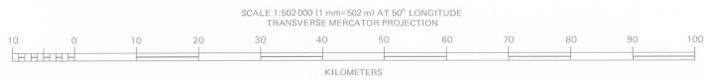


Interior-Geological Survey, Reston, Va.—1985—G85165  
Prepared on behalf of the Planetary Geology Program,  
Planetary Division, Office of Space Science, National Aero-  
nautics and Space Administration, under contract W-13,709.



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 details. 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 (DTM) 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 in the reduced base mosaic are approved by the International Astronomical Union (IAU, 1980) except for the provisional names listed below. Provisional names: Drilon Vallis, Sabrina Vallis, Subar Vallis and Tyras Vallis. MTM 10052: Abbreviation for Mars; Transverse Mercator projection; sheet 10052. M 500K 10/52 CM: Abbreviation for Mars; 1:500,000 series; center of sheet lat 10° N, long 52°; controlled photomosaic (CM).

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