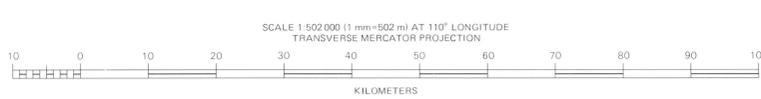
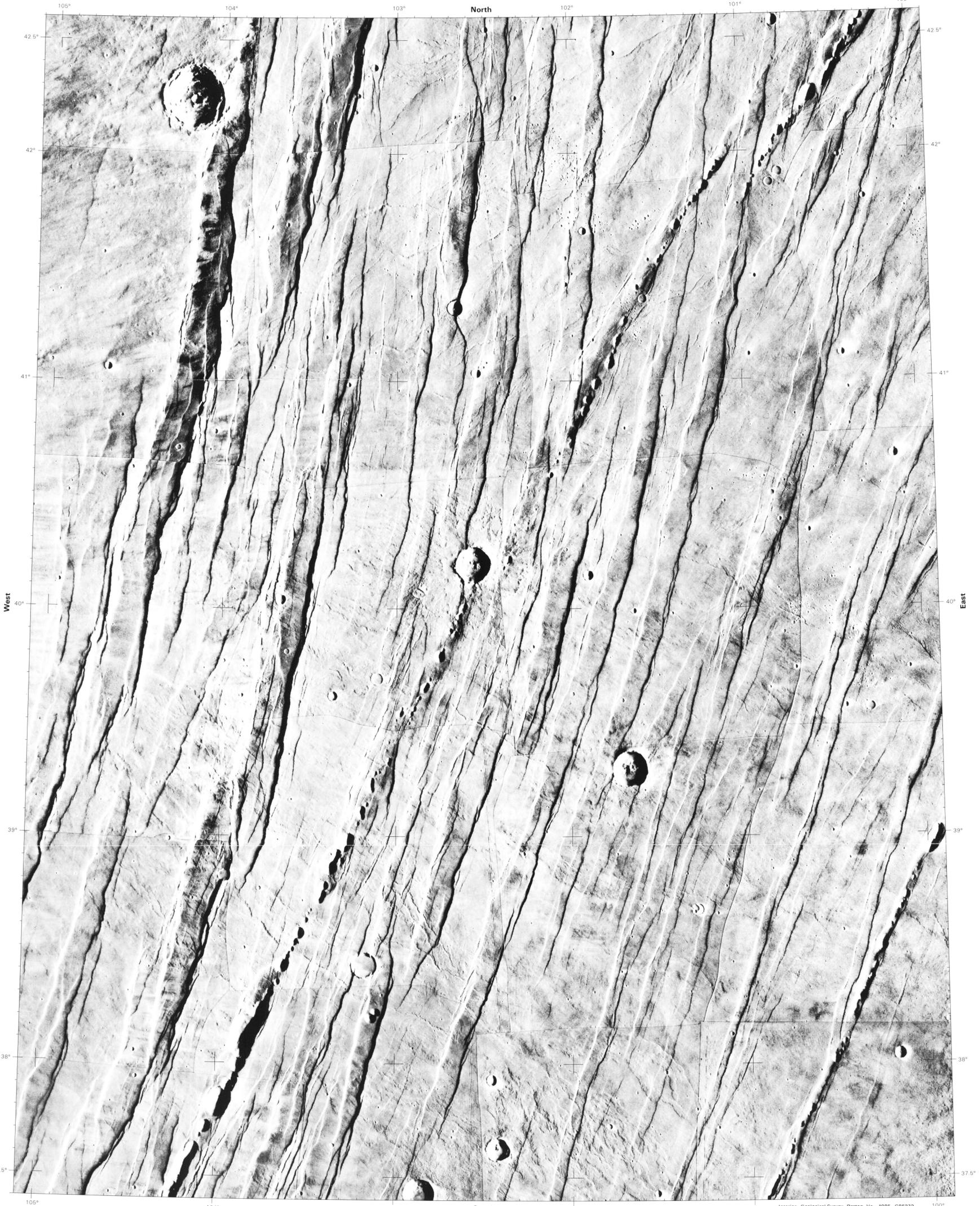


DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Prepared for the
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION



Interior—Geological Survey, Reston, Va.—1985—GB5272
Prepared on behalf of the Planetary Geology Program,
Planetary Division, Office of Space Science, National Aeronautics and Space Administration, under contract W-13,709.

NOTES ON BASE

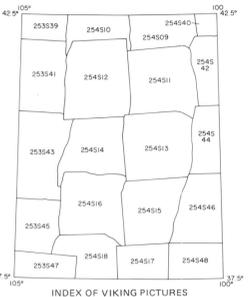
This photomosaic is part of a series of quadrangles selected to show areas of special interest on Mars. Viking Orbiter high-resolution pictures (less than 100 m per picture element) were used to make the mosaic. The images have been digitally enhanced to accentuate high-frequency detail. Image placement 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 Schaler, 1984). These nets contain published standard errors of approximately 5 m, 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.

NOMENCLATURE

All names shown on the reduced base mosaic are approved by the International Astronomical Union (IAU, 1974, 1977, 1980, and 1983).
MTM 40102 Abbreviation for Mars; Transverse Mercator projection; sheet 40102.
M 500K 40/102 CM Abbreviation for Mars; 1:500,000 series; center of sheet lat 40° N, long 102° W; controlled photomosaic (CM).

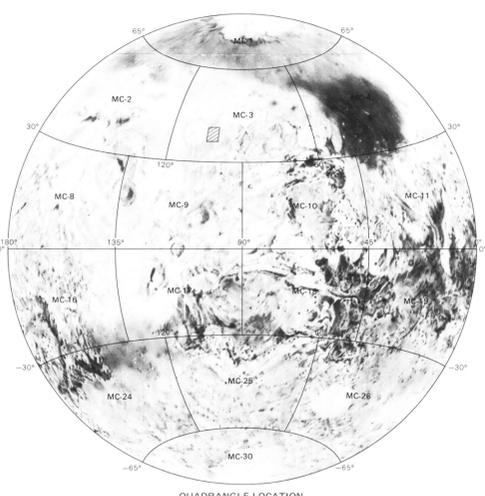
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Davies, M. E., and Katayama, F. Y., 1983, The 1982 control network of Mars, *Journal of Geophysical Research*, v. 88, no. B9, p. 7503-7504.
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Wu, S. S. C., and Schaler, F. J., 1984, Mars control network: 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.



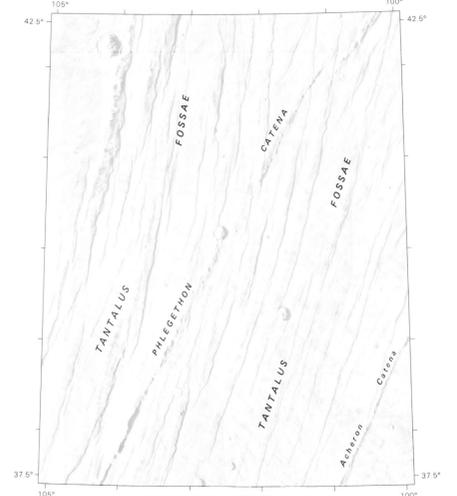
INDEX OF VIKING PICTURES

The mosaic was made with the Viking pictures outlined above. Copies of various enhancements of these pictures are available from National Space Science Data Center, Code 601, Goddard Space Flight Center, Greenbelt, MD 20771.



QUADRANGLE LOCATION

Photomosaic location is shown in the western hemisphere of Mars. The outline of 1:5,000,000-scale quadrangles is provided for reference.



LOCATION OF SELECTED FEATURES

Contrast in the reduced base mosaic was purposely suppressed to emphasize the names.



MTM 40102
CONTROLLED PHOTOMOSAIC OF PART OF THE
ALBA PATERA REGION OF MARS
M 500K 40/102 CM
1985



For sale by Branch of Distribution, U.S. Geological Survey,
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U.S. Geological Survey, Box 25286, Federal Center, Denver, CO 80225

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 414, 2215 North Gemini Drive, Flagstaff, Arizona 86001. A replacement copy will be returned.

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