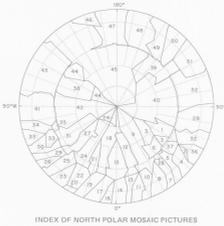
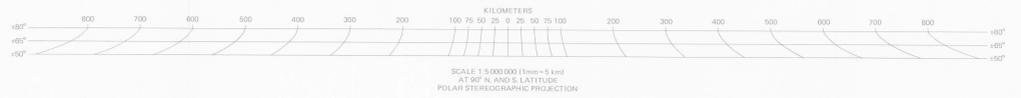


**NOTES ON BASE**  
The lunar surface features shown on this map are portrayed utilizing pictures taken primarily by the Lunar Orbiter IV spacecraft. Some data from Lunar Orbiter V, Apollo orbital flights, Mariner 10, and the USSR Zond missions are also used. Shaded relief was drawn with uniform illumination with sun to the east. Airbrush techniques used for this map have been described by Inge and Bridges (1976). Interpretation and airbrush portrayal are by Barbara J. Inge. 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 photocoordinates made by the Defense Mapping Agency, Topographic Command. The meridia are tied to the Apollo control system of 1973. Positional discrepancies as large as 25 km at map scale exist in the moonbase.  
LSM + 90/0 R. Abbreviation for Lunar 1:5,000,000 series, center of map, lat + 90°, long 0° shaded relief map, R.

**REFERENCE**  
Inge, J. L., and Bridges, P. M., 1976. Airbrush photointerpretation for airbrush cartography. Photogrammetric Engineering and Remote Sensing, v. 42, no. 6, p. 545-560.



**LUNAR ORBITER IV AND V FRAMES**

Index No.	High-resolution	Index No.	High-resolution	Index No.	Medium-resolution
1	IV-11-01	20	IV-11-129	39	IV-11-02
2	IV-11-02	21	IV-11-130	40	IV-11-03
3	IV-11-03	22	IV-11-131	41	IV-11-04
4	IV-11-04	23	IV-11-132	42	IV-11-05
5	IV-11-05	24	IV-11-133	43	IV-11-06
6	IV-11-06	25	IV-11-134	44	IV-11-07
7	IV-11-07	26	IV-11-135	45	IV-11-08
8	IV-11-08	27	IV-11-136	46	IV-11-09
9	IV-11-09	28	IV-11-137	47	IV-11-10
10	IV-11-10	29	IV-11-138	48	IV-11-11
11	IV-11-11	30	IV-11-139		
12	IV-11-12	31	IV-11-140		
13	IV-11-13	32	IV-11-141		
14	IV-11-14	33	IV-11-142		
15	IV-11-15	34	IV-11-143		
16	IV-11-16	35	IV-11-144		
17	IV-11-17	36	IV-11-145		
18	IV-11-18	37	IV-11-146		
19	IV-11-19	38	IV-11-147		
20	IV-11-20	39	IV-11-148		
21	IV-11-21	40	IV-11-149		
22	IV-11-22	41	IV-11-150		
23	IV-11-23	42	IV-11-151		
24	IV-11-24	43	IV-11-152		
25	IV-11-25	44	IV-11-153		
26	IV-11-26	45	IV-11-154		
27	IV-11-27	46	IV-11-155		
28	IV-11-28	47	IV-11-156		
29	IV-11-29	48	IV-11-157		
30	IV-11-30				
31	IV-11-31				
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40	IV-11-40				
41	IV-11-41				
42	IV-11-42				
43	IV-11-43				
44	IV-11-44				
45	IV-11-45				
46	IV-11-46				
47	IV-11-47				
48	IV-11-48				

**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.	Medium-resolution
1	IV-11-01	18	IV-11-130	36	IV-11-06
2	IV-11-02	19	IV-11-131	37	IV-11-07
3	IV-11-03	20	IV-11-132	38	IV-11-08
4	IV-11-04	21	IV-11-133	39	IV-11-09
5	IV-11-05	22	IV-11-134	40	IV-11-10
6	IV-11-06	23	IV-11-135	41	IV-11-11
7	IV-11-07	24	IV-11-136	42	IV-11-12
8	IV-11-08	25	IV-11-137	43	IV-11-13
9	IV-11-09	26	IV-11-138	44	IV-11-14
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14	IV-11-14	31	IV-11-143		
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16	IV-11-16	33	IV-11-145		
17	IV-11-17	34	IV-11-146		
18	IV-11-18	35	IV-11-147		
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41	IV-11-41				
42	IV-11-42				
43	IV-11-43				
44	IV-11-44				
45	IV-11-45				
46	IV-11-46				
47	IV-11-47				
48	IV-11-48				



**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 A, Room 6A, 2255 North Gemini Drive, Flagstaff, Arizona 86001. A replacement copy will be returned.