

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

Prepared under JPL contract W0-8122

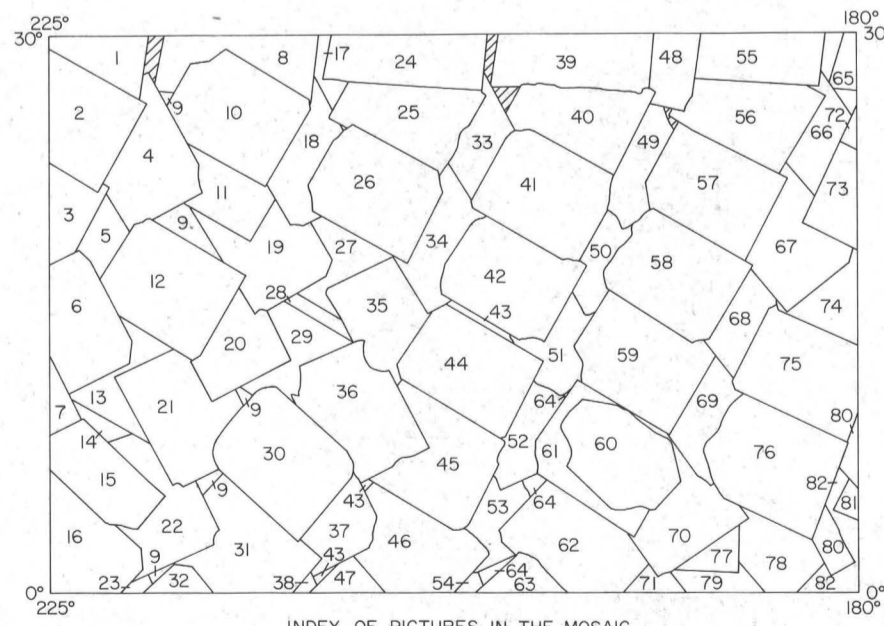
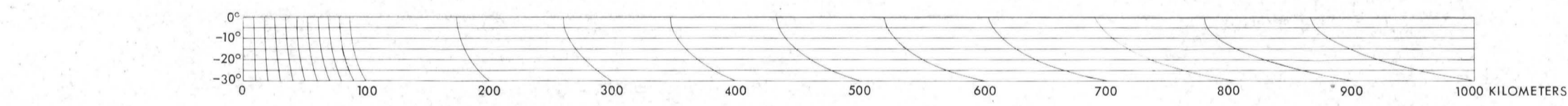
This mosaic was made with Mariner 9 pictures provided by the Jet Propulsion Laboratory (JPL), California Institute of Technology. The Image Processing Laboratory (IPL) of JPL processed the digital pictures to remove image artifacts and geometric distortions, to enhance high-frequency topographic detail 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).

Aræographic 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.

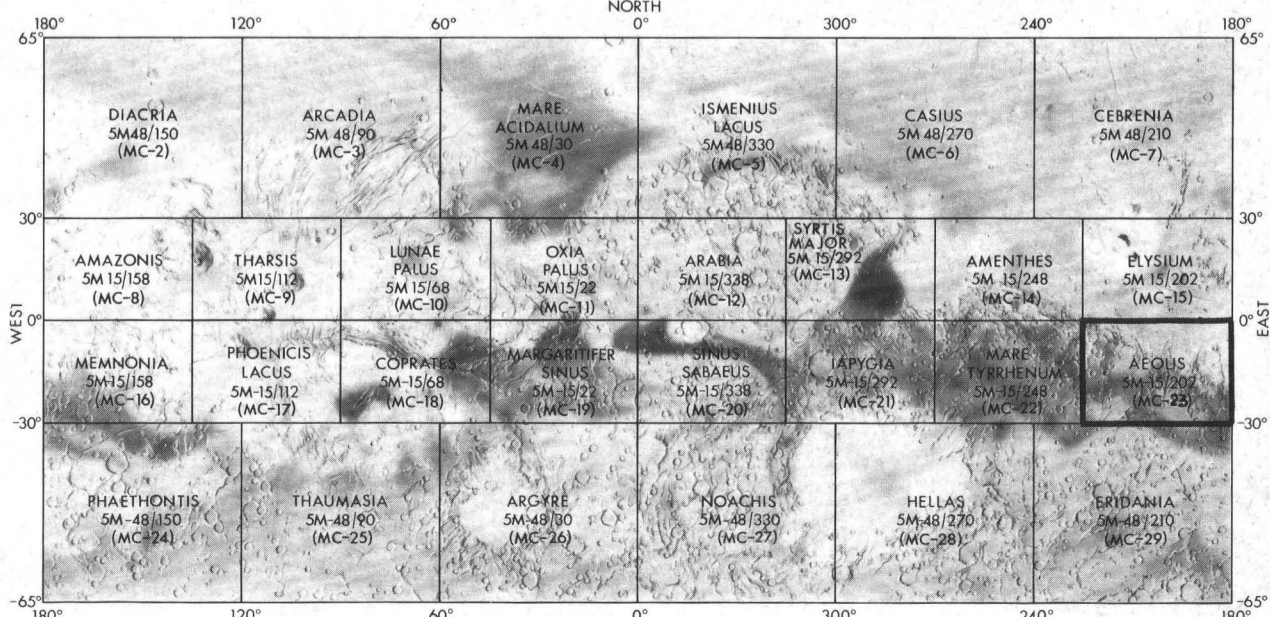
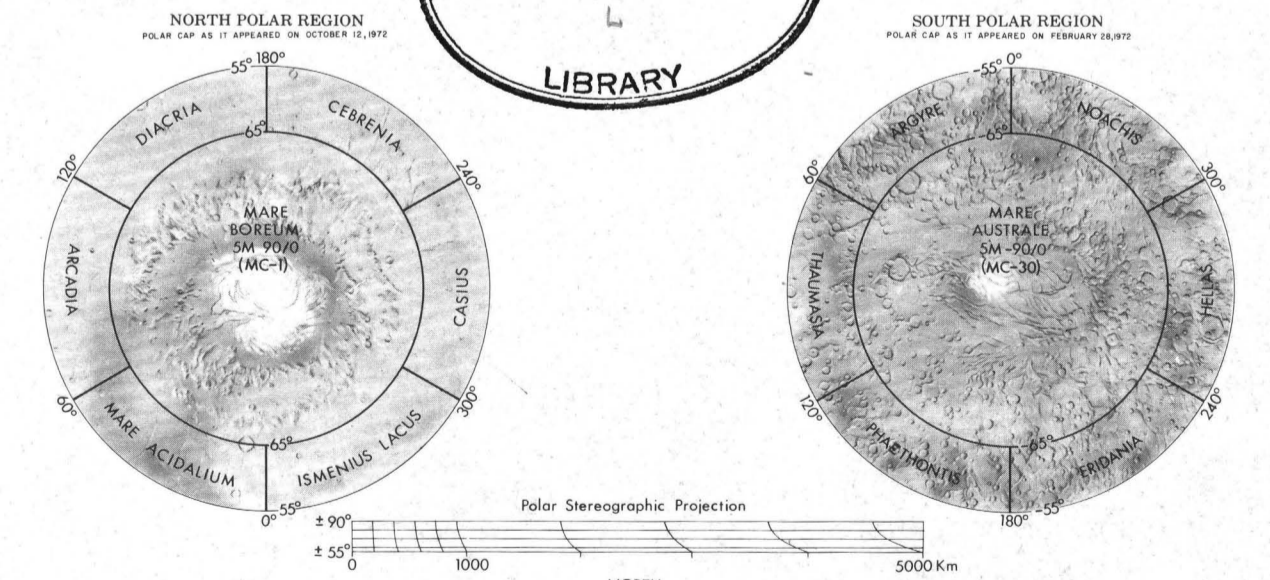
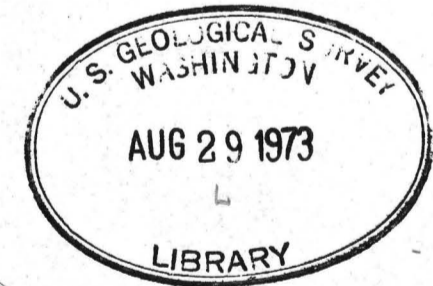
Selected References

- 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).



IDENTIFICATION NUMBERS OF PICTURES IN THE MOSAIC

Index No.	DAS No.	Index No.	DAS No.	Index No.	DAS No.
1	7650823	29	7794043	57	7937963
2	7650473	30	6390893	58	7937893
3	7650403	31	6390823	59	7937823
4	9125169	32	6390753	60	6534673
5	9125099	33	9268949	61	7937753
6	9125029	34	9268879	62	6534603
7	9124959	35	9268809	63	6534533
8	7722713	36	9268739	64	5920773
9	5632793	37	9268669	65	6607333
10	7722363	38	9268599	66	8009783
11	7722293	39	7866493	67	8009713
12	7722223	40	7866423	68	8009643
13	7722153	41	7866353	69	8009573
14	7722083	42	7866283	70	8009503
15	6319003	43	5848813	71	8009433
16	6318933	44	7865933	72	6666983
17	5704753	45	7865863	73	6606913
18	9197059	46	6462713	74	6606843
19	9196989	47	6462643	75	6606773
20	9196919	48	12326301	76	6606703
21	9196849	49	9340839	77	9454199
22	9196779	50	9340769	78	5203483
23	9196709	51	9340699	79	5203413
24	7794603	52	9340629	80	8081393
25	7794533	53	9340559	81	6678593
26	7794463	54	9340489	82	9412799
27	7794393	55	7938383		
28	5776783	56	7938313		



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.

AEOLIS
MC-23

M 5M -I5/22 SM

SEMICONTROLLED PHOTOMOSAIC

JUNE 1973

Mars (Aeolis quad). Photomosaic. 1:5,000,000. 1973.

copy.

LOCATION OF QUADRANGLE ON MARS



M(200) R290

no. 73-339
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