

This mosaic was made with Mariner 9 pictures provided by the Jet Propulsion Laboratory (JPL).

Primary image processing (image artifact removal, geometric distortion removal, high-pass filtering to enhance high frequency topographic detail while subduing albedo variation, and geometric transformation to an orthographic projection) by the Image Processing Laboratory (IPL) of JPL.

Secondary image processing (bit error removal, custom contrast & tone modification for mosaicking) by the U.S. Geological Survey (USGS), Center of Astrogeology (COA).

Photographic image reconstruction from digital magnetic tapes by COA.

Primary control by M.E. Davies, Rand Corporation.

Secondary control by D.W.G. Arthur, COA.

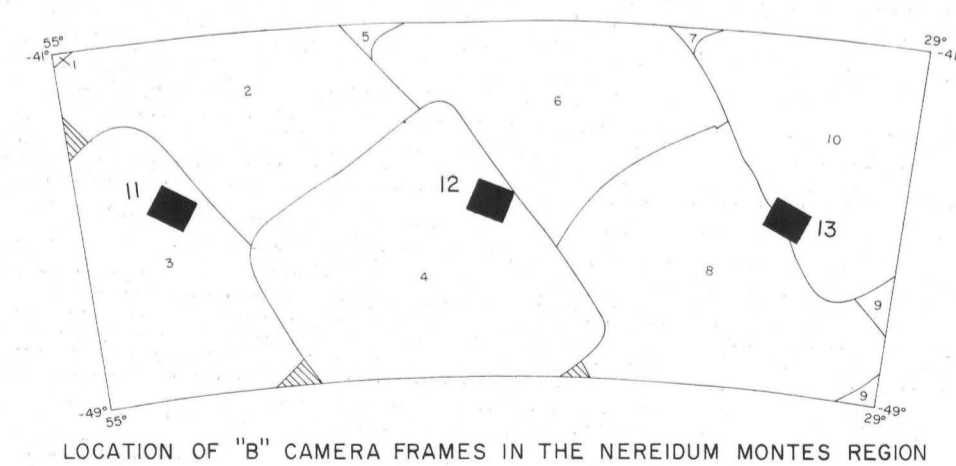
Mosaic by COA.

Areographic latitudes are shown on this mosaic. The projection is based on a theoretical dynamical ellipticity of 1/192. The scale is based on an equatorial radius of 3393.4 km.

Discrepancies between computed coordinates of secondary control points and the locations of their images on the mosaic are less than 5 km throughout the mosaic. The primary controls to which the secondary net is tied are provisional, however. A shift of datum of as much as 25km may occur when final primary controls are incorporated.

Selected References

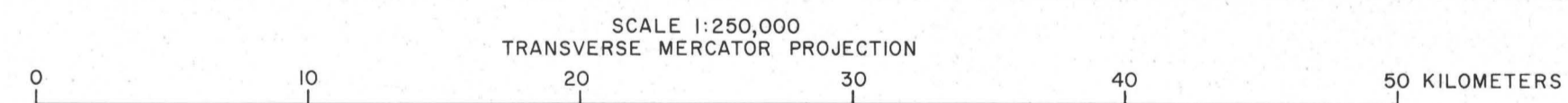
- Batson, R.M., Cartographic products from the Mariner 9 mission: Jour. Geophys. Res., 78, 4429, 1973.
- Davies, M.E., and Arthur, D.W.G., Martian surface coordinates: Jour. Geophys. Res., 78, 4355, 1973.
- Levintal, E., et al., Mariner 9 - Image processing and products, *ICARUS*, 18, 75, 1973.
- Nasursky, Harold, et al., Television experiment for Mariner Mars 1971, *JCARUS*, 12, 10, 1970.



LOCATION OF "B" CAMERA FRAMES IN THE NEREIDUM MONTES REGION

IDENTIFICATION NUMBERS OF PICTURES IN THE MOSAIC

INDEX NO.	DAS NO.
1	6282813
2	6354633
3	6354563
4	6426453
5	6354703
6	6426523
7	6426593
8	6498343
9	5167153
10	6498413
11	6354603
12	6426493
13	6498383

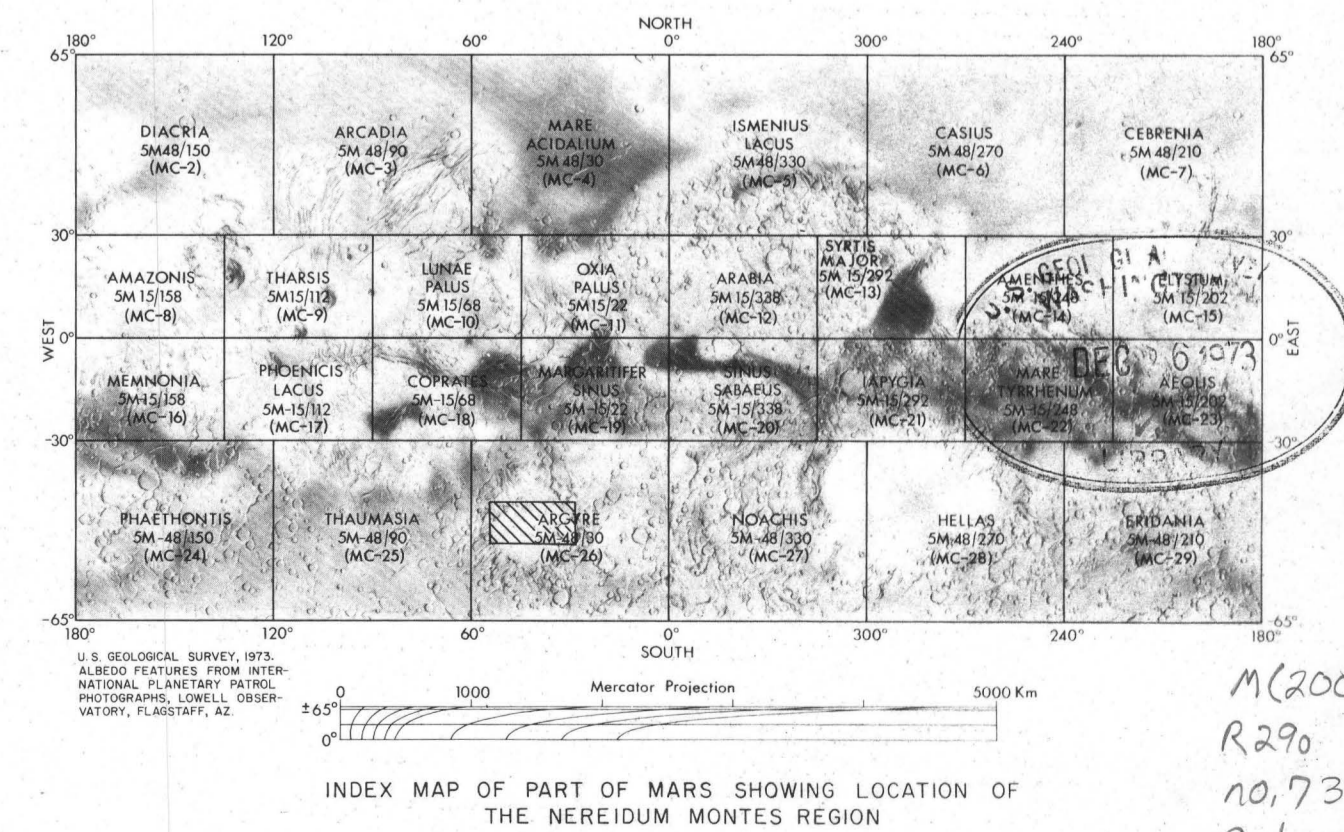


PART OF THE NEREIDUM MONTES REGION OF MARS

M 250 k
SCALED AND RECTIFIED "B" CAMERA FRAMES
OCTOBER 1973

U. S. Geological Survey
OPEN FILE REPORT
This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards or nomenclature.

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*Mars (Nereidum Montes Area) Photomosaic
1:250,000, 1973.
cop. 1.*

M(200)
R290
10,73-320
C.1