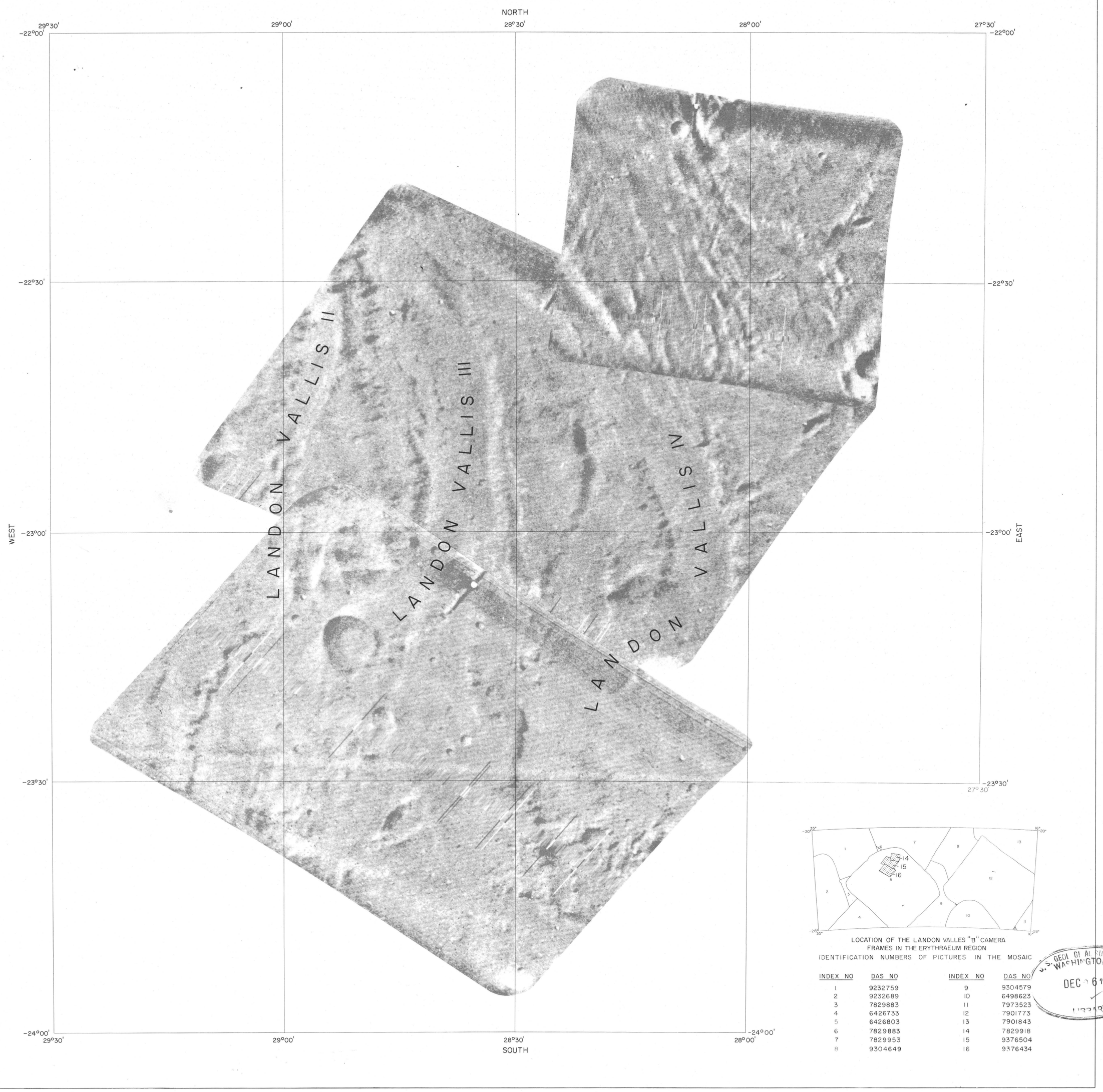
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
JET PROPULSION LABORATORY, CALIFORNIA INSTITUTE OF TECHNOLOGY
FOR THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

ATLAS OF MARS
LANDON VALLES AREA
M 250 k -23/28 CM
(CONTROLLED PHOTOMOSAIC)
1 : 250,000 CARTOGRAPHIC SERIES



LOCATION OF THE LANDON VALLES "B" CAMERA
FRAMES IN THE ERYTHRAEUM REGION
IDENTIFICATION NUMBERS OF PICTURES IN THE MOSAIC

INDEX NO	DAS NO	INDEX NO	DAS NO
1	9232759	9	9304579
2	9232689	10	6498623
3	7829883	11	7973523
4	6426733	12	7901773
5	6426803	13	7901843
6	7829883	14	7829918
7	7829953	15	9376504
8	9304649	16	9376434

U.S. GEOLOGICAL SURVEY
WASHINGTON
DEC 6 1973
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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 reconstitution 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 control points and the locations of their images on the mosaic are less than 5 km throughout the mosaic.

Selected References

Batson, R.M., Cartographic products from the Mariner 9 mission: Jour. Geophys. Res., 78, 4424, 1973.
Davies, M.E., and Arthur, D.W.G., Martian surface coordinates: Jour. Geophys. Res., 78, 4355, 1973.
Levinthal, E.C., et. al., Mariner 9 - Image processing and products, Icarus, 18, 75, 1973.
Masursky, Harold, et. al., Television experiment for Mariner Mars 1971, Icarus, 12, 10, 1970.

SCALE 1:250,000
TRANSVERSE MERCATOR PROJECTION

0 10 20 30 KILOMETERS

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.

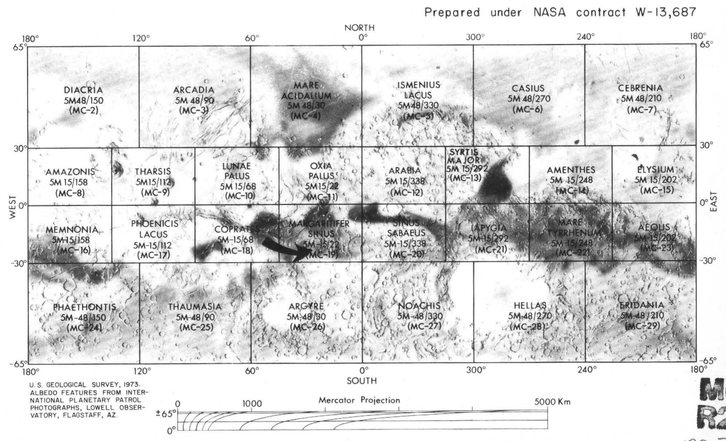
LANDON VALLES AREA OF MARS
(PART OF THE ERYTHRAEUM REGION)

M 250 k -23/28 CM

CONTROLLED PHOTOMOSAIC

OCTOBER 1973

Prepared under NASA contract W-13,687



INDEX MAP OF PART OF MARS SHOWING LOCATION OF THE LANDON VALLES AREA

M(200)
R290
no. 73-317
c.1

Mars. (Landon Valles area). Photomosaic. 1:250,000. 1973
cop. 1.