

NOTES ON BASE

This photomosaic is part of a series of quadrangles selected to show areas of spectral interest from Mars. Viding Orbiter (V.O.) frames less than 100 m per pixel (approximately) were used to make the mosaic. The images have been digitally enhanced to accentuate high-frequency details. Image placement is based on the 1978 control net (Davies, M.E., and Katayama, F.Y., 1986), and the 1984 Mars control net (Katayama, S.S., and the Mars control network (Wu and Schaller, 1984). These nets contain published station coordinates of approximately 5 km, and agreement of points common to the nets may differ by as much as 1 cm or more. Most recent are about 12,000 square centimetre photocopies 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 project was variable. A lack of suitable locations 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 maps at 1:50,000 scale most are small ($< \pm 0.5''$). This level of discrepancy attempt was made to resolve large edge discrepancies with previous compilations.

The projection is based on a Mars Transverse Mercator (MTM) system with 20° zones. The scale factor at the central meridian of the zone containing this quadrangle is equal to unity. The radius of curvature of the parallel of latitude of 139.92°N is an equatorial radius of 3393.4 km and a polar radius of 3375.7 km.

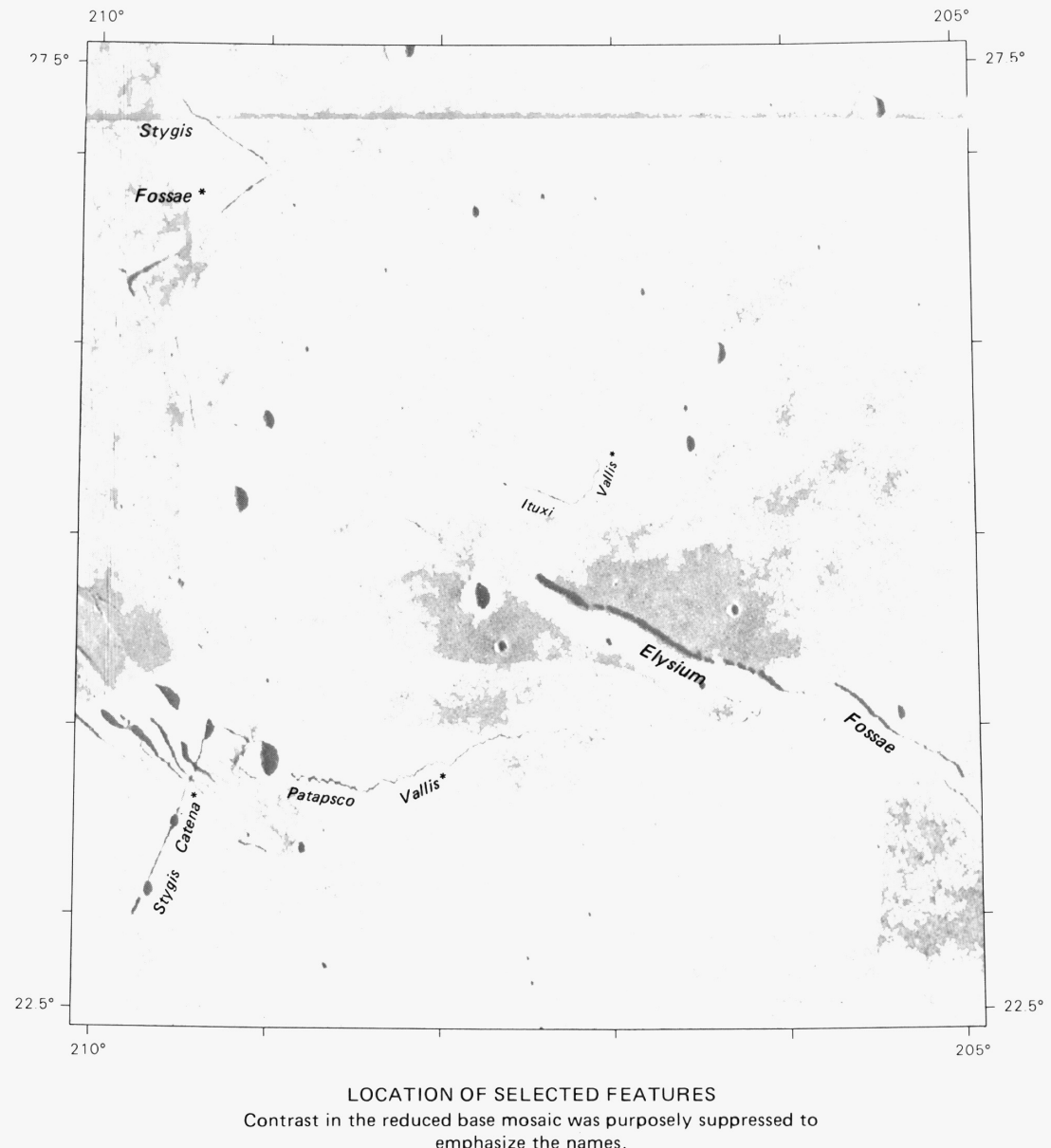
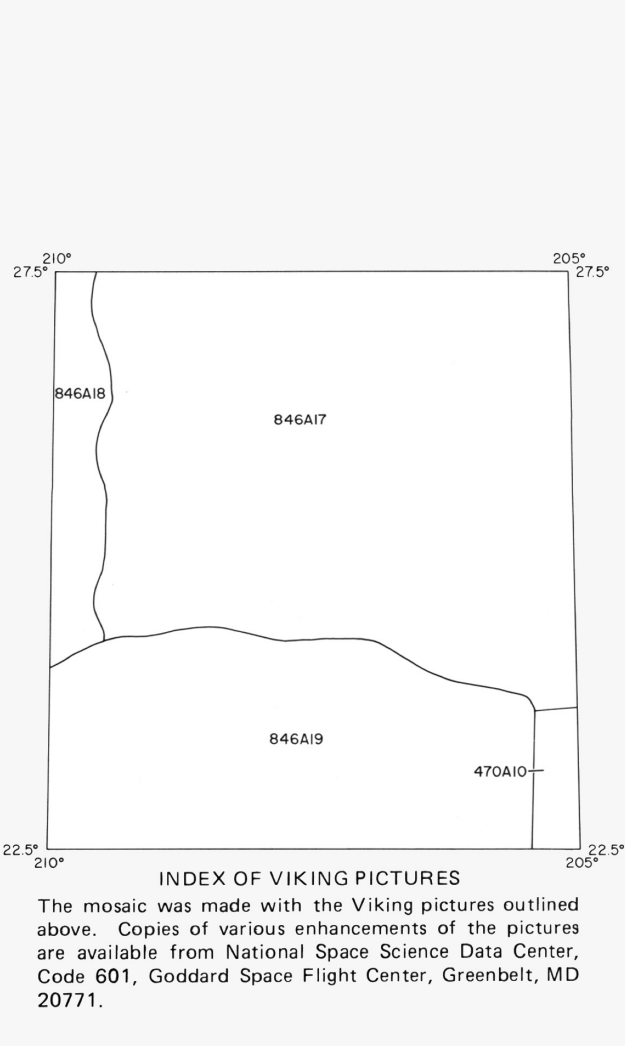
NUMERICALITY

All names shown on the reduced base mosaic are approved by the International Astronomical Union (IAU), except for provisional names, which are indicated by an asterisk.

M25/M27 Abbreviation for Mars; Transversal Meridians; Center of sheet; shift east
M 500K ± 250' Abbreviation for Mars; 1:500,000 series; center of sheet; shift south 25'', long +207'

REFERENCES

Davies, M.E., and Katayama, F.Y., eds., 1986, 1:500,000 covered lunar map sheets: Journal of Geophysical Research, v. 91, no. 8, p. 7593-7594.
Davies, M.E., Katayama, F.Y., and Roth, J.A., 1978, 1978 Control net of Mars: February 1978. The Rand Corporation, RZ209-NASA, 91 p.
International Astronomical Union, 1984, IAU Working Group No. 16: Physical study of planets and satellites, and Lunar and martian nomenclature, in 15th General Assembly, Sydney, T.F., Proceedings. International Astronomical Union Transactions, v. 1984, pp. 221-223.
S.C., C.S., and Schaller, F.J., 1984, Mars control network: American Society of Photogrammetry, Technical papers of the 50th annual meeting of the American Association of Photogrammetrists, Washington, March 1-16, 1984, p. 456-463.



MTM 25207
CONTROLLED PHOTOMOSAIC OF PART OF THE
ELYSIUM MONS REGION OF MARS
M 500K 25/207 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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