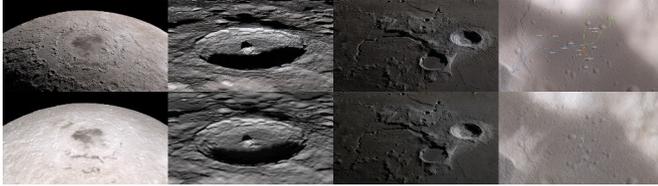


# 'Tour of the Moon' 4K redux

11 April 2018

---

Provided by NASA



Comparisons of certain frames from the original 2011 tour (bottom) and the 2018 version (top). The data gathered by LRO in the intervening years is reflected in the improved quality of the newer images. Credit: NASA

In the fall of 2011, the Lunar Reconnaissance Orbiter (LRO) mission released its original Tour of the Moon, a five-minute animation that takes the viewer on a virtual tour of our nearest neighbor in space. Six years later, the tour has been recreated in eye-popping 4K resolution, using the same camera path and drawing from the vastly expanded data trove collected by LRO in the intervening years.

The tour visits a number of interesting sites chosen to illustrate a variety of lunar terrain features. Some are on the near side and are familiar to both professional and amateur observers on Earth, while others can only be seen clearly from space. Some are large and old (Orientale, South Pole-Aitken), others are smaller and younger (Tycho, Aristarchus). Constantly shadowed areas near the poles are hard to photograph but easier to measure with altimetry, while several of the Apollo landing sites, all relatively near the equator, have been imaged at resolutions as high as 25 centimeters (10 inches) per pixel.

The new tour highlights the mineral composition of the Aristarchus plateau, evidence for surface water ice in certain spots near the south pole, and the mapping of gravity in and around the Orientale basin.

APA citation: 'Tour of the Moon' 4K redux (2018, April 11) retrieved 18 September 2019 from <https://phys.org/news/2018-04-moon-4k-redux.html>

*This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.*