

SCALE 1:502 000 (1 mm = 502 m) AT 50° LONGITUDE
TRANSVERSE MERCATOR PROJECTION

30 40 50 60

KILOMETERS

Prepared on behalf of the Planetary Geology Program, Solar System Exploration Division,
Office of Space Science, National Aeronautics and Space Administration, under contract
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NOTES ON BASE

This photomosaic (see part of an area of special scientific interest on Mars, in Fig. 1) 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 digitizing the images of the Mars Global Surveyor (MGS) Mars Orbiter Camera (MOC) and Mars Orbiter Laser Altimeter (MOLA) data. 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 the availability of MGS data, the quality of the mosaics, and the availability of high-resolution images or precise map controls. Image placement is based on a planimetric topographic control net that has a published standard error of 55 m (Wand & Schell, 1996). The mosaics are not intended to be used for precise measurements. The distribution and precision is not likely to match adjacent blocks previously compiled in areas where controls are sparse or irregular. Where discrepancies exist between mosaics, the mosaic with the better quality data and map controls is used. 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 a semi-major axis of 3397 km (Mars 1977 mean radius). The mosaic was prepared by digital processing and mosaicking were done by Edna M. Lee.

NOMENCLATURE

All names shown on the reduced base mosaic are approved by the International Astronomical Union (IAU, 1974, 1983).

M 500k -15/52 CM: Abbreviation for Mars; 1:500,000 series; center of sheet lat 15° S., long 52°; controlled photomosaic (CM).

REFERENCES

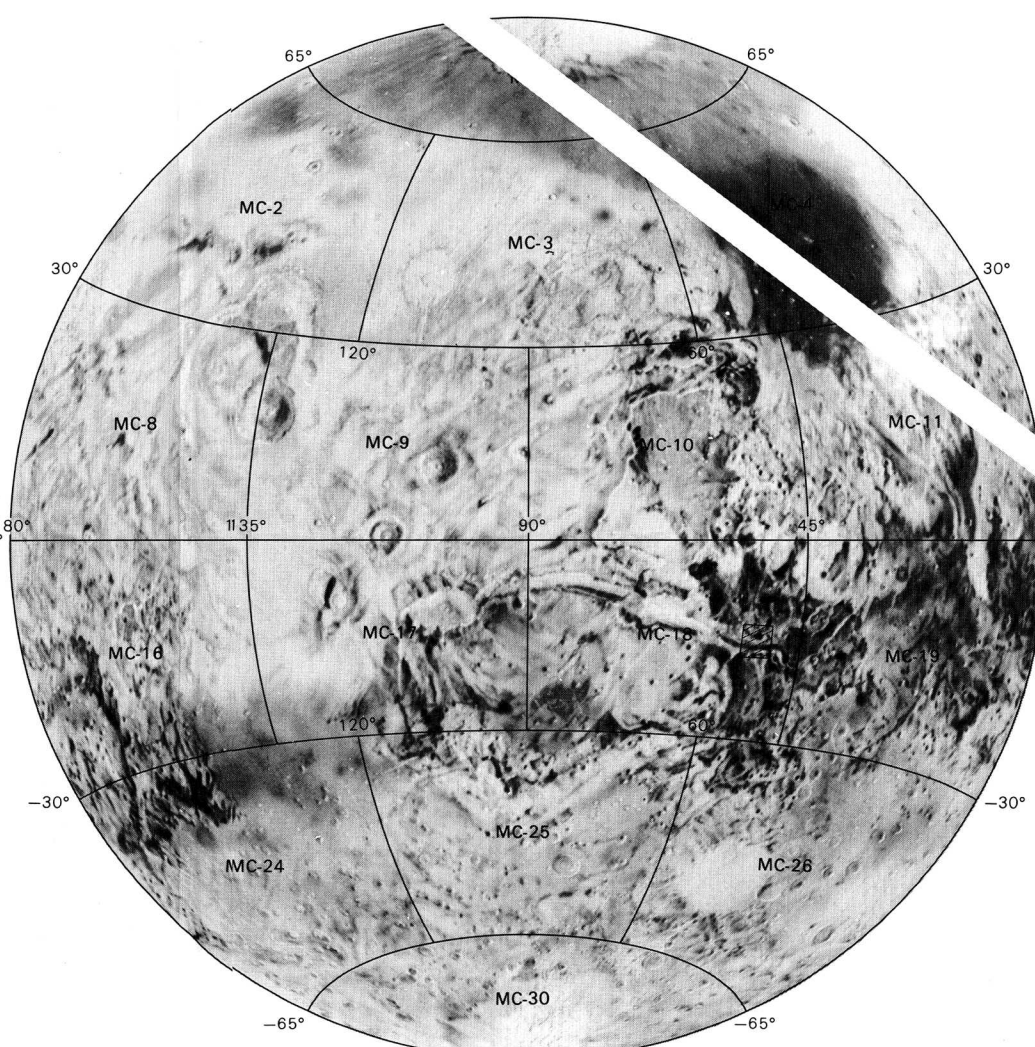
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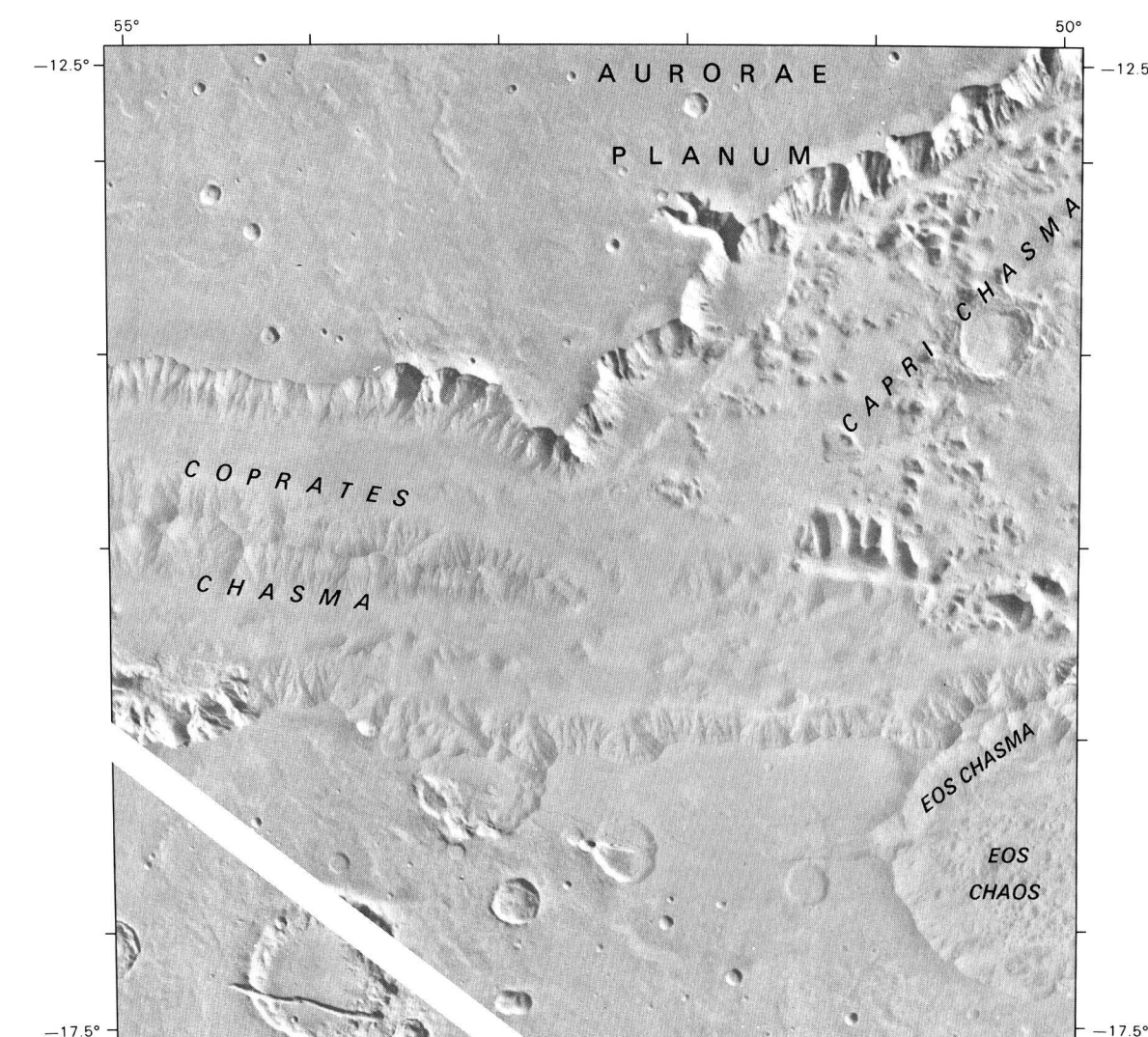
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QUADRANGLE LOCATION
Photomosaic location is shown in the western hemisphere of Mars. An outline of 1:5,000,000-scale quadrangles is provided for reference.



LOCATION, SELECTED FEATURES

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

1992

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