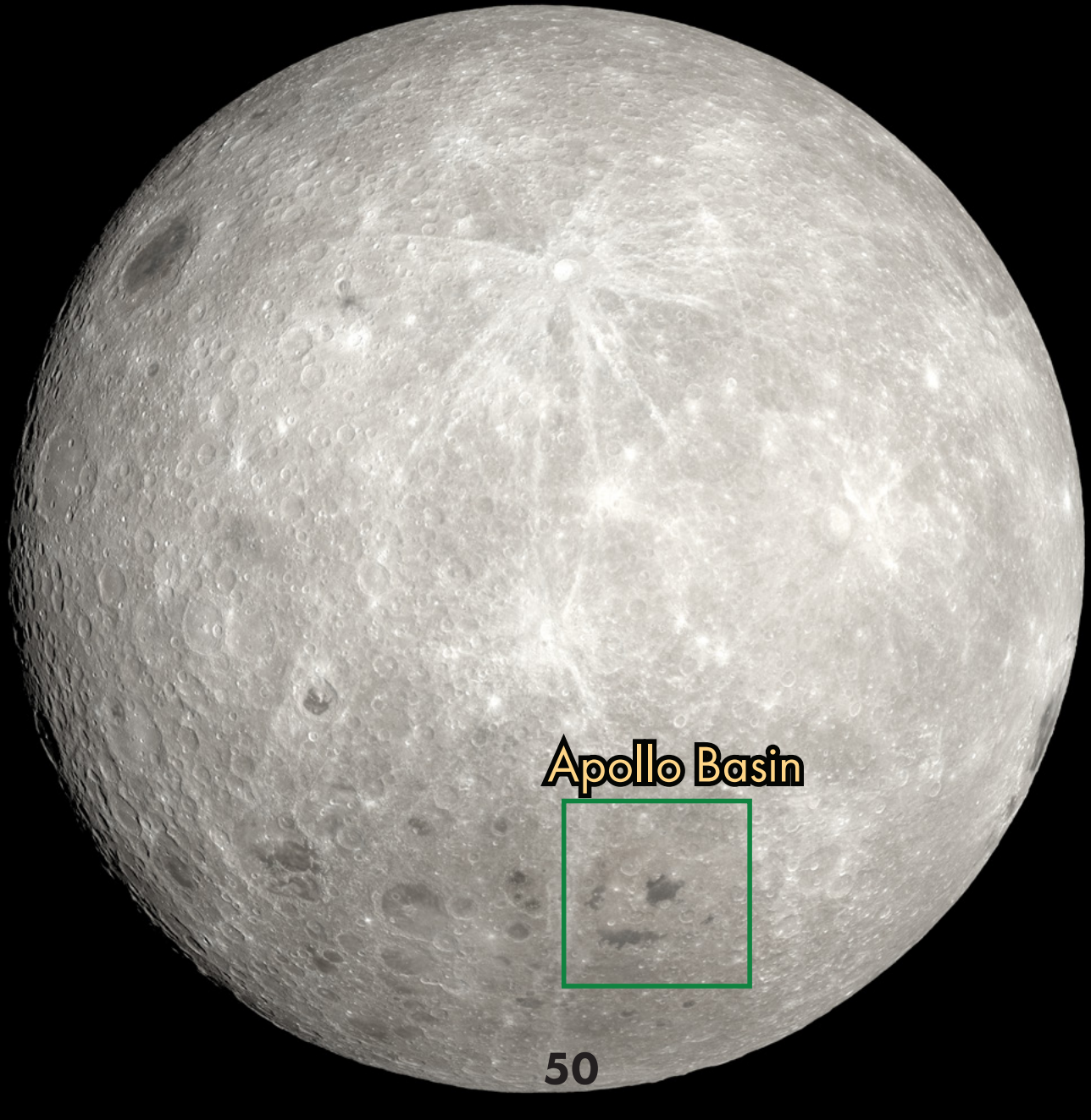



South Pole - Aitken Basin


South Pole-Aitken Basin

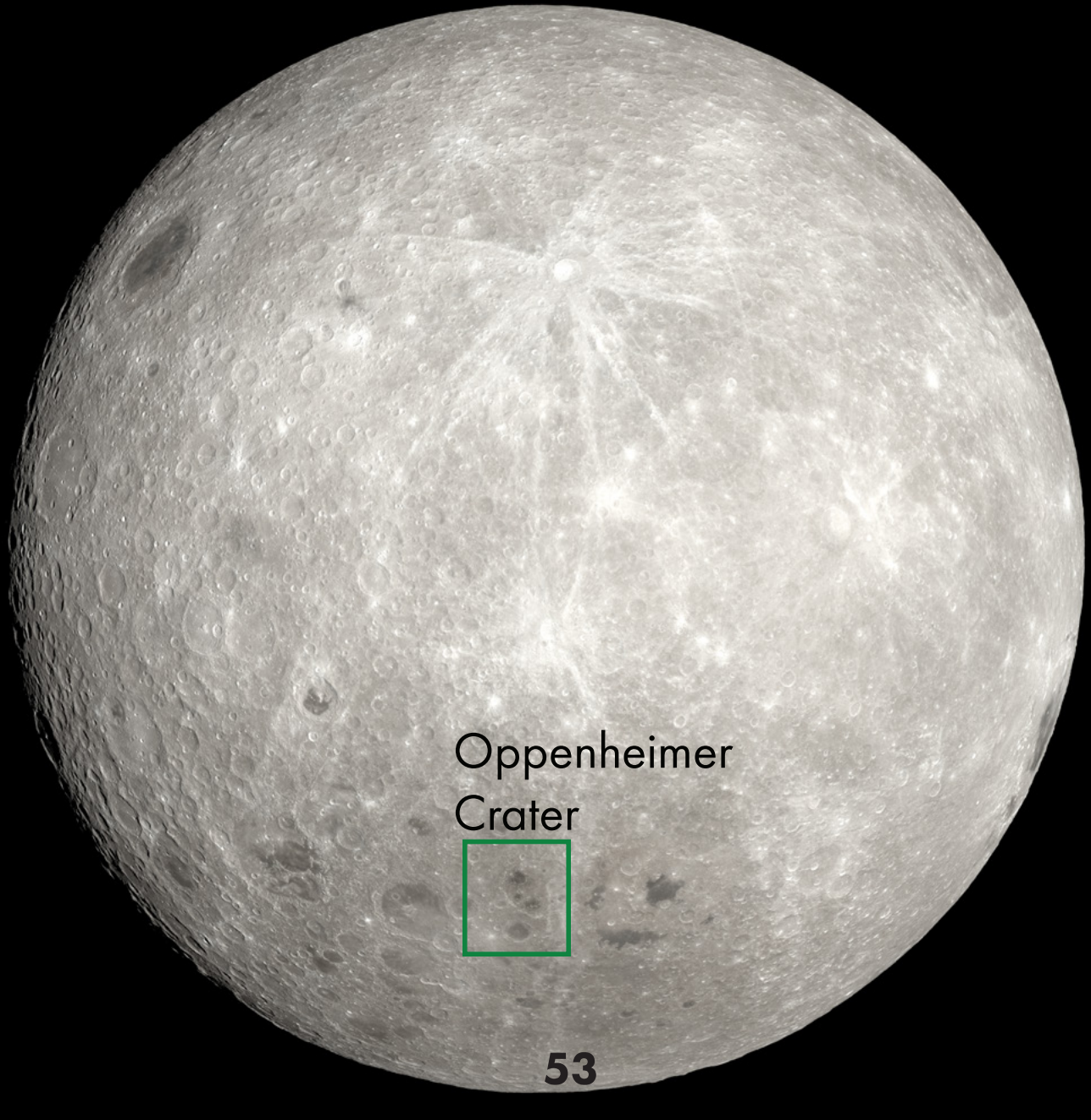

South Pole - Aitken Basin


South Pole - Aitken Basin
Mare Ingenii and Swirls
Leibnitz
Oppenheimer Crater
Apollo Basin
Ryder
Poincaré Basin Region
Bose and Bhabha Crater Region

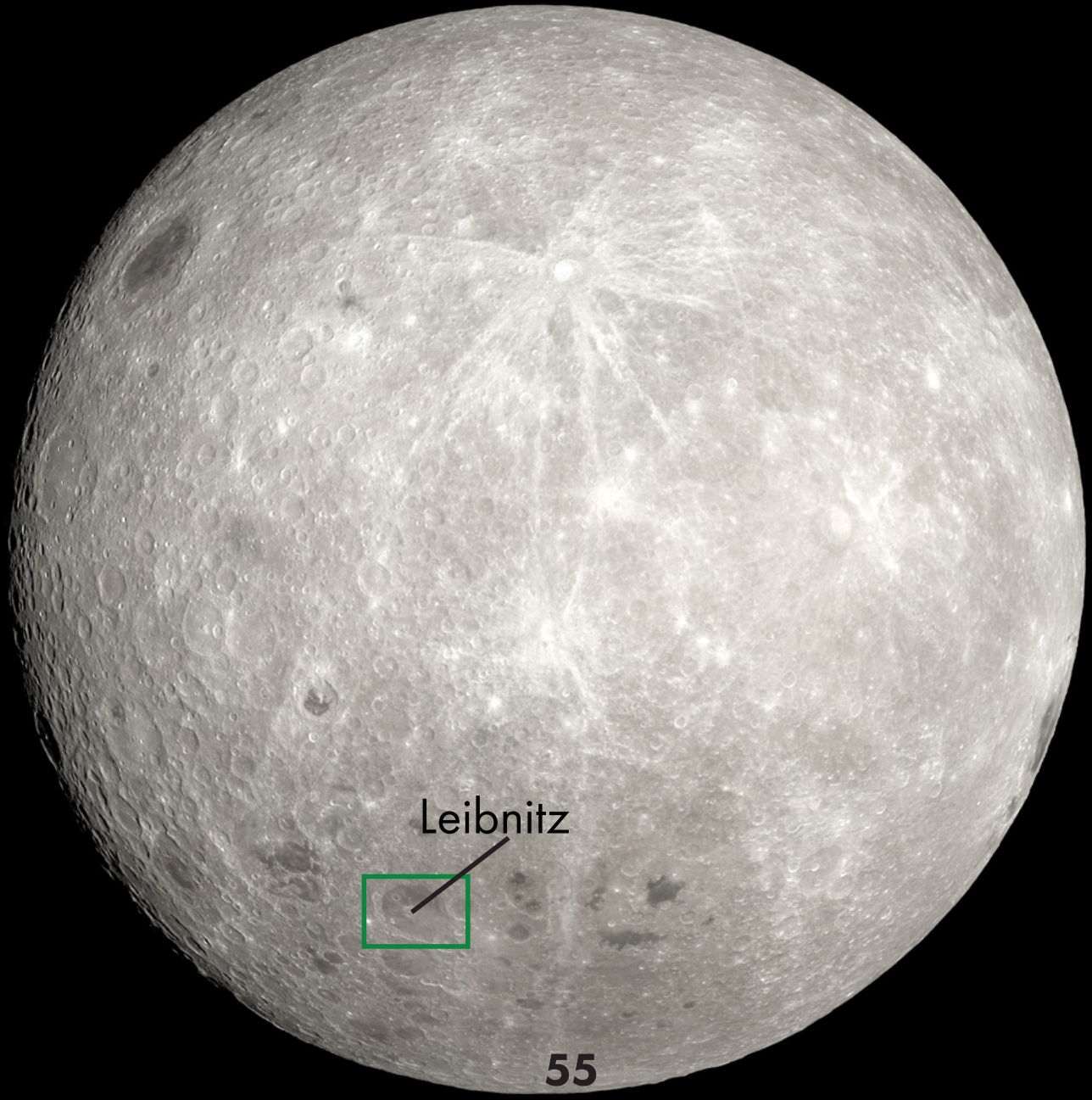

Apollo Basin

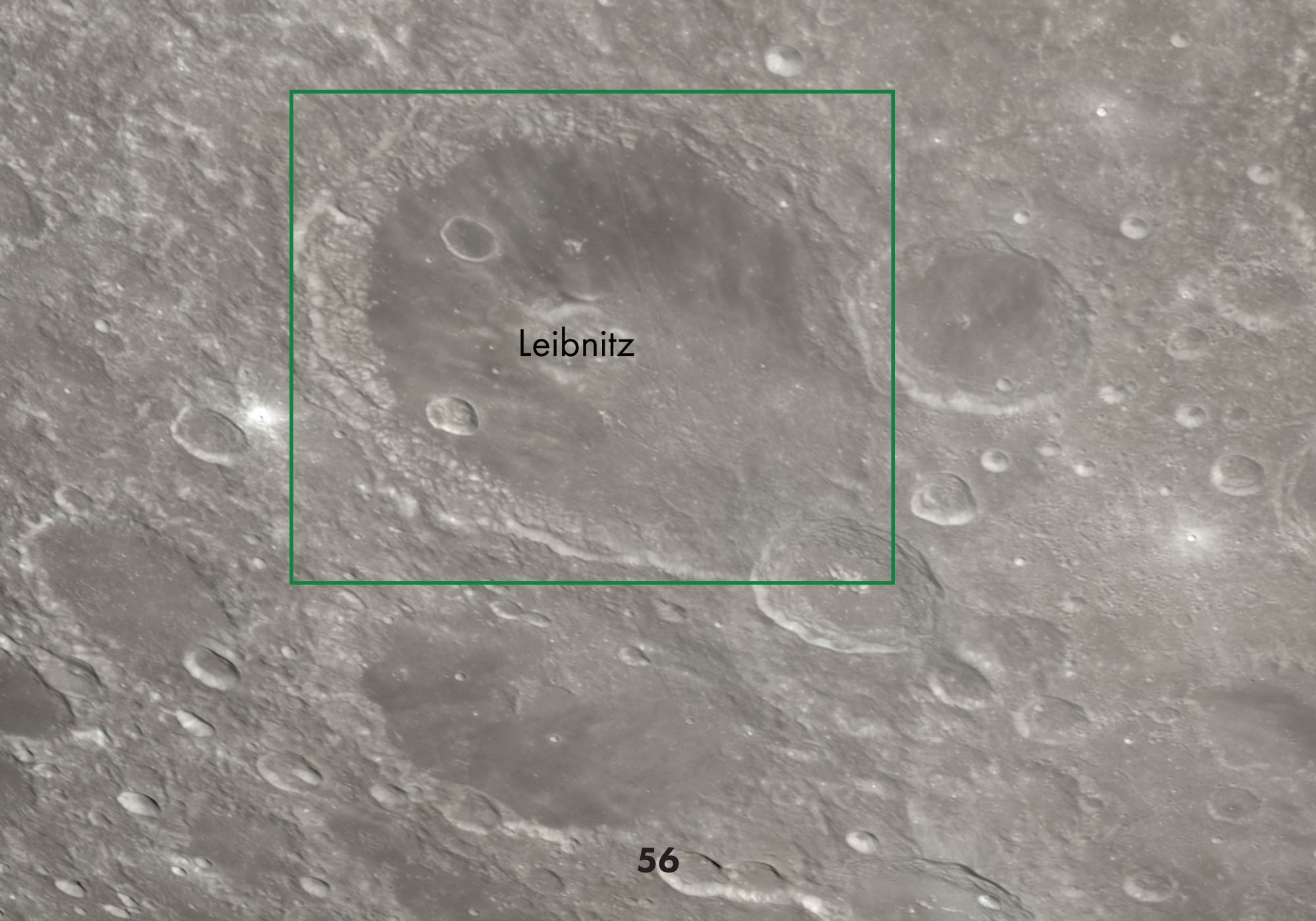

Apollo Basin

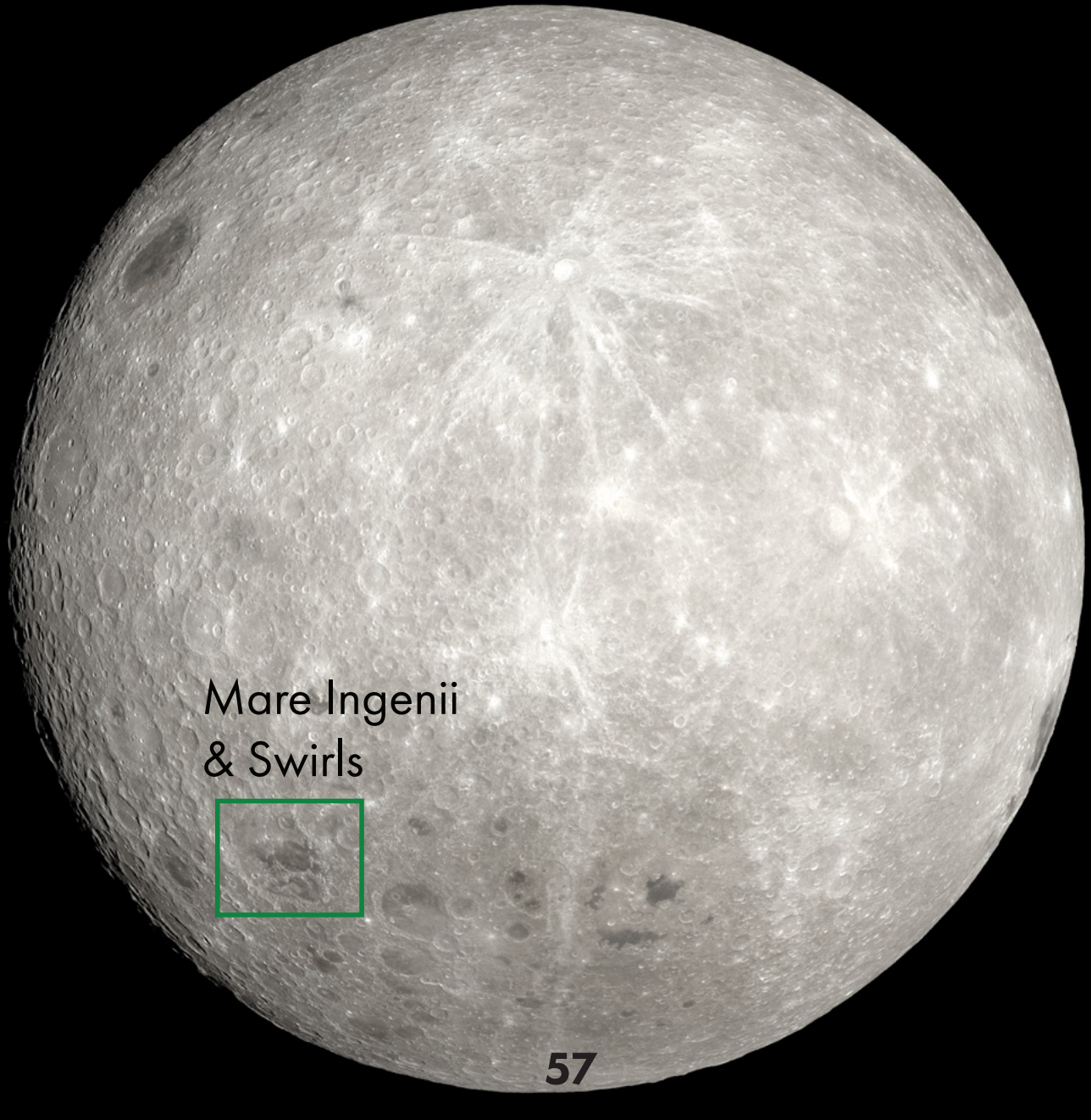
Apollo Basin

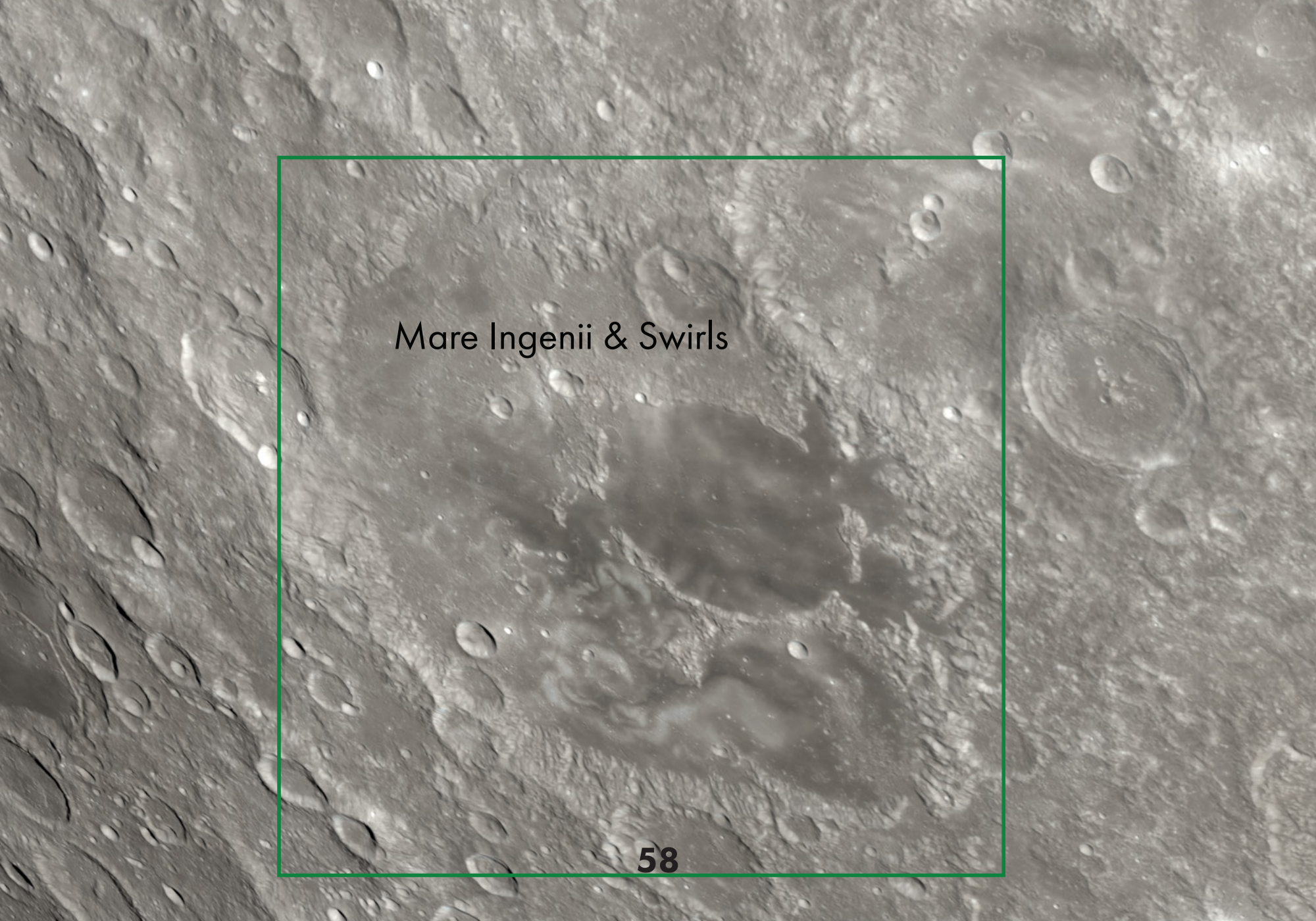

Oppenheimer
Crater

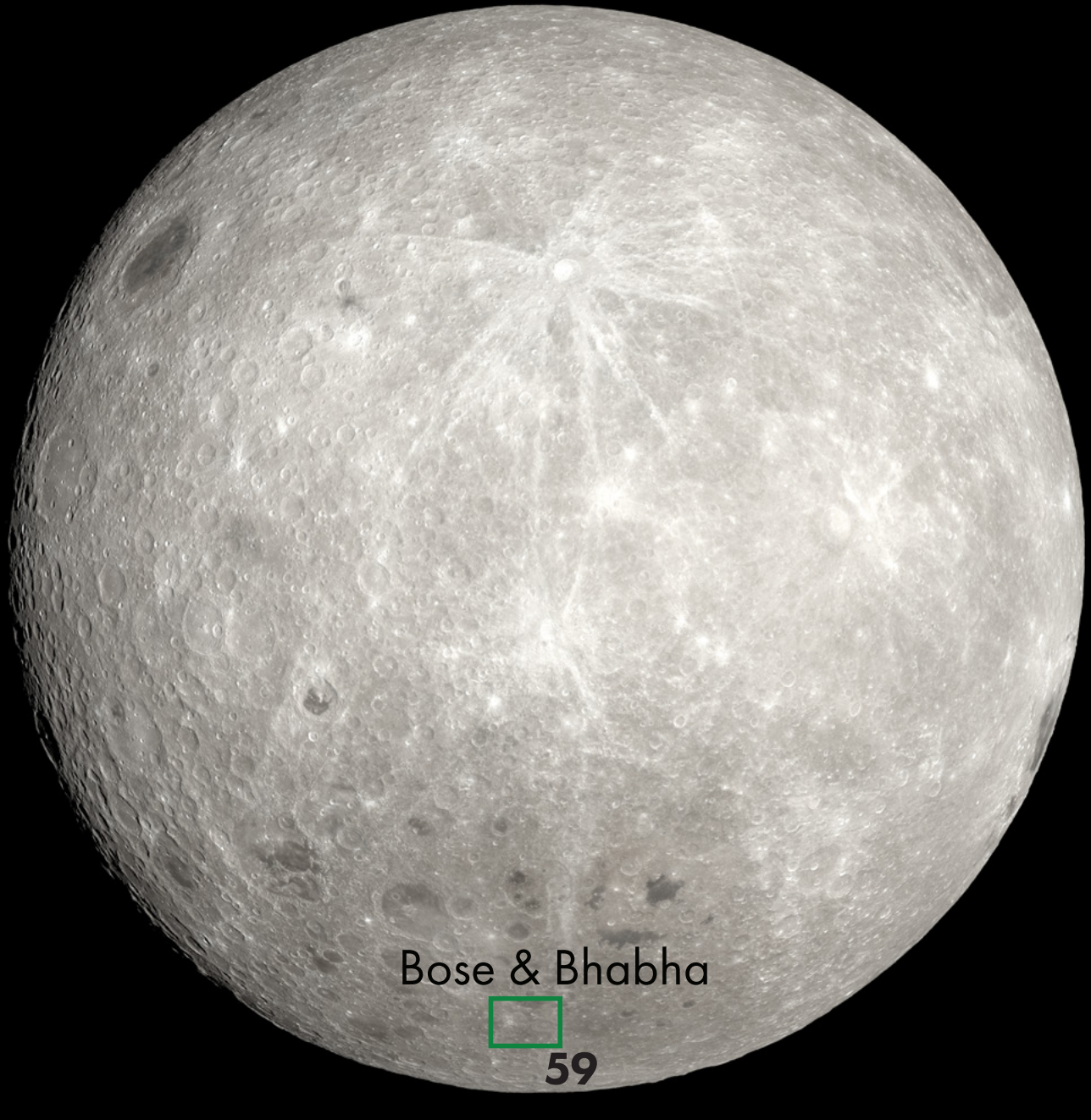

Oppenheimer Crater

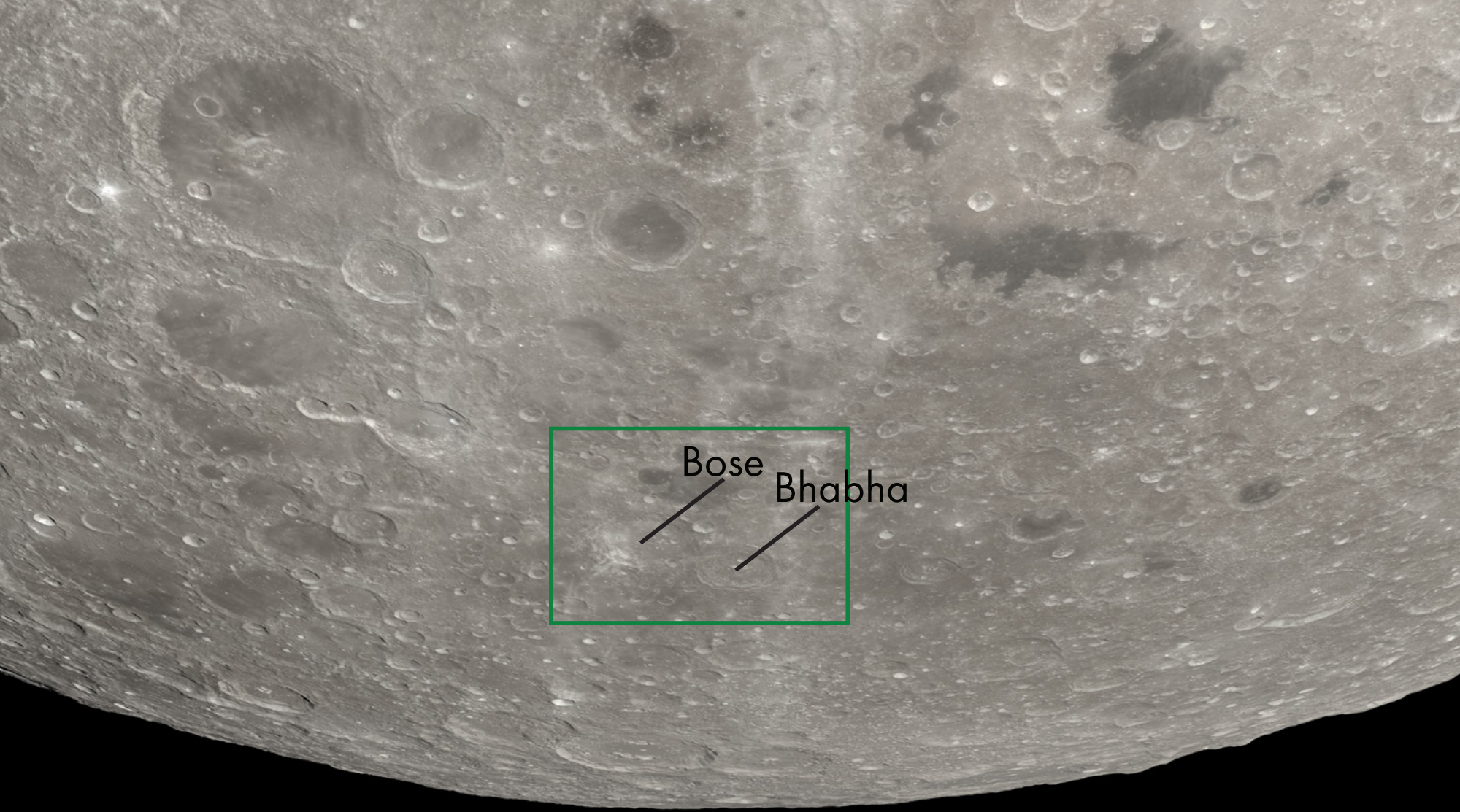

Leibnitz

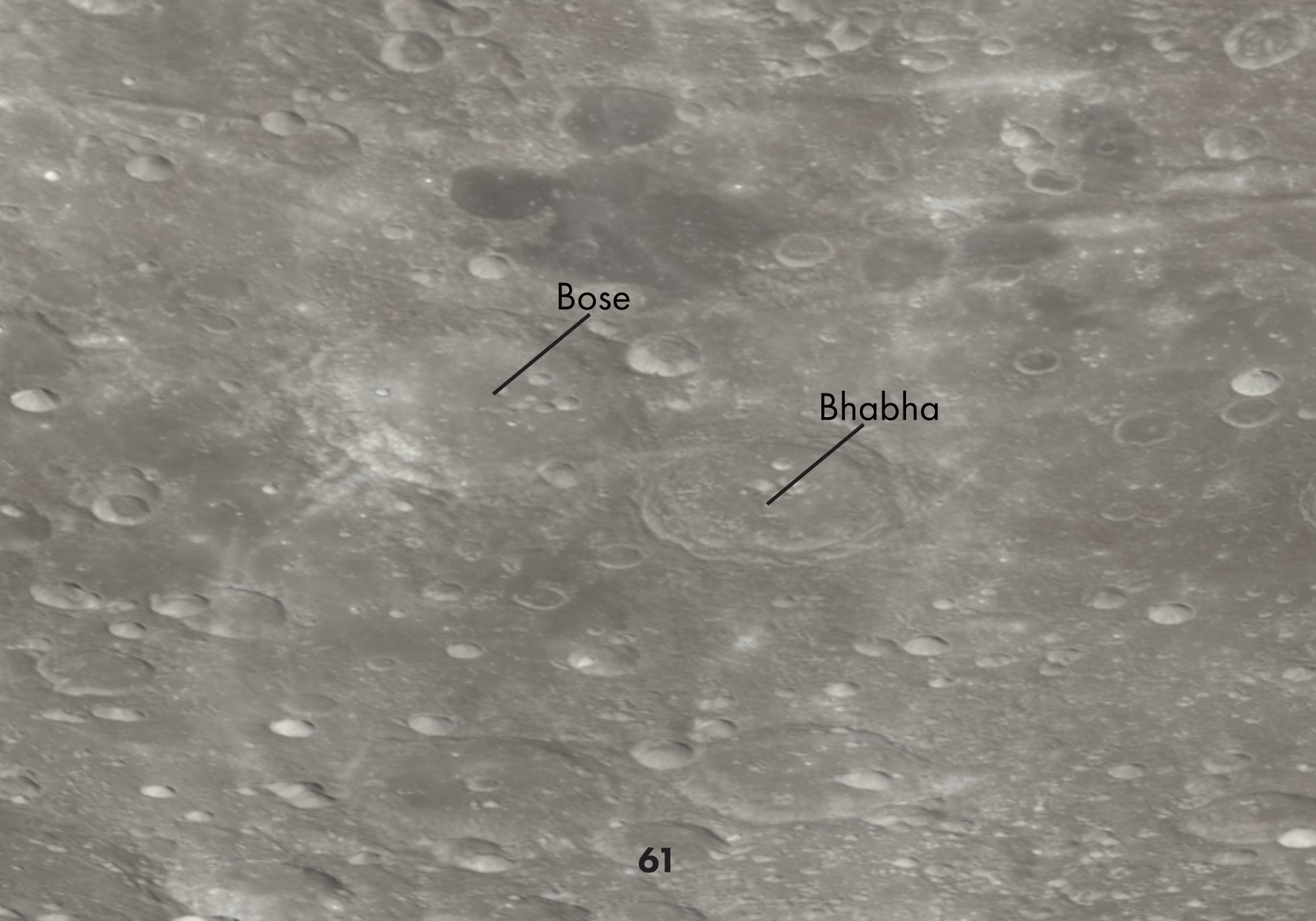

Leibnitz

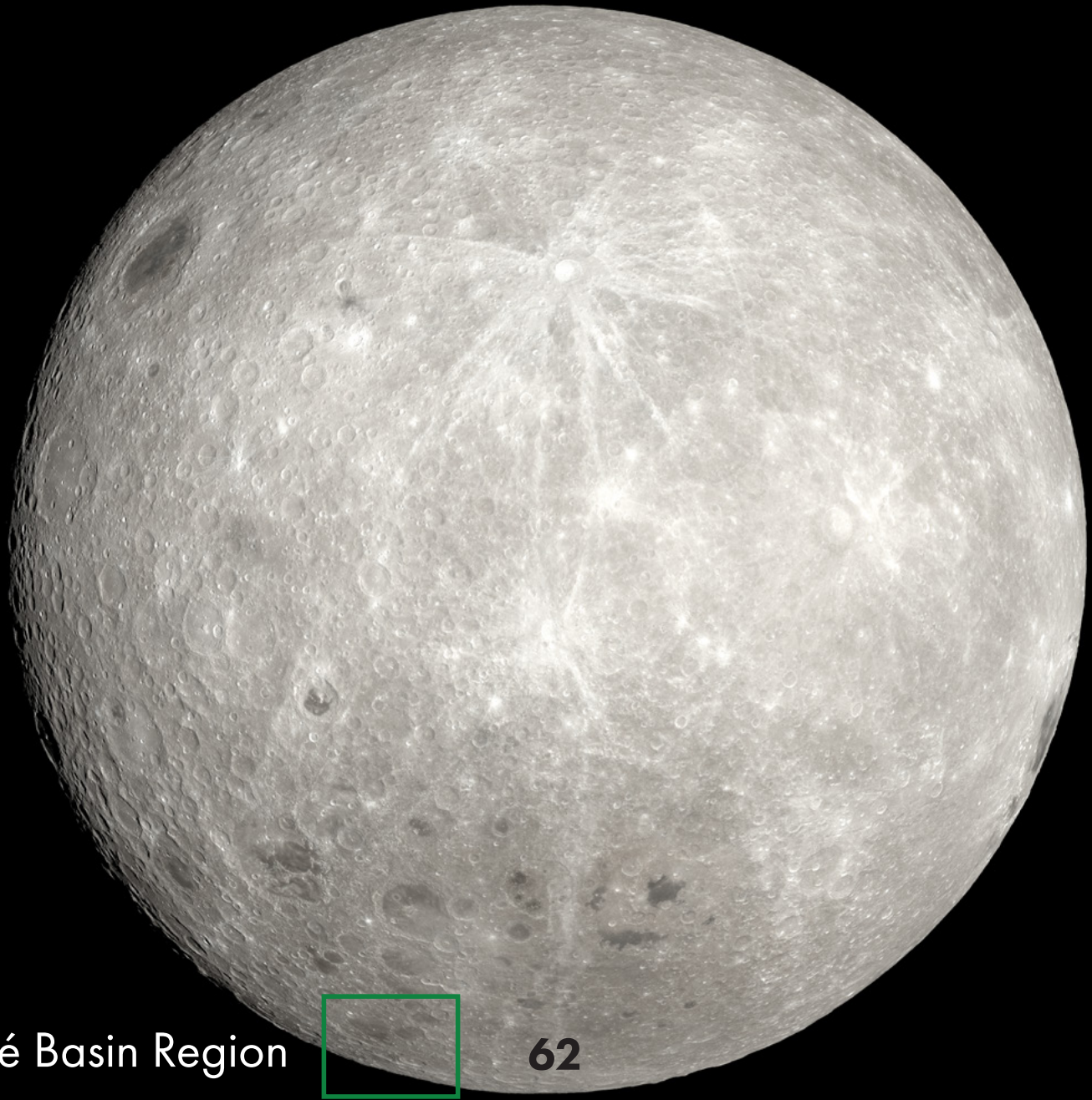

Mare Ingenii
& Swirls


Mare Ingenii & Swirls

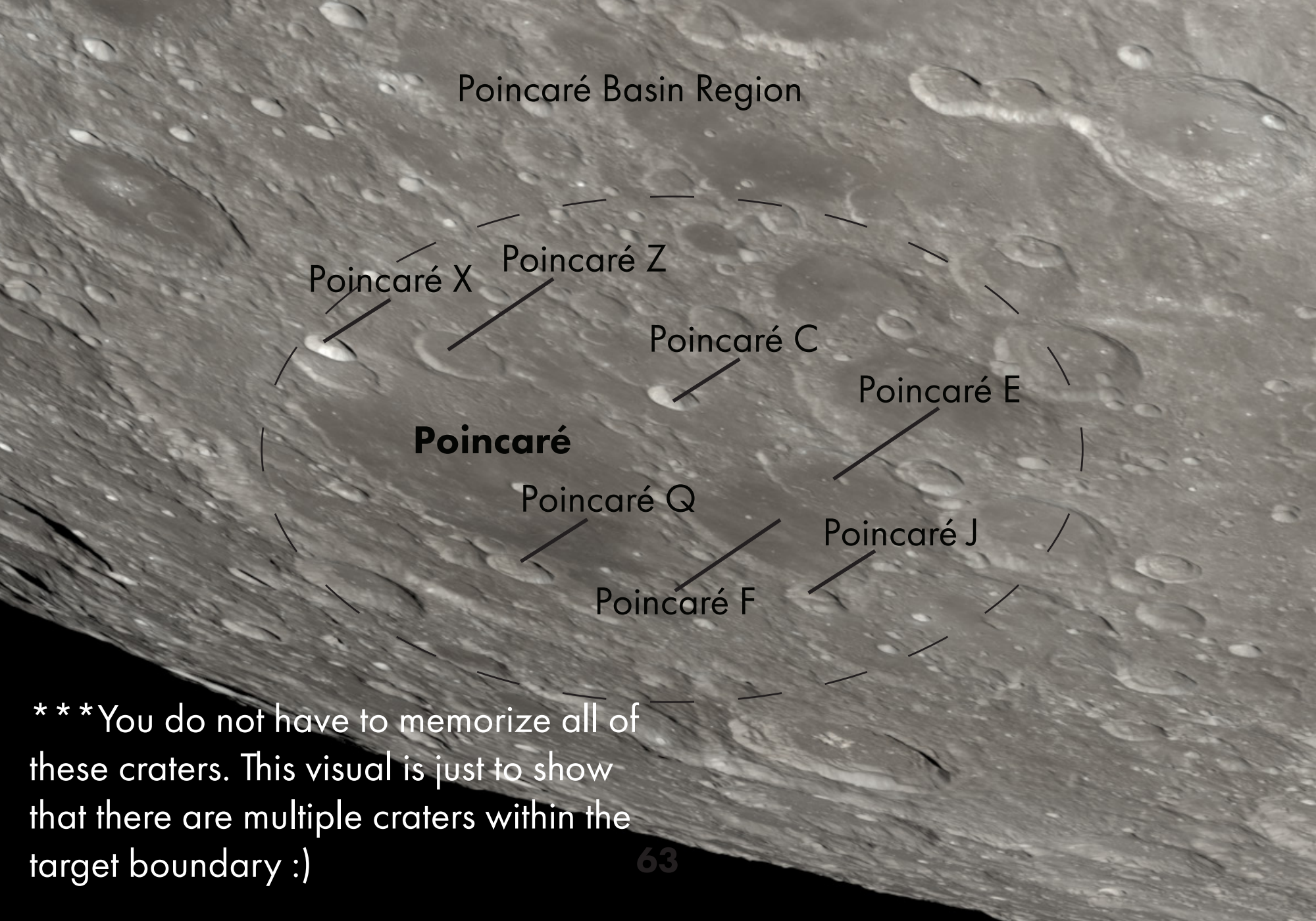

Bose & Bhabha
59


Bose
Bhabha

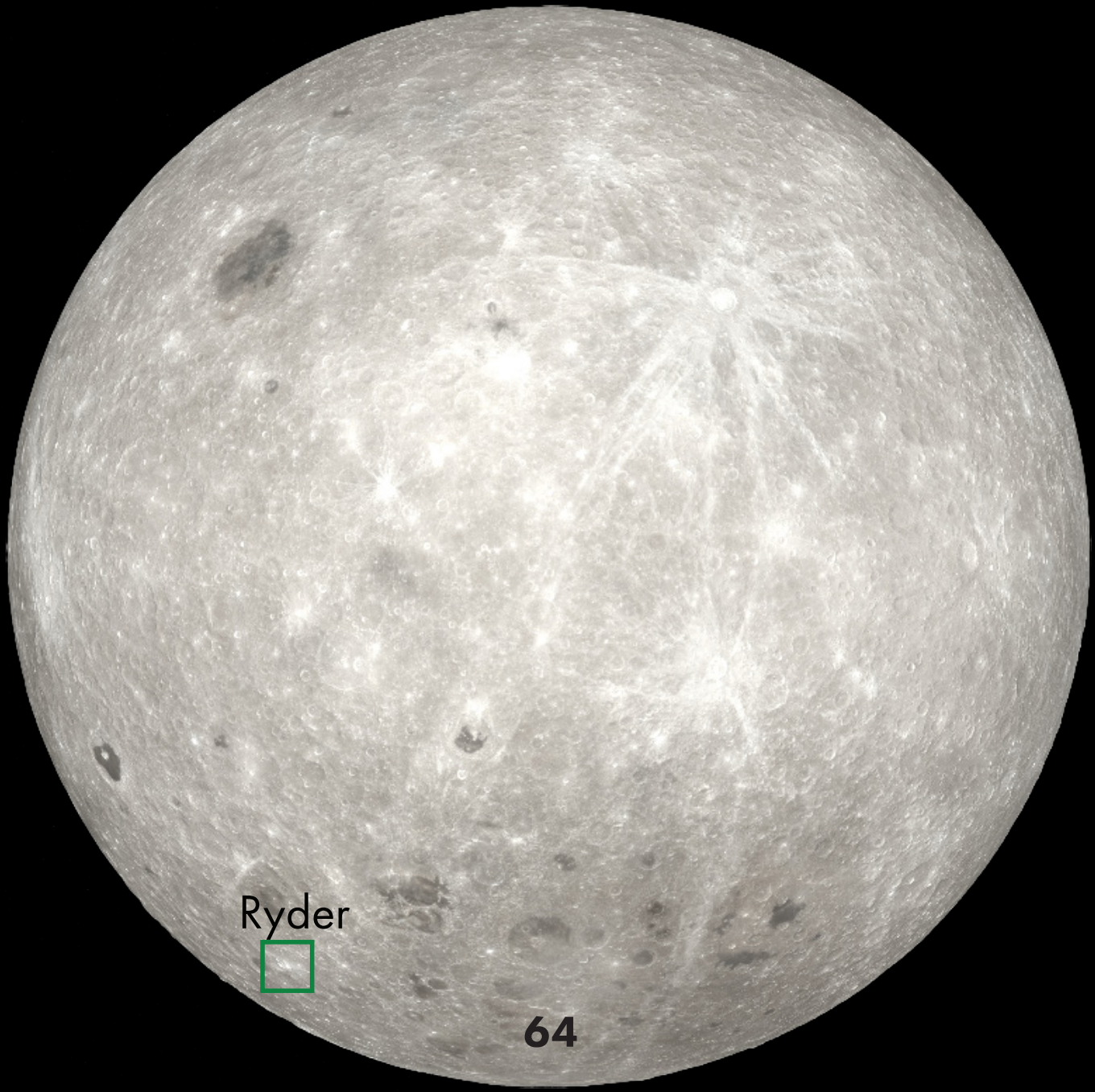

Bose
Bhabha

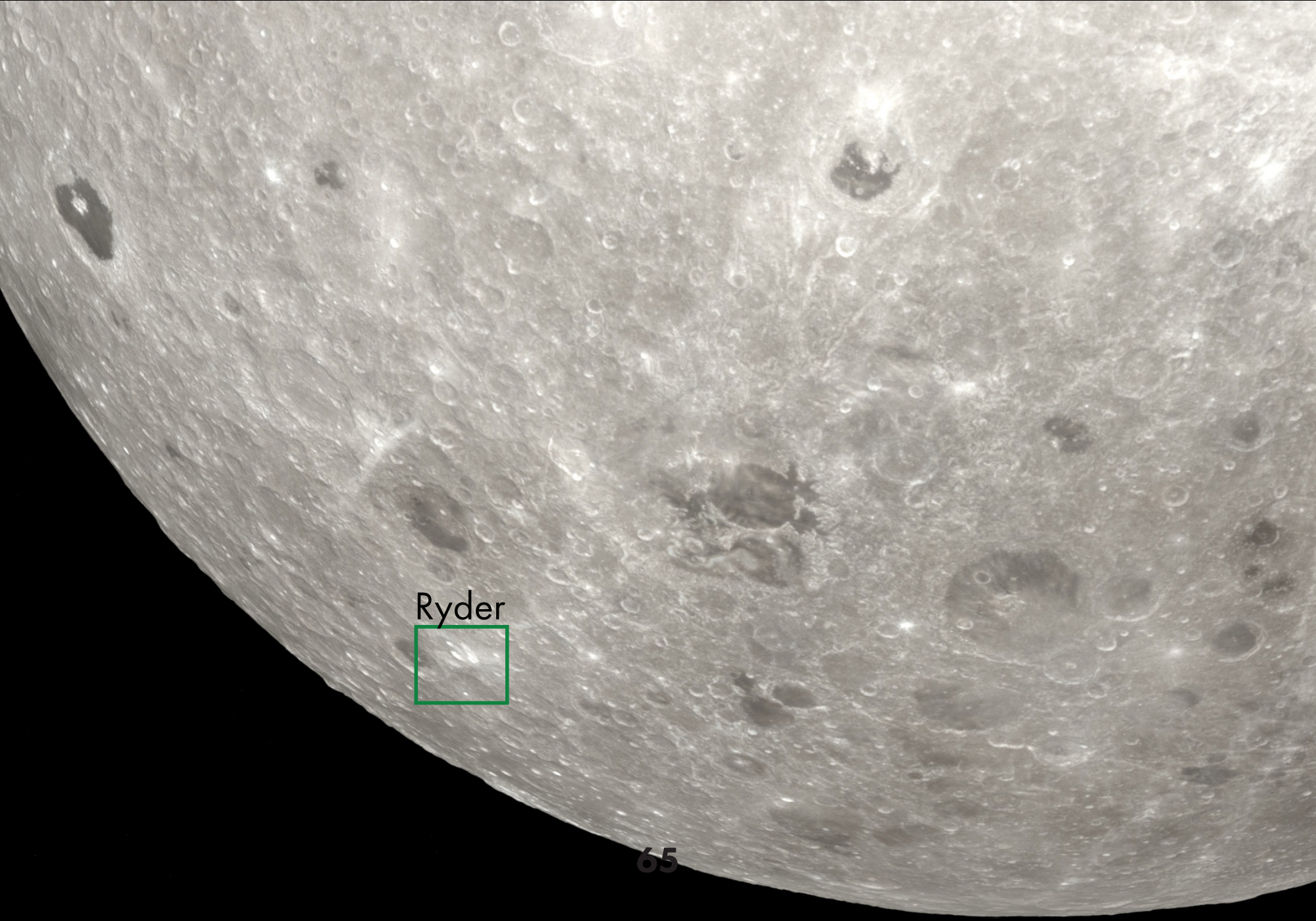


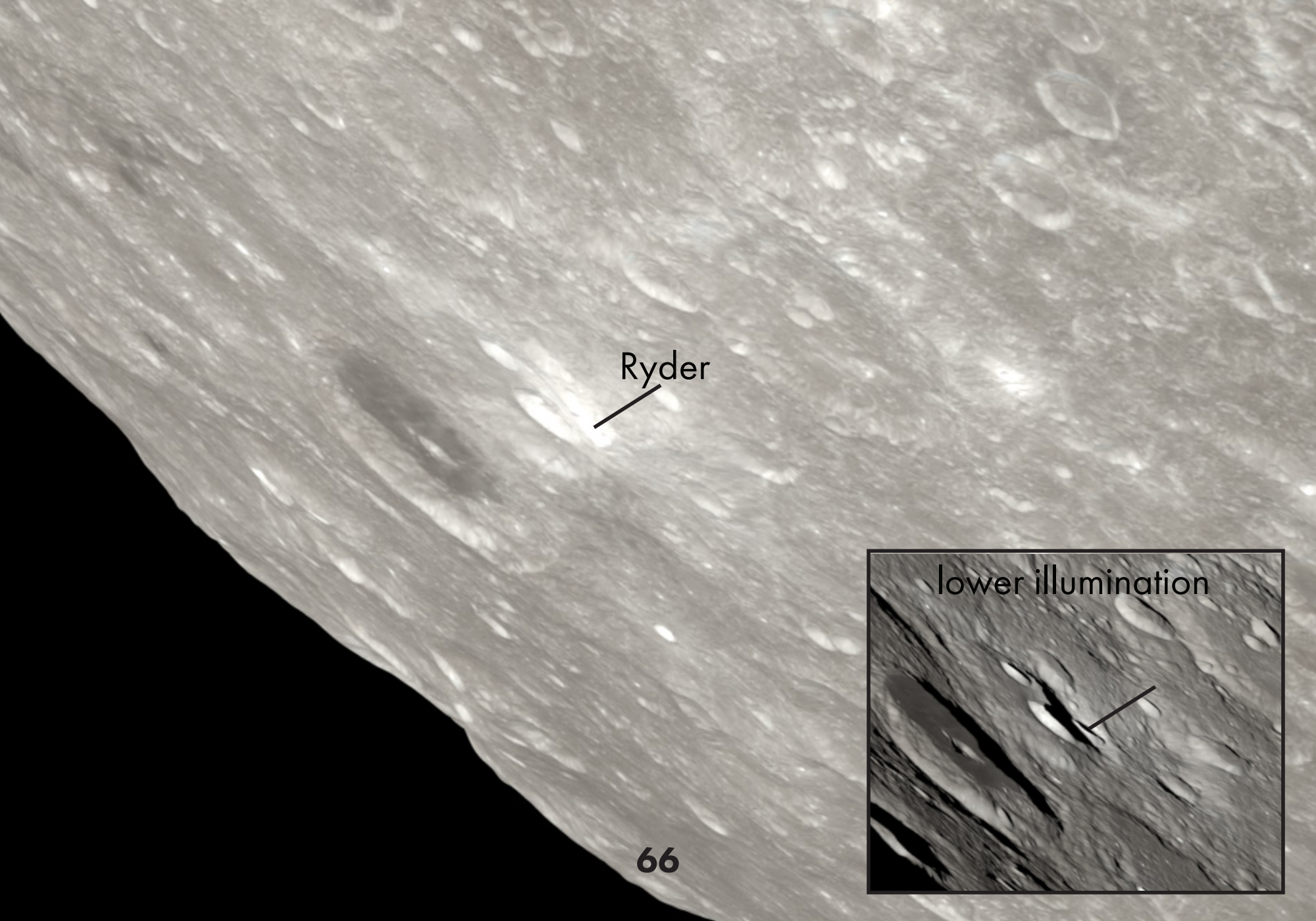
Poincaré Basin Region

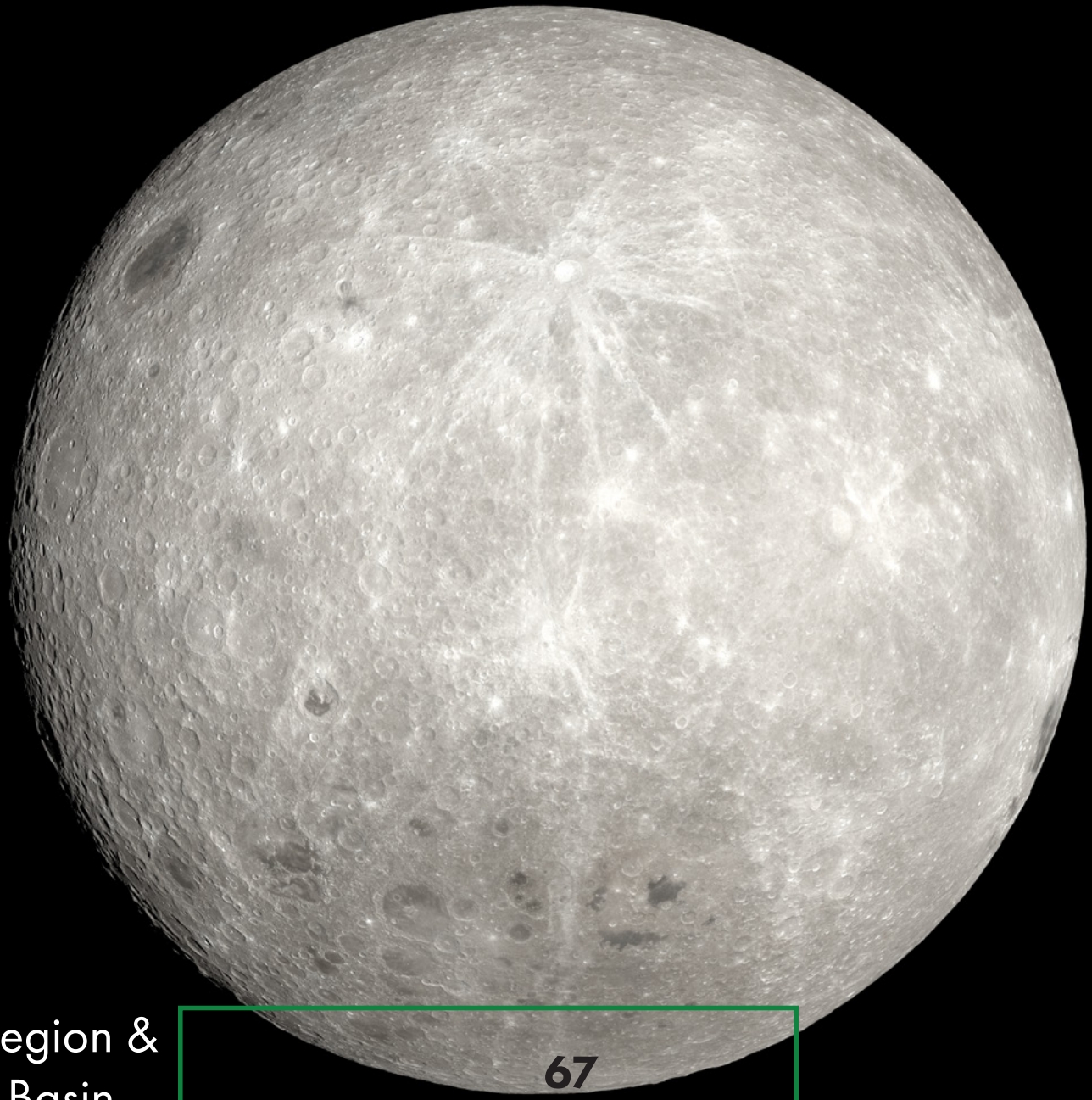


***You do not have to memorize all of these craters. This visual is just to show that there are multiple craters within the target boundary :)


Ryder

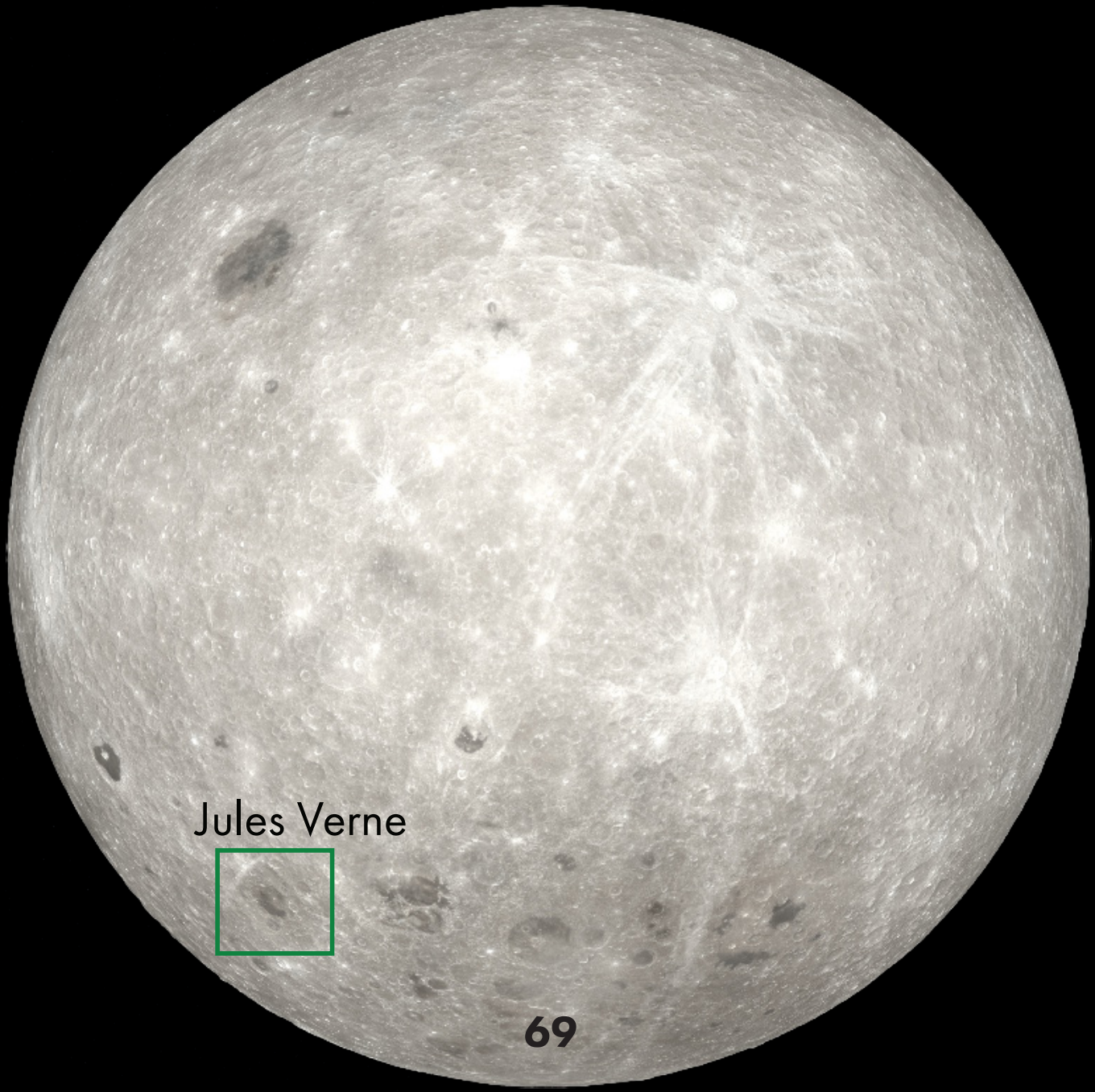

Ryder

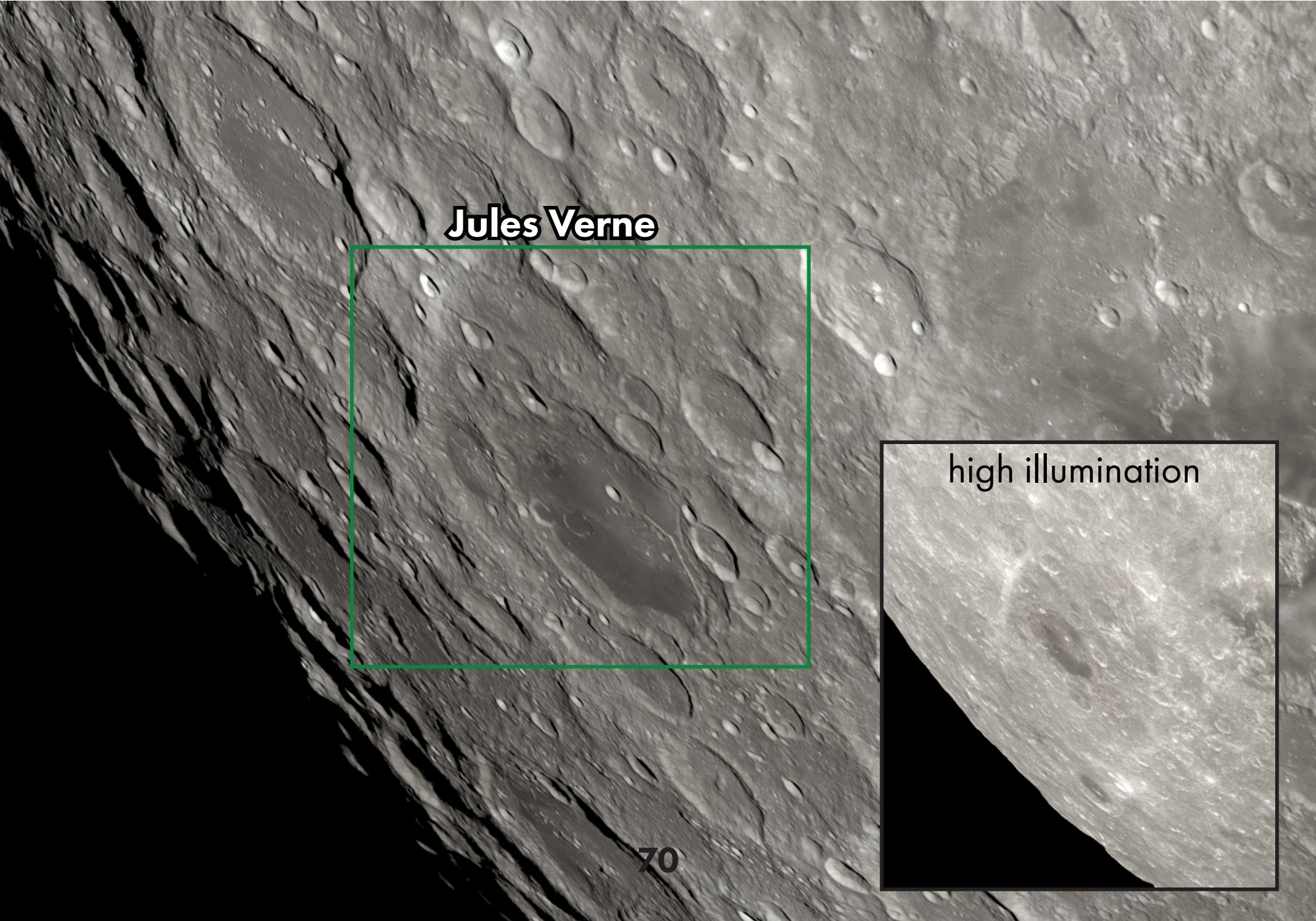

Ryder
lower illumination

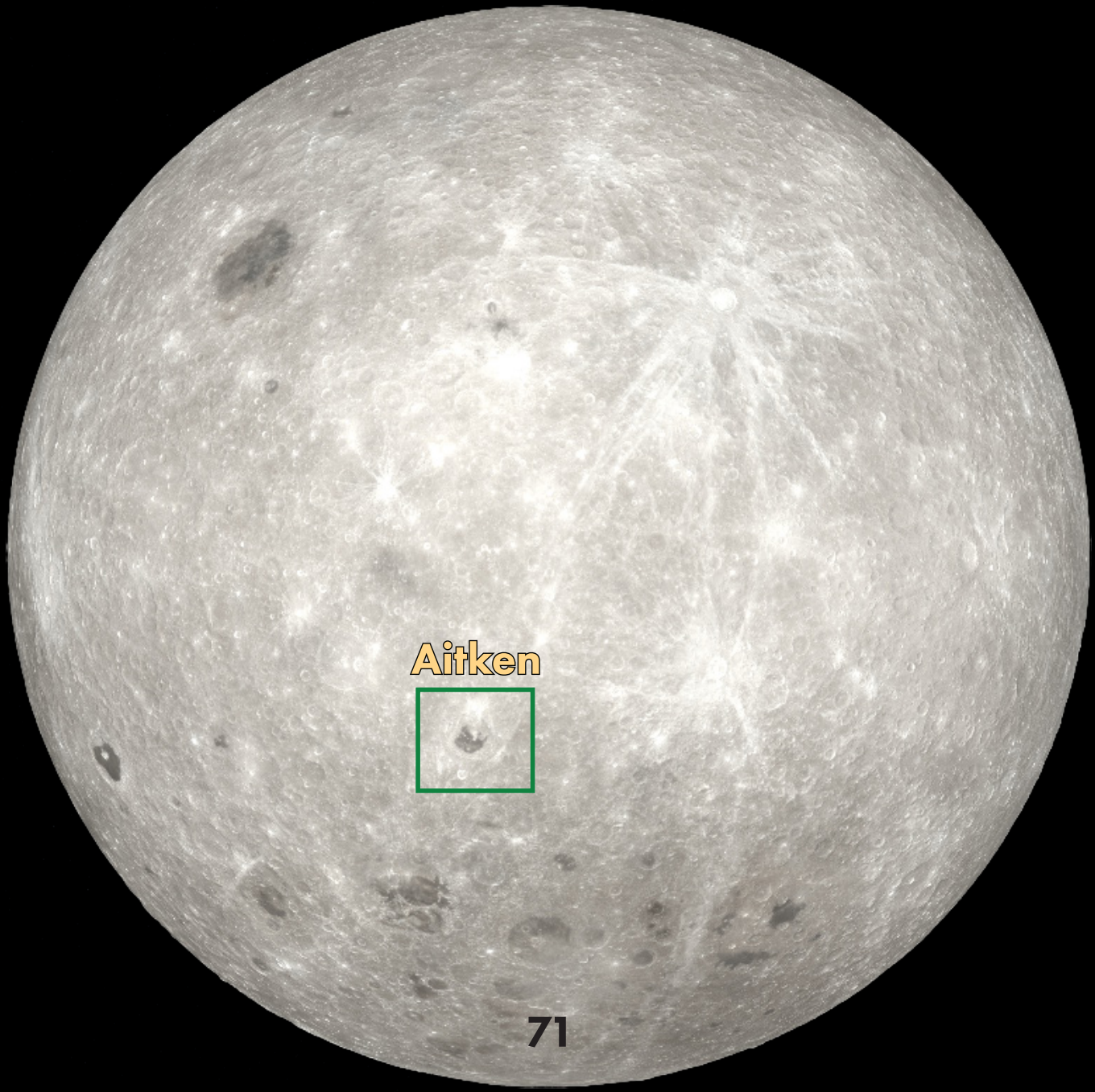


South Pole Region &
Schrödinger Basin

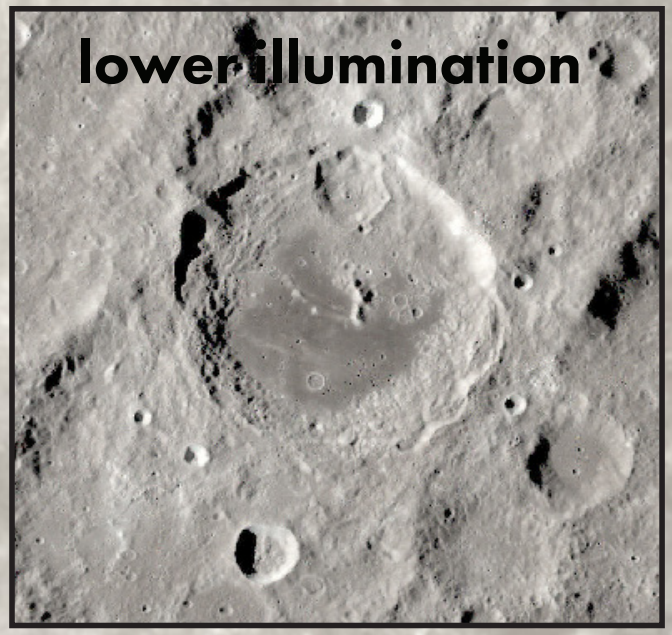

Tsiolkovskiy
Aitken
Apollo
Basin
Schrödinger Basin horizon

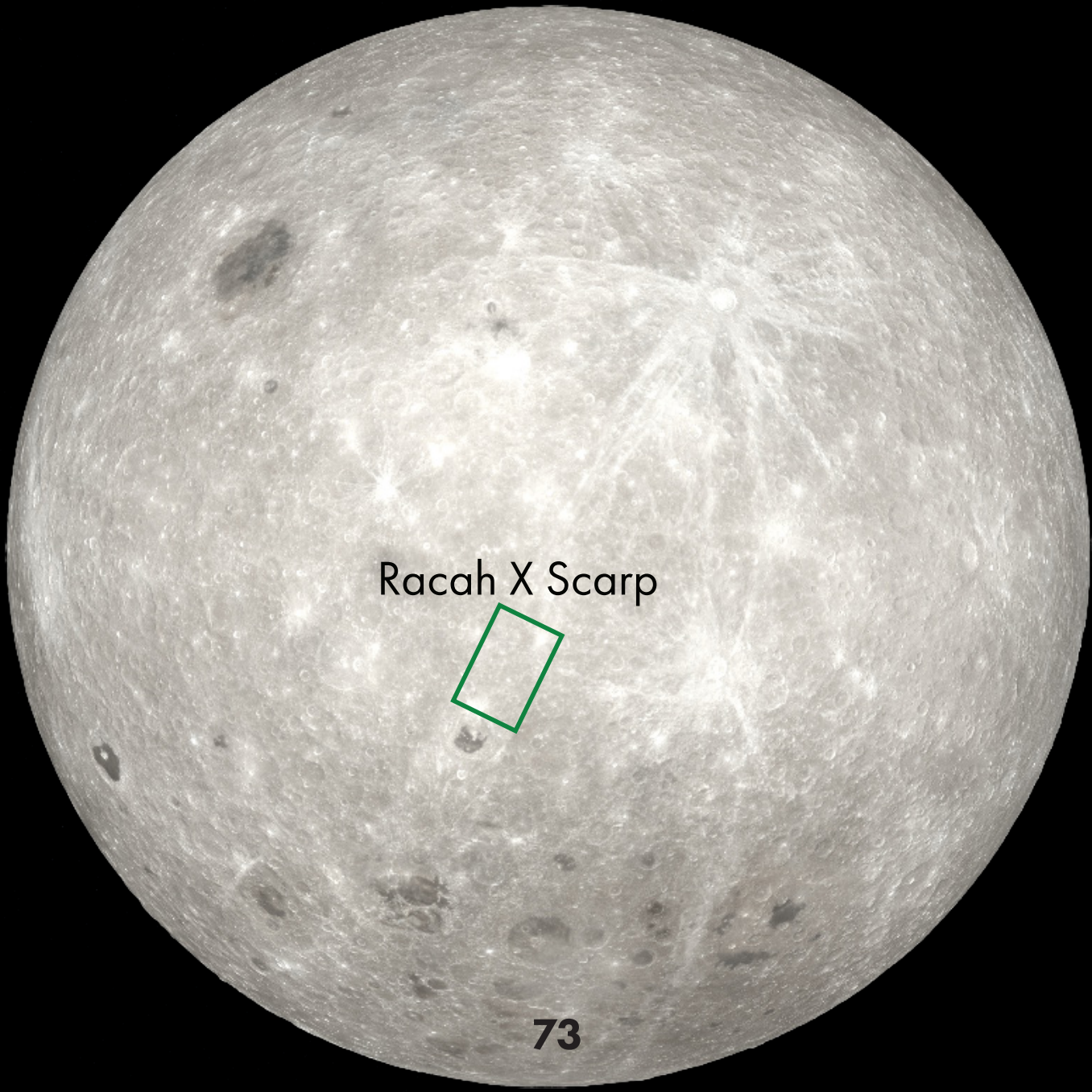

Jules Verne

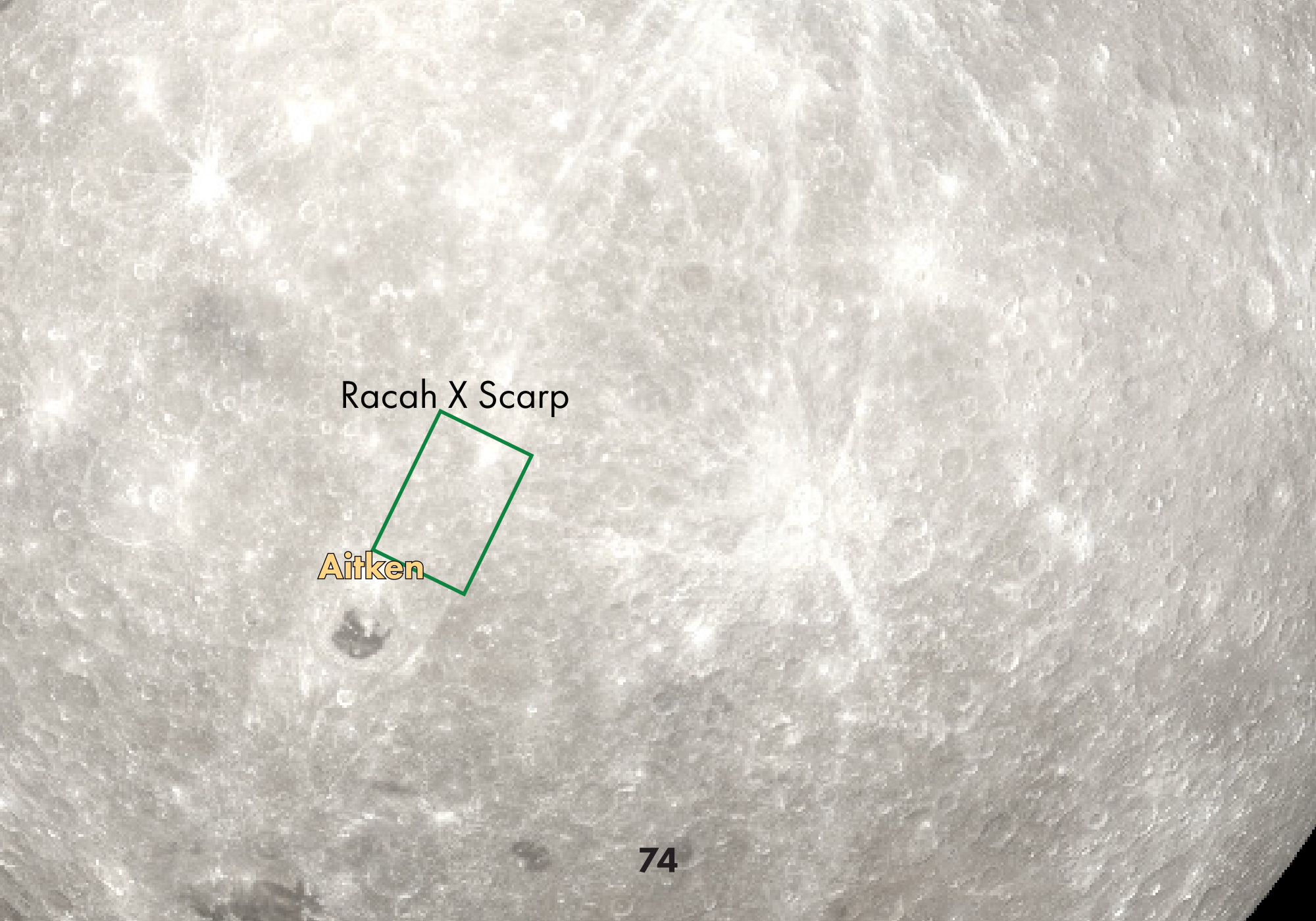

Jules Verne
high illumination

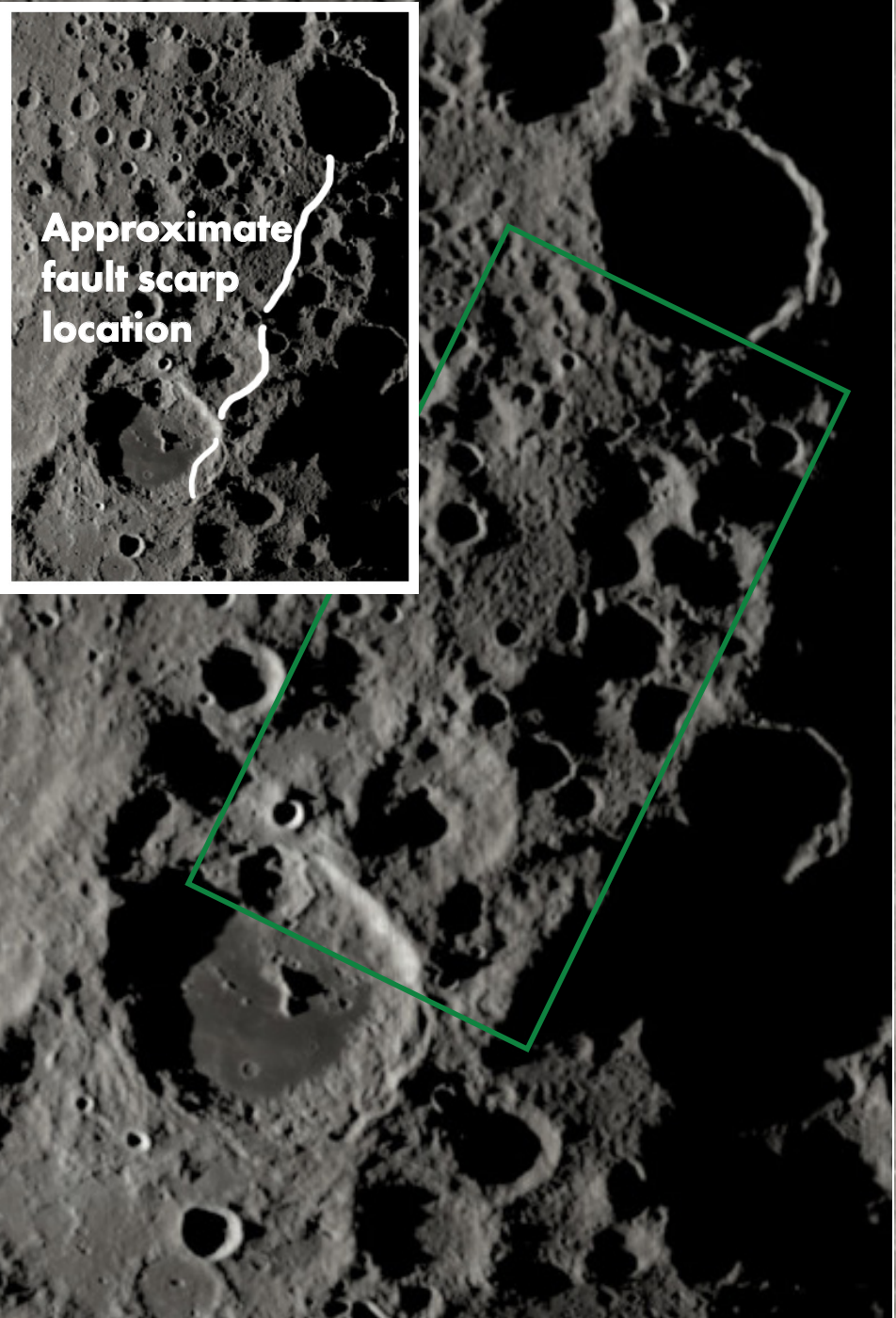

Aitken

Aitken

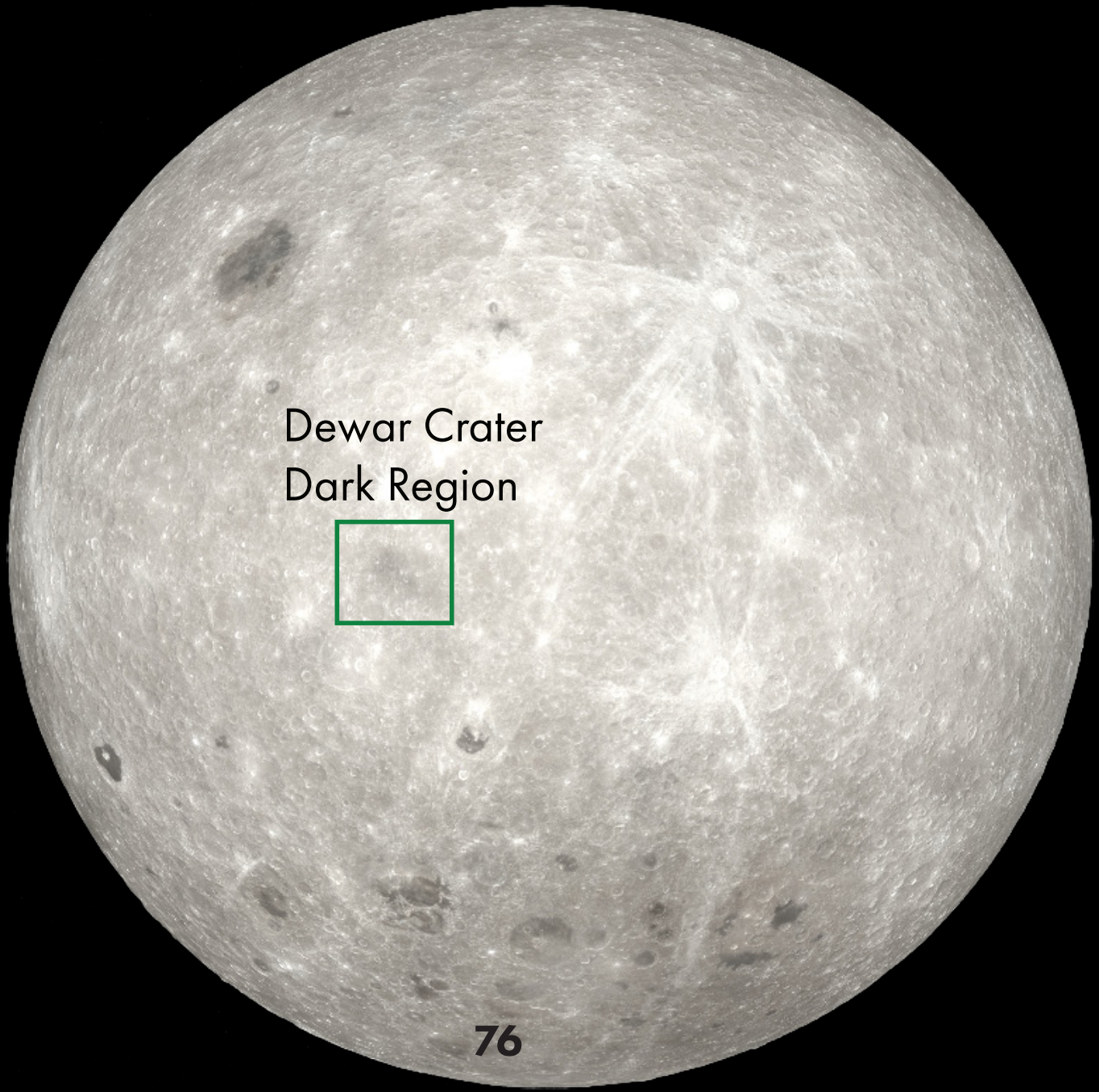



Racah X Scarp

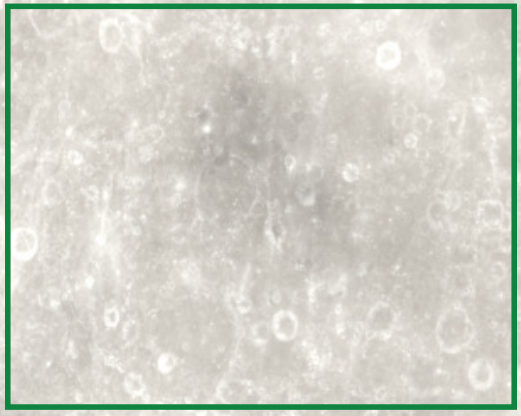

Racah X Scarp
Aitken

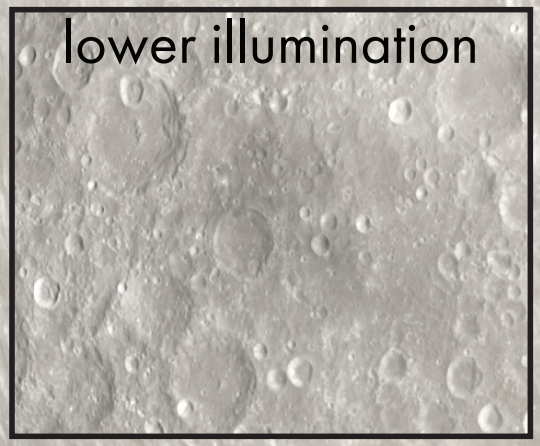


The scarp is less prominent in high illumination

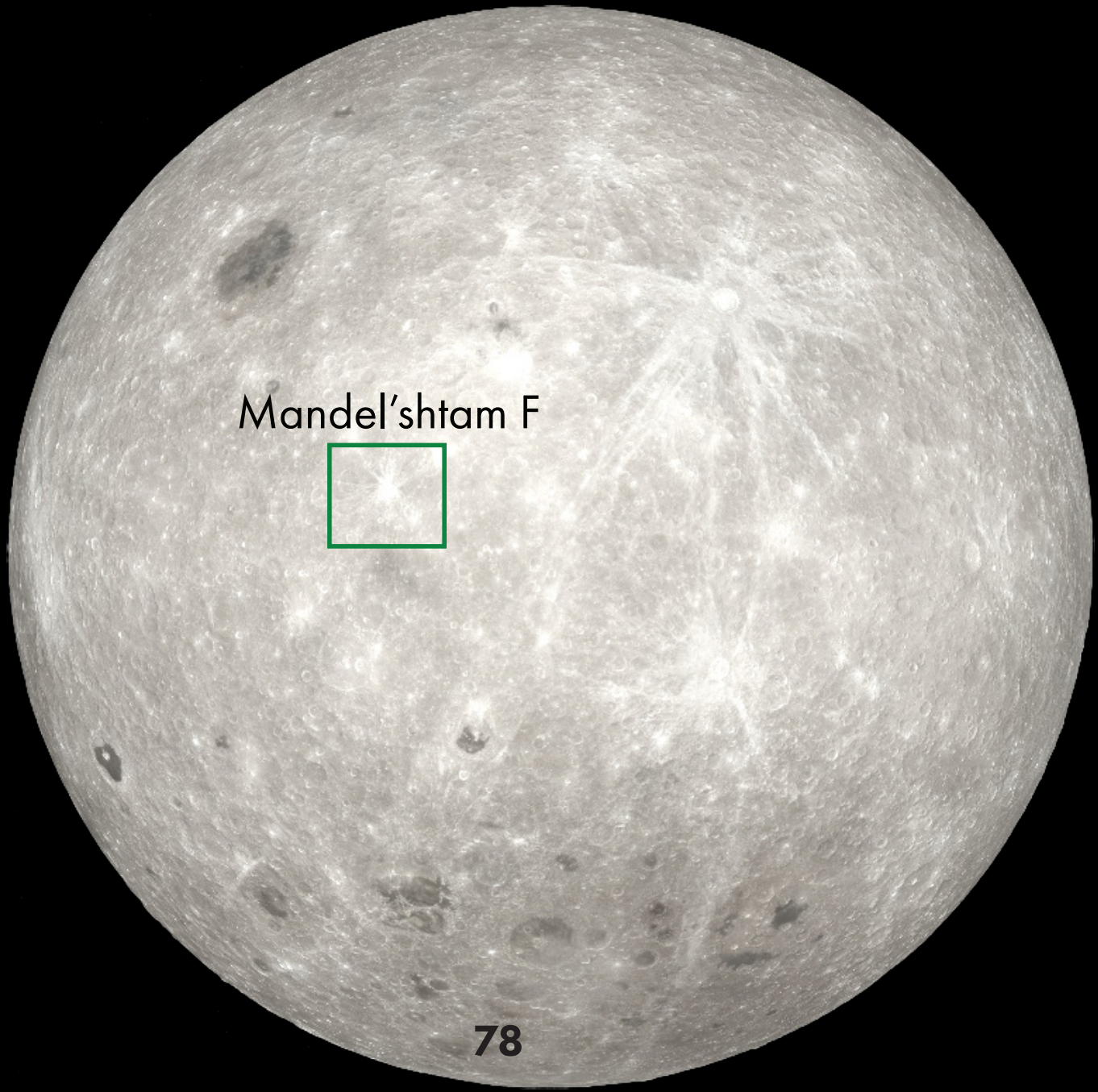

Dewar Crater
Dark Region

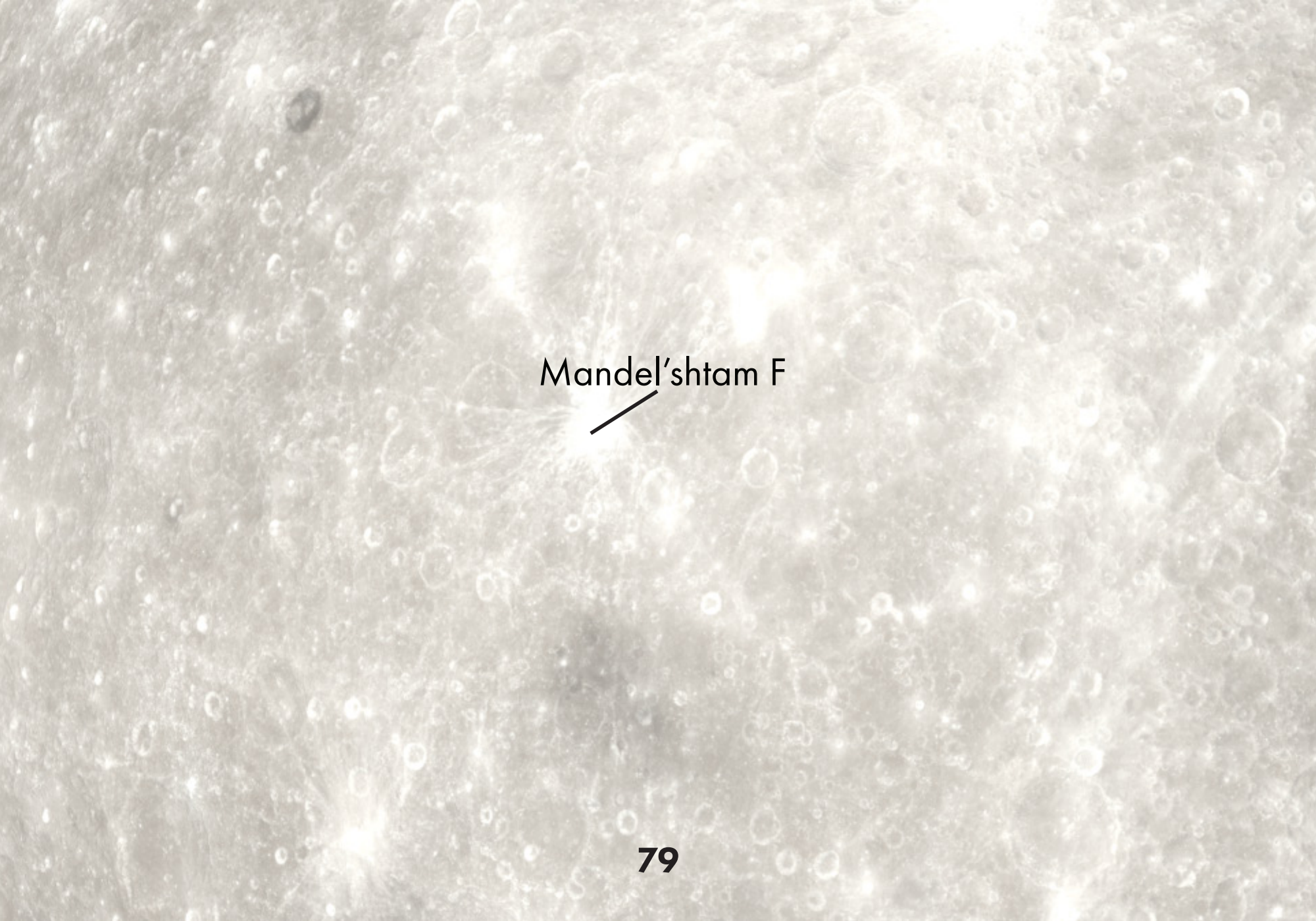
Dewar Crater
Dark Region

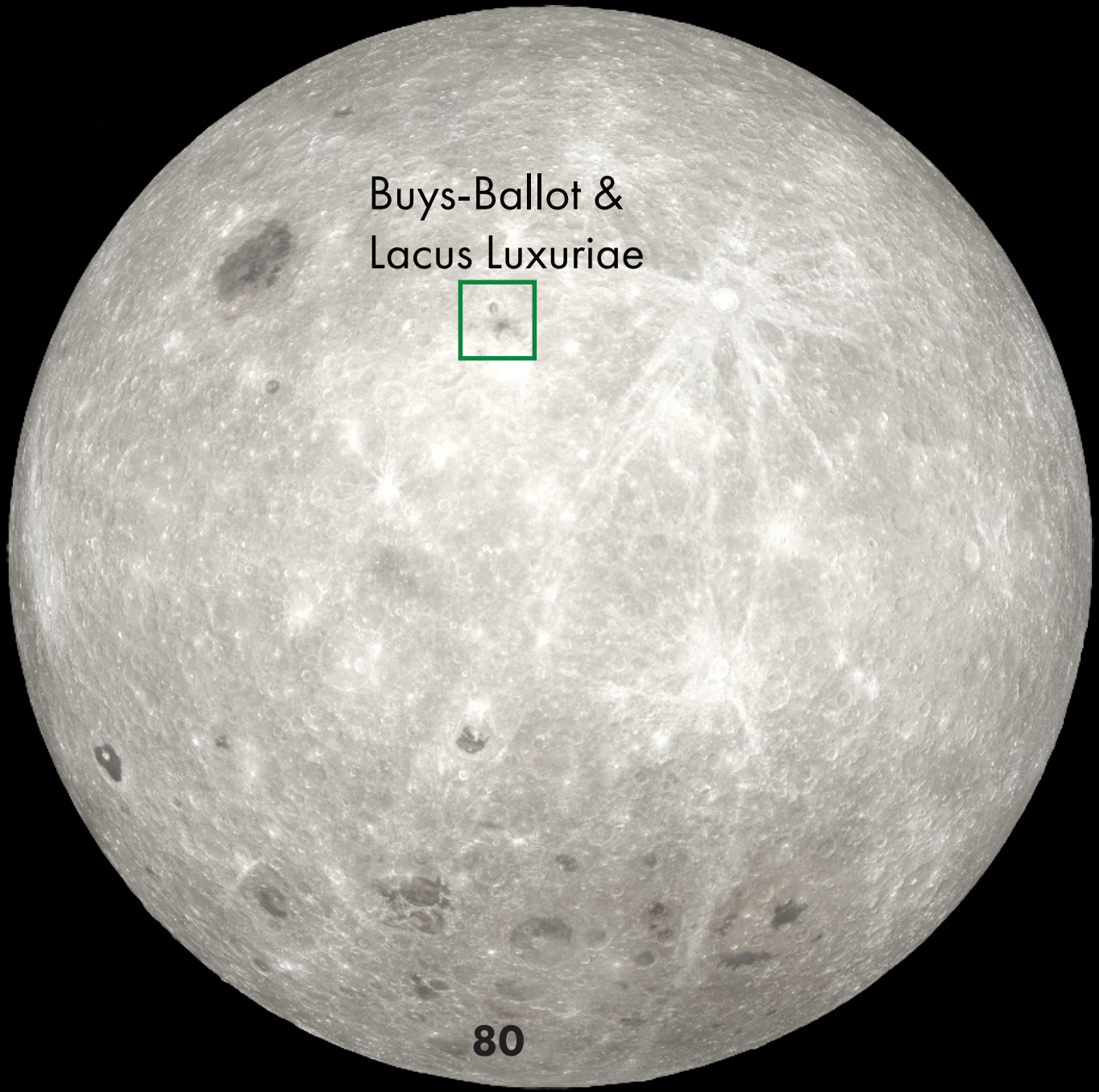


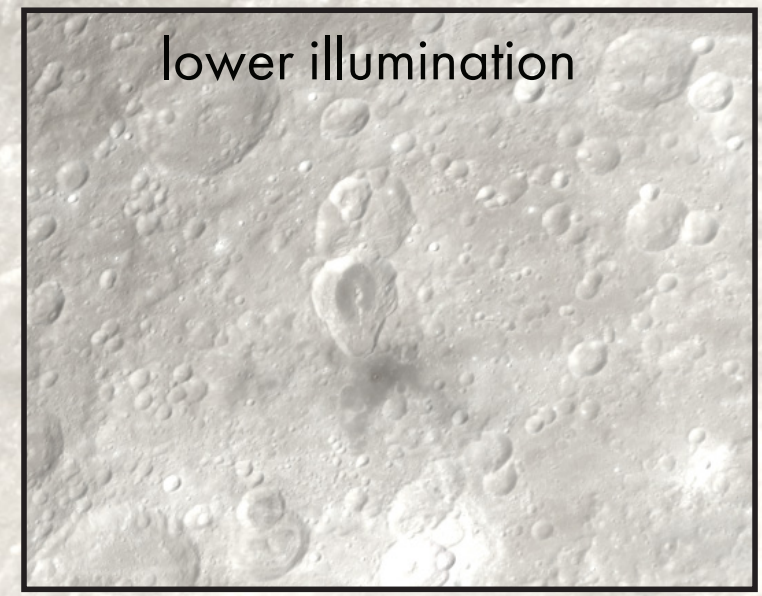


Aitken


Mandel'shtam F

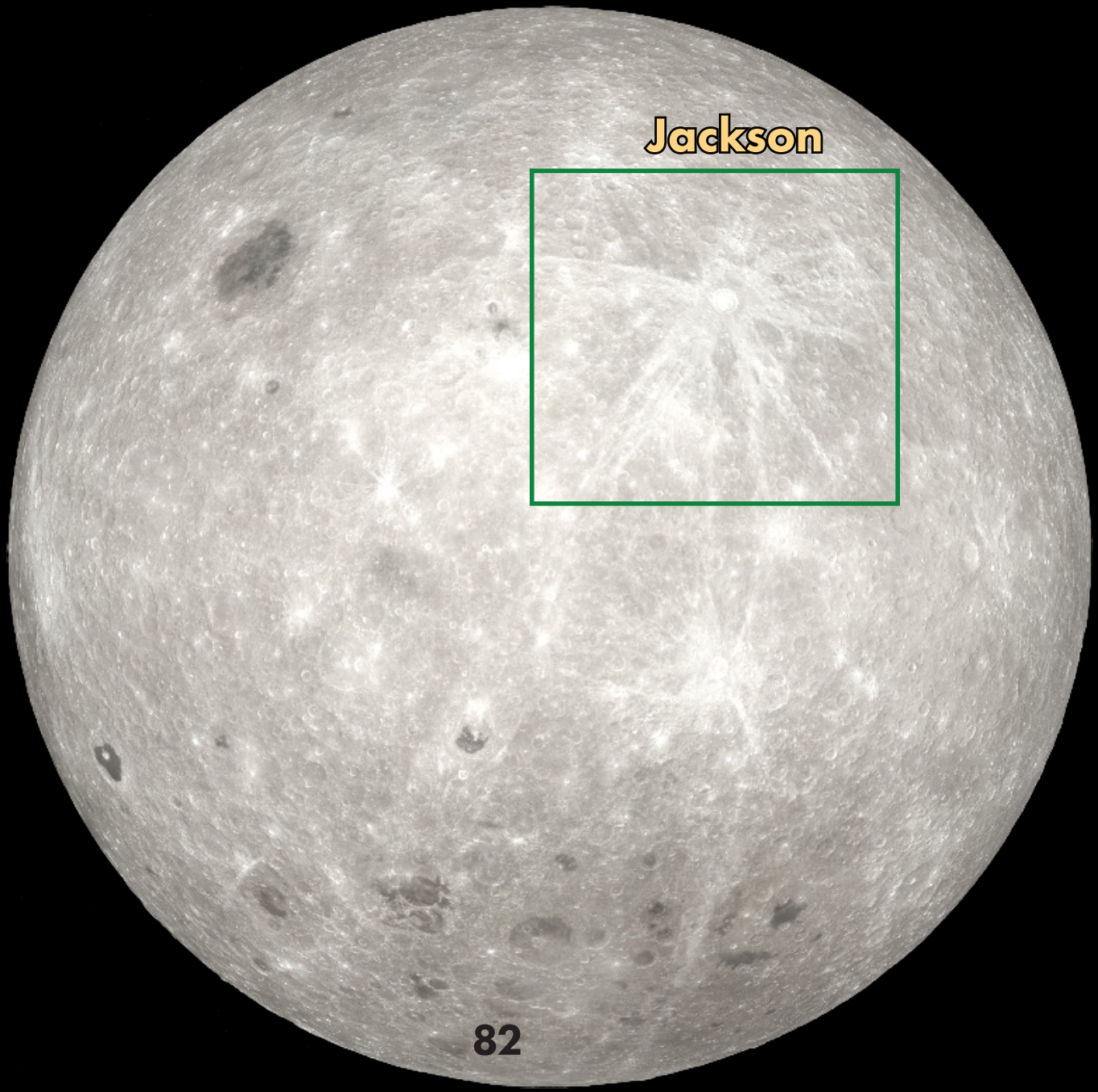

Mandel'shtam F


Buys-Ballot &
Lacus Luxuriae

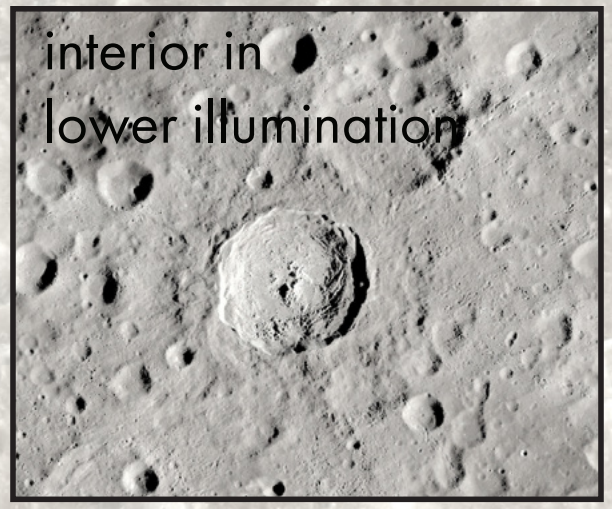


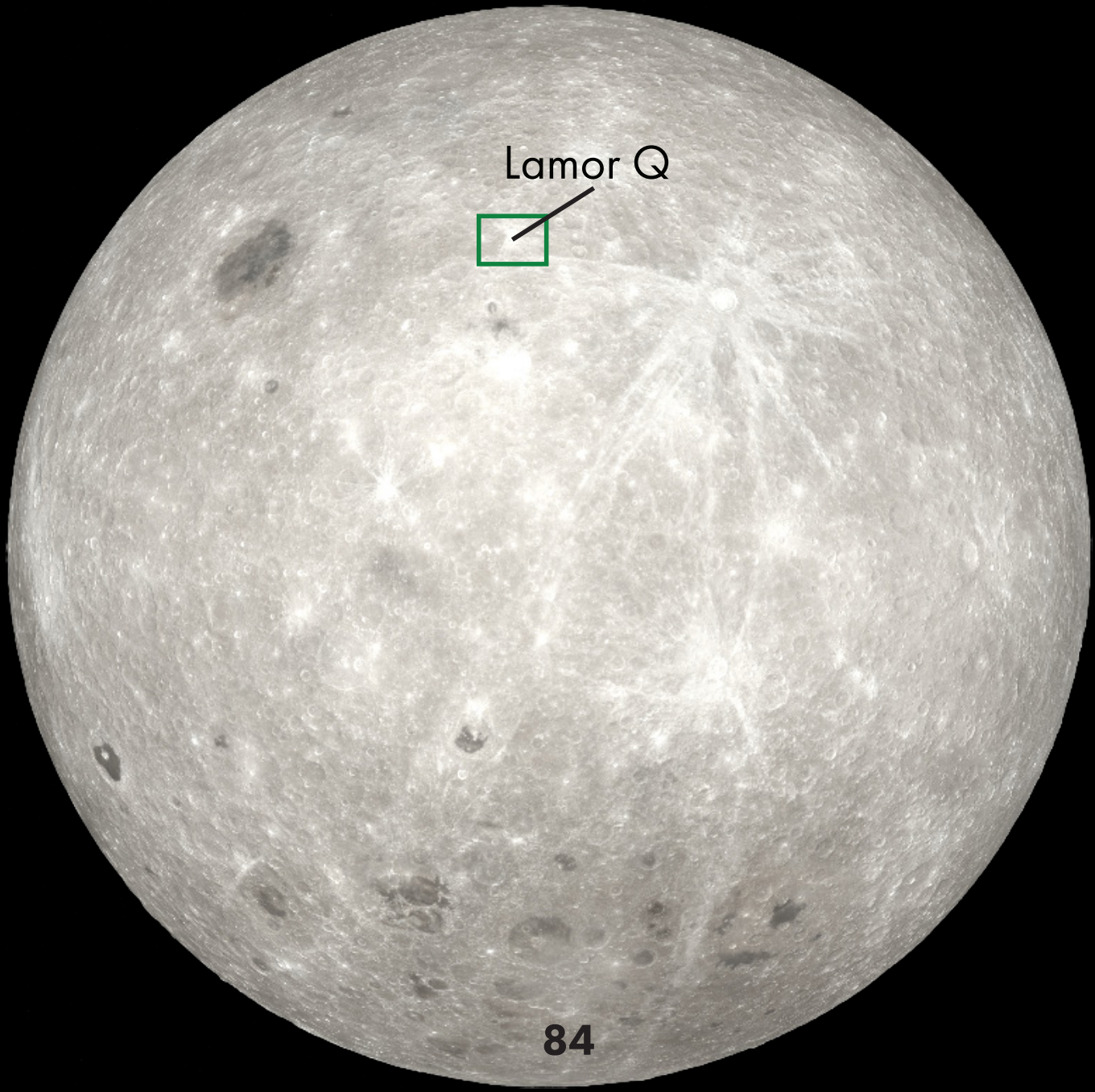
Buys-Ballot

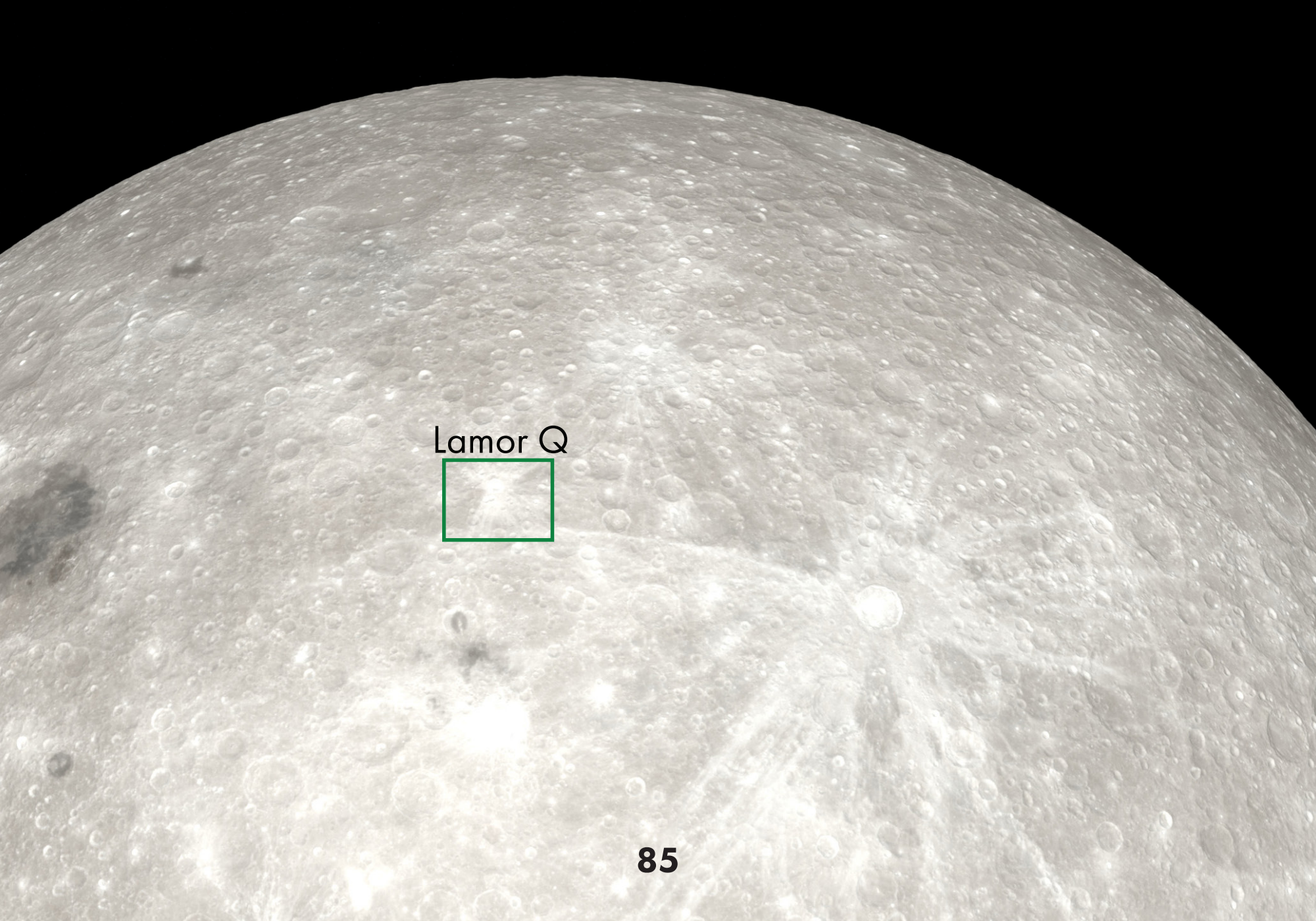
Lacus Luxuriae


Jackson

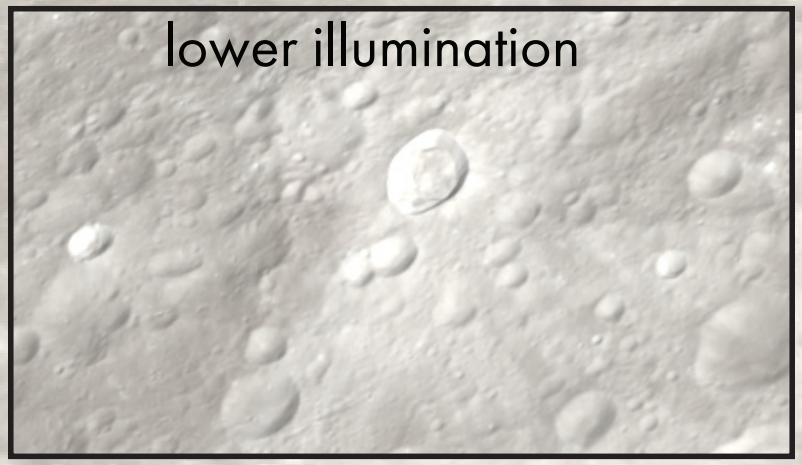
Jackson

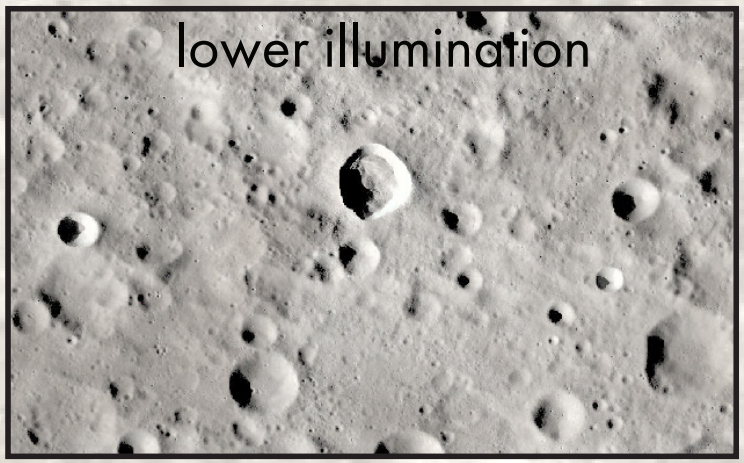


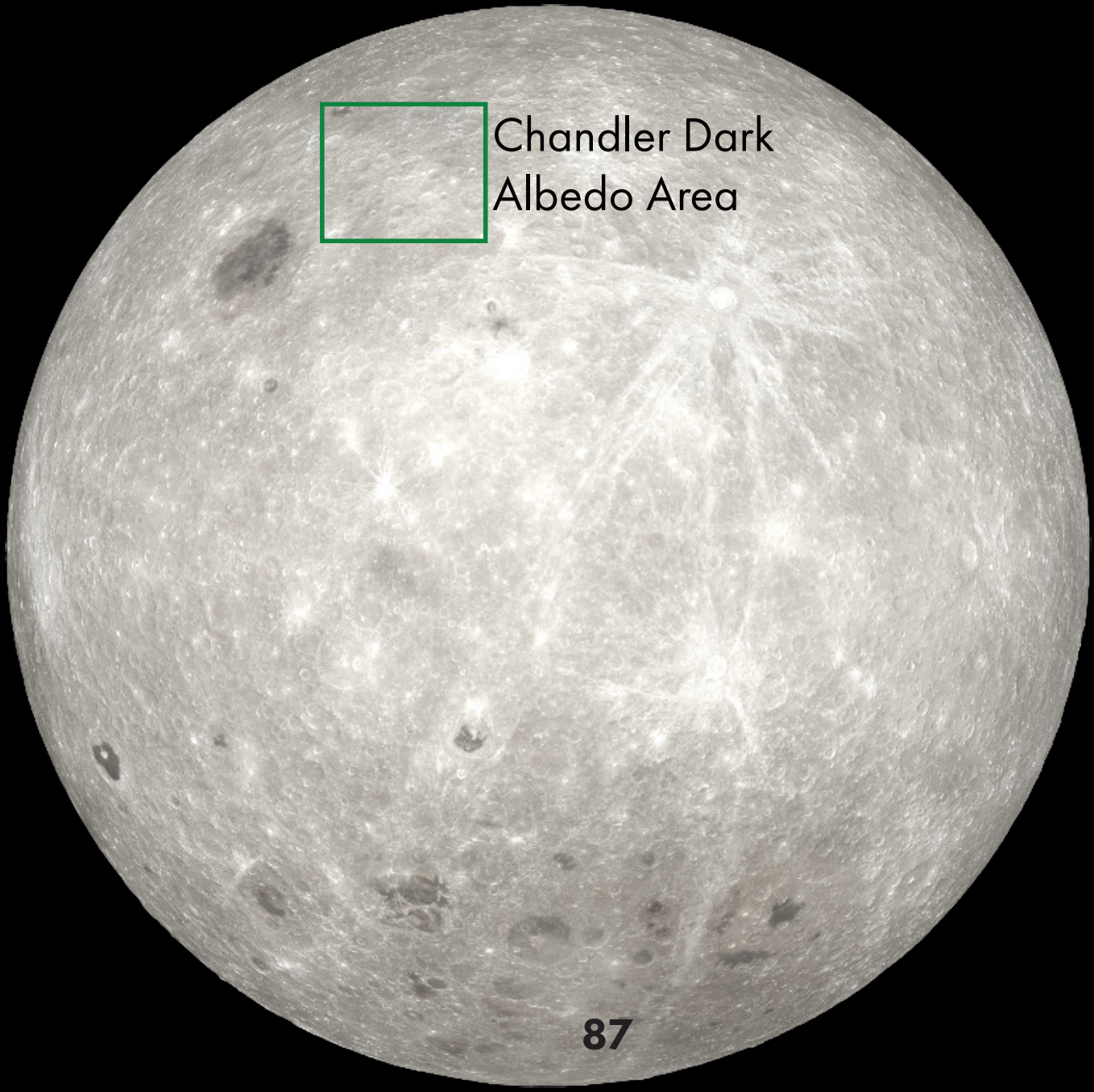

Lamor Q

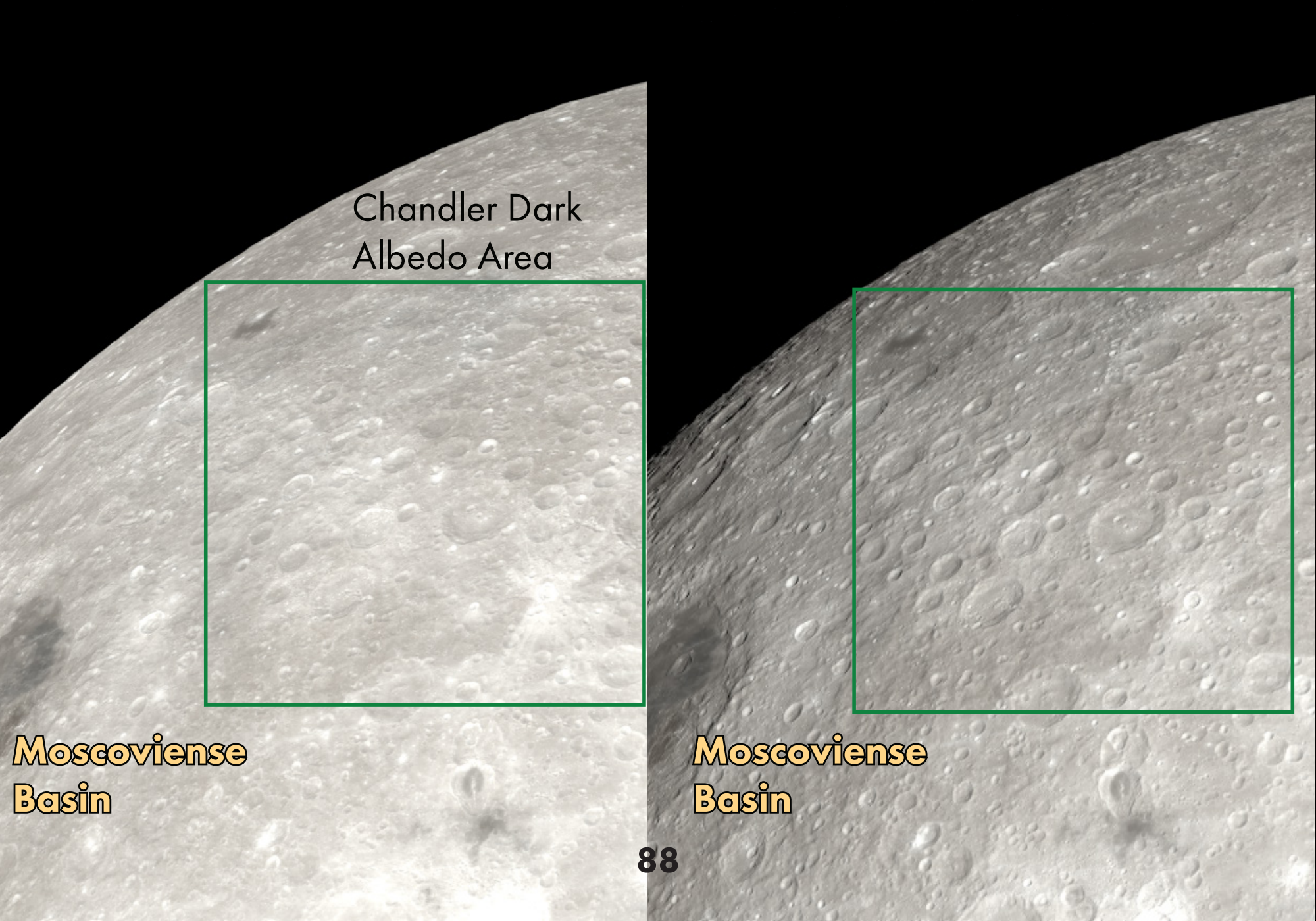

Lamor Q

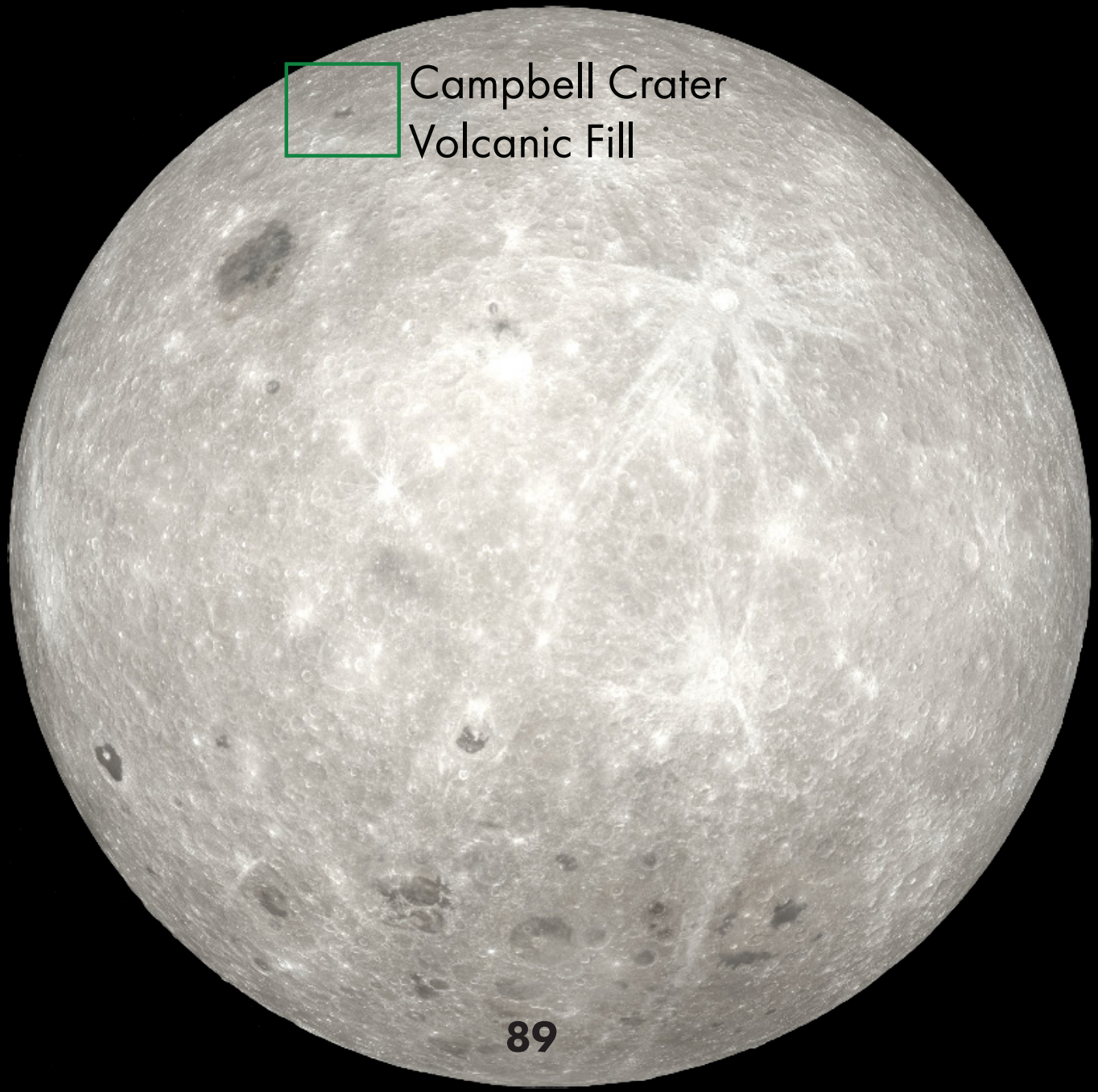
Lamor Q

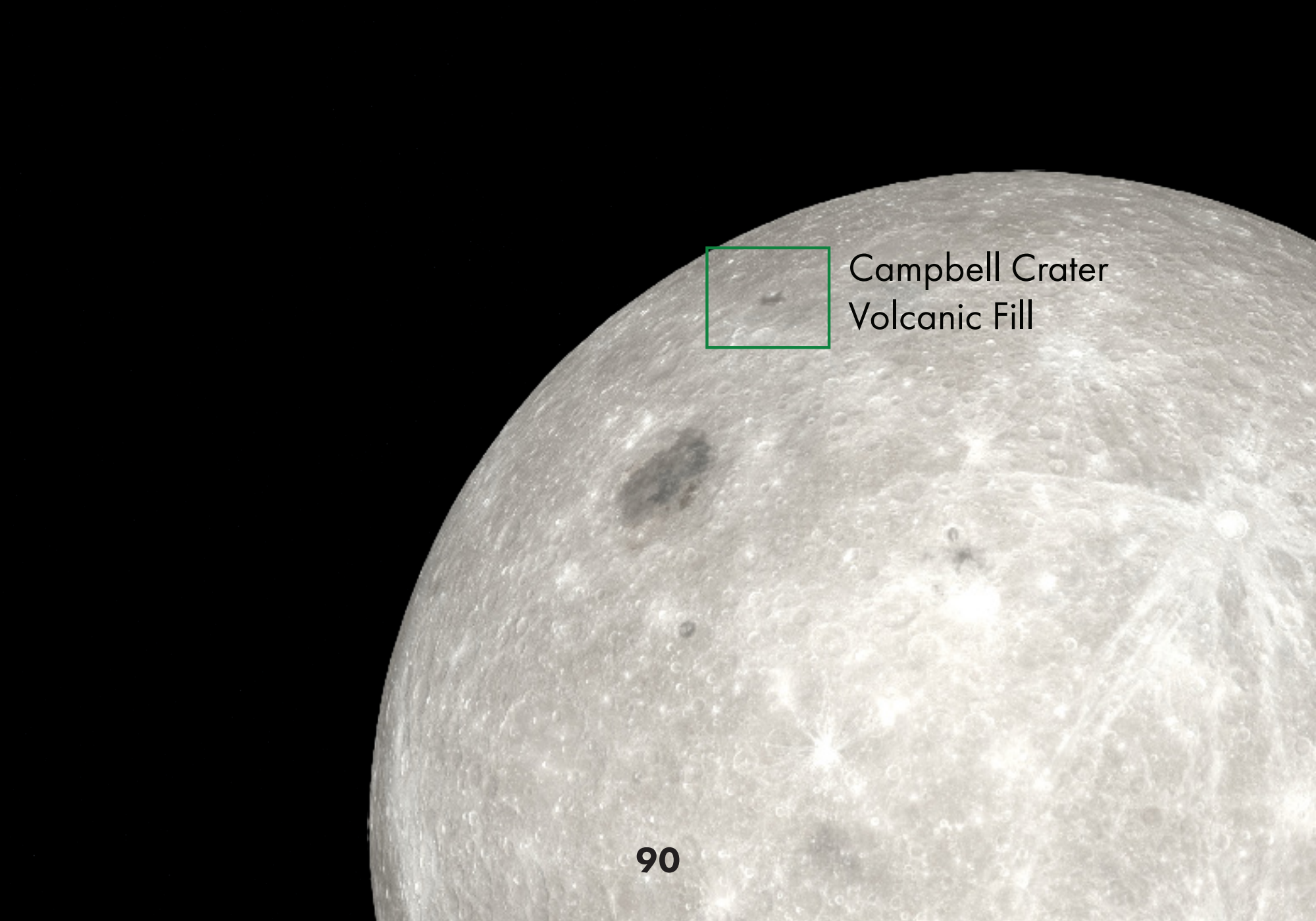


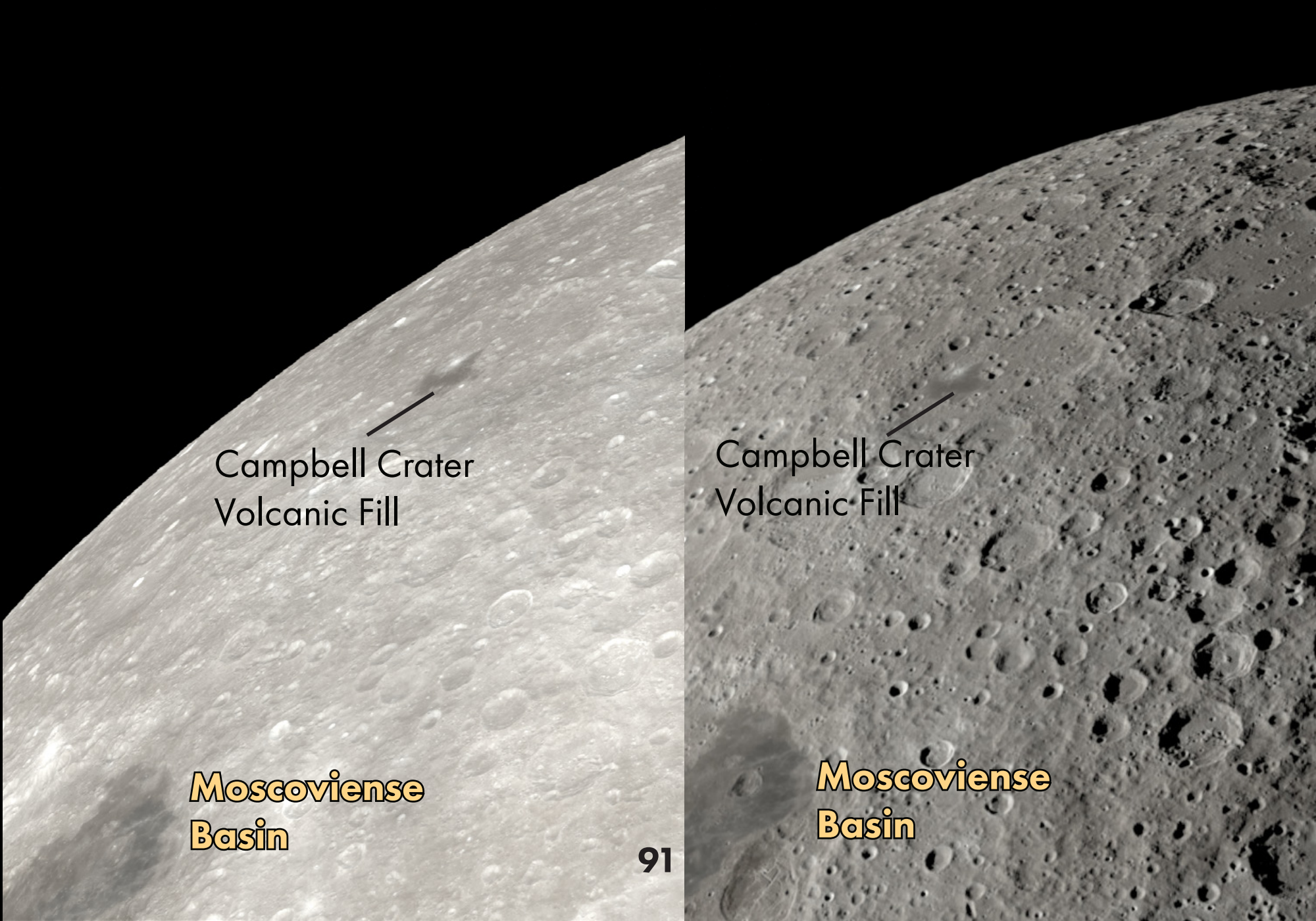


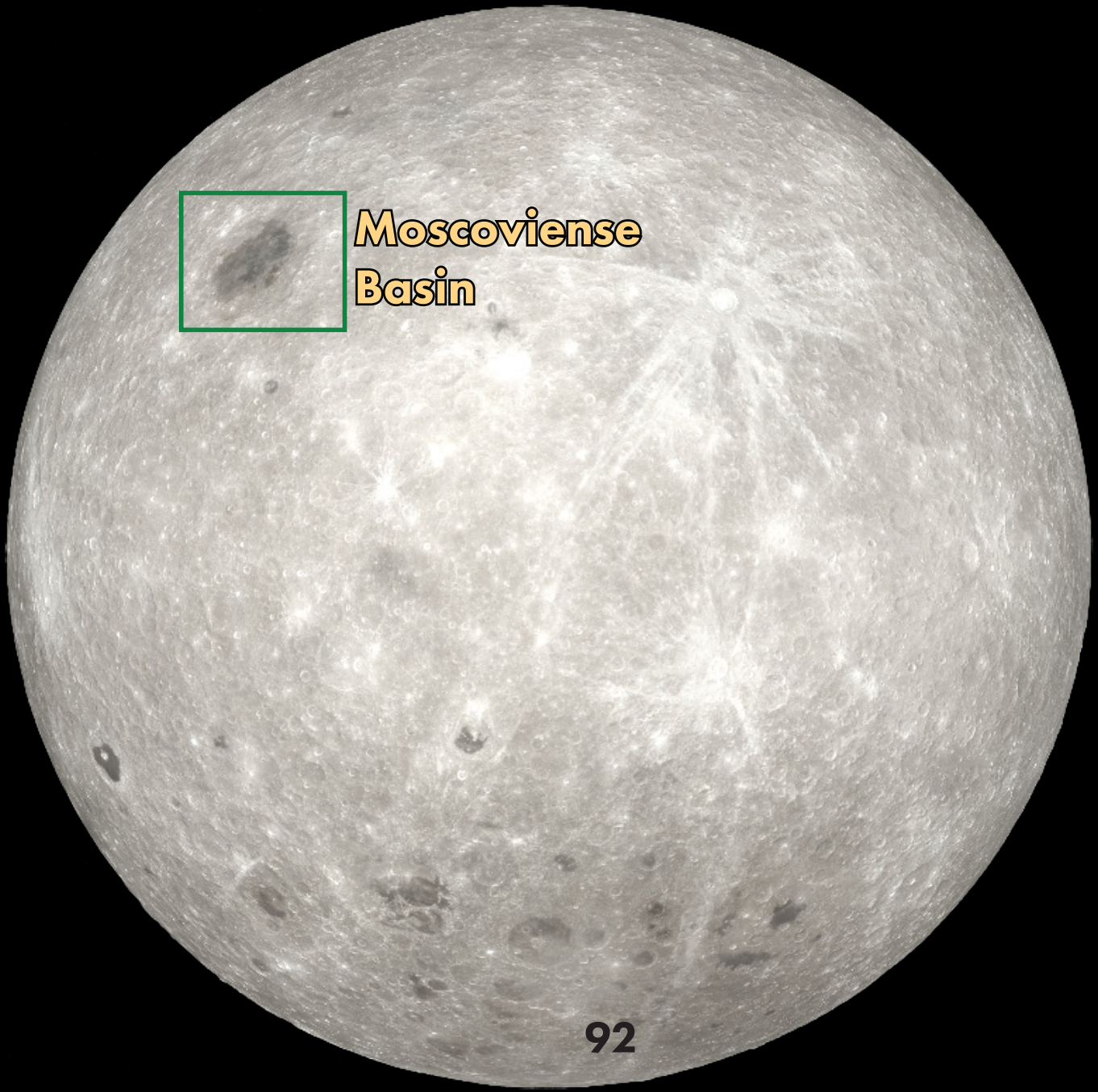

Chandler Dark
Albedo Area

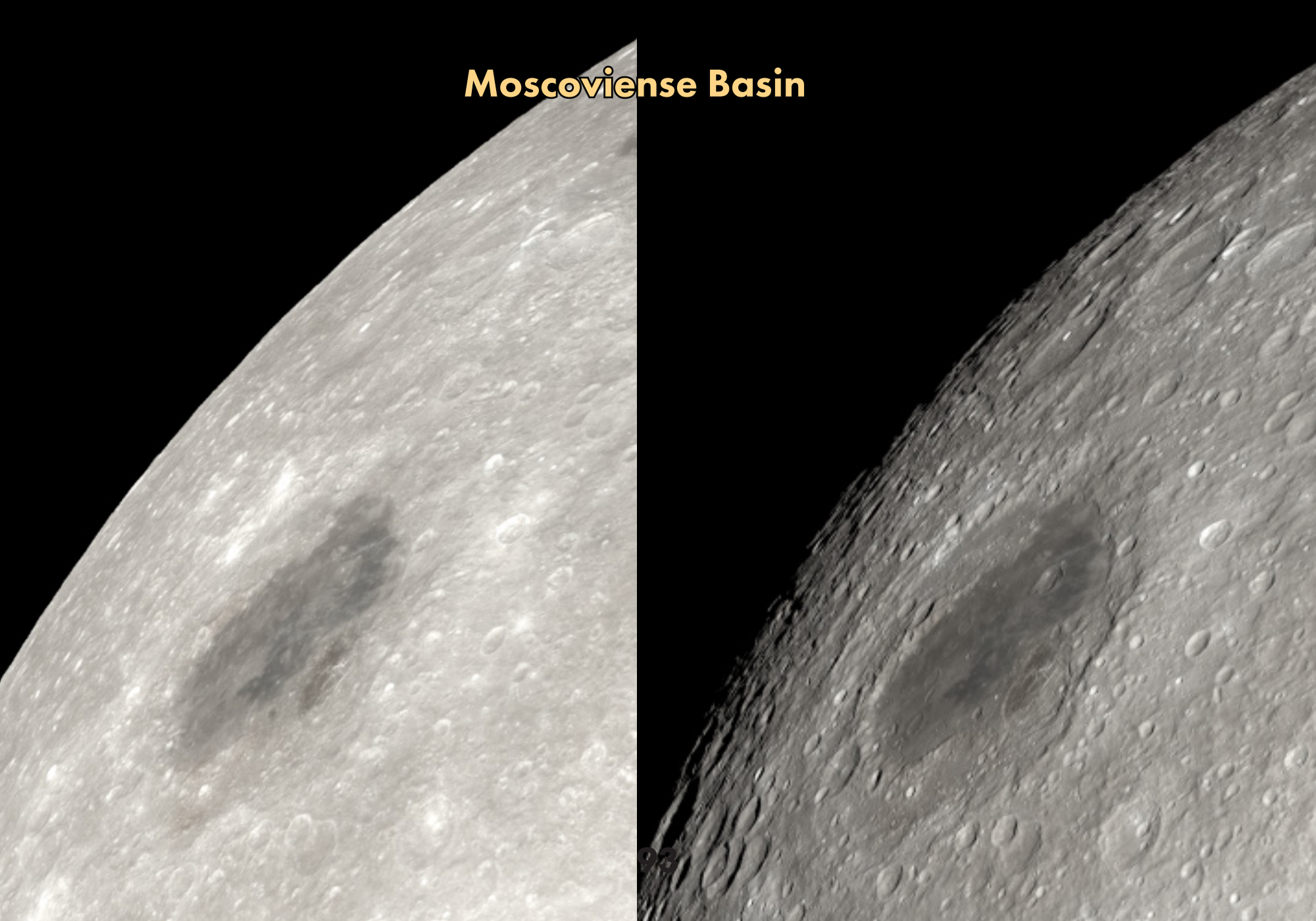

Chandler Dark
Albedo Area
Moscoviense
Basin
Moscoviense
Basin

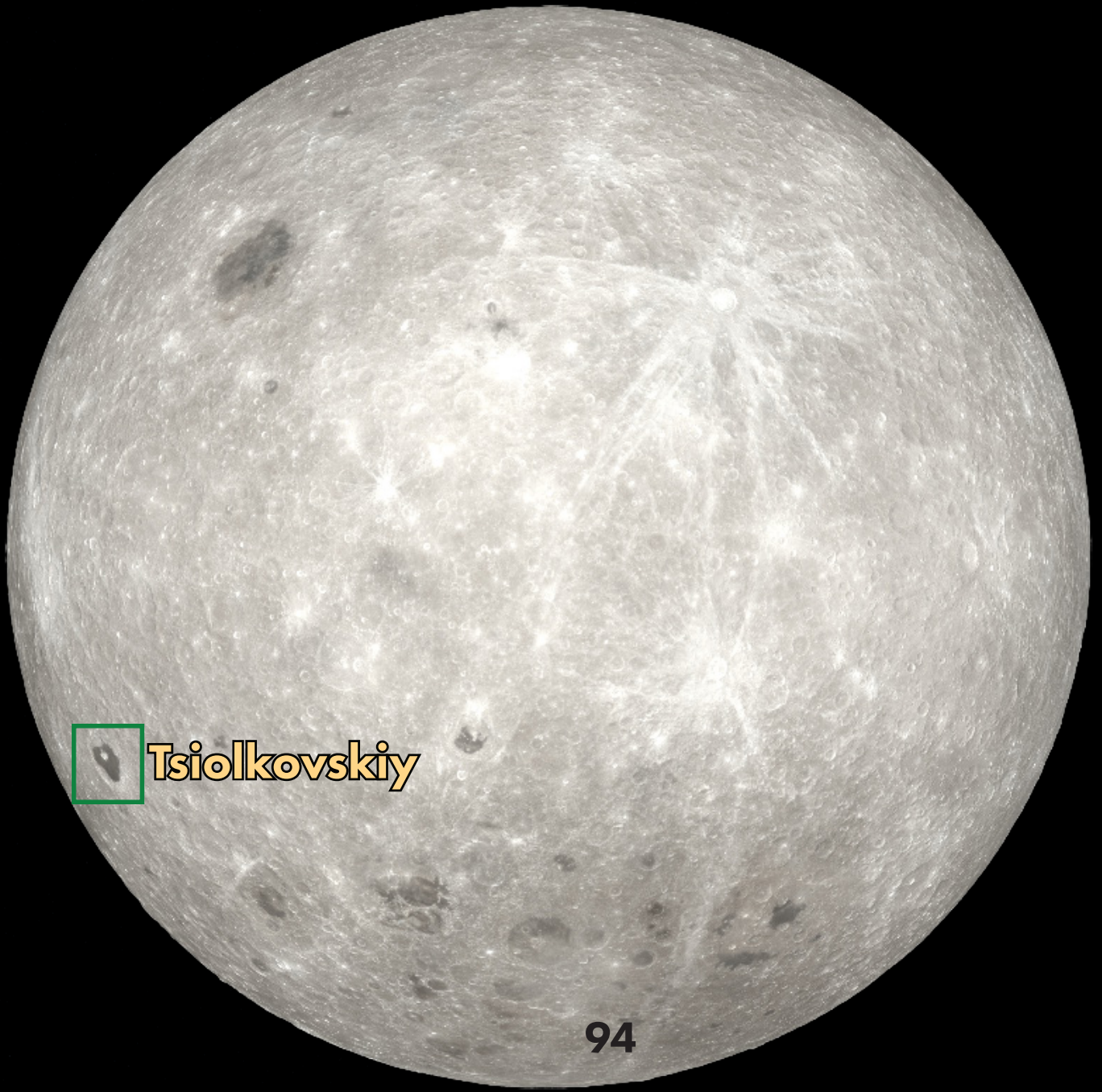

Campbell Crater
Volcanic Fill


Campbell Crater
Volcanic Fill


Campbell Crater
Volcanic Fill
Moscoviense
Basin
Campbell Crater
Volcanic Fill
Moscoviense
Basin

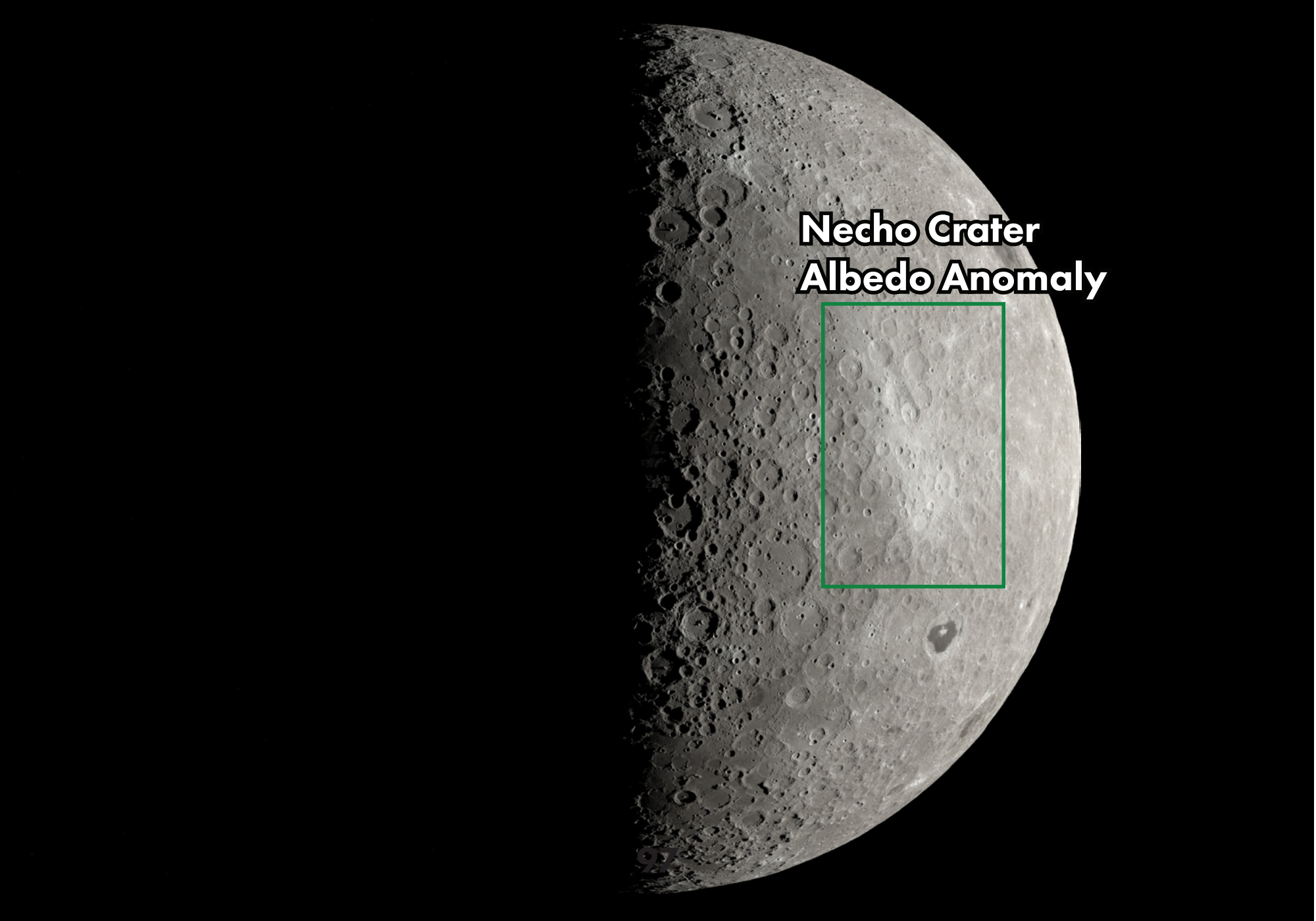

Moscoviense
Basin

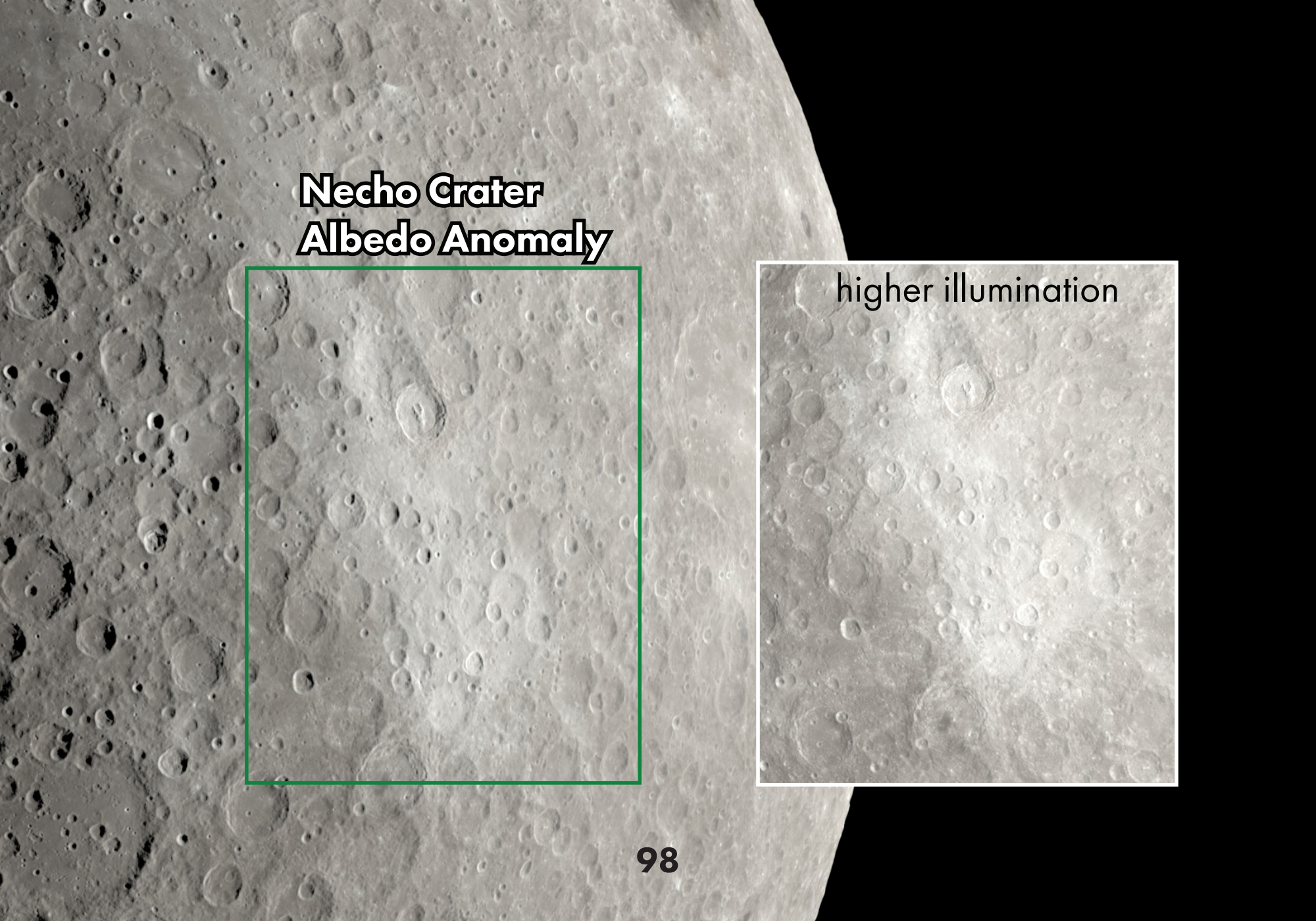

Moscoviense Basin


Tsiolkovskiy


Tsiolkovskiy

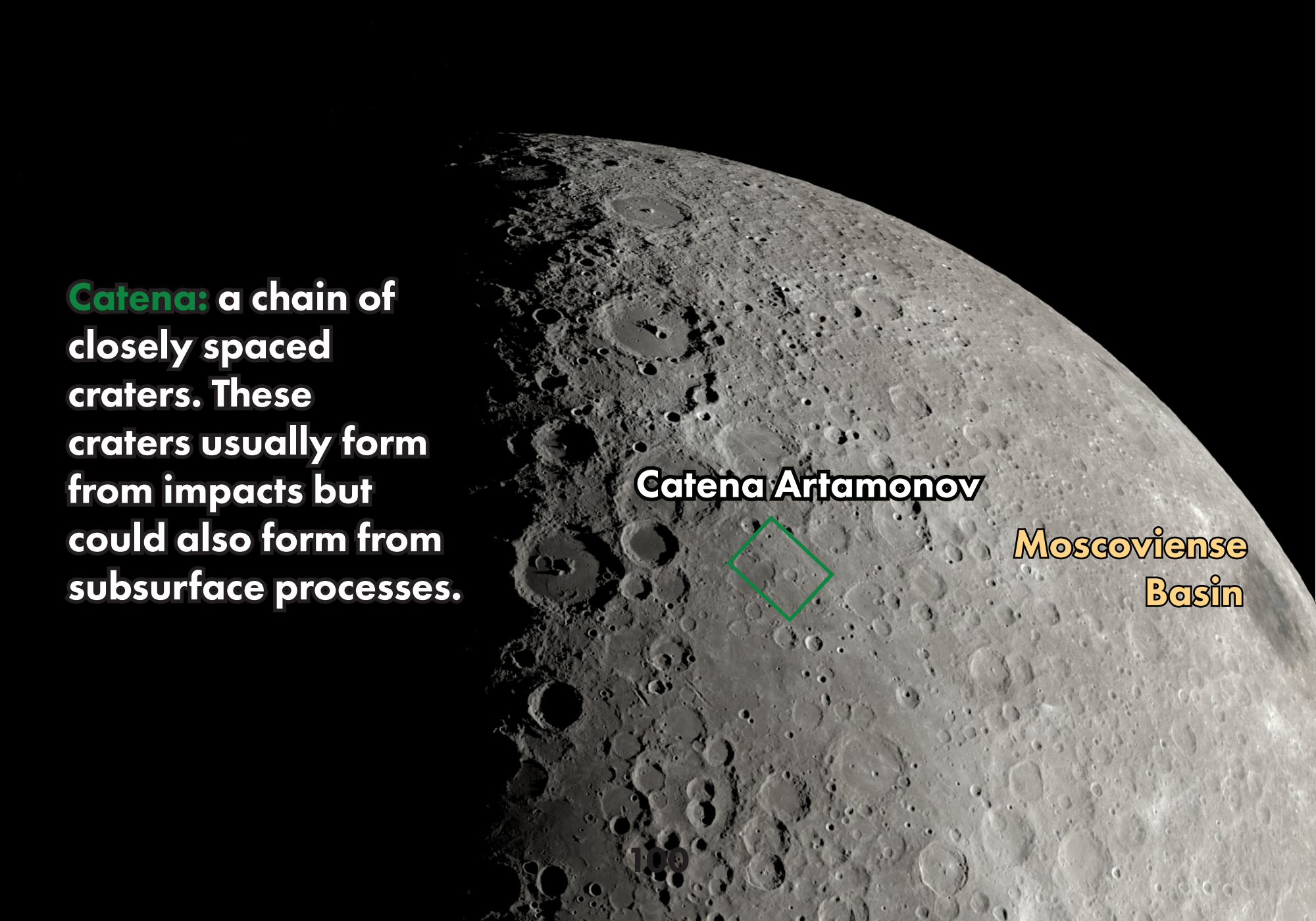
DEPARTING SIDE

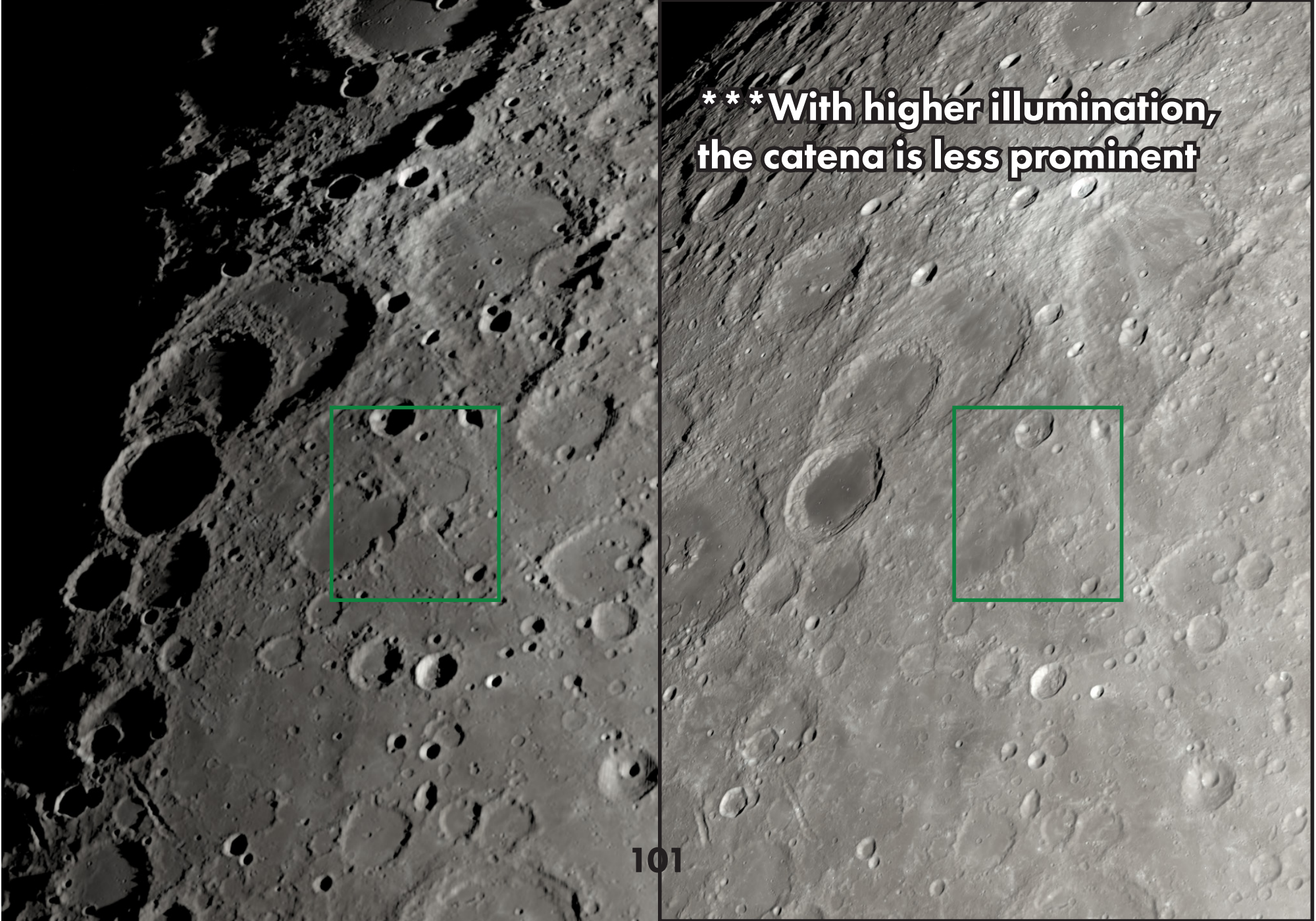

Necho Crater
Albedo Anomaly

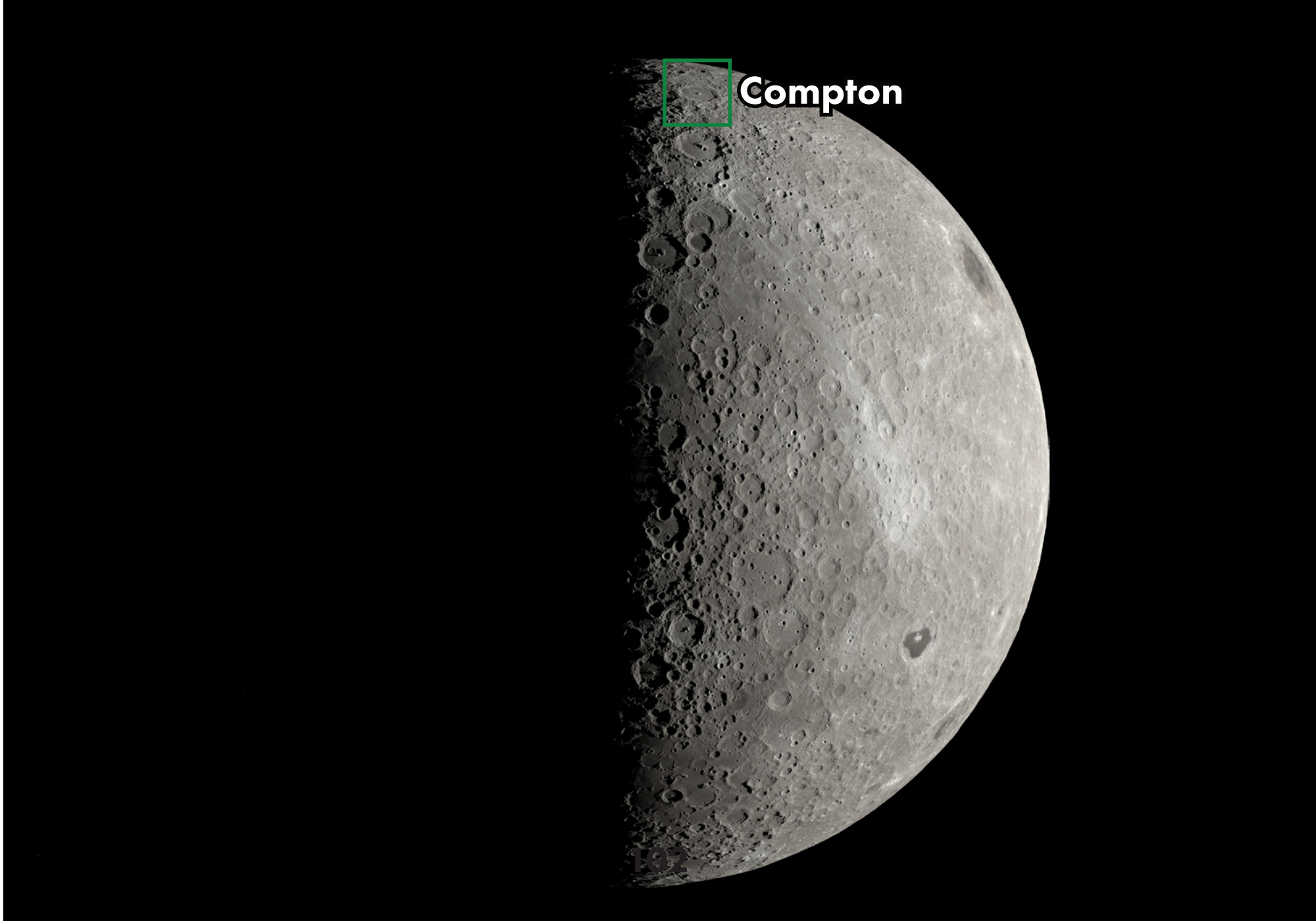

Necho Crater
Albedo Anomaly
higher illumination

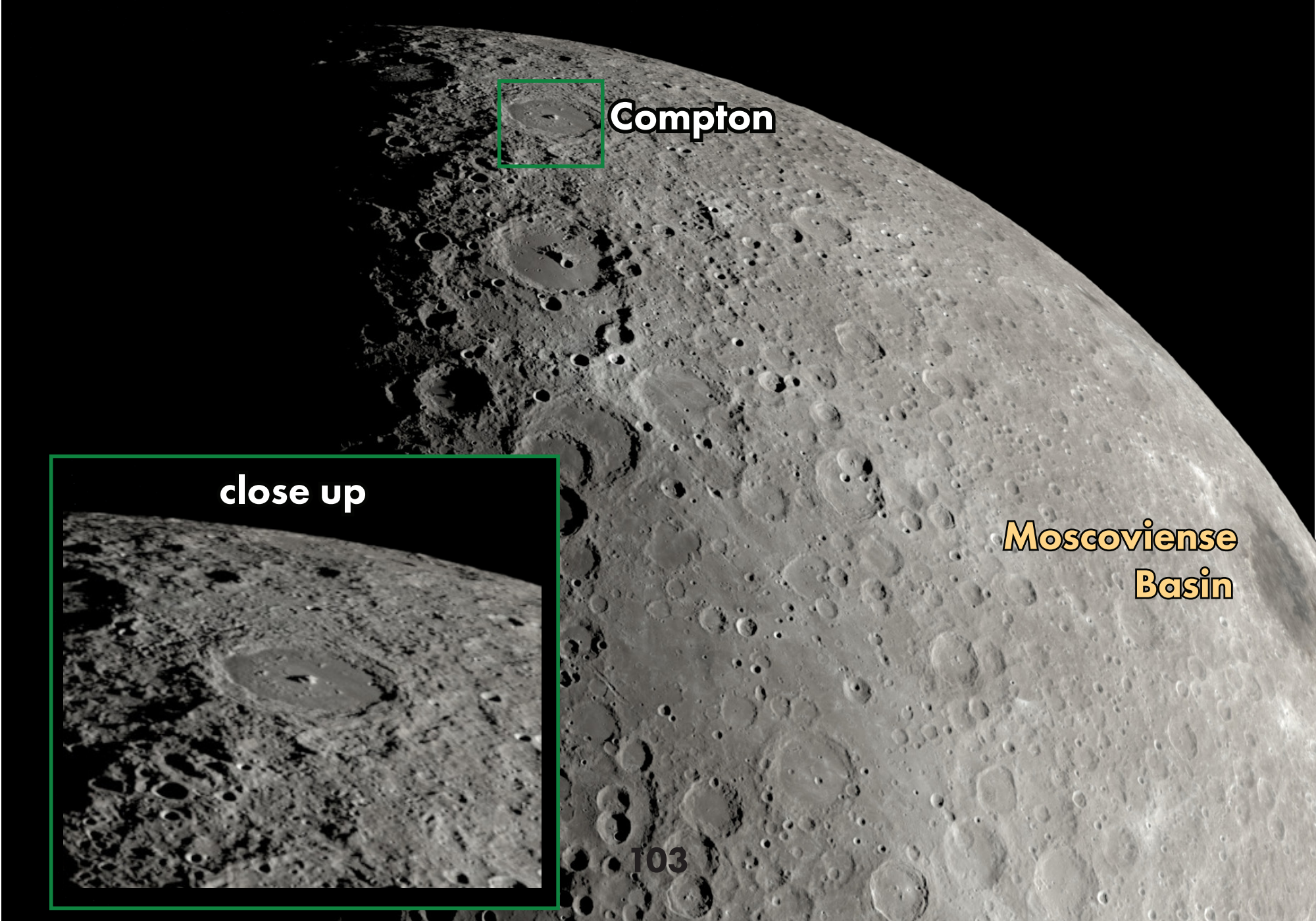

Catena
Artamonov

Catena: a chain of closely spaced craters. These craters usually form from impacts but could also form from subsurface processes.

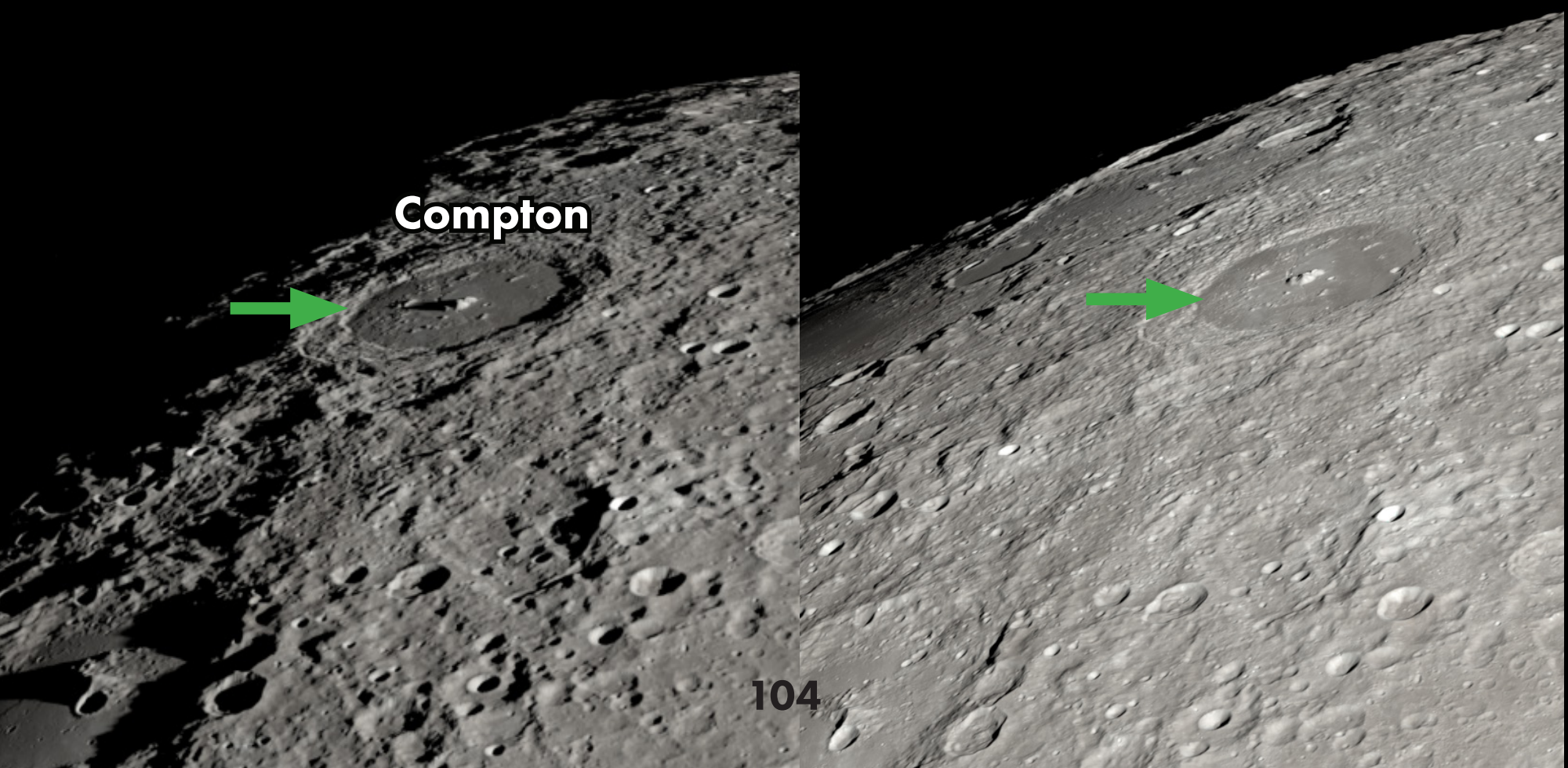


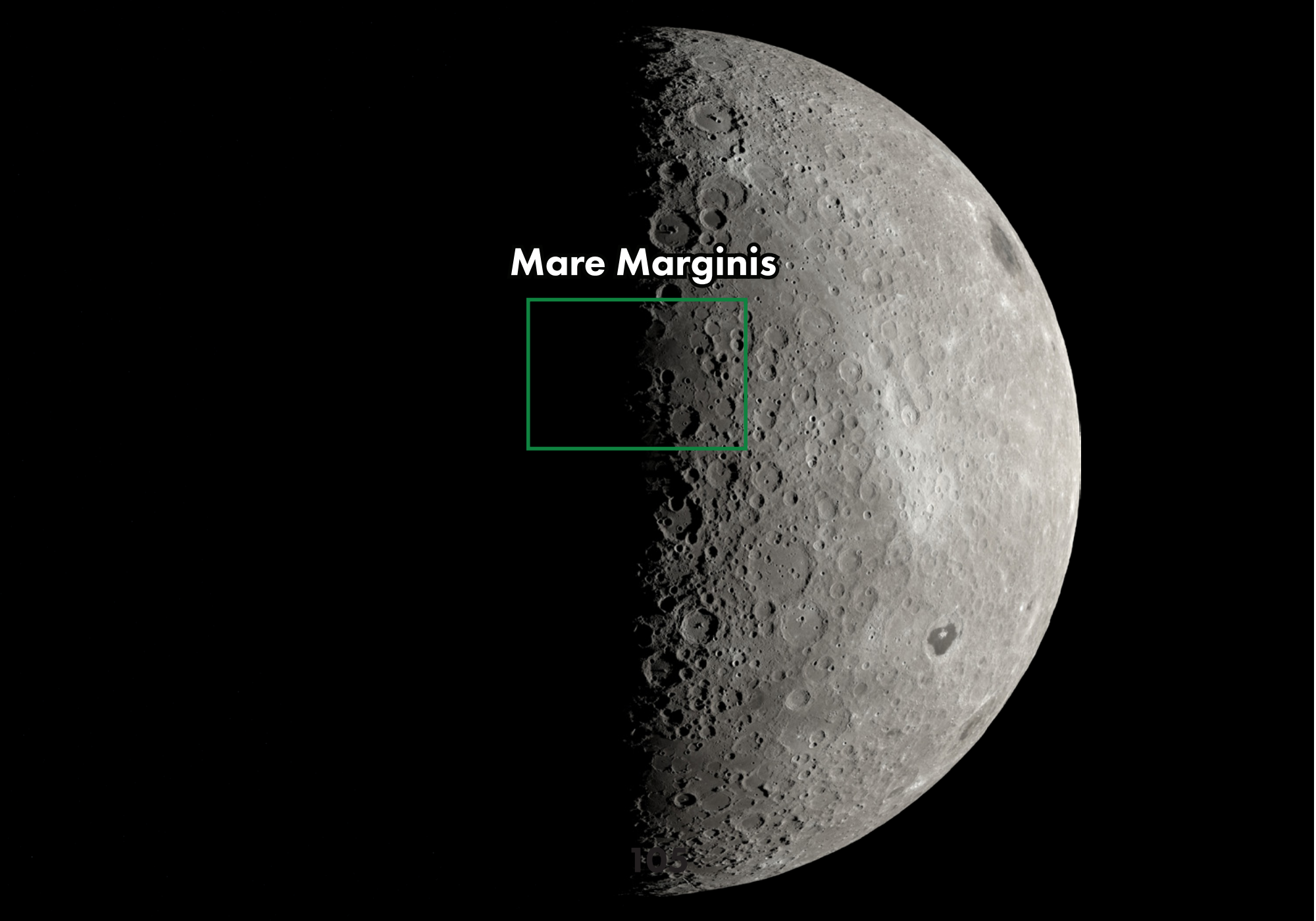

***With higher illumination,
the catena is less prominent

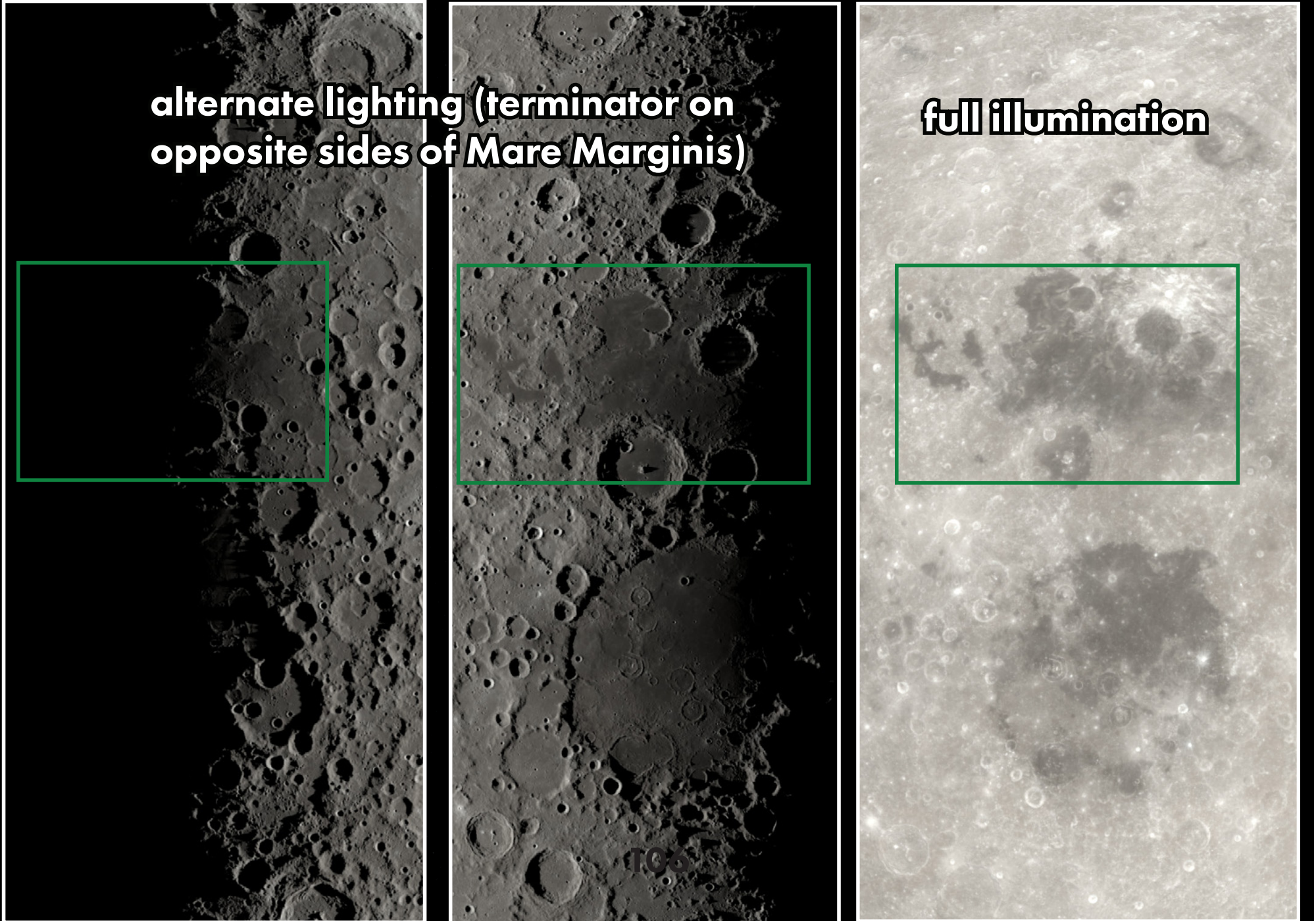

Compton
192


Compton
close up
Moscoviense
Basin

alternate view and lighting




Mare Marginis


alternate lighting (terminator on opposite sides of Mare Marginis)
full illumination