

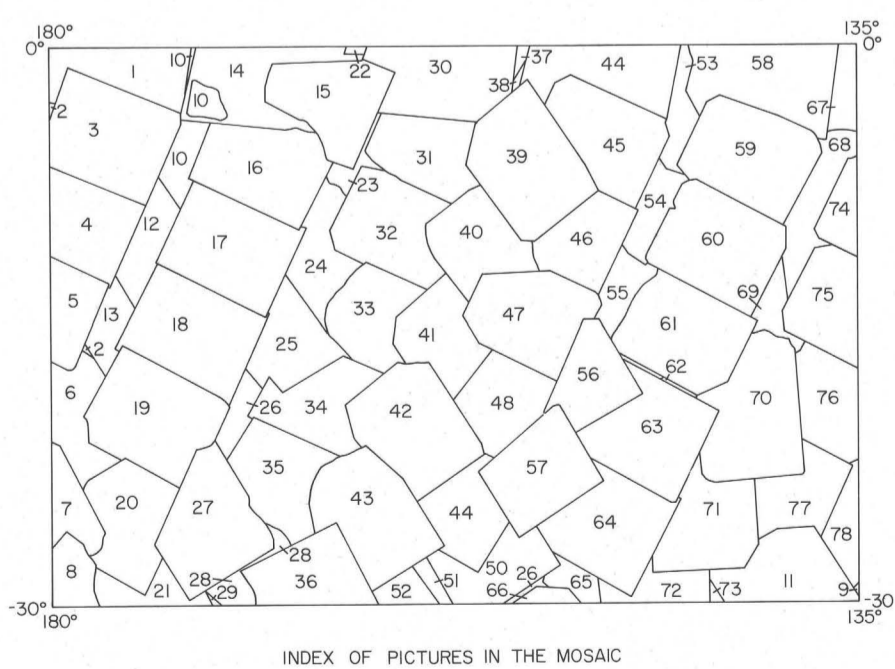
This mosaic was made with Mariner 9 pictures provided by the Jet Propulsion Laboratory (JPL), California Institute of Technology. The Image Processing Laboratory (IPL) of JPL processed the digital pictures to remove image artifacts and geometric distortions, to enhance high-frequency topographic detail while subduing low-frequency albedo variation, and to transform the pictures to a Mercator projection. The U.S. Geological Survey performed further artifact removal and modified contrast and tone of each picture analytically on the digital magnetic tapes provided by IPL for uniformity of tone and contrast within the mosaic. Photographic reproductions of the pictures were generated from the magnetic tapes and mosaicked by the U.S. Geological Survey.

Primary horizontal control points, where available, controlled the placement of pictures. Where these points were not available, picture placement was controlled by spacecraft tracking data and by matching images in overlap zones between pictures. Discrepancies in matching these images are less than 10 km over 90% of the mosaic. The number designations and positions of the primary control points, shown by broken crosses (—), are those given by Davies and Arthur (1973).

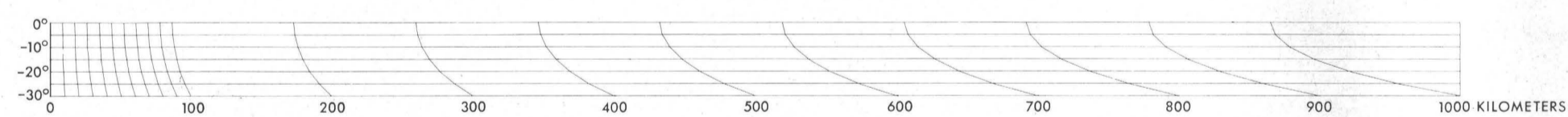
Aerographic latitudes are shown on this mosaic. The projection is based on a theoretical dynamical ellipticity of 1/192. The scale is based on an equatorial radius of 3393.4 km.

Selected References

- Batson, R. M., 1973, Cartographic products from the Mariner 9 mission: Jour. Geophys. Res. (in press).
Davies, M. E., and Arthur, D. W. G., 1973, Martian surface coordinates: Jour. Geophys. Res. (in press).



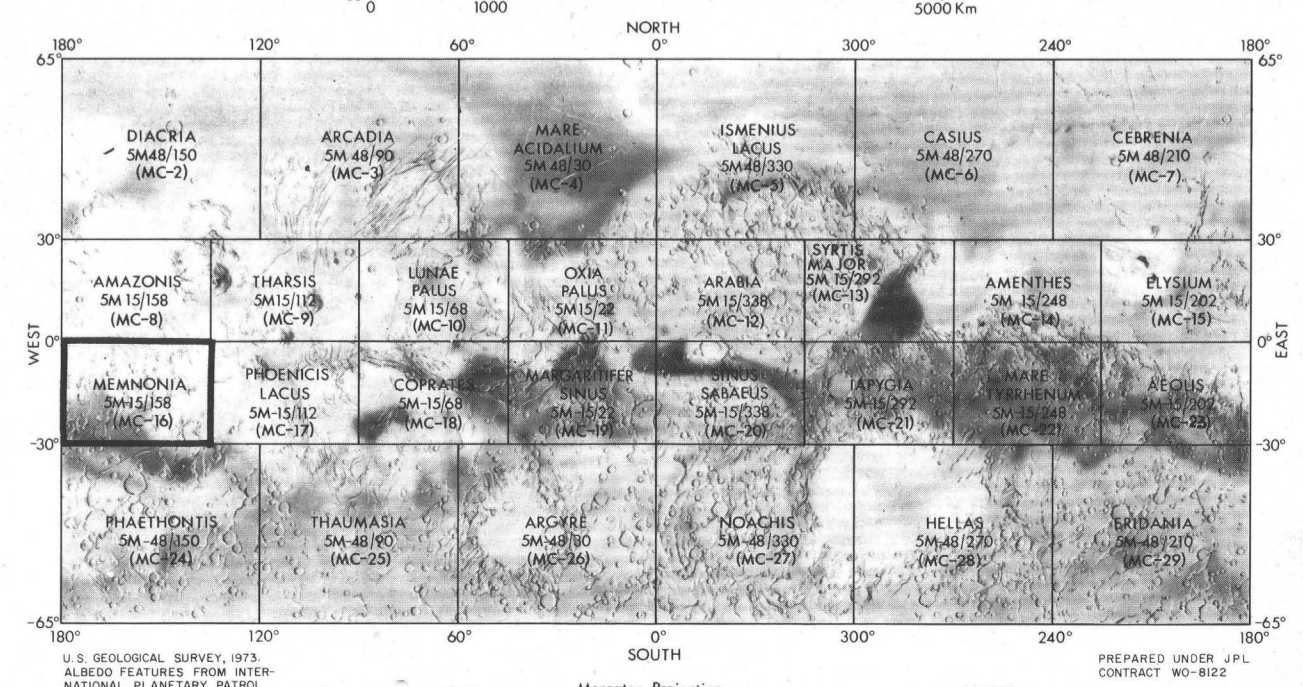
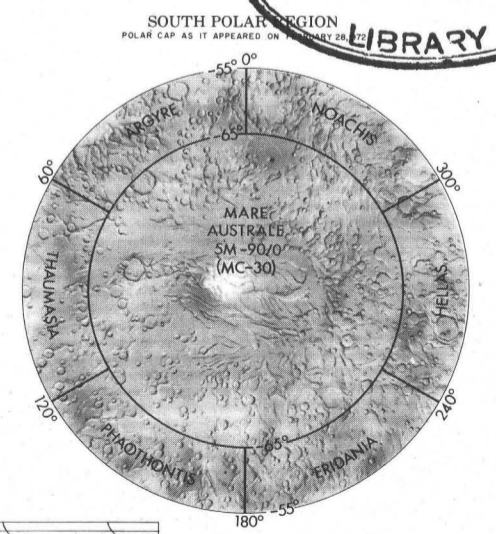
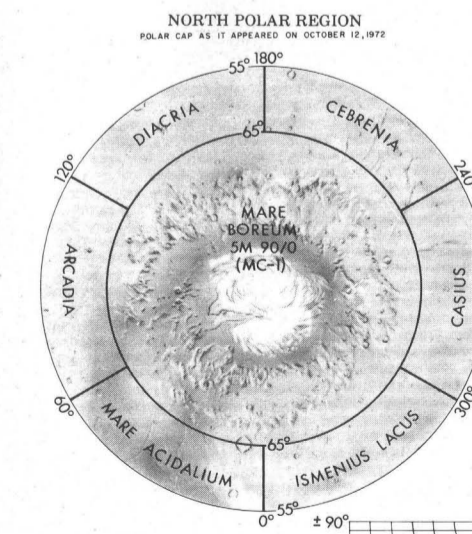
SCALE 1:5,000,000 AT 0° LATITUDE
MERCATOR PROJECTION



Prepared under JPL contract W0-8122
and NASA contract L-55232

IDENTIFICATION NUMBERS OF PICTURES IN THE MOSAIC

Index No.	DAS No.	Index No.	DAS No.	Index No.	DAS No.
1	6607333	27	8153353	53	8297629
2	5920773	28	5347333	54	8297559
3	6606983	29	5347263	55	8297489
4	6606913	30	6751133	56	8297419
5	6606943	31	6750833	57	8297349
6	8081463	32	6750763	58	6895103
7	8081393	33	6750693	59	6894753
8	5275373	34	6750623	60	6894683
9	5635243	35	6750553	61	6894613
10	8081673	36	8225249	62	6424143
11	8441259	37	8225879	63	6904543
12	8081603	38	6679713	64	6894473
13	8081533	39	8225599	65	5491253
14	6679223	40	8225529	66	5491183
15	8153913	41	8225459	67	8369449
16	6678873	42	8225389	68	8369379
17	6678803	43	8225319	69	8369309
18	6678733	44	6823143	70	8369239
19	6678663	45	6822793	71	8369169
20	6678593	46	6822723	72	8369099
21	8153283	47	6822653	73	5563213
22	6679293	48	6822583	74	6960713
23	8153633	49	6822513	75	6966643
24	8153563	50	8297279	76	6966573
25	8153493	51	5419293	77	6966503
26	6208473	52	5419223	78	8441339



**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.

**MEMNONIA
MC-16
M 5M -15/158 SM
SEMICONROLLED PHOTOMOSAIC
MAY 1973**

Mars (Memnonia quad.)
cop. 1.

Photomosaic.

1:5,000,000 1973
LOCATION OF QUADRANGLE ON MARS

U.S. GEOLOGICAL SURVEY
WASHINGTON, D.C.
AUG 29 1973
LIBRARY

M(200)
R290
no. 73-332
c.1