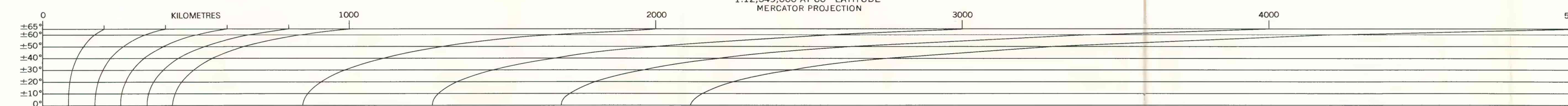


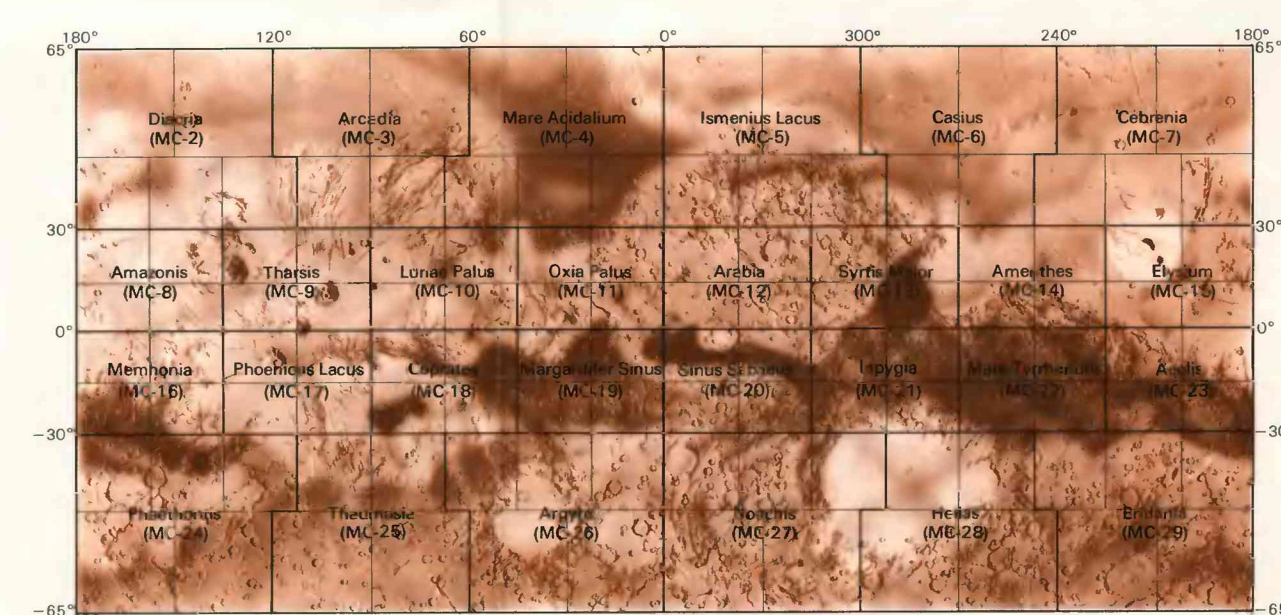
Base from U.S. Geological Survey I-940, 1975

SCALE 1:25,000,000 AT 0° LATITUDE
1:12,549,000 AT 60° LATITUDE
MERCATOR PROJECTION



EXPLANATION

- Province boundaries are shown schematically; names derived from geographic setting or nearby topographic feature. Major volcanic shields are outlined; volcanic plains units lacking distinctive landforms are omitted. Provinces identified by Mars Chart number (MC) (Batson and others, 1979) and letter identifying individual feature or province within chart area; second number denotes adjacent MC if overlap occurs. Letters A through D adjacent to vent symbols in Thaumasia province (25A-25D) correspond to landforms shown in figures 43A through 43D, respectively. Photographs show representative examples of principle landform(s) in each volcanic province (most at greatly reduced scale).
- Utopia Planitia**
- Province outline
 - Shield volcano
 - Aureole materials, variously textured
 - Low shield volcano with summit crater—Small, symmetrical, or elongate, with low crater-diameter-to-base-diameter ratio
 - Flat shield volcano (Chryse-type low shield)—Broad, flat pancake-like feature; summit crater inconspicuous or absent
 - Summit caldera
 - Cone with crater—Symmetrical or asymmetric
 - Dome—Cratered or uncratered, with convex flanks
 - Tablemountain—Steep-sided mesa, with or without summit cone or crater
 - Butte or knob, cratered or uncratered
 - Possible volcanic edifice or vent—Commonly rugged morphology; mainly in highlands province
 - Fissure with levees or other evidence of venting
 - Narrow, curvilinear ridge of cones or other positive features
 - Long, narrow, dike-like ridge
 - Collapse pit
 - Apparent eruptive center—Flow(s) emanating from localized but poorly defined area within lava plains
 - Well-defined lava tube (t), flow (f), channel (c), or rille (r)



QUADRANGLE LOCATIONS

VOLCANIC PROVINCES OF MARS, SHOWING GEOGRAPHIC DISTRIBUTION OF ALL VOLCANIC AND EQUIVOCALLY VOLCANIC FEATURES, AS DEFINED BY INDIVIDUAL LANDFORMS OR CLUSTERS OF LANDFORMS

By
Carroll Ann Hodges and Henry J. Moore