The Volcanic Evolution of Syrtis Major Planum, Mars

Thesis

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Version: [not recorded]
Map Sheet 1: Geological Map of Syrtis Major Planum, Mars (1:2,000,000)

Description of map units

- **Surficial and Isidis basin formation**: Smooth infilling material and coarse gravelly bedload, mantled/pre-aged by crater fill deposits in a single sequence.
- **Amazonian dark ridge unit**: A dark ridge network mantling most of the eastern edge of Syrtis Major. Bright to mottled in daytime THEMIS; very bright in nighttime THEMIS signature.
- **Late Stage Volcanic Formation**: Volcanic ridges grade into and out of the complex, running sub-parallel to the edge. Commonly exposing layered deposits and rougher patches.
- **Ridges grade into and out of Late Stage Volcanic Formation**: Commonly exposing layered deposits and rougher patches.
- **Volcanic Plains Formation**: Hosts barchan dune field; rougher patches. Connected to Vpg and not part of the Tst.
- **Elongate tongues of material 10 km long**: Running sub-parallel to the edge and sometimes superposed by an impact crater.
- **Late Hesperian volcanic plains unit**: Fatally exposing layered deposits and superposes all other volcanic units.
- **Hesperian volcanic plateau unit**: Area with no distinct lava flow morphologies but clearly associated with 'Giant plateau materials and superposed by impact craters.
- **Noachian crater fill unit**: Known as remnants of a caldera ignimbrite.
- **Noachian lower plains unit**: Sometimes superposed by an impact crater.
- **Noachian upper plains unit**: Crater floors both superpose or have gradational contacts with the underlying unit.
- **Early Hesperian volcanic ridge unit**: Crater floors both superpose or have gradational contacts with the underlying unit.
- **Early Hesperian volcanic plains unit**: Crater floors both superpose or have gradational contacts with the underlying unit.
- **Late Hesperian lower Caldera floor (Nili/Meroe)**: Sometimes superposed by an impact crater.
- **Amazonian bright caldera volcanic units (Nili)**: Commonly exposing layered deposits and rougher patches.
- **Impacts Materials**: Many discrete lava flow morphologies are not necessarily of volcanic origin.
- **Impacts Materials**: Commonly onlaps all volcanic units.
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