Surface Processes

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Surface Processes

- Surface Processes begin when the fundamental geologic processes (volcanism, cratering, tectonism, basin formation) end.
- Begin with pristine post-apocalyptic landscape.

Regolith

- Formation, character (microns to meters).
 - Physical disruption, thermal fatigue, crater ejecta
 - Physical properties depth, latitude, terrain
- Evolution Maturation
 - What happens with time?
 - exposure of fresh material from craters, landslides
 - aging (where's the boundary with space weathering?)

Cratering

- Blocks
- Melt flows
- Secondary fields

Volcanism (post mare?)

- IMPs
- Pyroclastics

Tectonism

• Deformation of the surface

Mass Wasting

• Landslides

Regolith interaction of Moon with space environment, solar wind implantation

Volatile transport into / out of regolith (He, H)

Remote Sensing and In Situ Sensing Techniques

- Active (e.g., radar) vs. passive (e.g., IR spectroscopy) remote sensing
- Drilling

Outstanding Questions