

NOTES ON BASE
This map sheet is one of a series covering the entire surface of Mars at nominal scales of 1:25,000,000 and 1:5,000,000 (Batson, 1973; 1976). The major source of map data was the Mariner 9 television experiment (Masursky and others, 1973).
ADOPTED FIGURE
The figure of Mars used for the computation of the map projection is an oblate spheroid (flattening of 1/192) with an equatorial radius of 3393.4 km and a polar radius of 3373.7 km. This is not the height datum which is defined below under the heading "Contours".

PROJECTION
The Mercator projection is used for this sheet, with a scale of 1:5,000,000 at the equator and 1:4,336,000 at lat 30°. Longitudes increase to the west in accordance with the convention of the International Astronomical Union (IAU, 1971). Latitudes are areographic (de Vaucouleurs and others, 1973).

CONTROL
Planimetric control is provided by photogrammetric triangulation using Mariner 9 pictures (Davies, 1972; Davies and Arthur, 1973) and the radio-tracked position of the spacecraft. The first meridian passes through the crater Airy (04 05 51.9" S) within the crater Airy. No simple statement is possible for the elevation, but local consistency is 5-10 km.

MAPPING TECHNIQUE
A series of mosaics of Mercator projections of Mariner 9 pictures was assembled at 1:5,000,000. Shaded relief was copied from the mosaics and portrayed with uniform illumination with the sun to the west. Many Mariner 9 pictures besides those in the base mosaic were examined to improve the portrayal of central and other, 1973; Great Outings, 1975; Ings and Bridges, 1976). The shading is not generalized and may be interpreted with newly photogrammetric reliability (Batson, 1973).
Shaded relief analysis and representation were made by Susan L. Davis.

CONTOURS
Since Mars has no sea and hence no sea level, the datum (the 0 km contour line) for altitudes is defined by a gravity field described by spherical harmonics of fourth order and fourth degree (Jordan and Lovell, 1973) combined with a 0.1 millibar atmospheric pressure surface derived from radio-occultation data (Kliore and others, 1973; Krassner, 1975; Wu, 1975).
The contour lines on most of the Mars maps (Ola, 1975) were compiled from Earth-based radar determination (Downs and others, 1971; Ings and Bridges, 1976). The contours were also derived from Mariner 9 instrumentations, including the ultraviolet spectrometer (Hord and others, 1974), infrared interferometer spectrometer (Conrath and others, 1973), and stereoscopic Mariner 9 television pictures (Wu and others, 1973).
Formal analysis of the accuracy of topographic elevation information from Mariner 9 television pictures is in progress. The estimated vertical accuracy of each source of data indicates a probable error of 1-2 km.

NOMENCLATURE
All names on this sheet are approved by the International Astronomical Union (IAU, 1974; 1977).
MC-8: Abbreviation for Mars Chart 8.
M SM 15/158 G: Abbreviation for Mars Series, 5,000,000 scale; center of sheet, 15° latitude, 158° longitude; geologic map.

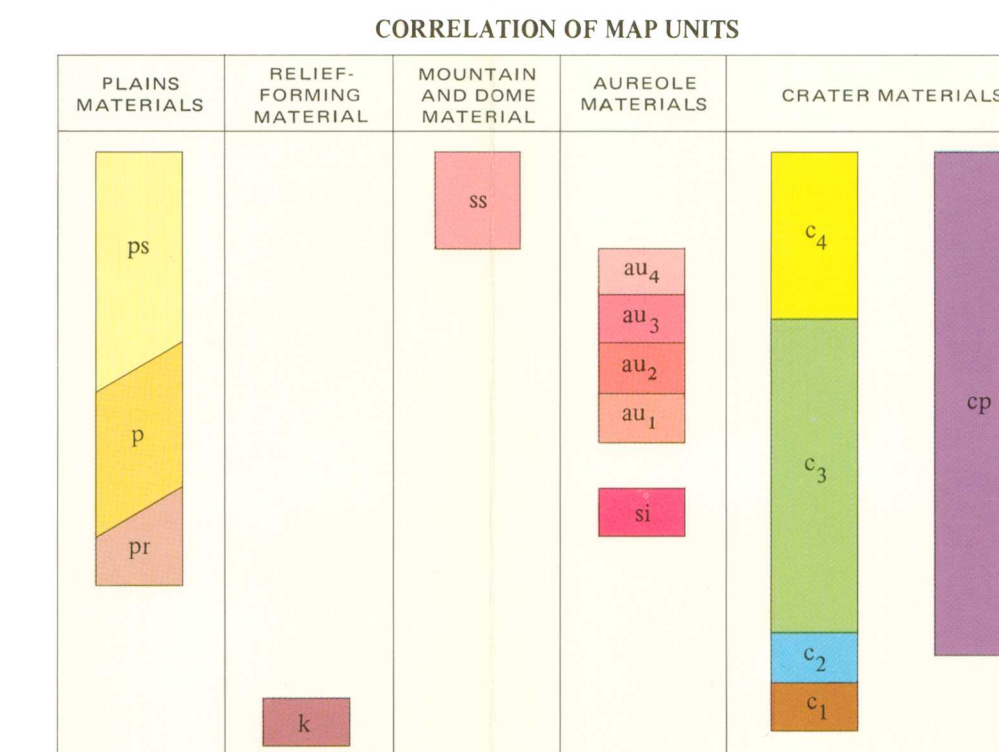
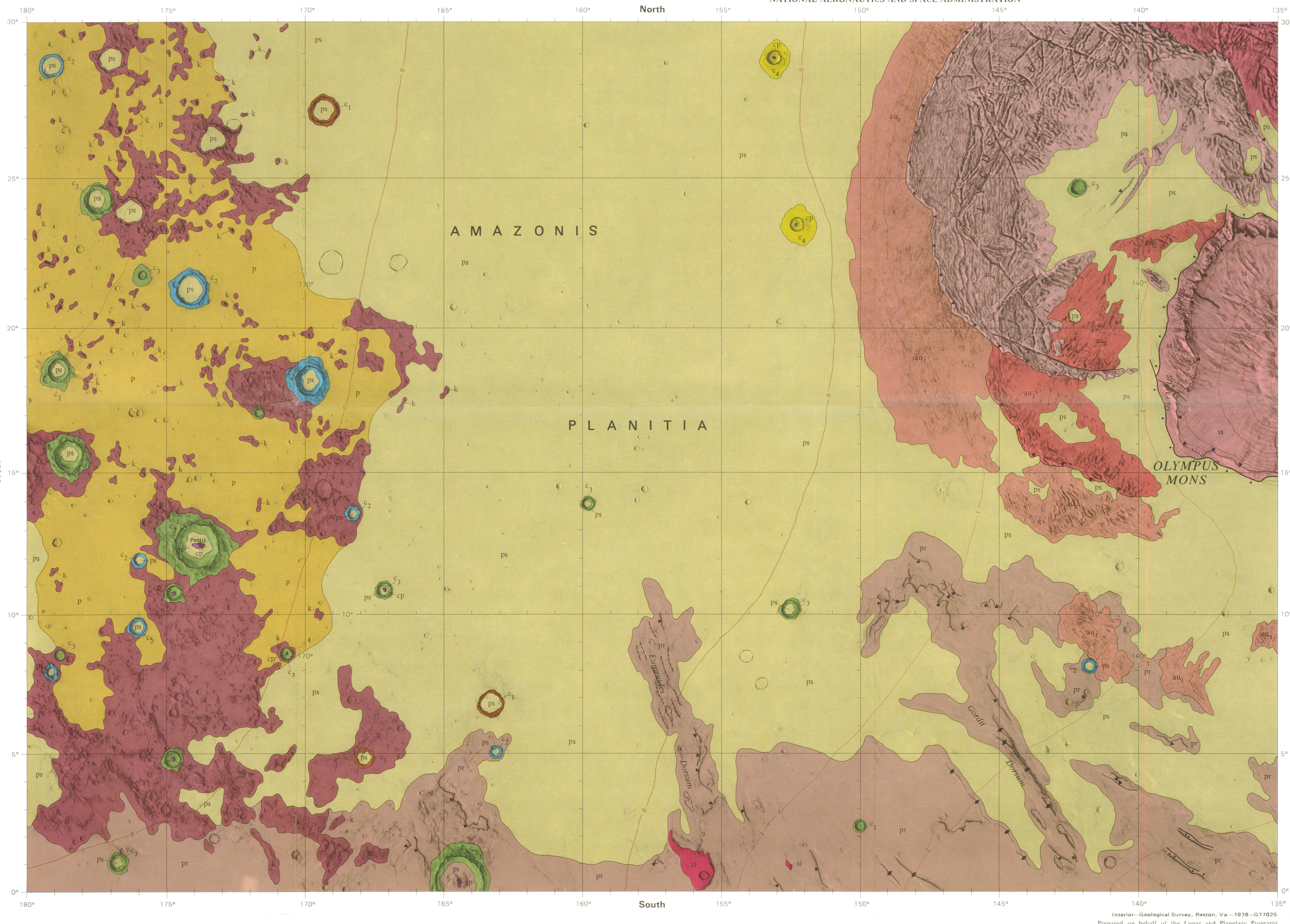
REFERENCES
Batson, R. M., 1973, Cartographic products from the Mariner 9 mission: *Jour. Geophys. Research*, v. 78, no. 20, p. 4424-4435.
—, 1976, Cartography of Mars, 1973: *The American Cartographer*, v. 3, no. 1, p. 57-63.
Chen, Y. P., and others, 1975, Martian topography derived from occultation, radar, spectral, and optical measurements: *Jour. Geophys. Research*, v. 80, no. 20, p. 2467-2474.
Conrath, R. J., Curran, R. K., Hand, R. A., Kunde, V. G., Mappire, W. W., Pearl, J. C., Pirraglia, J. A., Welker, J., and Burke, T. E., 1973, Atmospheric and surface properties of Mars obtained by infrared spectroscopy on Mariner 9: *Jour. Geophys. Research*, v. 78, no. 20, p. 4016-4021.
Davies, M. E., 1973, Mariner 9: Primary control net: *Photogram. Eng.*, v. 39, no. 12, p. 1287-1300.
Davies, M. E., and Arthur, D. W. G., 1973, Martian surface coordinates: *Jour. Geophys. Research*, v. 78, no. 20, p. 4355-4364.
Downs, G. S., Goldstein, M., Green, R. R., and Morris, G. A., 1971, Mariner observations, a preliminary report: *Science*, v. 174, no. 4016, p. 1324-1327.

Green, W. B., Jessen, P. L., Krizan, J. E., Ruiz, R. M., Schwartz, A. A., and others, 1973, Mariner 9: Remote sensing instruments and Mariner 9 television images of Mars: *Applied Optics*, v. 14, no. 1, p. 18-24.
Hord, C. W., Simmons, K. E., and McLaughlin, L. K., 1974, Mariner 9 ultraviolet spectrometer experiment: Pressure altitude measurements from Mars: *Jour. Geophys. Research*, v. 79, no. 2, p. 292-302.
Ings, J. L., 1972, Principles of lunar illumination: *Aeronaut. Chart and Inf. Center Ref.*, 07-23, 1, 40 p.
Ings, J. L., and Bridges, P. M., 1976, Applied photogrammetry: *Jour. Geophys. Research*, v. 81, no. 2, p. 749-760.
International Astronomical Union, Commission 16, 1971, Physical study of planets and satellites, Proc. 14th General Assembly, 1970: *Internat. Astron. Union Trans.*, v. XIVB, p. 128-137.

—, 1974, Physical study of planets and satellites, Proc. 16th General Assembly, 1973: *Internat. Astron. Union Trans.*, (in press).
Jordan, F. P., and Lovell, R. K., 1973, Mariner 9: an instrument of dynamical science: Presented at AAS/AIAA Astrodynamics Conf., 1973, Houston, Texas, 1973.
Kliore, A. J., Jeldho, Gunnar, Seidel, B. L., Sykes, M. J., and Wolcwyn, P. M., 1973, 3-band radio occultation measurements of the atmosphere and topography of Mars: *Jour. Geophys. Research*, v. 78, no. 20, p. 4331-4351.
Levinthal, E. C., Green, W. B., Cuts, J. A., Jahelka, E. D., Johnson, R. A., Sandak, R. J., Seldman, J. B., Young, A. T., and Soderblom, L. A., 1973, Mariner 9—Image processing and products: *Icarus*, v. 18, no. 1, p. 1-104.
Masursky, Harold, Batson, R. M., Borgeson, W. T., Carr, M. H., McCauley, J. F., Milton, D. J., Widney, R. L., Williams, D. J., Murray, R. C., Horeau, N. H., Langdon, R., Sharp, R. V., Thompson, T. W., Bridges, G. A., Chandrasey, P. L., Shipley, E. N., Sagan, Carl, Folk, R. B., Lederer, Joshua, Levinthal, E. C., Hartmann, W. K., McCord, T. B., Smith, B. A., Davies, M. E., de Vaucouleurs, G. D., and Leovy, R. S., 1970, *Geology of Mars*: *Jour. Geophys. Research*, v. 75, no. 12, no. 1, p. 10-45.

Petengill, G. H., Rogers, A. E. E., and Shapiro, I. L., 1971, Mariner craters and a scarp as seen by radar: *Science*, v. 174, no. 4016, p. 1321-1324.
de Vaucouleurs, G. D., Davies, M. E., and Strum, F. M., Jr., 1973, Mariner 9 areographic coordinate system: *Jour. Geophys. Research*, v. 78, no. 20, p. 4395-4404.
Wu, S. S. C., 1975, Topographic mapping of Mars: *U.S. Geol. Survey Interagency Rept.*, 63, 197 p.
Wu, S. S. C., Schafer, F. J., Nakata, G. M., Jordan, Raymond, and Blanton, R. K., 1973, Photogrammetric evaluation of Mariner 9 photographs: *Jour. Geophys. Research*, v. 78, no. 20, p. 4405-4410.

Wu, S. S. C., Schafer, F. J., Nakata, G. M., Jordan, Raymond, and Blanton, R. K., 1973, Photogrammetric evaluation of Mariner 9 photographs: *Jour. Geophys. Research*, v. 78, no. 20, p. 4405-4410.



DESCRIPTION OF MAP UNITS

PLAINS MATERIALS
ps SMOOTH PLAINS MATERIAL—Covers almost 50 percent of the quadrangle; flat, light, featureless surface at high and low resolution. Frequency distribution of craters > 3 km diameter less than 100/10⁶ km²; crater density least in central part of quadrangle. *Interpretation:* Relatively thick volcanic and eolian deposits, probably thickest in central part of quadrangle. Extreme youth indicated by low crater population.
p ROLLING PLAINS MATERIAL—Resembles smooth plains material (unit ps) but has greater crater population ranging from about 100-200/10⁶ km². In places subparallel topography, including hills and fractures, visible on high-resolution photographs. *Interpretation:* Volcanic and eolian deposits, older and/or thinner than unit ps.
pr ROLLING PLAINS MATERIAL—Occurs mostly on the margin of the southern part of the Amazonis plains, smooth, unscarp, moderately cratered, unfractured appearance. Lobate overlapping scarps. Crater density less than plains material in Amazonis quadrangle but similar to plains material in other areas. *Interpretation:* Mostly lava flows thinly covered by eolian deposits.

RELIEF-FORMING MATERIAL
k KNOBBY MATERIAL—Consists of rounded to subangular, generally equidimensional hills forming rugged upland terrain. Forms part of rims and walls of craters older than c₃. High-resolution photographs show triangular faceted faces and elongate shapes resembling yardangs as well as conical forms. Summit craters on conical forms rare. Highest crater density of any unit in quadrangle, ranges from about 200-300/10⁶ km². *Interpretation:* Remnants of ancient cratered terrain, dissected by faults and fractures and embayed by all plains units.

MOUNTAIN AND DOME MATERIAL
ss SPARSELY CRATERED SHIELD MATERIAL—Forms the large shield volcano, Olympus Mons. The flanks of the shield slope 4°-5° and have a fine radial pattern of grooves and ridges that terminate abruptly at the scarp marking the edge of the shield. High-resolution pictures show the radial pattern to be composed of intersecting and anastomosing low ridges, narrow channels, and elongate fingerlike structures. Some of the larger ridges have sinuous channels along their apex. Slight breaks in the slope of the flanks of the volcano form a pattern of rounded terraced segments. A summit crater on the flanks of the shield are made by lava flows; the summit crater is a caldera. Olympus Mons is a shield volcano made of low-viscosity, probably basaltic lava. The small number of superimposed craters on the flanks of the volcano suggest a relatively young age, possibly 200 million years (Carr, 1975) if lunar and Martian rates of crater accumulation are comparable.

AUREOLE MATERIALS
Occur as several overlapping sheets of distinctly textured and lineated terrain that form an asymmetric apron of aureole around Olympus Mons. They extend more than 1500 km northwest from the center of Olympus Mons but only 400 km east. Four separate deposits have been recognized in the Amazonis quadrangle; in addition others may be present. Each deposit can be distinguished from adjacent ones by the length and width of the ridges and the orientation of the surface features. The absence of small superimposed craters suggests a very young age, perhaps only slightly older than Olympus Mons. *Interpretation:* A series of overlapping, very fluid lava flows extruded prior to the construction of Olympus Mons but associated with the volcanism that produced the large shield volcano. Subsequent eolian erosion has modified the surface forms of the deposits and in places has stripped an overlying deposit to expose the underlying one.
au₄ AUREOLE DEPOSIT UNIT 4—Lies on and overlaps all other aureole deposits; partly buried by the smooth plains material. The central and southeastern parts of the nearly circular deposit form a shallow basin filled with smooth plains material. The surface is characterized by a series of ridges and grooves that roughly parallel the outer boundary of the deposit. Individual ridge segments are from 10 to 50 km long and form an anastomosing pattern that varies in length and width over the deposit. The ridges are closely spaced in the western and northwestern areas (32 ridges per 100 km) and further apart in the southwestern exposures (16 ridges per 100 km). The ridges are estimated to be as much as 1 km high. Their pattern is broken by several sets of intersecting line linear grooves that may be grabens or possibly fractures with little displacement. Two major sets of grooves trend from N 20° W to N 30° W and N 65° W to N 70° W, and another set trends N 45° E.
au₃ AUREOLE DEPOSIT UNIT 3—Occurs in northeast corner of the quadrangle where it is covered by unit au₄ and rests upon unit au₁. At the contact of unit au₃ with unit au₄ the ridges of unit au₃ trend generally N 60° W whereas the ridges of unit au₄ trend 10° E to N 20° E. The surface characteristics of unit au₃ are similar to those of unit au₄ in magnitude, and except for the difference in trend of the ridges at the contact of the two units, they are difficult to differentiate.
au₂ AUREOLE DEPOSIT UNIT 2—Occurs west of Olympus Mons and is covered in part by unit au₄ and overlaps unit au₁. The age relation between au₂ and au₁ is not known as a contact between the two units is not exposed. Both deposits (units au₂ and au₁) are partly covered by unit au₄ and both rest on unit au₁. However, the surface features of unit au₂ show a greater amount of degradation and are of a smaller scale than those of unit au₁; therefore, unit au₂ is considered an older deposit than unit au₁. The south half of unit au₂ is mostly buried beneath the smooth plains material, but the terminal edge of the deposit stands out in clear relief. The ridges that form the edge of the deposit are at an acute angle to the trend of ridges of the underlying unit au₁. The north half of unit au₂ is partly covered by au₄, but an expression of the terminal edge of au₂ can be seen in the au₄ deposit as a slight crescentic ridge and valley.
au₁ AUREOLE DEPOSIT UNIT 1—The oldest and most extensive of the aureole deposits and is overlain by all other aureole deposits. The full extent of unit au₁ is not known as smooth plains material laps upon and buries the outer reaches of the deposit. Surface features differ from overlying deposits mainly in scale and are characterized by sets of anastomosing ridges and aligned hills and knobs as much as 10 km long; these features are aligned roughly with the trace of the outer edge of the deposit. Where they were exposed, the ridges are closely spaced, approximately 30 to 40 ridges per 100 km. High-resolution pictures (DAS 6232193) of the ridges show aerodynamic shapes similar in form to terrestrial yardangs.

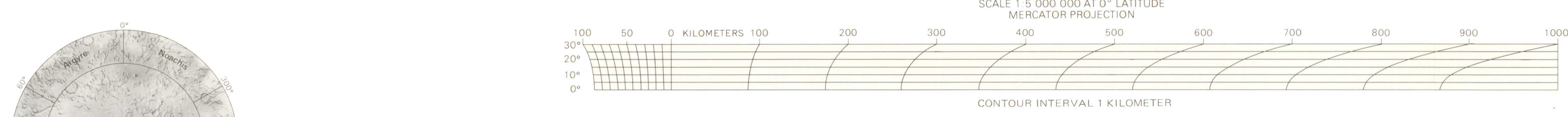
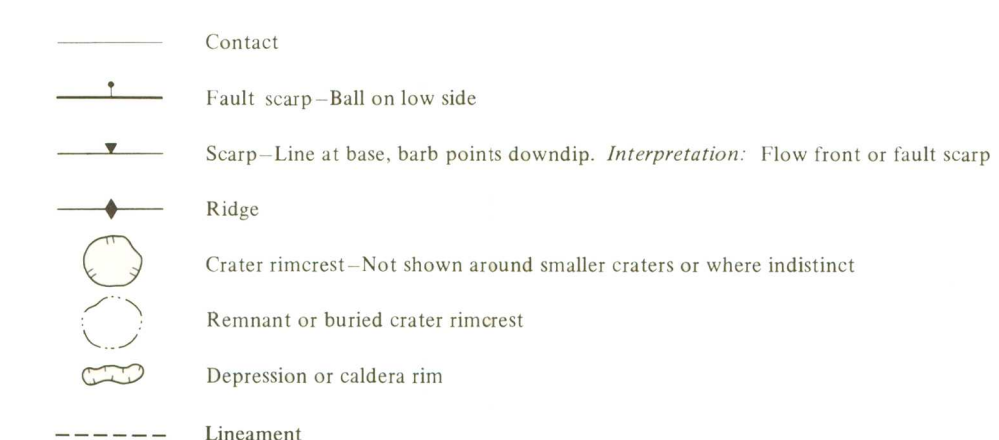
IRREGULAR SHIELD MATERIAL—Forms irregular shaped, convex upward structures with summit craters. Occurs in the rolling plains material in the southern part of the quadrangle. In high-resolution pictures surface appears rough with small knobs and grooves along the margins. *Interpretation:* Volcanic deposits, probably basaltic lavas. May be one of many vents or sources of the rolling plains material.

CRATER MATERIALS
Craters are classified according to relative age on the basis of their morphologic characteristics. Craters less than 20 km diameter are not mapped. Most craters in the following categories are believed to be of impact origin.
MATERIALS OF SHARP-RIMMED CRATERS—Rims complete, raised and clearly identifiable hummocky rim material extending at least one crater diameter from center of crater. Central peaks present and conspicuous.
MATERIALS OF RIMMED CRATERS—Rims complete, raised and rough appearing where rim is > 30 km. Floors lower than adjacent terrain; rough in craters < 30 km, otherwise well smoothed. Central peaks present and conspicuous.
MATERIAL OF SHALLOW CRATERS—Rims similar to c₂ craters but partly consist of knobby material (unit k). Floors smooth, flat, lower than adjacent terrain. Central peaks small or absent.
MATERIAL OF HIGHLY DEGRADED CRATERS—Rims incomplete; consist in large part of unit k. Floors like those of c₂ craters but about same elevation as adjacent terrain. Central peaks absent.
CENTRAL PEAK MATERIAL—Prominent hill near centers of c₁ and c₂ craters and some c₃ craters. *Interpretation:* Brecciated crater floor uplifted by rebound during shock decompression following compressive stage of impact.

GEOLOGIC HISTORY

The geologic history of the Amazonis quadrangle, interpreted from the stratigraphic relations of the various mapped rock units, began with the erosion of ancient cratered terrain to form the knobby material. This material probably represents remnants of densely cratered and hilly terrain that developed early in the history of Mars during a period of intense meteorite bombardment. After the decline of the high impact flux, there was a long interval of erosion and degradation of the cratered terrain, with subsequent development of the knobby terrain. Many of the rim deposits of the old craters survive only as vague circular arrangements of knobs. The next major event was the flooding of the old cratered and knobby terrain in the southern regions of the map area by a thick series of basalts that forms the rolling plains. The undulatory character of the rolling plains and some of its ridges and scarps may reflect the buried topography of the old cratered plains. The emplacement of the rolling plains material was followed by a period of intense eolian activity during which the rolling plains and knobby terrain was covered and buried in places under a blanket of eolian deposit that forms the smooth and rolling plains material. Prior to the deposition of the smooth plains material and prior to the construction of Olympus Mons, there began an extended period of volcanism along the east margin of the basin, centered in the area of Olympus Mons. A succession of very fluid lava flows spread as much as 1500 km northward from the fissures and conduits of the volcanic center. The younger flows were perhaps a little more viscous than the oldest one, extending less distance from their source. The volcanic activity was probably increasingly confined to one center of volcanism with the subsequent construction of Olympus Mons. As the huge volcano continued to grow, the surface sagged around the volcano, locally forming a shallow basin. A series of intersecting fractures developed around the outer margins of the shield. The last episode of volcanic activity of Olympus Mons probably was preceded by an uplift of the entire volcano along the previously developed fracture system. This uplift possibly was due to an expansion of the magma chamber beneath the volcano, perhaps analogous to the extension of terrestrial volcanoes observed prior to eruption but on a vastly different scale. The scarp that was formed by the uplift has been modified and partly buried in some parts by subsequent volcanic and eolian activity.

REFERENCES
Carr, M. H., Masursky, Harold, and Saunders, R. S., 1974, A generalized geologic map of Mars: *Jour. Geophys. Research*, v. 78, p. 4031-4036.
Carr, M. H., 1975, Geologic map of the Tharsis quadrangle of Mars: *U.S. Geol. Survey, Misc. Geol. Inv. Map* J-893.
—, 1976, The volcanoes of Mars: *Sci. Am.*, v. 234, p. 32-43.
Hartmann, W. K., 1973, Martian cratering. 4. Mariner 9 initial analysis of cratering chronology: *Jour. Geophys. Research*, v. 78, p. 4124-4137.
King, J. S., and Riehl, J. R., 1974, A proposed origin of the Olympus Mons escarpment: *Icarus*, v. 23, p. 309-317.
McCaughey, J. F., Carr, M. H., Cuts, J. A., Hartmann, W. K., Masursky, Harold, Milton, D. J., Sharpe, R. P., and others, 1972, Preliminary Mariner 9 report on the geology of Mars: *Icarus*, v. 17, p. 289-327.
Sharp, R. P., 1973, Mars: Fretted and chaotic terrain: *Jour. Geophys. Research*, v. 78, p. 4073-4083.
Soderblom, L. A., Condit, C. D., West, R. A., Herman, B. M., and Kiedler, T. J., 1974, Martian planet-wide crater distributions: Implications for geologic history and surface processes: *Icarus*, v. 22, p. 239-263.



INDEX TO MARINER 9 PICTURES

The mosaic used to control the positioning of features on this map was made with the Mariner 9 A-camera pictures outlined below, identified by vertical numbers. Unfilled coverage is not available in cross-hatched areas. Also shown (by solid black rectangles) are the high-resolution B-camera pictures, identified by italic numbers. The DAS numbers may differ slightly (usually by 5) among various versions of the same picture.

| A-camera pictures | | | | High-resolution B-camera pictures | | | |
|-------------------|---------|-----------|---------|-----------------------------------|---------|-----------|---------|
| Index No. | DAS No. | Index No. | DAS No. | Index No. | DAS No. | Index No. | DAS No. |
| 1 | 6607138 | 23 | 6118118 | 1 | 6268914 | 17 | 6791238 |
| 2 | 6607139 | 24 | 6621218 | 2 | 6621218 | 18 | 6791238 |
| 3 | 6607174 | 25 | 6621218 | 3 | 6621218 | 19 | 6892718 |
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