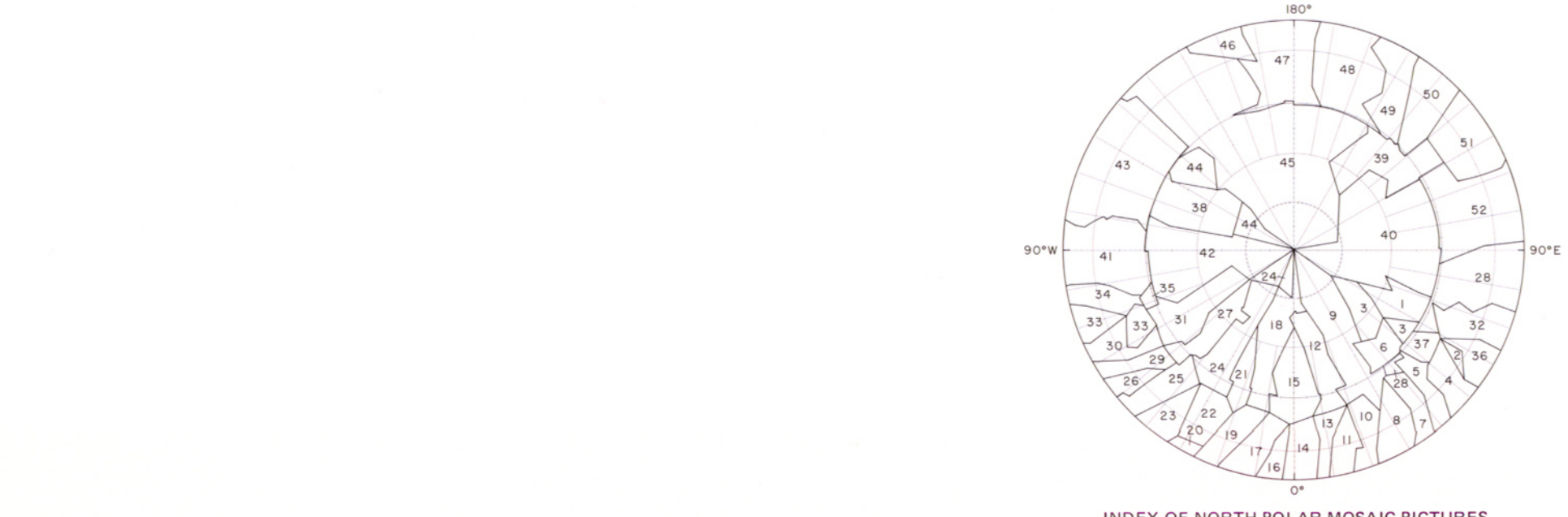
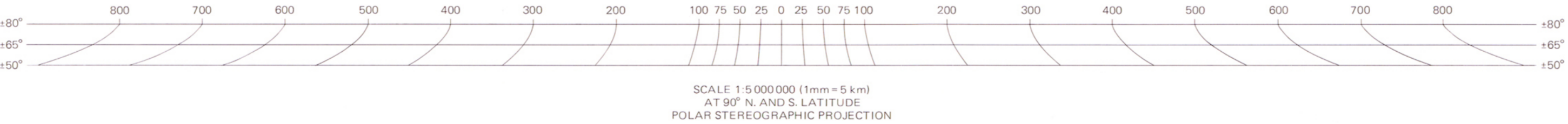
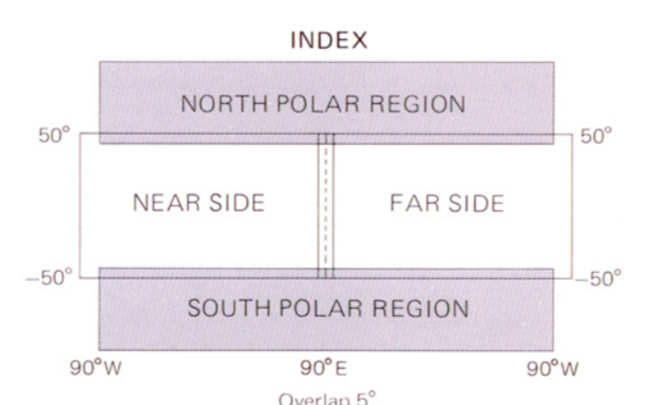


NOTES ON BASE
The lunar surface features shown on this map are portrayed utilizing pictures taken primarily by the Lunar Orbiter IV spacecraft. Some data from Lunar Orbiter V, Apollo orbital films, Mariner 10, and the USSR Zond missions are also used. Shaded relief was drawn with uniform illumination with sun to the east. Airbrush techniques used for this map have been described by Hess and Bridges (1976). Interpretation and airbrush portrayal are by Barbara J. Hall. The color of the shaded relief was selected for optimum discrimination of detail and is not intended to represent the color of the Moon.
Positions of the features are based on photogrammetry made by the Defense Mapping Agency, Topographic Command. The mosaics are tied to the Apollo control system of 1973. Positional discrepancies as large as 23 km at map scale exist in the mosaic base.
LSM 90/0 R. Abbreviation for Lunar 1:5,000,000 series; center of map, lat +90°, long 0°, shaded relief map, R.
REFERENCE
Hess, J. L., and Bridges, P. M., 1976. Applied photointerpretation for airbrush cartography. Photogrammetric Engineering and Remote Sensing, v. 42, no. 6, p. 749-760.



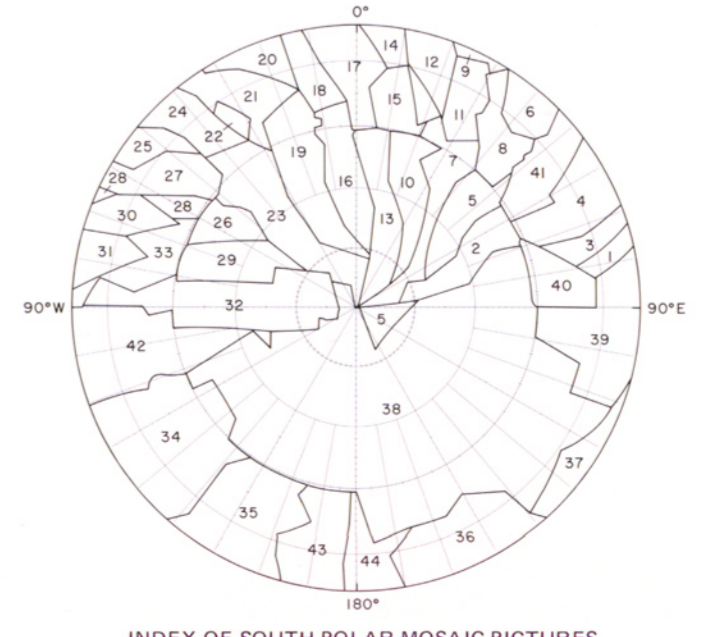
LUNAR ORBITER IV AND V FRAMES

Index No.	High-resolution	Index No.	High-resolution	Index No.	Moderate-resolution
1	IV-10-01	20	IV-10-120	39	IV-10-20
2	IV-10-02	21	IV-10-121	40	IV-10-21
3	IV-10-03	22	IV-10-122	41	IV-10-22
4	IV-10-04	23	IV-10-123	42	IV-10-23
5	IV-10-05	24	IV-10-124	43	IV-10-24
6	IV-10-06	25	IV-10-125	44	IV-10-25
7	IV-10-07	26	IV-10-126	45	IV-10-26
8	IV-10-08	27	IV-10-127	46	IV-10-27
9	IV-10-09	28	IV-10-128	47	IV-10-28
10	IV-10-10	29	IV-10-129	48	IV-10-29
11	IV-10-11	30	IV-10-130	49	IV-10-30
12	IV-10-12	31	IV-10-131	50	IV-10-31
13	IV-10-13	32	IV-10-132	51	IV-10-32
14	IV-10-14	33	IV-10-133	52	IV-10-33
15	IV-10-15	34	IV-10-134		
16	IV-10-16	35	IV-10-135		
17	IV-10-17	36	IV-10-136		
18	IV-10-18	37	IV-10-137		
19	IV-10-19	38	IV-10-138		
20	IV-10-20	39	IV-10-139		
21	IV-10-21	40	IV-10-140		
22	IV-10-22	41	IV-10-141		
23	IV-10-23	42	IV-10-142		
24	IV-10-24	43	IV-10-143		
25	IV-10-25	44	IV-10-144		
26	IV-10-26	45	IV-10-145		
27	IV-10-27	46	IV-10-146		
28	IV-10-28	47	IV-10-147		
29	IV-10-29	48	IV-10-148		
30	IV-10-30	49	IV-10-149		
31	IV-10-31	50	IV-10-150		
32	IV-10-32	51	IV-10-151		
33	IV-10-33	52	IV-10-152		
34	IV-10-34				
35	IV-10-35				
36	IV-10-36				
37	IV-10-37				
38	IV-10-38				
39	IV-10-39				
40	IV-10-40				
41	IV-10-41				
42	IV-10-42				
43	IV-10-43				
44	IV-10-44				
45	IV-10-45				
46	IV-10-46				
47	IV-10-47				
48	IV-10-48				
49	IV-10-49				
50	IV-10-50				
51	IV-10-51				
52	IV-10-52				

SHADED RELIEF MAP OF THE LUNAR POLAR REGIONS
1981

LUNAR ORBITER II, III, IV and V FRAMES

Index No.	High-resolution	Index No.	High-resolution	Index No.	Moderate-resolution
1	IV-10-38	36	IV-10-130	56	IV-10-75
2	IV-10-41	37	IV-10-131	57	IV-10-76
3	IV-10-44	38	IV-10-132	58	IV-10-77
4	IV-10-47	39	IV-10-133	59	IV-10-78
5	IV-10-50	40	IV-10-134	60	IV-10-79
6	IV-10-53	41	IV-10-135	61	IV-10-80
7	IV-10-56	42	IV-10-136	62	IV-10-81
8	IV-10-59	43	IV-10-137	63	IV-10-82
9	IV-10-62	44	IV-10-138	64	IV-10-83
10	IV-10-65	45	IV-10-139	65	IV-10-84
11	IV-10-68	46	IV-10-140	66	IV-10-85
12	IV-10-71	47	IV-10-141	67	IV-10-86
13	IV-10-74	48	IV-10-142	68	IV-10-87
14	IV-10-77	49	IV-10-143	69	IV-10-88
15	IV-10-80	50	IV-10-144	70	IV-10-89
16	IV-10-83	51	IV-10-145	71	IV-10-90
17	IV-10-86	52	IV-10-146	72	IV-10-91
18	IV-10-89	53	IV-10-147	73	IV-10-92
19	IV-10-92	54	IV-10-148	74	IV-10-93
20	IV-10-95	55	IV-10-149	75	IV-10-94
21	IV-10-98	56	IV-10-150	76	IV-10-95
22	IV-10-101	57	IV-10-151	77	IV-10-96
23	IV-10-104	58	IV-10-152	78	IV-10-97
24	IV-10-107	59	IV-10-153	79	IV-10-98
25	IV-10-110	60	IV-10-154	80	IV-10-99
26	IV-10-113	61	IV-10-155	81	IV-10-100
27	IV-10-116	62	IV-10-156	82	IV-10-101
28	IV-10-119	63	IV-10-157	83	IV-10-102
29	IV-10-122	64	IV-10-158	84	IV-10-103
30	IV-10-125	65	IV-10-159	85	IV-10-104
31	IV-10-128	66	IV-10-160	86	IV-10-105
32	IV-10-131	67	IV-10-161	87	IV-10-106
33	IV-10-134	68	IV-10-162	88	IV-10-107
34	IV-10-137	69	IV-10-163	89	IV-10-108
35	IV-10-140	70	IV-10-164	90	IV-10-109
36	IV-10-143	71	IV-10-165	91	IV-10-110
37	IV-10-146	72	IV-10-166	92	IV-10-111
38	IV-10-149	73	IV-10-167	93	IV-10-112
39	IV-10-152	74	IV-10-168	94	IV-10-113
40	IV-10-155	75	IV-10-169	95	IV-10-114
41	IV-10-158	76	IV-10-170	96	IV-10-115
42	IV-10-161	77	IV-10-171	97	IV-10-116
43	IV-10-164	78	IV-10-172	98	IV-10-117
44	IV-10-167	79	IV-10-173	99	IV-10-118
45	IV-10-170	80	IV-10-174	100	IV-10-119
46	IV-10-173	81	IV-10-175		
47	IV-10-176	82	IV-10-176		
48	IV-10-179	83	IV-10-177		
49	IV-10-182	84	IV-10-178		
50	IV-10-185	85	IV-10-179		
51	IV-10-188	86	IV-10-180		
52	IV-10-191	87	IV-10-181		
53	IV-10-194	88	IV-10-182		
54	IV-10-197	89	IV-10-183		
55	IV-10-200	90	IV-10-184		
56	IV-10-203	91	IV-10-185		
57	IV-10-206	92	IV-10-186		
58	IV-10-209	93	IV-10-187		
59	IV-10-212	94	IV-10-188		
60	IV-10-215	95	IV-10-189		
61	IV-10-218	96	IV-10-190		
62	IV-10-221	97	IV-10-191		
63	IV-10-224	98	IV-10-192		
64	IV-10-227	99	IV-10-193		
65	IV-10-230	100	IV-10-194		



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NOTE TO USERS
Users noting errors or omissions are urged to indicate them on the map and to forward it to U.S. Geological Survey, Building 4, Room 64, 2255 North Gemini Drive, Flagstaff, Arizona 86001. A replacement copy will be returned.