

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.

1984). A block of mosaics compiled in an area where controls have optimum distribution and precision is not likely to match adjacent blocks previously compiled in areas where controls are sparse or imprecise. Where discrepancies exist between adjacent mosaics, the more recent compilation is likely to be more accurate. This mosaic, in Polar Stereographic projection, is an extension of the Mars Transverse Mercator (MTM) series. The MTM designation has been retained to ensure convenient series identification. The scale of this projection is 1:503,000 at the pole and 1:500,000 at lat 87.5° S. 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

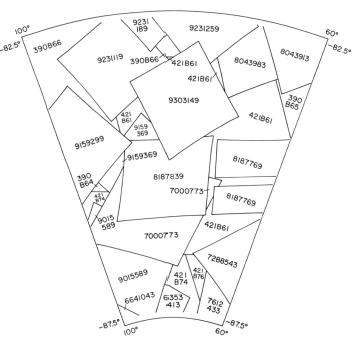
Mariner 9 processing and control were done by Ken Herkenhoff of the Jet Propulsion Laboratory, California. Digital processing and mosaicking were done by Ella M. Lee. All names shown on the reduced base mosaic are approved by the International Astronomical Union (IAU, 1977).

M 500k -85/80 CM: Abbreviation for Mars; 1:500,000 series; center of sheet lat 85° S., long 80°; controlled photomosaic (CM). REFERENCES Batson, R.M., 1987, Digital cartography of the planets: New methods, its status, and its future: Photogrammetric Engineering and Remote Sensing, v. 53, no. 9,

Edwards, Kathleen, 1987, Geometric processing of digital images of the planets:
Photogrammetric Engineering and Remote Sensing, v. 53, no. 9, p. 1219–1222.
International Astronomical Union, 1977, Working Group for Planetary System

Transactions of the International Astronomical Union, v. 16B, p. 321-325, 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.

Nomenclature, in Proceedings of the 16th General Assembly, Grenoble, 1976:



INDEX OF VIKING AND MARINER 9 IMAGES The mosaic was made with the Mariner 9 and Viking 2 pictures outlined above. Mariner 9 "B" camera images are identified by a seven-digit Data Automation Subsystem (DAS) number. Although the first six digits uniquely identify each frame, the seventh digit may differ (usually by 5) among various versions of the same image, depending on which tracking station recorded the image. Copies of various enhancements of these pictures are available from National Space Science Data Center, Code 601, Goddard Space Flight Center, Greenbelt, MD 20771.

