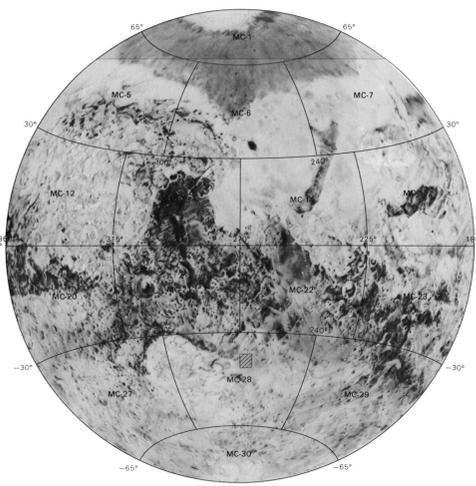


INT-100—GEOLOGICAL SURVEY, RESTON, VA.—1990
Prepared on behalf of the Planetary Geology Program, Solar System Exploration Division, Office of Space Science, National Aeronautics and Space Administration, under contract W-15314.
Manuscript approved for publication December 29, 1988

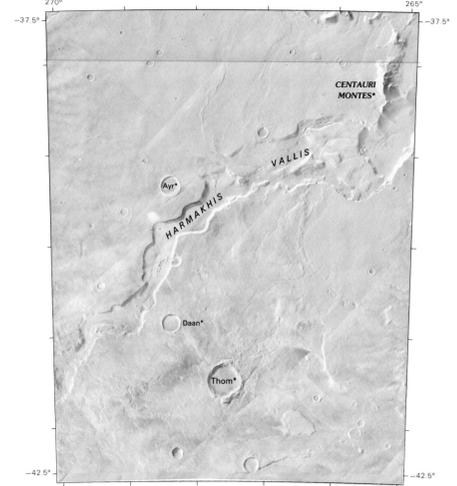
NOTES ON BASE
This photomosaic covers part of an area of special scientific interest on Mars. It is published in a series designed to support topical studies, which is not expected to result in systematic coverage of the planet. The mosaic was compiled by digital methods described by Batson (1987) and Edwards (1987).
The distribution of Viking Orbiter images suitable for mapping at a scale of 1:500,000 is uneven, as are the quality and distribution of map controls. The mosaics are usually compiled in blocks of two or more adjacent quadrangles that are selected on the basis of scientific importance, not necessarily in areas of optimum coverage by high-resolution images or precise map controls. Image placement is based on a planetwide topographic control net that has a published standard error of 5 km (Wu and Schafer, 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.
The projection is part of a Mars 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 3393.4 km and a polar radius of 3375.7 km.
Digital processing and mosaicking were done by D. Anthony Mantley.

NOMENCLATURE
All names shown on the reduced base mosaic are approved by the International Astronomical Union (IAU, 1980), except for provisional names indicated by an asterisk.
M 500K -40/267 CM. Abbreviation for Mars; 1:500,000 series; center of sheet, lat 40° S., long 267°; controlled photomosaic (CM).

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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, p. 1211-1218.
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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.



QUADRANGLE LOCATION
Photomosaic location is shown in the eastern hemisphere of Mars. An outline of 1:5,000,000-scale quadrangles is provided for reference.



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

MTM -40267
CONTROLLED PHOTOMOSAIC OF PART OF THE HADRIACA REGION OF MARS
M 500K -40/267 CM
1990

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.

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