



M o o n 1 0 1

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<http://www.sciencealert.com/it-s-official-the-us-is-going-back-to-the-moon>

Geologic Features

- Impact craters
- Apollo 12 Landing Site with Surveyor 3 trails

Image 1

150 meters

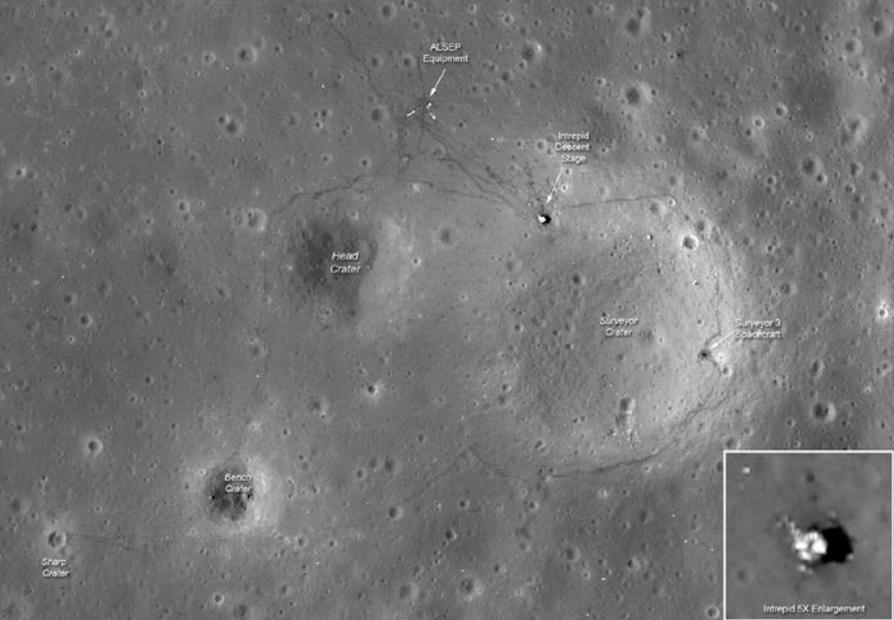




High Angle of Sun

Low Angle of Sun

Simulated Moon Surface Comparing Sun Angles



http://www.nasa.gov/sites/default/files/images/584398main_M168353795RE_25cm_AP12_area.jpg



http://www.lpi.usra.edu/exploration/education/hsResearch/moon_101/moon101_1.jpg

COmparison of apollo 12 landing
site to image 1

Relative Age

- Indistinct craters
- Sharper craters
- Smaller craters within craters

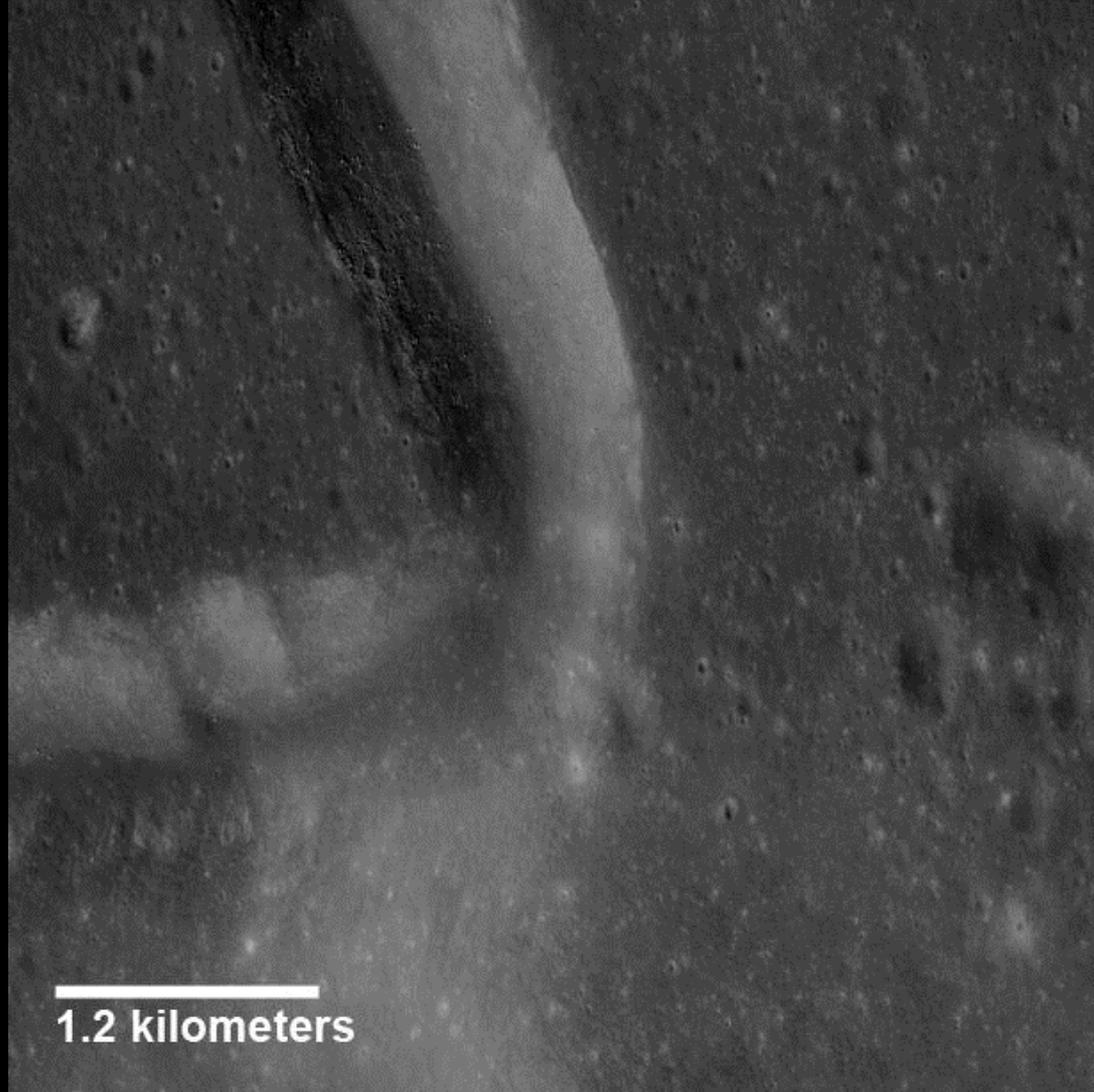


http://www.lpi.usra.edu/exploration/education/hsResearch/moon_101/moon101_1.jpg

Geologic Features

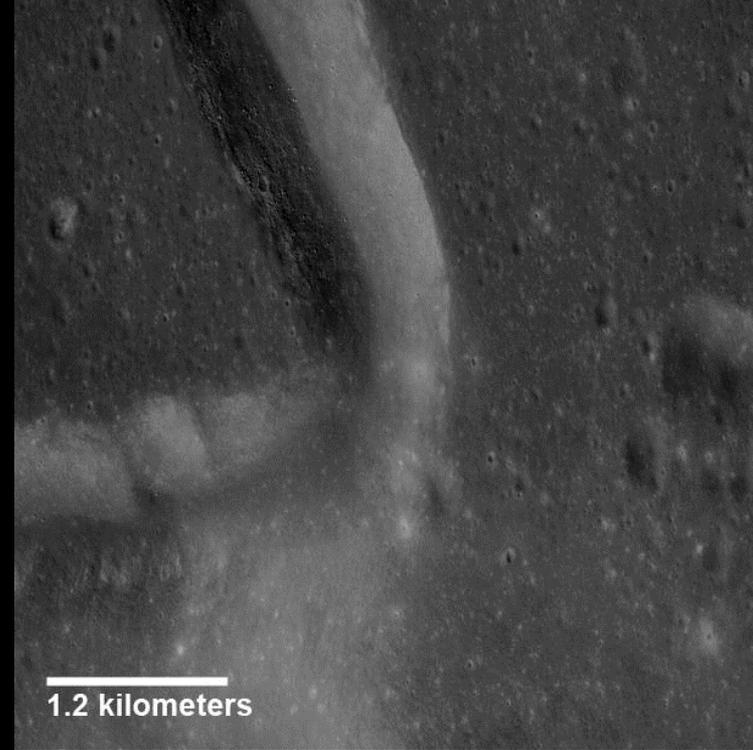
- Impact Craters
- Rille
 - Part of Image 3 Rille
- White Streak
 - Left by dark mantling deposits settling off of the nearby lunar highlands

Image 2



Relative Age

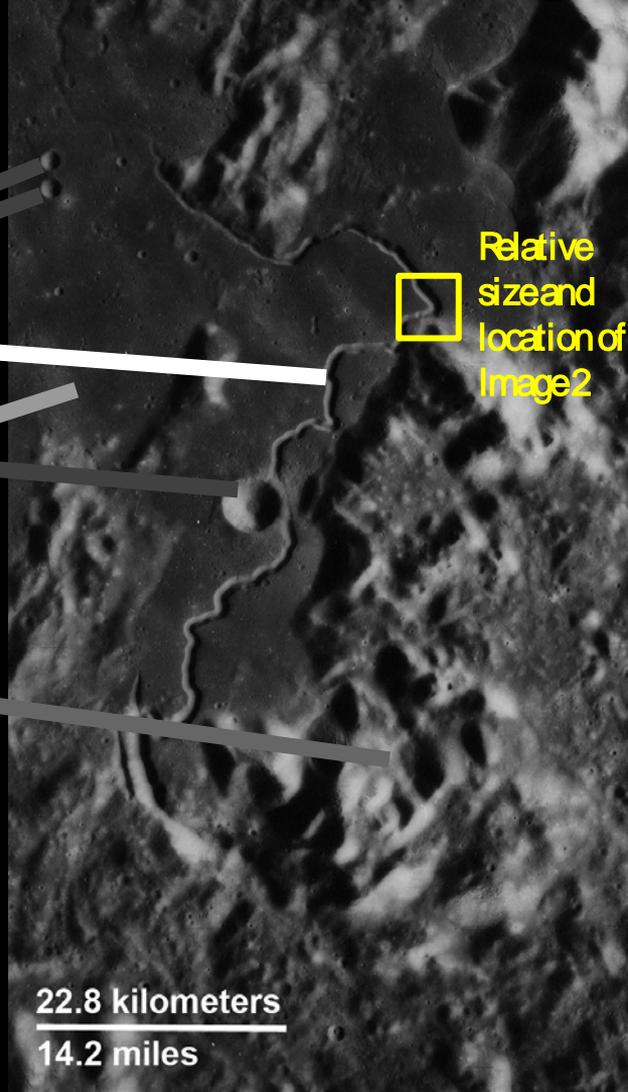
- Rille
- White Streak
- Surrounding Impact Craters
- Craters within craters



http://www.lpi.usra.edu/exploration/education/hsResearch/moon_101/moon101_2.jpg

Geologic Features

- Rille
- Simple Impact Craters
- Highlands
- Mare



Relative size and location of Image 2

22.8 kilometers
14.2 miles

Image 3

Relative Age

- Highlands
- Mare
- Rille
- Impact Craters



22.8 kilometers

14.2 miles

Geologic Features

- Lunar Highlands
- Lunar Mare
- Impact Craters
- Rilles

How did they form?

- Early structure from magma oceans
- Lava from impacts in thin crust
- Impacts from asteroids
- Collapsed lava tubes

Summary

Questions?