

### NOTES ON BASE

This photomosaic is part of a series of quadrangles selected to show areas of special interest on Mars. Using Orbiter high-resolution pictures (less than 100 m per picture element) were used as the base. The quadrangles have been digitally enhanced to accentuate high-frequency detail. Image placement is based on the 1978 control net of Mars (Mars Control Net) (Wu and Schaefer, 1984). These nets contain published star positions of approximately 5 km, and agreement of points common to the nets may differ by as much as 100 m. The 1978 Mars Control Net was based on 1,000,000 km<sup>2</sup> of Mars. The photomosaics were transferred to the Transverse Mercator projection where control points are sparse or not available.

The accuracy and accuracy of available control points used for this map series are extremely variable. It likely that much adjacent blocks compiled in areas of optimum control point distribution is not likely to match adjacent blocks previously compiled. The accuracy of the map series is therefore variable. The use of the Transverse Mercator projection, the more recent compilation is probably more accurate. No attempt was made to resolve large degree discrepancies.

The map series is based on the 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 3395.8 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 except for the provisional name, indicated by an asterisk.

MTM 32017      Abbreviation for Mars; Transverse Mercator projection; sheet 32017

M 500K 30/217 CM      Mars; 1:500,000 series; Center of sheet lat 30° N, lon 217°; control photomosaic; CM = center

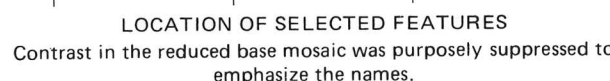
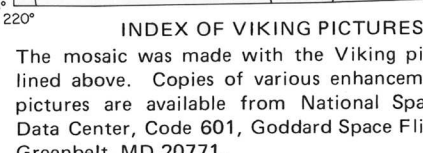
### REFERENCES

Dawes, M. E., and Katayama, F. Y., 1978, *Mars control net of Mars: Journal of Geophysical Research*, v. 88, no. 9, p. 7033-7034.

Dawes, M. E., Katayama, F. Y., and Roth, J. A., 1978, *Control net of Mars: Journal of Geophysical Research*, v. 83, no. 12, p. 6961-6964.

International Astronomical Union, 1974, *1974, 1978, Physical system of planets and satellites, and Lunar and martian nomenclature*, *Astronomical Union Transactions*, v. 15B, p. 106, 108, 217-221.

Wu, S. S., and Schaefer, J. R., 1984, *Mars control net: 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. 464.



NOTE TO USERS  
Users noting errors or omissions are urged to indicate them on the map and to forward it to U.S. Geological Survey, Building 4, Room 454, 2255 North Gemini Drive, Flagstaff, Arizona 86001. A replacement copy will be returned.

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