

**NOTES ON BASE**

This photomosaic is a mosaic of high-resolution photos taken from a special interest on Mars. Viking Orbiter high-selected photos (areas less than 100 m per picture element) were used to make the mosaic. The images have been digitally enhanced to accentuate high-frequency detail. Images were taken by the Mars Orbiter Camera (MOC) on 23 May 1982 control net (Davies and Katayama, 1983), and the Mars control net (Wu and Schaler, 1984). These nets contain published standard coordinates and are used to locate the mosaic on Mars. The mosaic may differ by as much as 1 cm at map scale. Image points from 12,000,000 scale controlled photographs 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 are important in the use of the mosaic. The mosaic was 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 accurate mosaic was used. The mosaic was used to help resolve large density discrepancies with previous compilations.

**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 40107	Abbreviation for Mars; Transverse Mercator projection; sheet 40107.
M 500K 40/107 CM	Abbreviation for Mars; 1:500,000 series; center of sheet lat 40° N., long 107°; controlled photomosaic (CM).

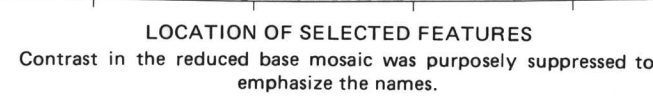
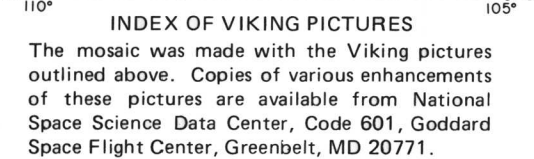
REFERENCES

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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.



M 500K 40/107 CM  
1985

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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