The Volcanic Evolution of Syrtis Major Planum, Mars

Thesis

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Additional features include:

- **Linear ridges of bright material**
- **Tube networks.**
- **Linear ridges of bright material**
- **Semi-tessellating polygonal networks.**
- **Areas which are directly under the eHvp, but are not part of the crater.**
- **Degraded gullies.**
- **Lobate ridges.**
- **Phoenix-distributed fissure vents, open fissure networks.**
- **Volcanic plains.**
- **Distinct THEMIS multispectral tongue.**
- **Material associated with the crater.**
- **Volcanic plains.**
- **Central caldera complex and adjacent wrinkle ridge phases.**
- **Early volcanic material or flows.**
- **Many small tumulus-like structures.**

**Description of map units**

- Dark in night-time THEMIS signature.
- Areas close to the calderas or central volcanoes are mantled/degraded by crater ejecta, and multiple, degraded gullies.
- Areas with no distinct lava flow wasting makes gradational contacts.
- Very early volcanic material or flows.
- Small, late-stage fissure vents and networks.
- Superposes all other volcanic material; walls of small, late-stage fissure vents.
- Small, late-stage fissure vents.
- Linear gullies incised by contributory channel network.
- Most are mantled by degraded, thin pahoehoe lavas.