



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 0.9902. 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, 1980) except for provisional names, which are indicated by an asterisk.
MTM 35107 Abbreviation for Mars; Transverse Mercator projection; sheet 35107.
M 500K 35/107 CM Abbreviation for Mars; 1:500,000 series; center of sheet lat 35° N., long 107°; controlled photomosaic (CM).

REFERENCES
Davies, M. E., and Katayama, F. Y., 1983, The 1982 control network of Mars: Journal of Geophysical Research, v. 88, no. B9, p. 7503-7504.
Davies, M. E., Katayama, F. Y., and Roth, J. A., 1978, Control net of Mars: February 1978: The Rand Corporation, R-209-NASA, 91 p.
International Astronomical Union, 1974, Commission 16: Physical study of planets and satellites, and Lunar and marian nomenclature, in 15th General Assembly, Sydney, 1973, Proceedings: International Astronomical Union Transactions, v. 15B, p. 105-108, 217-221.
1980, Working Group for Planetary System Nomenclature, in 17th General Assembly, Montreal, 1979, Proceedings: International Astronomical Union Transactions, v. 17B, p. 293-297.
Wu, S. S. C., and Schaler, F. J., 1984, Mars control network: American Society of Photogrammetry, in Technical papers of the 56th annual meeting of the American Society of Photogrammetry, v. 2, Washington, D. C., March 11-16, 1984, p. 456-463.

