

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 (Barton, 1973, 1975). The major source  
of map data was the Mariner 9 stereopair (Mars 15-50000 series; Minsky and others, 1975).

ADOPTED FIGURE  
The figure of Mars used for the compilation of the map projection is an oblate  
spheroid (Charting of 1950) with an equatorial radius of 3781.6 km and a  
polar radius of 3737.5 km. This is not the height datum which is defined below  
under the heading "CONTOUR".

PROJECTION  
The Lambert conformal cone projection is used for this sheet with standard  
parallels at 35° N and 55° S. A scale of 1:4,338,000 at lat. 30° was chosen to  
minimize scale error. The equator is projected as a straight line. Longitude  
increases to the west in accordance with usage of the International Astronomical  
Union (IAU, 1971). Latitudes are geographic (de Vaucouleurs and others,  
1973).

CONTROL  
Planimetric control is provided by radio-marked positions of the spacecraft and  
telemetered camera-pointing angles. The first meridian passes through the crater  
Alois at latitude 5.1° S within the crater Alys. No complete position is possible  
for the precision, but local consistency is 10 m.

MAPPING TECHNIQUE  
Selected Mariner 9 pictures were transformed to the Lambert conformal projection  
and assembled in a series of mosaics at 1:5,000,000.

CONTOURS  
Since Mars has no sea and hence no sea level, the datum (the 0 km contour line)  
is defined by a gravity field described by spherical harmonics of  
fourth order and fourth degree (Jordan and Lorell, 1973) combined with a 1-  
millibar atmospheric pressure surface derived from radio-occultation data (Kilger  
and others, 1973; Christensen, 1975; Wu, 1975).

CONTOUR LINES  
The contour lines (0 m, 1975) were compiled from Earth-based radar determinations  
from (Dowen and others, 1971; Pettengill and others, 1971) and measurements made  
by Mariner 9 instrumentation, including ultrasonic altimetry (Cotton and others,  
1973) and stereoscopic Mariner 9 television pictures (Wu and others, 1973).  
Formal analysis of topographic elevation information has not been made. The  
estimated vertical accuracy of each source of data indicates a probable error of  
±2.4 km.

NOMENCLATURE  
All names on this sheet are approved by the International Astronomical Union  
(IAU, 1974-1977).

ACRONYMS  
M.C.S. = Abbreviation for Mars Chart 5  
M 54 48/330 G = Abbreviation for Mars 15-50000 series; center of sheet  
48° N latitude, 330° longitude; geologic map, G.

REFERENCES  
Barton, R. M., 1973, Cartographic positions from the Mariner 9 mission. *Jour. Geophys. Research*, v. 78, no. 20, p. 4424-4432.

Christensen, E. J., 1975, Martian topography derived from occultation, radar,  
telemetry, and optical measurements. *Jour. Geophys. Research*, v. 80, no. 20,  
p. 3969-3973.

Cotton, E. J., Carr, R. K., Hare, R. A., Kende, V. J., Maguire, W. W., Pearl,  
L. C., Purgitt, J. A., Walker, 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. 4267-4278.

Dowen, J. C., Collins, C. G., and Moore, C. L., 1971, Mars radar observations: a preliminary report. *Science*, v. 174, no. 4016, p. 1324-1327.

Hord, C. W., Simmons, K. E., and McLaughlin, L. K., 1974, Mariner 9 ultraviolet  
spectrometer experiment: Pre- and post-flight measurements on Mars. *Lunar  
Science*, v. 21, no. 3, p. 292-302.

International Astronomical Union, Commission 14, 1971, Physical study of  
planets and satellites, in Proc. 14th General Assembly, 1970. Internal Astron.  
Union Trans., v. XXV, p. 128-132.

—, 1974, Physical study of planets and satellites, in Proc. 15th General  
Assembly, 1973. Internal Astron. Union Trans., v. XXVI, p. 223-228.

—, 1977, Physical study of planets and satellites, in Proc. 16th General  
Assembly, 1976. Internal Astron. Union Trans., v. XXVII, p. 333-338.

Jordan, J. P., and Lorell, J. K., 1973, Mars as an instrument of dynamic  
science. Presented at AAS/AIAA Astrodynamics Conf., Vol. Coloc., July  
1973.

Kilger, A. F., Fiedko, Gunnar, Seidel, B. L., Sykes, M. J., and Woculchey, P. M.,  
1973, Radar altimetry of Mars: measurements of the atmosphere and topography  
of Mars with Mariner 9. Extended mission coverage of polar and inter-  
mediate latitudes. *Jour. Geophys. Research*, v. 78, no. 20, p. 4313-4321.

Minsky, Harold, Barton, R. M., Borgerson, W. T., Carr, M. H., McCauley, J. F.,  
Miles, R. L., Walker, R. L., Wilhelms, D. C., Meyer, B. J., and  
Leggett, R. B., Sharp, R. V., Thompson, T. W., Bridges, G. A., Christensen,  
E. J., Shaber, J. R., Sagan, Carl, Poff, J. R., Lederman, Judith, Levinthal,  
C. C., Hartmann, W. K., McCord, T. B., Smith, B. A., Davies, M. E., de  
Vaucouleurs, G. J., and Leovy, C. B., 1970, Television experiment for Mariner  
9. *Jour. Geophys. Research*, v. 75, no. 10, p. 1045.

Pettengill, G. H., Rogers, A. H., and Shapiro, L. I., 1971, Mariner craters and a  
scarps as seen by radar. *Science*, v. 174, no. 4016, p. 1321-1324.

Wu, S. S. C., Schaefer, F. J., Nakag, G. M., Jordan, Raymond, and Blinnik, K. R.,  
1973, Photogrammetric evaluation of Mariner 9 photography. *Jour. Geophys. Research*,  
v. 78, no. 20, p. 4405-4410.

Wu, S. S. C., 1975, Topographic mapping of Mars. U.S. Geol. Survey Interagency  
Rep. 63, 191p.

Wu, S. S. C., Schaefer, F. J., Nakag, G. M., Jordan, Raymond, and Blinnik, K. R.,  
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Rep. 63, 191p.

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