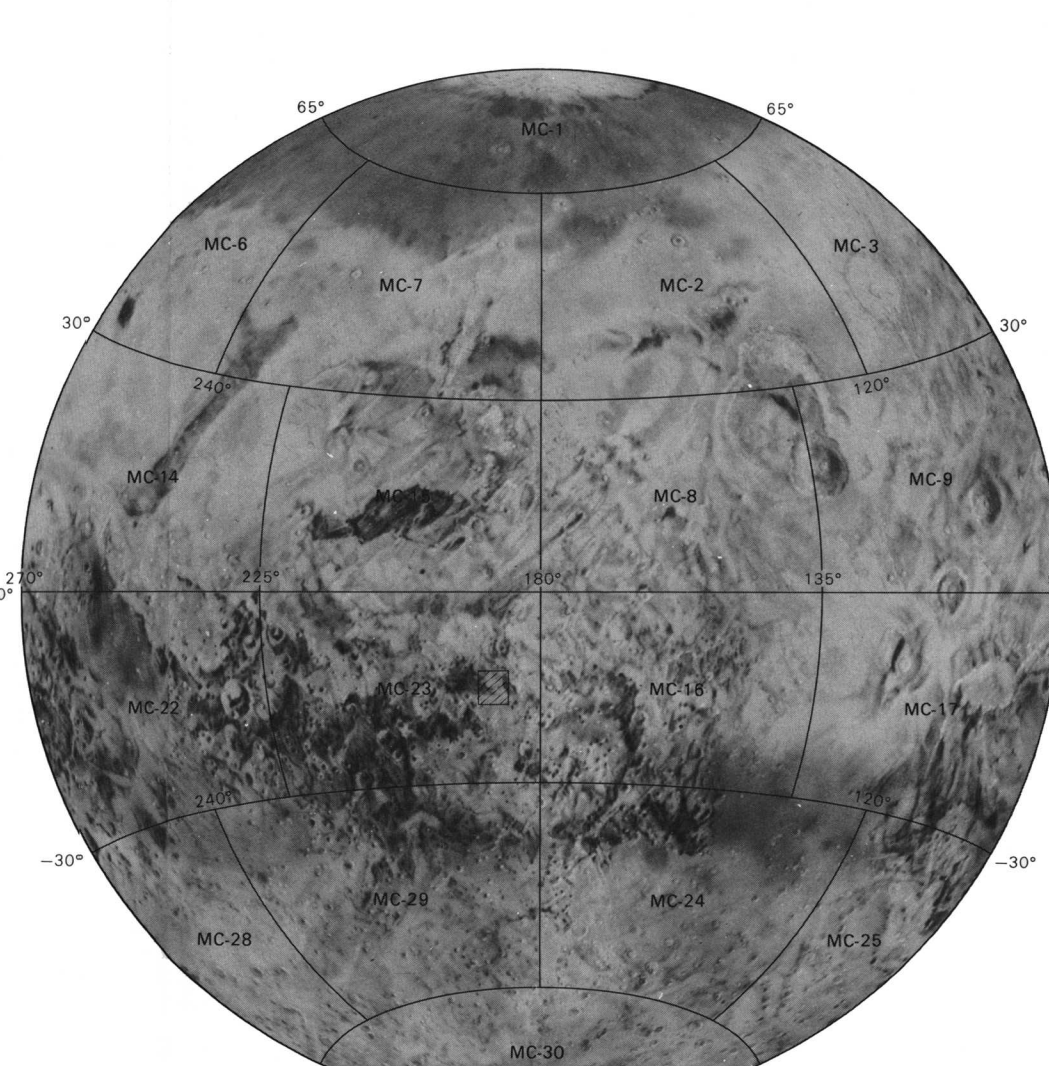
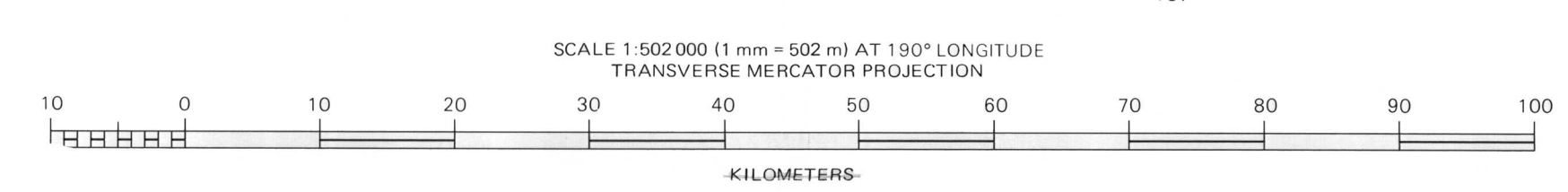


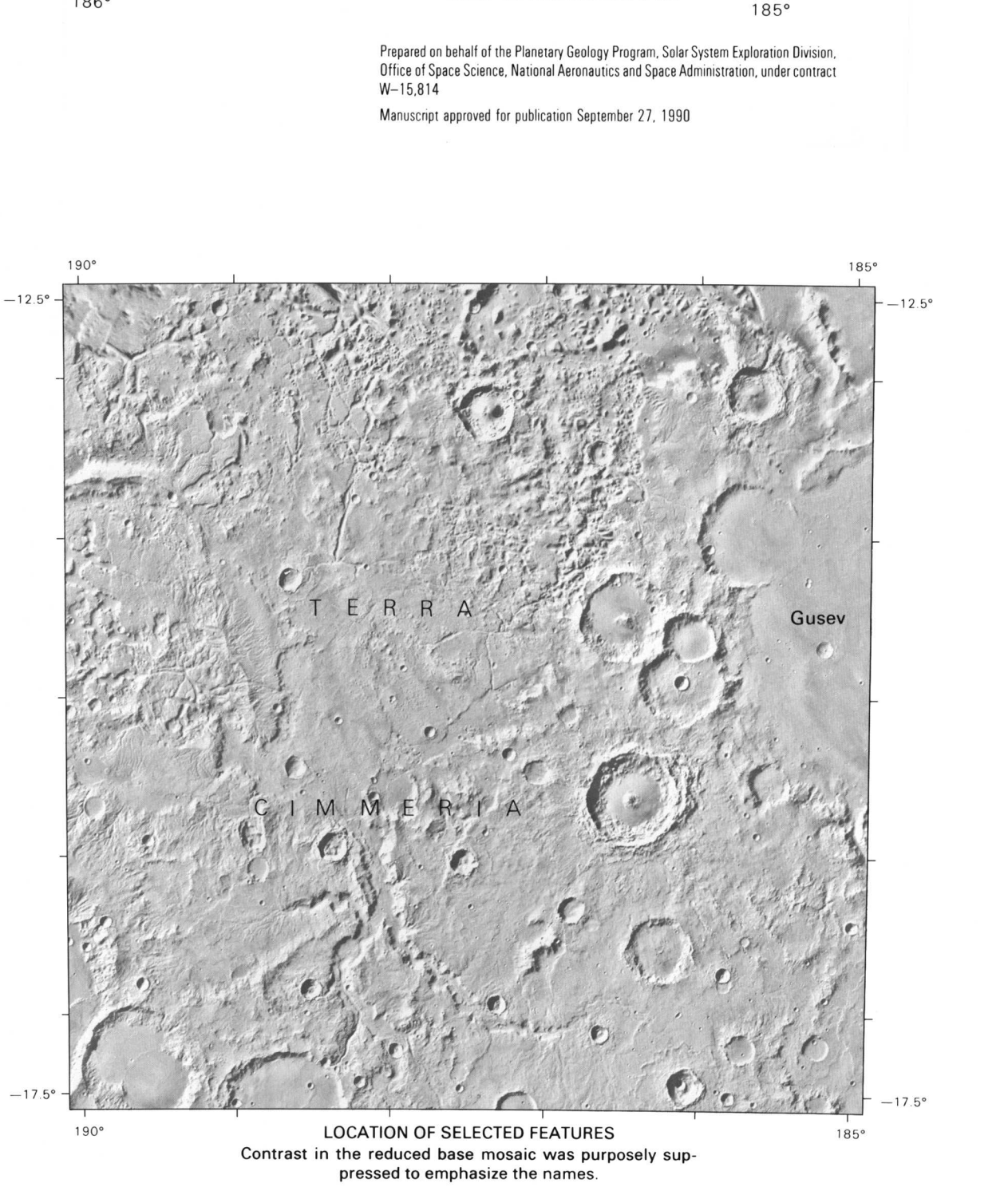
INDEX OF VIKING PICTURES
The mosaic was made with the Viking pictures outlined above. Copies of various enhancements of these pictures are available from National Space Science Data Center, Code 601, Goddard Space Flight Center, Greenbelt, MD 20771.

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 Schaler, 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 0.9963. The projection scale is based on an oblate spheroid (flattening of 1/193) with an equatorial radius of 3393.4 km and a polar radius of 3375.7 km. Digital processing and mosaicking were done by Patricia K. Thomas.

NOMENCLATURE
All names shown on the reduced base mosaic are approved by the International Astronomical Union (IAU, 1977, 1980).
M 500k -15/187 CM: Abbreviation for Mars; 1:500,000 series; center of sheet lat 15° S., long 187° W.; controlled photomosaic (CM).
REFERENCES
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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 Nomenclature, in *Proceedings of the 16th General Assembly, Grenoble, 1976*. *Transactions of the International Astronomical Union*, v. 16B, p. 321-325, 331-336, 355-362.
—, 1980, Working group for Planetary System Nomenclature, in *Proceedings of the 17th General Assembly, Montreal, 1979*. *Transactions of the International Astronomical Union*, v. 17B, p. 293-297.
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.



QUADRANGLE LOCATION
Photomosaic location is shown in the eastern hemisphere of Mars. An outline of 1:500,000-scale quadrangles is provided for reference.



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

CONTROLLED PHOTOMOSAIC OF THE MTM -15187 QUADRANGLE, MA'ADIM VALLIS REGION OF MARS