The Volcanic Evolution of Syrtis Major Planum, Mars

Thesis

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Map Sheet 1: Geological Map of Syrtis Major Planum, Mars (1:2,000,000)

Description of map units:

- **Surface and Units Basis Formation**
- **Noachian lower plains unit**
- **Hesperian lower plains unit**
- **Amazonian early volcanic units (Nili/Meroe)**
- **Amazonian late volcanic units (Nili/Meroe)**
- **Surficial and Isidis basin formation**
- **Early Hesperian regional ridges**
- **Late Hesperian regional ridges**
- **Superposed unit**
- **Channel fill basalt**
- **Major conical mounds**
- **Major channel/Rille**
- **Wide flat-bottomed pits**
- **Long narrow linear depression**
- **Wide channels**
- **North East Fissure Zone**
- **Medial channels**
- **Impact Materials**
- **System of sub-radially distributed fissure vents, open**
- **Exposed core of welded Intra-crater ignimbrite.**
- **Exposed core of welded Intra-caldera ignimbrite.**
- **Vent proximal lava surfaces.**
- **System of sinuous channels and the eHvp.**
- **Sinuous, branching flat-topped vents.**
- **Major volcanic material. Lower Planum bright unit**
- **Late Hesperian Lower Planum bright unit**
- **late Hesperian Lower Planum hummocky unit**
- **Surficial and Isidis basin formation**
- **Volcanic Plains Formation**
- **Noachian lower plains unit**
- **Volcanic plains of undetermined age.**
- **Amazonian early volcanic units (Nili/Meroe)**
- **Amazonian late volcanic units (Nili/Meroe)**
- **Hartman [2004] chronology function as defined within Craterstats [Michael and Neukum 2010].**

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