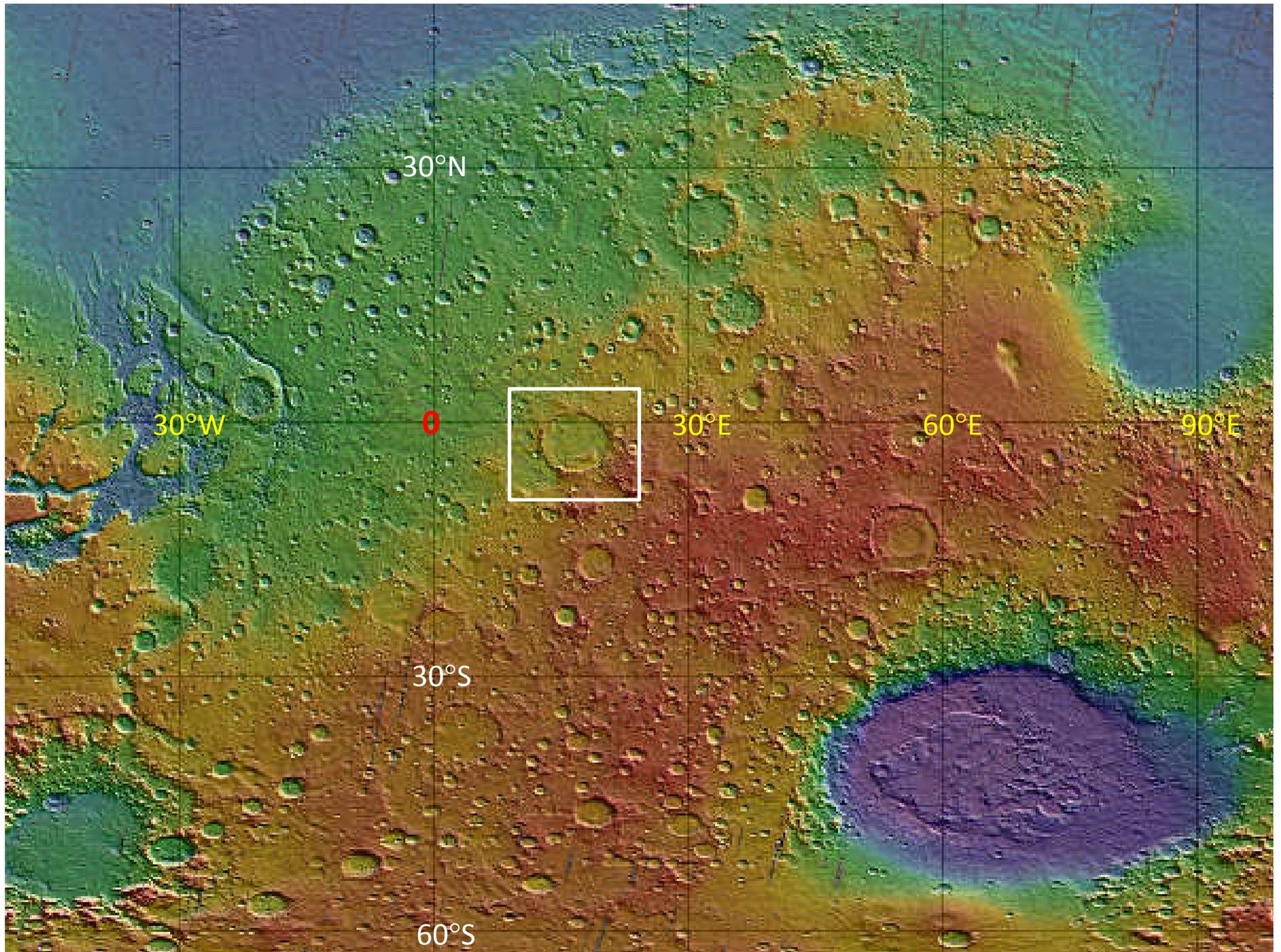


# SCHIAPARELLI CRATER

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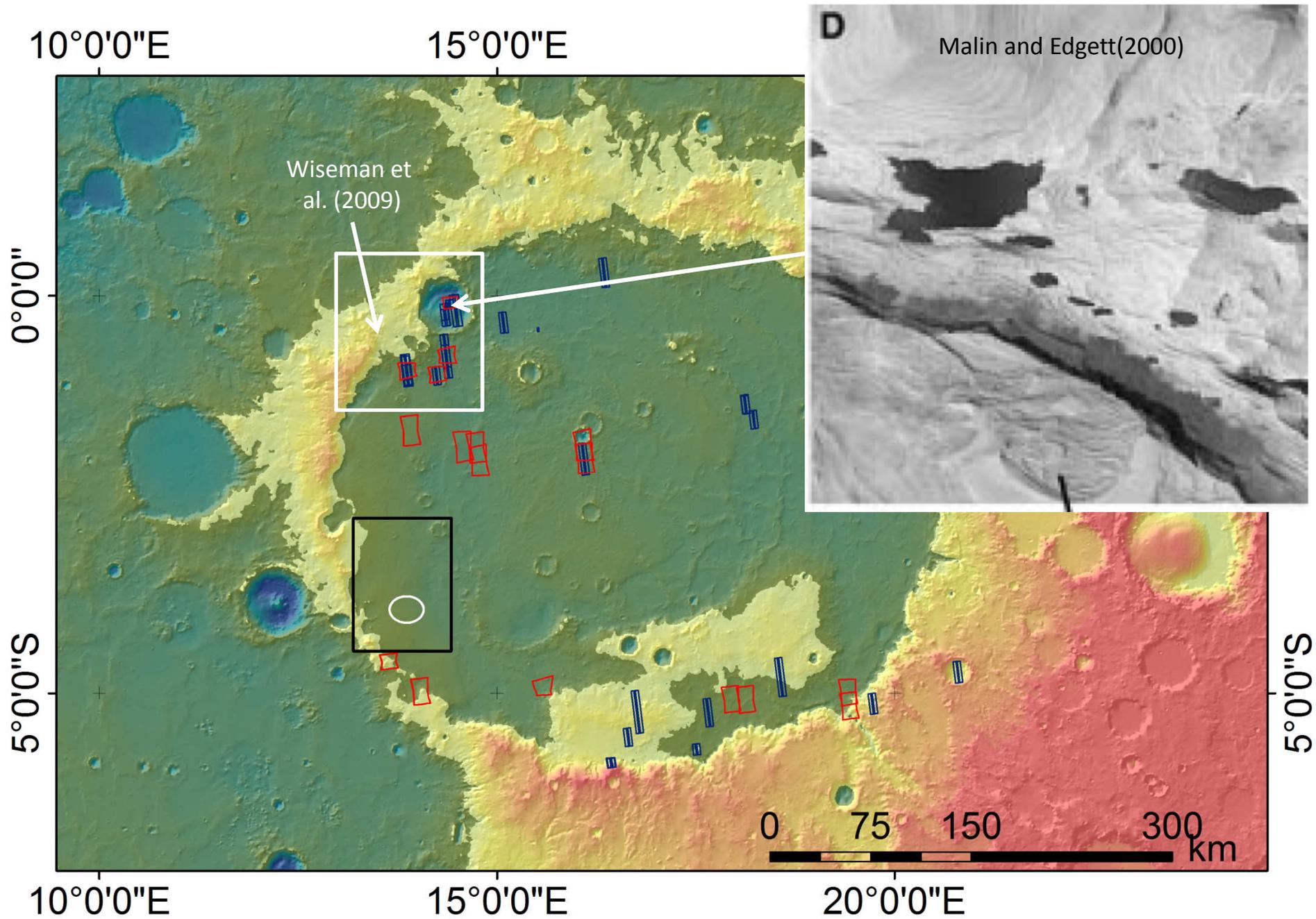
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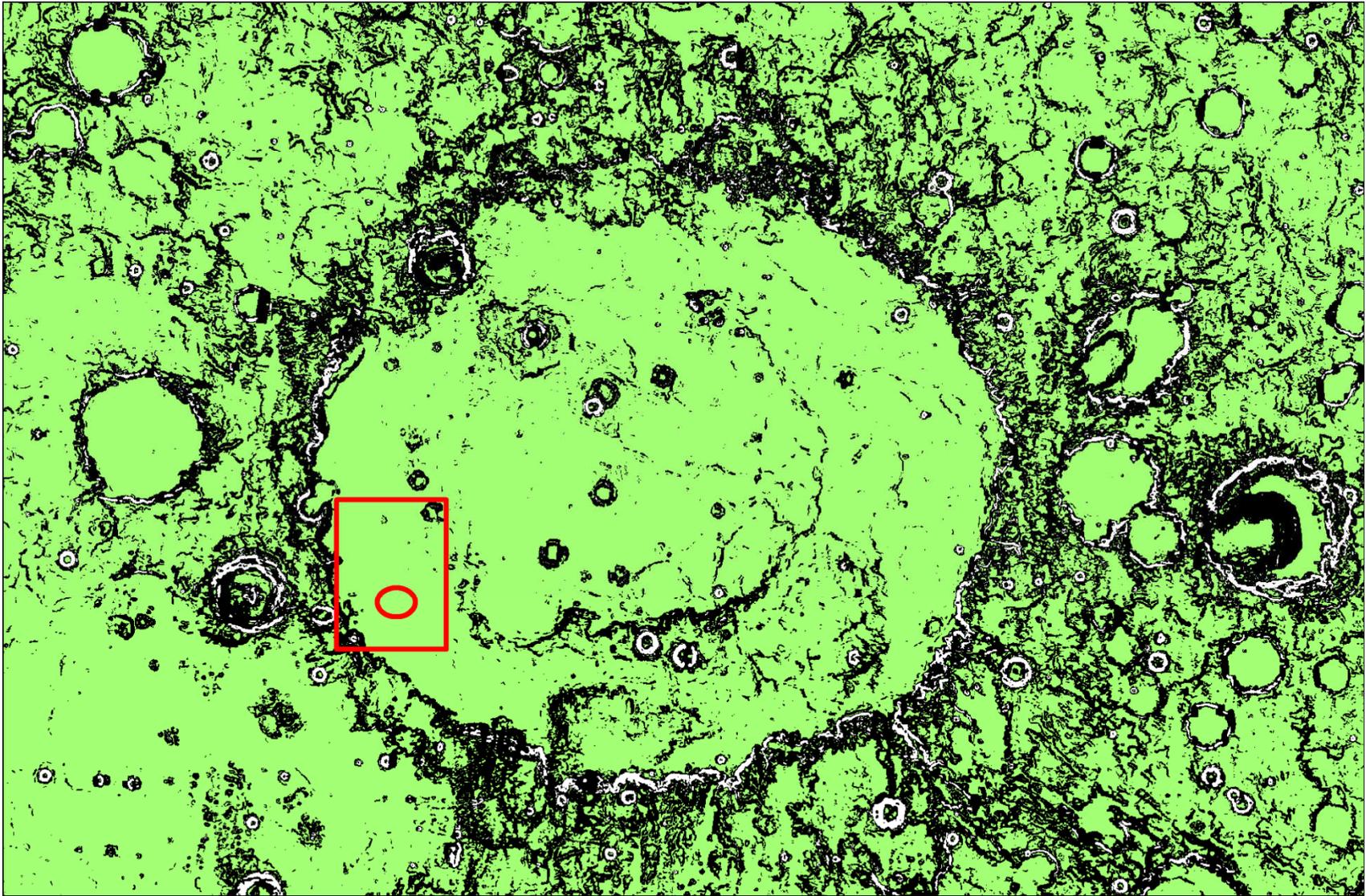


# Previous work (in / around Schiaparelli)

- Mouginis-Mark et al. (1981)
  - Geologic reconstruction
- Malin and Edgett (2000)
  - Light toned deposits
- Kass et al. (2003)
  - Landing conditions (“safe” landing)
- Wiseman et al. (2009; 2010)
  - Hydrated minerals (Schiaparelli; Meridiani)
- Feldman et al. (2011, and earlier papers)
  - Neutron data

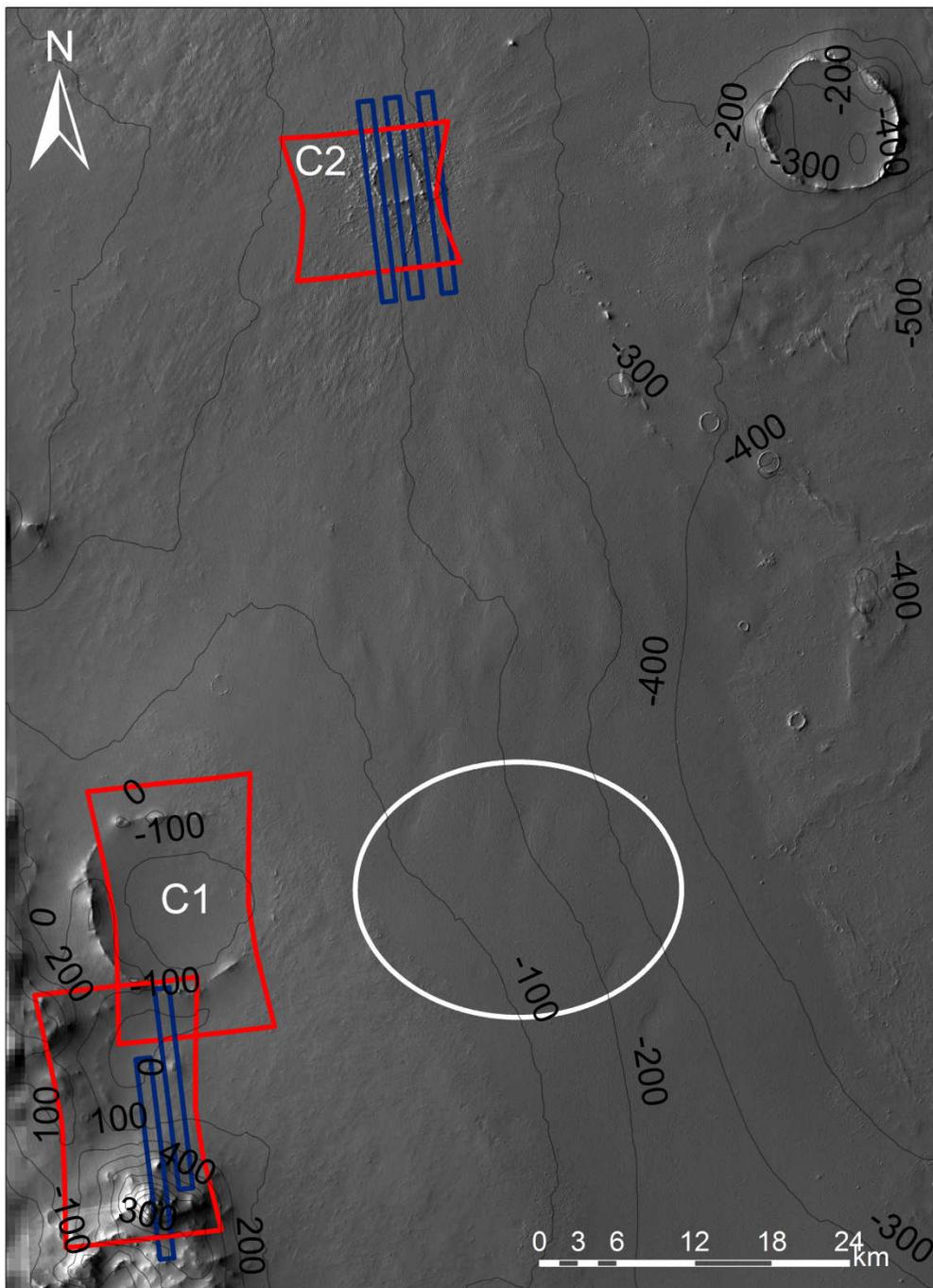


# SLOPES (°)



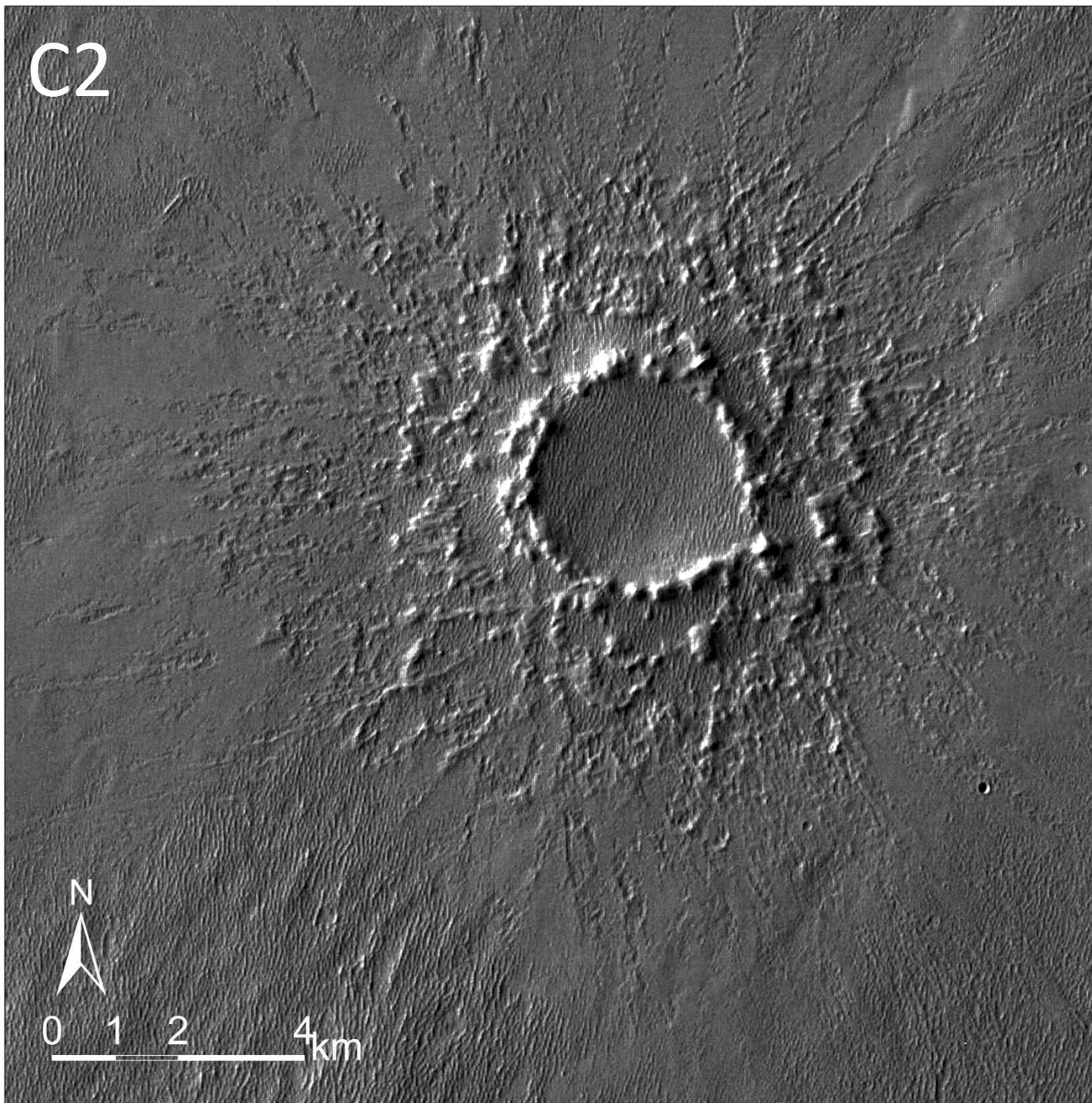
Site Name	SCHIAPARELLI CRATER
Landing Ellipse Center Coordinates: Latitude, Longitude	3.942°S, 13.875°E
MOLA elevation	<b>-0.150 km</b>
Prime Science and Sampling Targets	<ol style="list-style-type: none"><li>1. Hydrated minerals [Highest Priority]</li><li>2. Rock specimens from rim of Schiaparelli [Lowest Priority]</li></ol>
Distance of Science and/or Sampling Targets from Ellipse Center	Hydrated minerals – 50 km to N Rocks – 30 km to W

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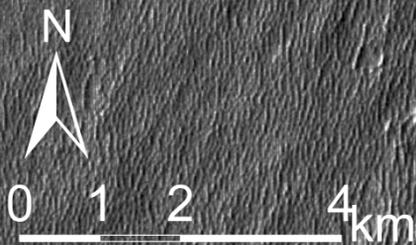
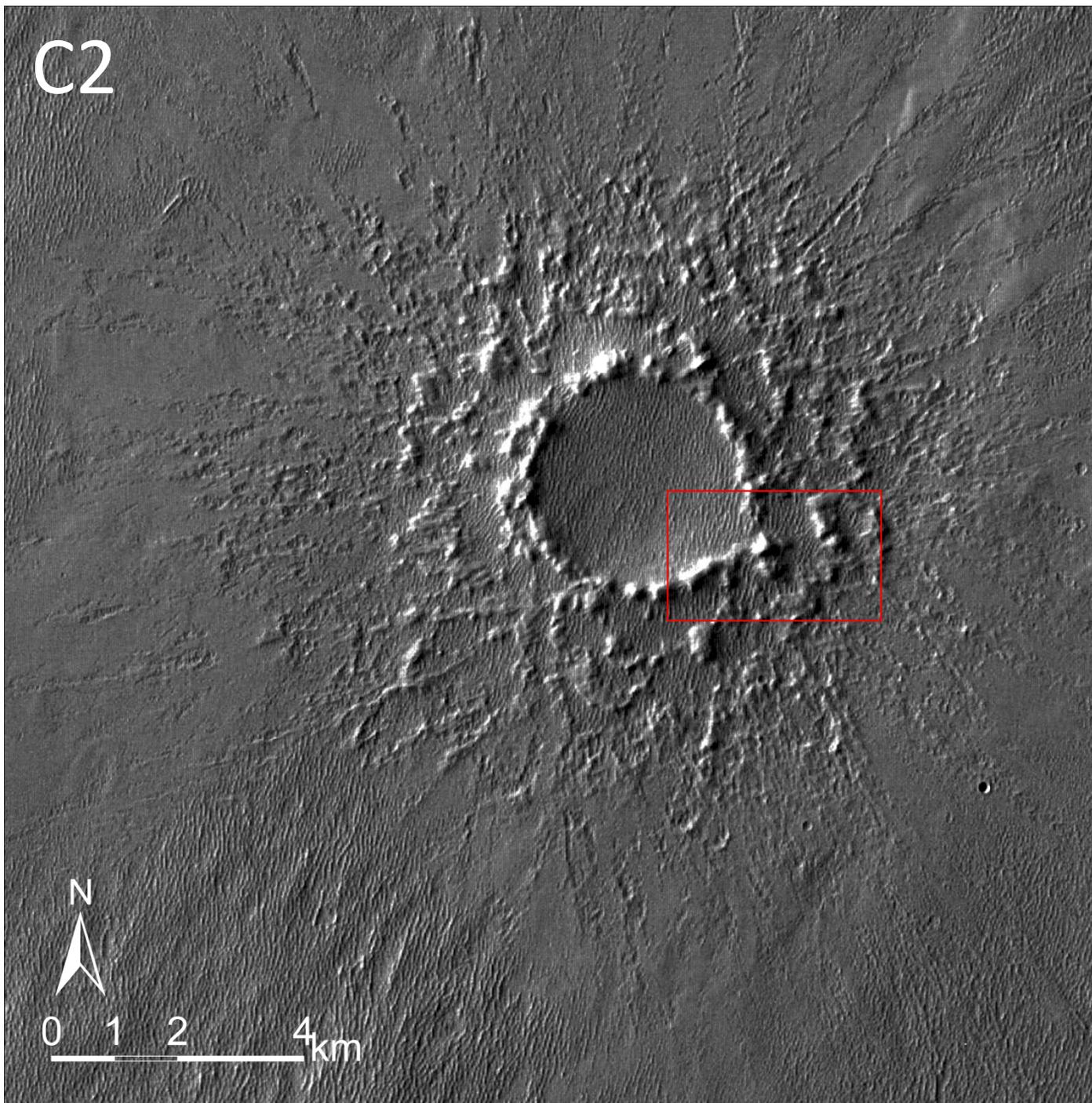


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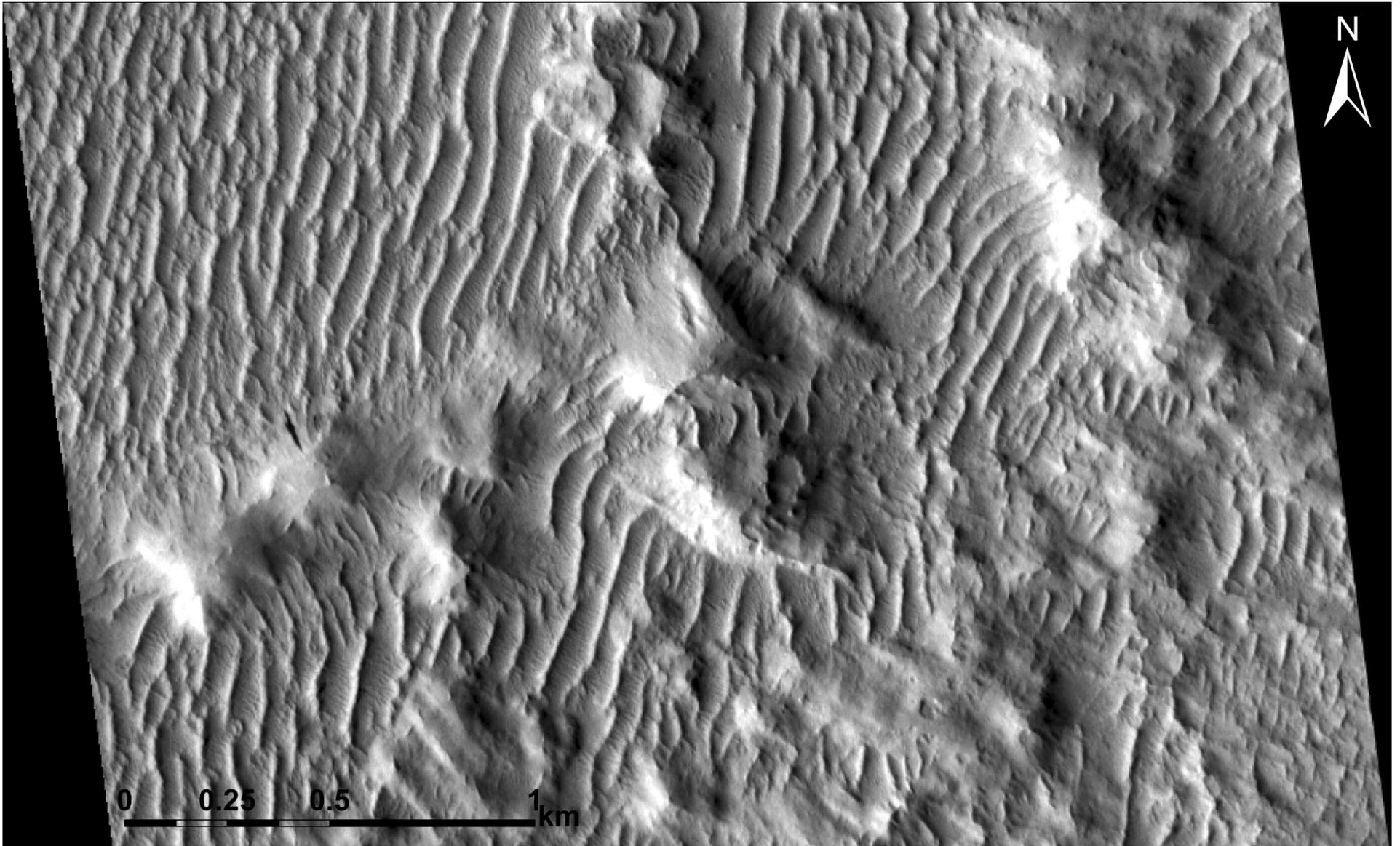
C2



C2



r0600047



# Rationale and Conclusion

- Long geological history
- Variety of lithotypes
- Evidence of near surface hydrated mineral deposits near surface
- “Safe” landing site
- Proximity of landing site to:
  - Outcrops of possible subsurface rocks (C2)
  - Rim of crater
    - Sampling of rim > Ancient geological history
    - Possible egress out of crater for sampling of surrounding area