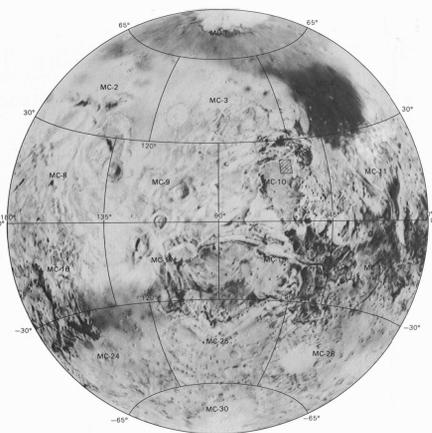




SCALE 1:502,000 (1 mm = 502 m) AT 70° LONGITUDE
TRANSVERSE MERCATOR PROJECTION



Prepared on behalf of the Planetary Geology and Geophysics Program, Planetary Division, Office of Space Science and Applications, National Aeronautics and Space Administration, under contract W-15,814.



QUADRANGLE LOCATION
Photomosaic location is shown in the western hemisphere of Mars. An outline of 1:5,000,000-scale quadrangles is provided for reference.

NOTES ON BASE
This photomosaic is part of a series of quadrangles selected to show areas of special interest on Mars. Viking Orbiter high-resolution pictures (less than 100 m per picture element) were used to make the mosaic. The images have been digitally enhanced to accentuate high-frequency detail. Image placement is based on the 1978 control net (Davies and others, 1978), the 1982 control net (Davies and Katayama, 1983), and the Mars control network (Wu and Schaler, 1984). These nets contain published standard errors of approximately 5 km, and agreement of points common to the nets may differ by as much as 1 cm at map scale. Image points from 1:2,000,000-scale controlled photomosaics were transferred to the Transverse Mercator projection where control points are sparse or not available.

The density, distribution, precision, and accuracy of available control points used for this map series are extremely variable. A block of mosaics compiled in areas of optimum control point distribution is not likely to match adjacent blocks previously compiled in areas of sparse or imprecise control. Where discrepancies exist between adjacent mosaics, the more recent compilation is probably more accurate. No attempt was made to resolve large edge discrepancies with previous compilations.

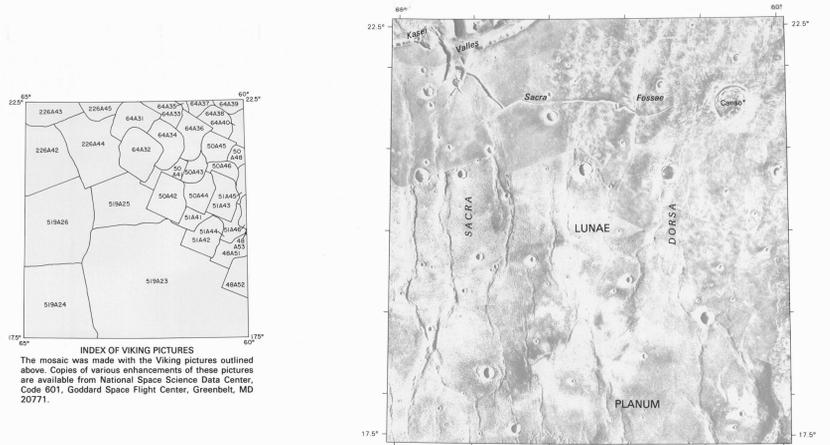
The projection is based on a Mars Transverse Mercator (MTM) system with 20° zones. The scale factor at the central meridian of the zone containing this quadrangle is 0.9960. The projection scale is based on an oblate spheroid (flattening of 1/192) with an equatorial radius of 3393.4 km and a polar radius of 3375.7 km.

NOMENCLATURE
All names shown on the reduced base mosaic are approved by the International Astronomical Union (IAU, 1974, 1977, and 1986) except for a provisional name, which is indicated by an asterisk.

MTM 20062
Abbreviation for Mars; Transverse Mercator projection; sheet 20062.

M 500K 20/62 CM
Abbreviation for Mars; 1:500,000 scale; center of sheet lat 20° N, long 62°; controlled photomosaic (CM).

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International Astronomical Union, 1974, Commission 16: Physical study of planets and satellites, and Lunar and martian nomenclature, in 15th General Assembly, Sydney, 1973, Proceedings: International Astronomical Union Transactions, v. 15B, p. 105-106, 217-221.
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Wu, S.S.C., and Schaler, F.J., 1984, Mars control network: American Society of Photogrammetry, technical papers of the 50th annual meeting of the American Society of Photogrammetry, v. 2, Washington, D.C., March 11-16, 1984, p. 456-463.



LOCATION OF FEATURES
Contrast in the reduced base mosaic was purposely suppressed to emphasize the names.

MTM 20062
CONTROLLED PHOTOMOSAIC OF PART OF THE KASEI VALLES REGION OF MARS
M 500K 20/62 CM
1987