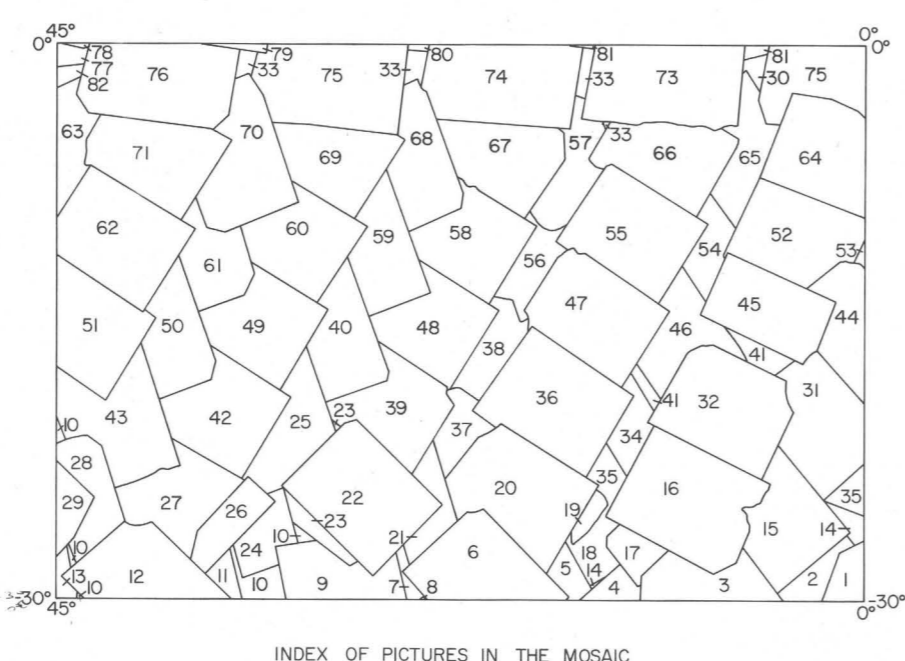


This mosaic was made with Mariner 9 pictures provided by the Jet Propulsion Laboratory (JPL), California Institute of Technology. The Image Processing Laboratory (IPL) of JPL processed the digital pictures to remove image artifacts and geometric distortions, to enhance high-frequency topographic detail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

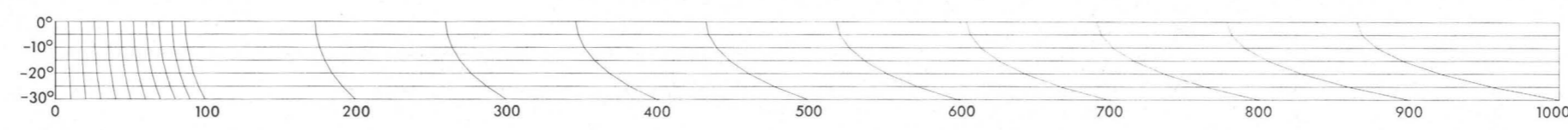
Primary horizontal control points, where available, controlled the placement of pictures. Where these points were not available, picture placement was controlled by spacecraft tracking data and by matching images in overlap zones between pictures. Discrepancies in matching these images are less than 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).



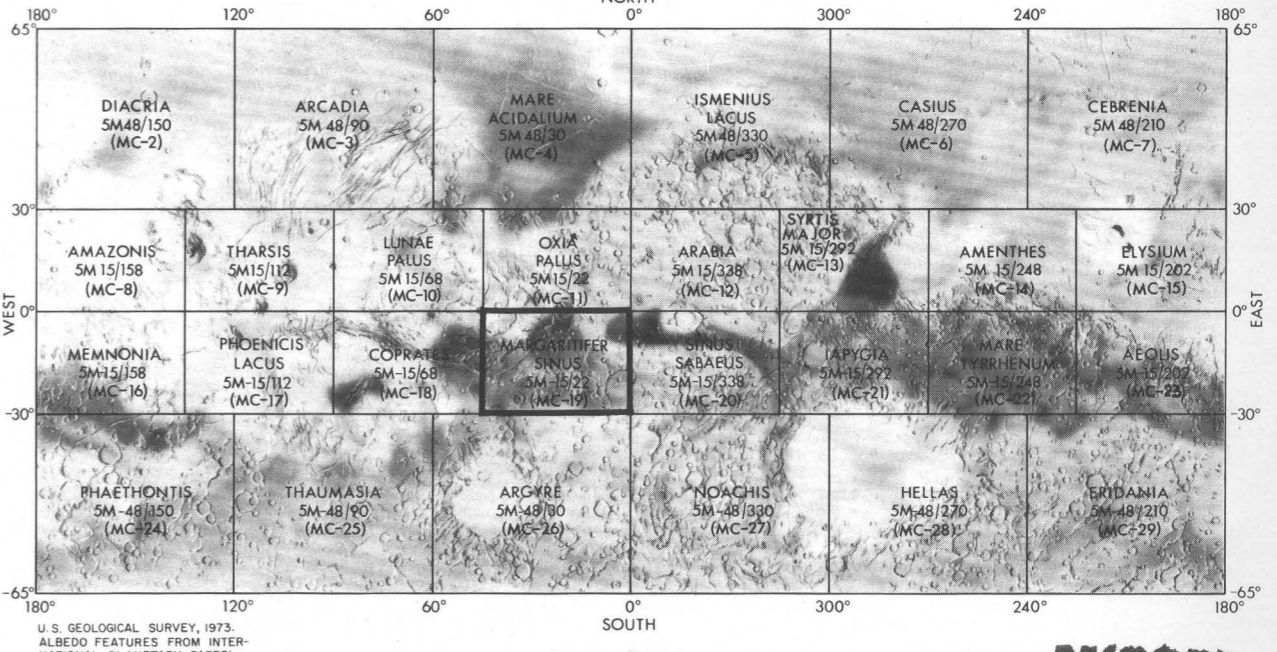
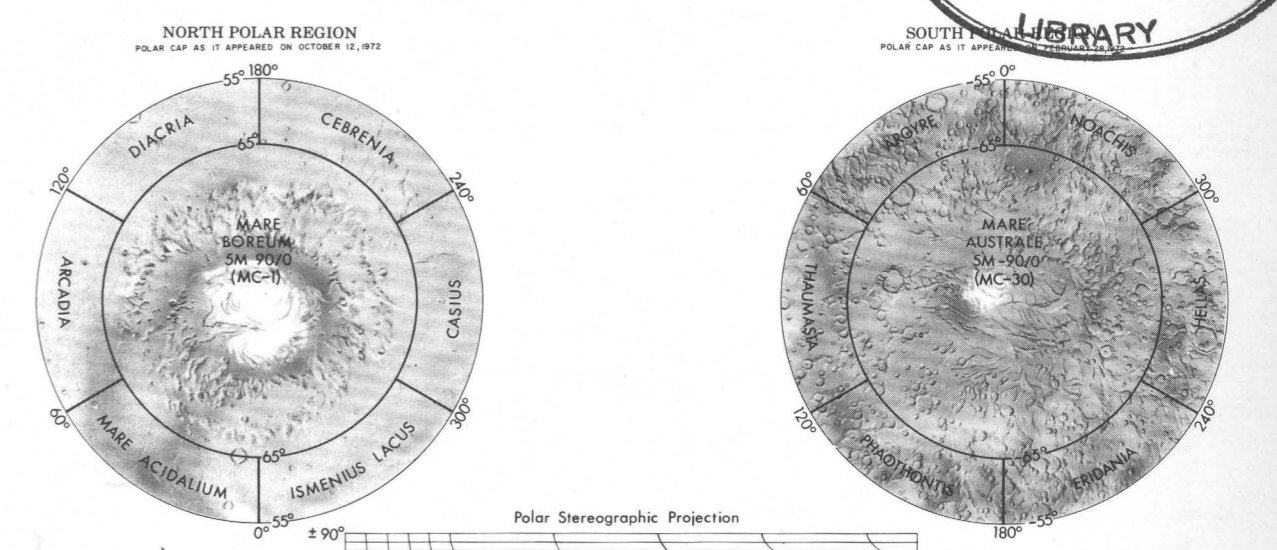
SCALE 1:5,000,000 AT 0° LATITUDE
MERCATOR PROJECTION



Prepared under NASA contract L-55232

IDENTIFICATION NUMBERS OF PICTURES IN THE MOSAIC

Index No.	DAS No.	Index No.	DAS No.	Index No.	DAS No.
1	8117303	29	6283023	57	9304959
2	5239393	30	5884793	58	7830093
3	8045413	31	8045553	59	9232899
4	5167433	32	6570793	60	7758203
5	7973453	33	5812763	61	9161009
6	6498623	34	7973593	62	7686313
7	5740803	35	6642683	63	9089189
8	6498553	36	7901843	64	6571003
9	9304509	37	9304649	65	7973803
10	5668773	38	9304719	66	7902053
11	9232619	39	7829953	67	7830163
12	6354843	40	9232829	68	9232969
13	9160729	41	5956753	69	7758273
14	5239463	42	7758063	70	9161079
15	8045483	43	9160869	71	7686383
16	6570723	44	8045623	72	6571353
17	5167503	45	6570863	73	7902403
18	7973523	46	7973663	74	7830513
19	6498693	47	7901913	75	7758623
20	7901773	48	7830023	76	7686733
21	9304579	49	7758133	77	7615333
22	6426803	50	9160939	78	7614913
23	7829883	51	7686243	79	7686603
24	9232659	52	6570933	80	7758693
25	9232759	53	8045693	81	7830583
26	6354913	54	7973733	82	10492699
27	7757993	55	7901983		
28	9160799	56	9304789		



**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.

**MARGARITIFER SINUS
MC-19**

M 5M -15/22 SM
SEMICONTROLLED PHOTOMOSAIC
APRIL 1973

Mars (Margaritifer Sinus quad.) Photomosaic. LOCATION OF QUADRANGLE ON MARS 1:5,000,000 1973
M(200) R290 no. 73-335 c.1