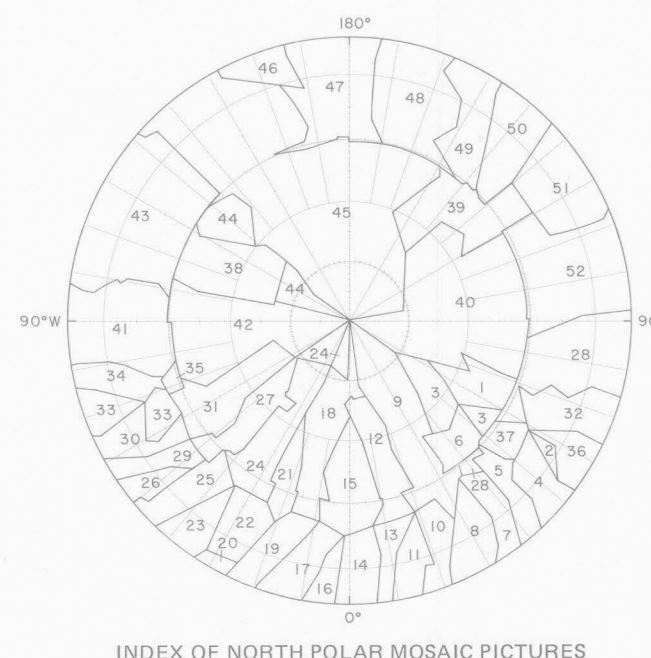


NOTES ON BASE
The lunar surface features shown on this map are portrayed utilizing pictures taken primarily by the Lunar Orbiter IV spacecraft. Some data from Lunar Orbiter V, Apollo orbital flights, Mariner 10, and the USSR Zond missions are also used. Shaded relief was drawn with uniform illumination with sun to the east. Airbrush techniques used for this map have been described by Iago and Bouldin (1976). Interpretation and cartographic portrayal are by Barbara J. Hill. Ray patterns and albedo differences are incomplete due to the limitations of the source materials. The color of the shaded relief was selected for optimum determination of detail and is not intended to represent the color of the Moon. Positions of the features are based on photostereos made by the Defense Mapping Agency, Topographic Command. The mosaic is tied to the Apollo control system of 1973. Positional discrepancies as large as 25 km at map scale exist in the mosaic base.

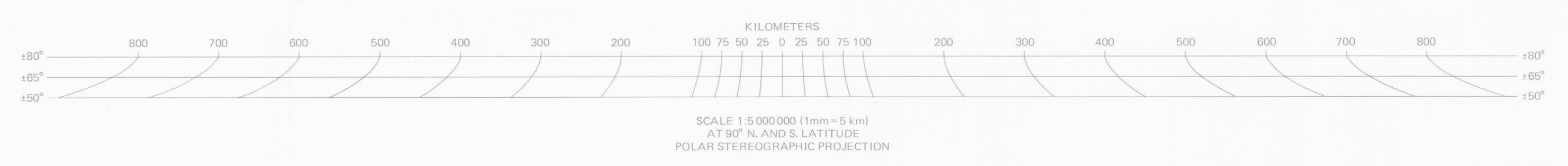
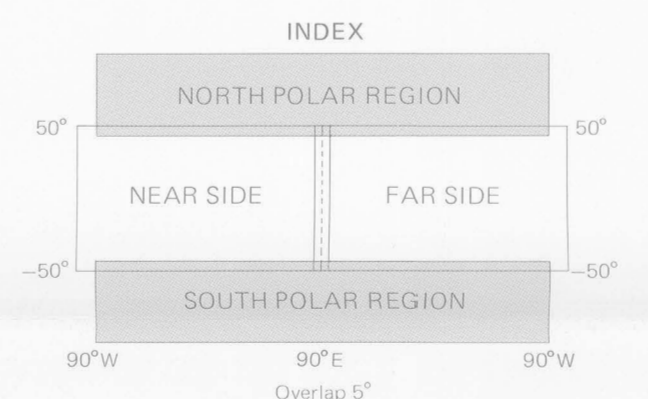
NOMENCLATURE
This sheet includes feature names officially approved by the International Astronomical Union (1980). Provisional names are not included. Spelling conforms to IAU recommendations except for the more recognizable forms listed below. Letter designations have been applied to a selection of prominent but unnamed farside craters using the NASA-approved alphanumeric scheme illustrated below. Letters are placed on the center side closest to the patronymic or "parent" crater.

Feature names with classified spelling: Casini, Engelhardt.
Feature names omitted: Doria Dana, Dorman Choo.
LSM 90/0 AN: Abbreviation for Lunar 1:5,000,000 series; center of map, lat + 90°, long 0°; shaded relief map with albedo markings, A, and nomenclature, N.
REFERENCES
Iago, J. L., and Bouldin, P. M. 1976. Aerial photostereoscopy for airbrush cartography. Photogrammetric Engineering and Remote Sensing, v. 42, no. 6, p. 749-760.
International Astronomical Union, 1980. Working Group for Planetary System Nomenclature. In IAU General Assembly, Montreal, 1979. Proceedings: International Astronomical Union Transactions, v. 17B, p. 286-290.



LUNAR ORBITER IV AND V FRAMES

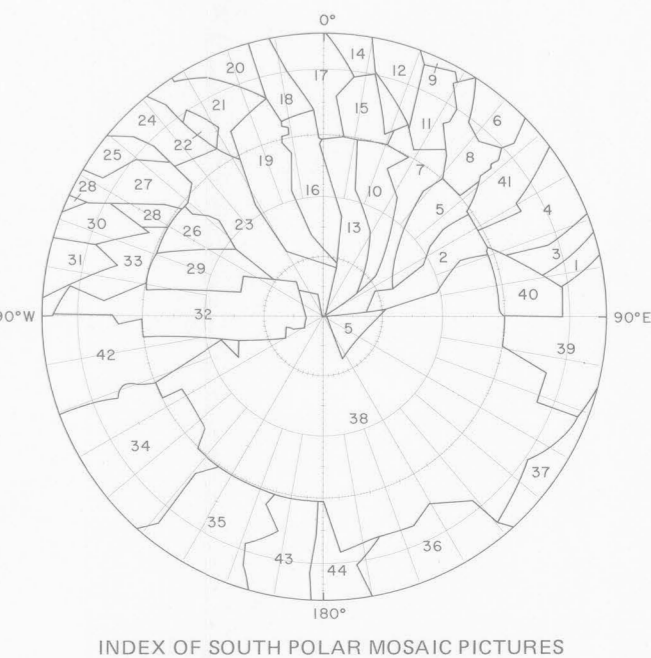
Index No.	High-resolution	Index No.	High-resolution	Index No.	Moderate-resolution
1	IV-10-200	20	IV-10-100	39	IV-10-20
2	IV-10-201	21	IV-10-101	40	IV-10-21
3	IV-10-202	22	IV-10-102	41	IV-10-22
4	IV-10-203	23	IV-10-103	42	IV-10-23
5	IV-10-204	24	IV-10-104	43	IV-10-24
6	IV-10-205	25	IV-10-105	44	IV-10-25
7	IV-10-206	26	IV-10-106	45	IV-10-26
8	IV-10-207	27	IV-10-107	46	IV-10-27
9	IV-10-208	28	IV-10-108	47	IV-10-28
10	IV-10-209	29	IV-10-109	48	IV-10-29
11	IV-10-210	30	IV-10-110	49	IV-10-30
12	IV-10-211	31	IV-10-111	50	IV-10-31
13	IV-10-212	32	IV-10-112	51	IV-10-32
14	IV-10-213	33	IV-10-113	52	IV-10-33
15	IV-10-214	34	IV-10-114	53	IV-10-34
16	IV-10-215	35	IV-10-115	54	IV-10-35
17	IV-10-216	36	IV-10-116	55	IV-10-36
18	IV-10-217	37	IV-10-117	56	IV-10-37



MAP SHOWING RELIEF AND SURFACE MARKINGS 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-10-200	20	IV-10-100	39	IV-10-20
2	IV-10-201	21	IV-10-101	40	IV-10-21
3	IV-10-202	22	IV-10-102	41	IV-10-22
4	IV-10-203	23	IV-10-103	42	IV-10-23
5	IV-10-204	24	IV-10-104	43	IV-10-24
6	IV-10-205	25	IV-10-105	44	IV-10-25
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13	IV-10-212	32	IV-10-112	51	IV-10-32
14	IV-10-213	33	IV-10-113	52	IV-10-33
15	IV-10-214	34	IV-10-114	53	IV-10-34
16	IV-10-215	35	IV-10-115	54	IV-10-35
17	IV-10-216	36	IV-10-116	55	IV-10-36
18	IV-10-217	37	IV-10-117	56	IV-10-37



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Aeronautics and Space Administration under contract
W-13,709

NOTE TO USERS
Users making errors or omissions are urged to indicate them
on the map and to forward it to U. S. Geological Survey,
Building 8, Room 8A, 2250 North Camelot Drive, Flagstaff,
Arizona 86001. A replacement copy will be returned.