



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 Schafer, 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 3395.4 km and a polar radius of 3373.7 km.

NOMENCLATURE
All names shown on the reduced base mosaic are approved by the International Astronomical Union (IAU, 1974, in press).
MTM 30212 Abbreviation for Mars; Transverse Mercator projection; sheet 30212.
M 500K 30/212 CM Abbreviation for Mars; 1:500,000 series; center of sheet lat 30° N., long 212°; controlled photomosaic (CM).

REFERENCES
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Davies, M.E., Katayama, F.Y., and Roth, J.A., 1978, Control net of Mars: February 1978: The Rand Corporation, R-2309 NASA, 91 p.
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. 105-108, 217-221.
Working Group for Planetary System Nomenclature, in 19th General Assembly, New Delhi, 1985, Proceedings: International Astronomical Union Transactions [in press].
Wu, S.S.C., and Schafer, F.J., 1984, Mars control network: American Society of Photogrammetry, in 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.

