APOLLO 14	
CSM LUNAR LANDMARK MAPS	
PART NO.	S/N
SKB32100083-322	1002

INDEX SHEET
LAUNCH DATE JANUARY 31, 1971

TYPE	NUMBER	LATITUDE	LONGITUDE	DIAMETER (ft)	SCALE	TAB
Selenodetic Reference Point	Mösting A ★	-03.250	-05.283	39070	1:2.5M Oblique	MOST A
Training Landmark	H-3	-03.691	-07.542	2830	15° Oblique 1:300 K	H-3
Landing Site Landmarks	14-1	-04.046	-15.600	1110	15° Oblique	14-2
	14-2	-03.610	-15.317	1790	15° Oblique	
	14-3	-03.919	-15.139	1975	15° Oblique	14-4
	14-4	-03.470	-14.890	2010	15° Oblique	
	14-1,2,3,4	———	———	———	30° Oblique Apollo Obl 1:300K 1:630K	14-1-4 OBL
Landing Site	———	-03.672	-17.463	———	1:25K	SITE
Selenodetic Reference Points	RP-3 ★	-03.533	+131.700	17335	1:2.5M 1:630K	RP-3
	RP-5 ★	-10.567	+99.400	18090	1:2.5M Oblique	RP-5
	Daguerre 66 ★	-11.717	+33.200	6015	1:2.5M Oblique	DAG 66
	RP-2 ★	-00.283	+141.250	23670	1:2.5M Oblique	RP-2
	12-1	-05.736	+112.309	3230	1:2.5M 1:630K	12-1
	Dollond E ★	-10.433	+15.733	16820	1:2.5M 1:630K	DOLL E
	FM-1	-03.246	-17.317	3130	1:2.5M Oblique	FM-1
	RP-4 ★	-05.850	+120.250	7820	1:2.5M 1:630K	RP-4
	Ansgarius N ★	-11.633	+81.067	32790	1:2.5M 1:630K	ANSG N

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TYPE	NUMBER	LATITUDE	LONGITUDE	DIAMETER (ft)	SCALE	TAB
Control Point	DE-2	-09.250	+19.592	2840	1:2.5M 1:630K	DE-2
Selenodetic Reference Point	Encke E ★	+00.238	-40.300	27260	1:2.5M 1:630K	ENCKE E
LTC backup targets (500 mm lens)	Descartes	-08.858	+15.517	———	Oblique 1:630K	DESC COAS
Zero Phase Landmarks *	1 & 2	———	———	———	1:2.5M	LDMK 1 & 2
	1	-06.530	+128.580	A-30380 B-40102 C-11544	30° Oblique 1:630K	1-A,B,C
	2	-08.090	+119.940	A-8220 B-21300	Oblique ~~1:630K~~ 1:1M	2-~~A,B~~
	3 & 4	———	———	———	1:2.5M	LDMK 3 & 4
	3	-09.260	-03.160	A-10572 B-10572	Oblique 1:630K	3-A,B
	4	-07.520	-14.270	A-12760 B-5000	Oblique 1:630K	4-A,B
	5 & 6	———	———	———	1:2.5M	LDMK 5 & 6
	5	-08.480	+112.910	A-18471 B-7716 C-13853	Oblique 1:630K	5-A,B,C
	6	-09.520	+104.810	A-13245 B-15433 C-9114	Oblique 1:630K	6-A,B,C
	7 & 8	———	———	———	1:2.5M	LDMK 7 & 8
	7	-04.760	-18.950	A-12638 B-7595 C-10572	Oblique 1:630K	7-A,B,C
	8	-03.940	-24.190	A-19443 B-6319 C-8446	Oblique 1:630K	8-A,B,C
Visual Targets	1	———	———	———	———	V-1
	2	———	———	———	———	V-2

★TRACKING PRIORITIES:

1. Small crater on rim
2. Small crater outside the rim, no more than 1/2 diameter from large crater

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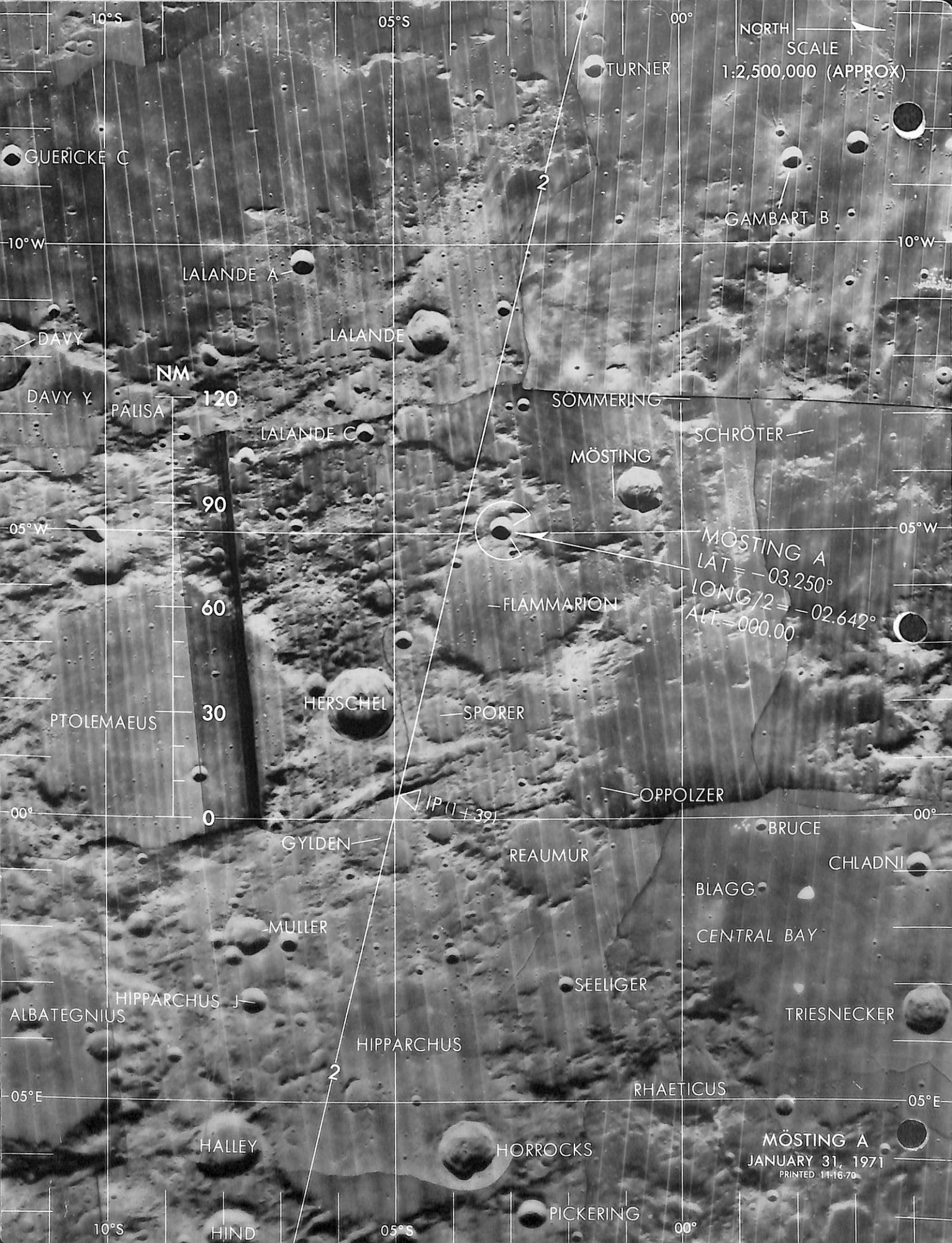
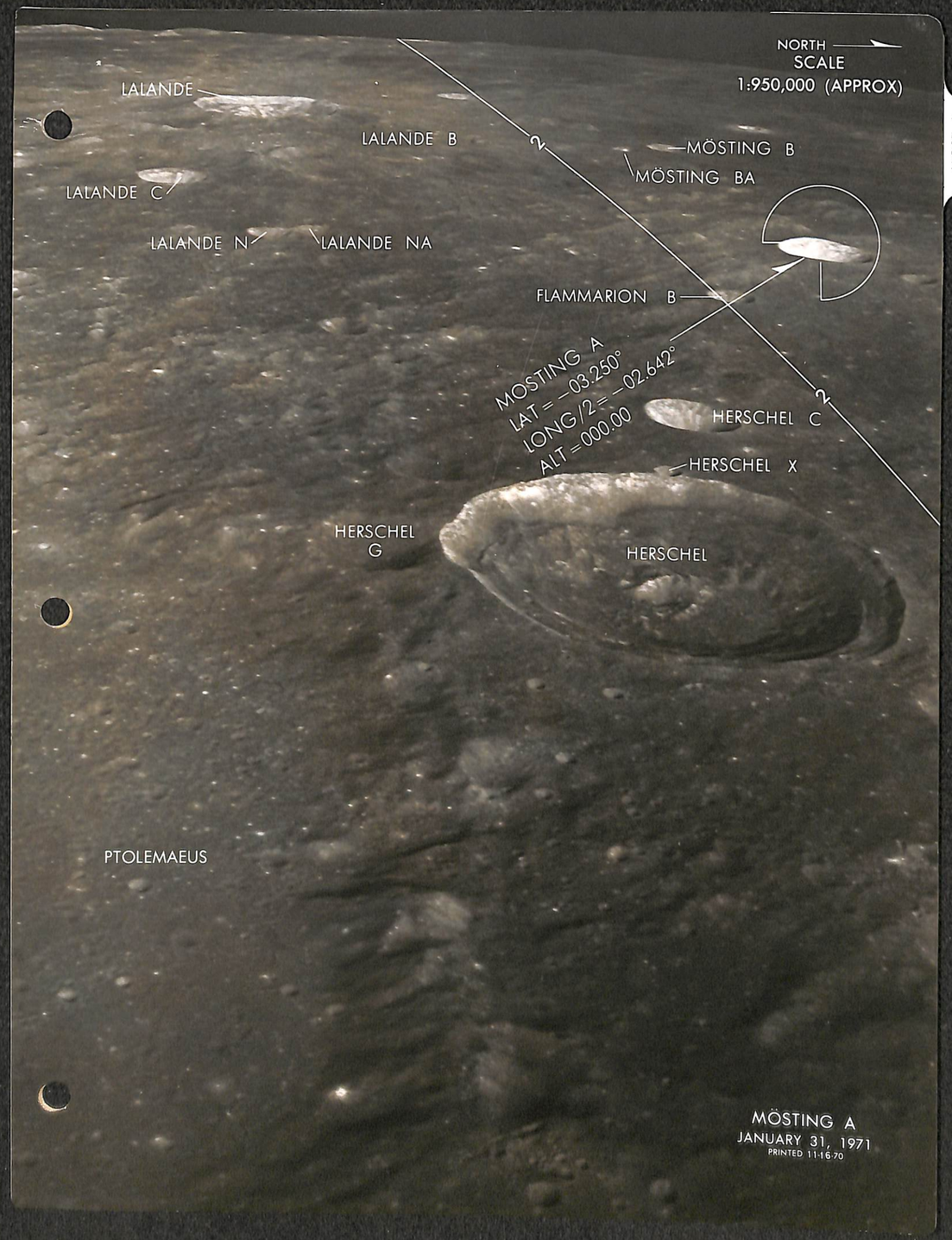
*The coordinates are for the Zero Phase Point, not the individual landmarks.


10°S
05°S
00°
NORTH
SCALE
1:2,500,000 (APPROX)
TURNER
GUERICKE C
GAMBART B
10°W
LALANDE A
DAVY
LALANDE
NM
120
DAVY Y
PALISA
SÖMMERING
LALANDE C
SCHRÖTER
MÖSTING
90
05°W
MÖSTING A
LAT = −03.250°
LONG/2 = −02.642°
ALT = 000.00
60
FLAMMARION
PTOLEMAEUS
30
HERSCHEL
SPORER
OPPOLZER
0
IP (1 + 39)
BRUCE
GYLDEN
REAUMUR
CHLADNI
BLAGG
MULLER
CENTRAL BAY
SEELIGER
HIPPARCHUS J
ALBATEGNIUS
TRIESNECKER
HIPPARCHUS
RHAETICUS
05°E
HALLEY
HORROCKS
MÖSTING A
JANUARY 31, 1971
PRINTED 11-16-70
PICKERING
HIND


NORTH
SCALE
1:950,000 (APPROX)
LALANDE
LALANDE B
LALANDE C
LALANDE N
LALANDE NA
MÖSTING B
MÖSTING BA
FLAMMARION B
MOSTING A
LAT = −03.250°
LONG/2 = −02.642°
ALT = 000.00
HERSCHEL C
HERSCHEL X
HERSCHEL G
HERSCHEL
PTOLEMAEUS
MÖSTING A
JANUARY 31, 1971
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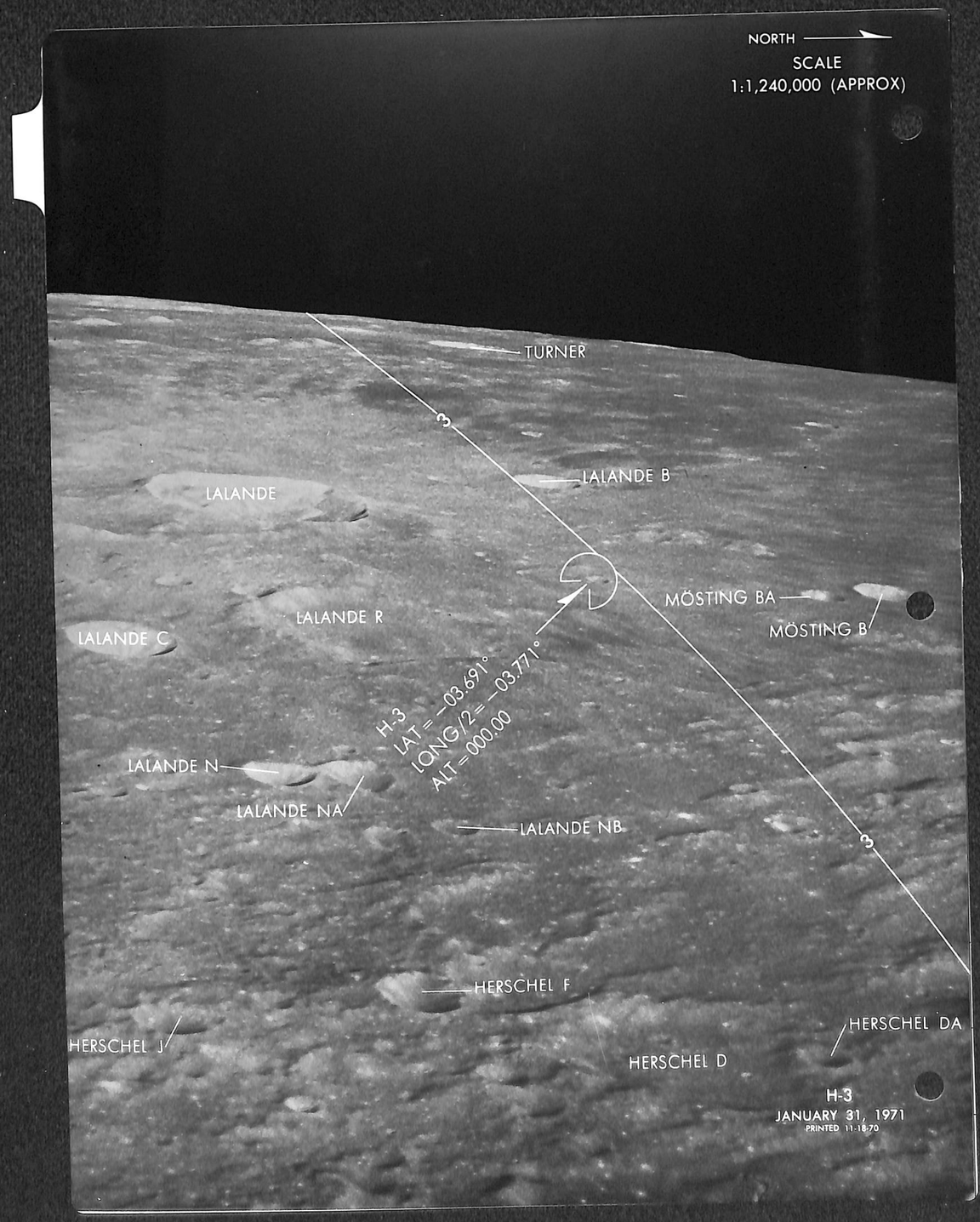
MOST A


NORTH
SCALE
1:1,240,000 (APPROX)
TURNER
LALANDE B
LALANDE
LALANDE R
LALANDE C
MÖSTING BA
MÖSTING B
H-3
LAT=-03.691°
LONG/2=-03.771°
ALT=000.00
LALANDE N
LALANDE NA
LALANDE NB
HERSCHEL F
HERSCHEL J
HERSCHEL D
HERSCHEL DA
H-3
JANUARY 31, 1971
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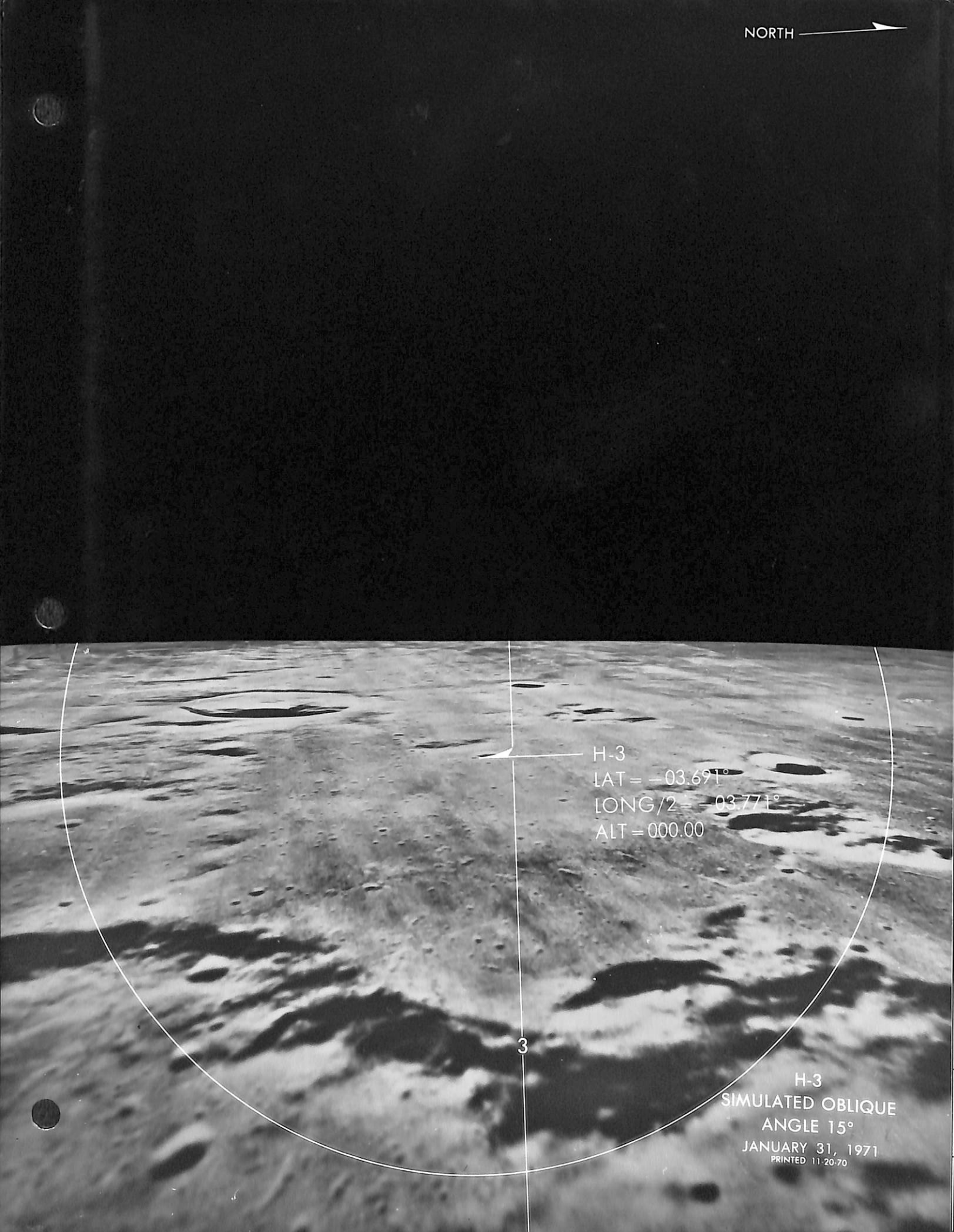
NORTH
H-3
LAT = −03.691°
LONG/2 = −03.771°
ALT = 000.00
3
H-3
SIMULATED OBLIQUE
ANGLE 15°
JANUARY 31, 1971
PRINTED 11-20-70

04°S
03°S
NORTH
SCALE
1:300,000 (APPROX)
08°W
LALANDE
08°W
3
H-3
LAT = −03.691°
LONG/2 = −03.771°
ALT = 000.00
MÖSTING B
MÖSTING BA
07°W
LALANDE R
MÖSTING U
06°W
06°W
LALANDE NA
MÖSTING A
05°W
LALANDE
NB


06° W
LALANDE NA
LALANDE NB
MÖSTING A
05° W
FLAMMARION B
04° W
HERSCHEL F
FLAMMARION
HERSCHEL DA
HERSCHEL D
IP (1+27)
03° W
HERSCHEL C
H-3
JANUARY 31, 1971
PRINTED 11 20 70
05° S
04° S

LANDING SITE LANDMARK DATA SHEET

LAUNCH DATE JANUARY 31, 1971

ELLIPSE CENTER DATA

LATITUDE (0.001°)	LONG/2 (0.001°)	LONGITUDE (0.001°)	ALTITUDE (0.01 NM)
-03.672	-08.732	-17.463	-000.76

LANDMARK DATA

LANDMARK NUMBER	LATITUDE (0.001°)	LONG/2 (0.001°)	LONGITUDE (0.001°)	ALTITUDE (0.01 NM)	NOMINAL DISTANCE FROM GROUND TRACK (NM)	LANDMARK DIAMETER (ft)
14-1	-04.046	-07.800	-15.600	-000.44	6.04 S	1100
14-2	-03.610	-07.659	-15.317	-000.15	2.02 N	1790
14-3	-03.919	-07.570	-15.139	-000.38	2.10 S	1975
14-4	-03.470	-07.445	-14.890	-000.87	5.88 N	2010

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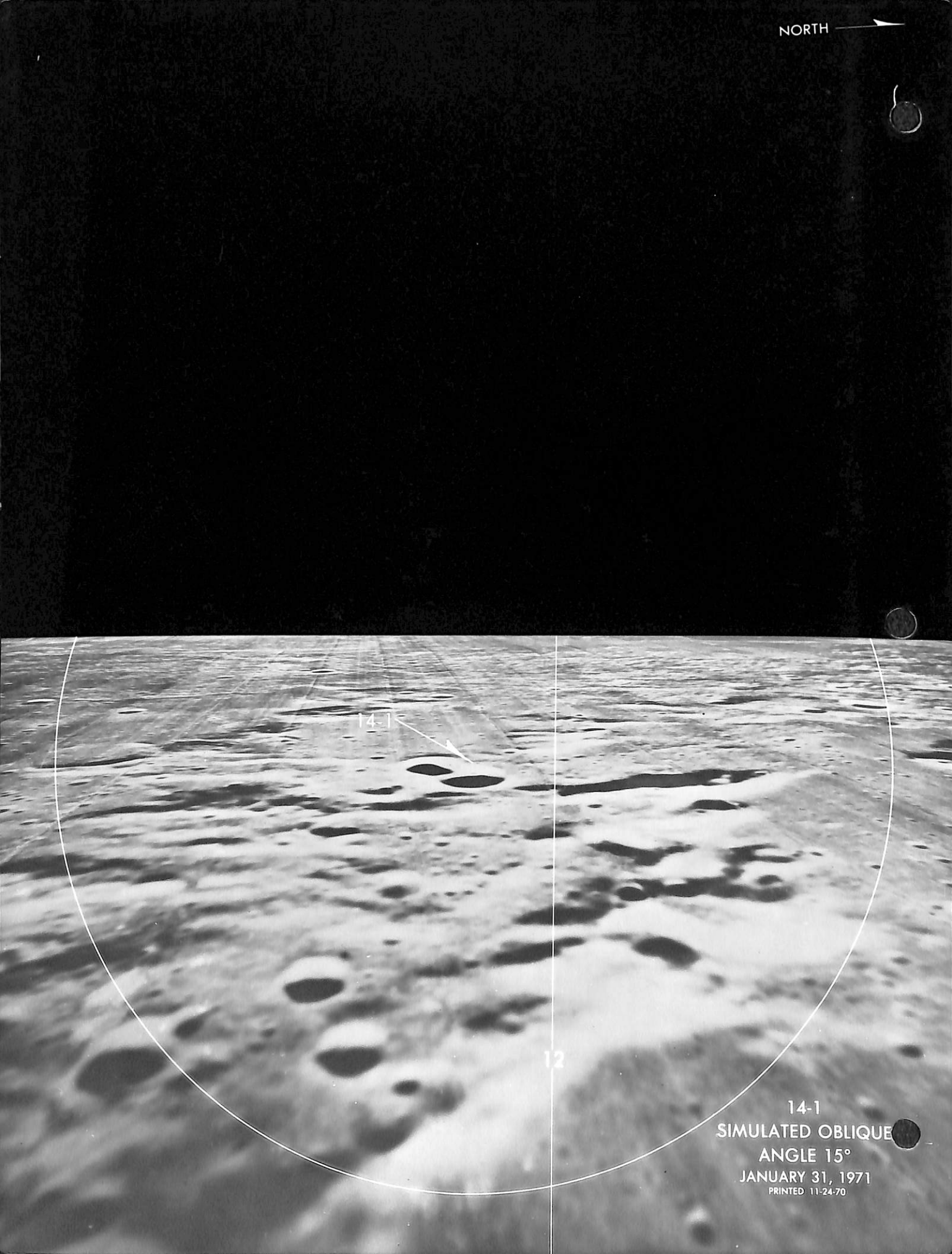
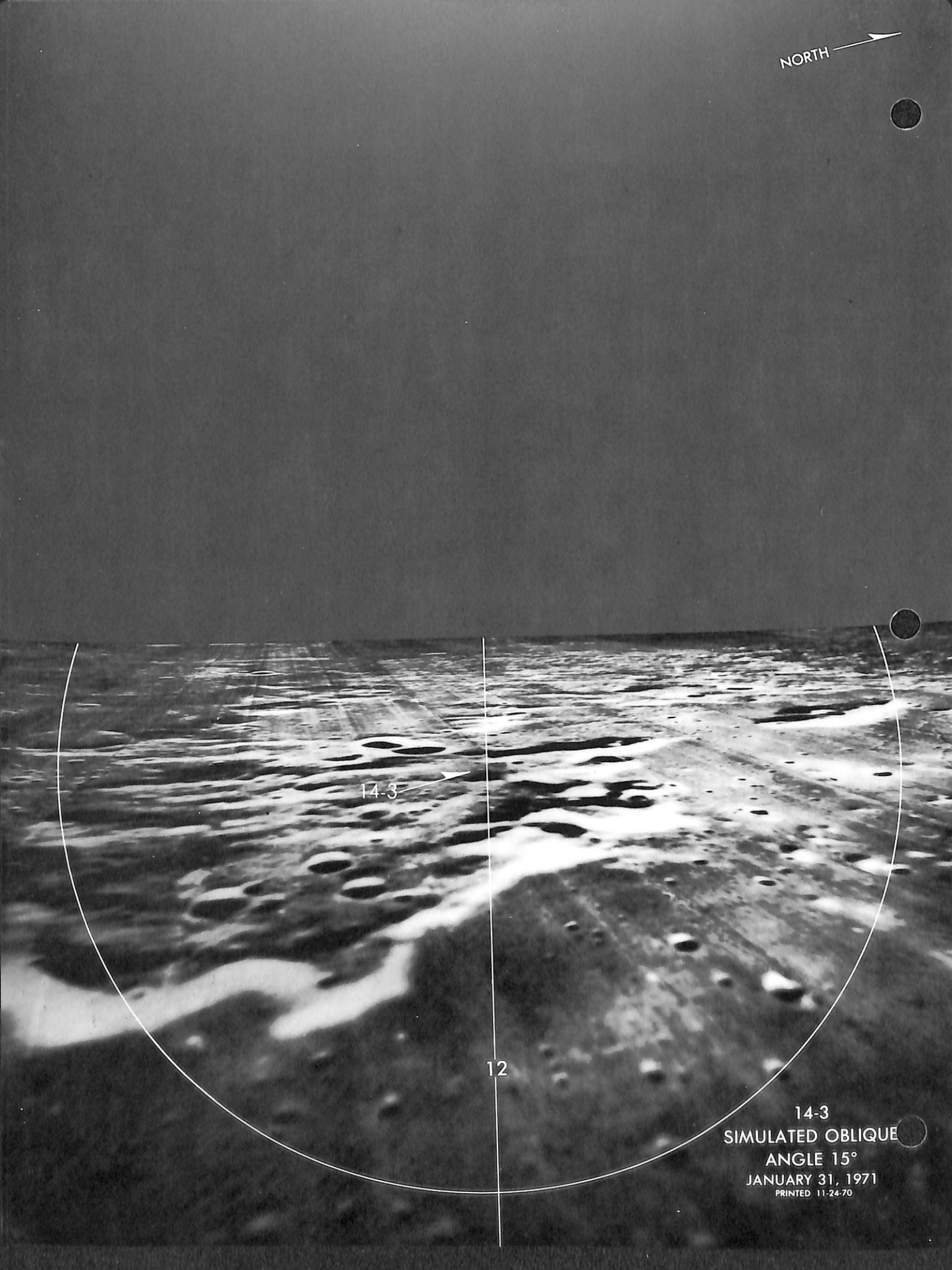
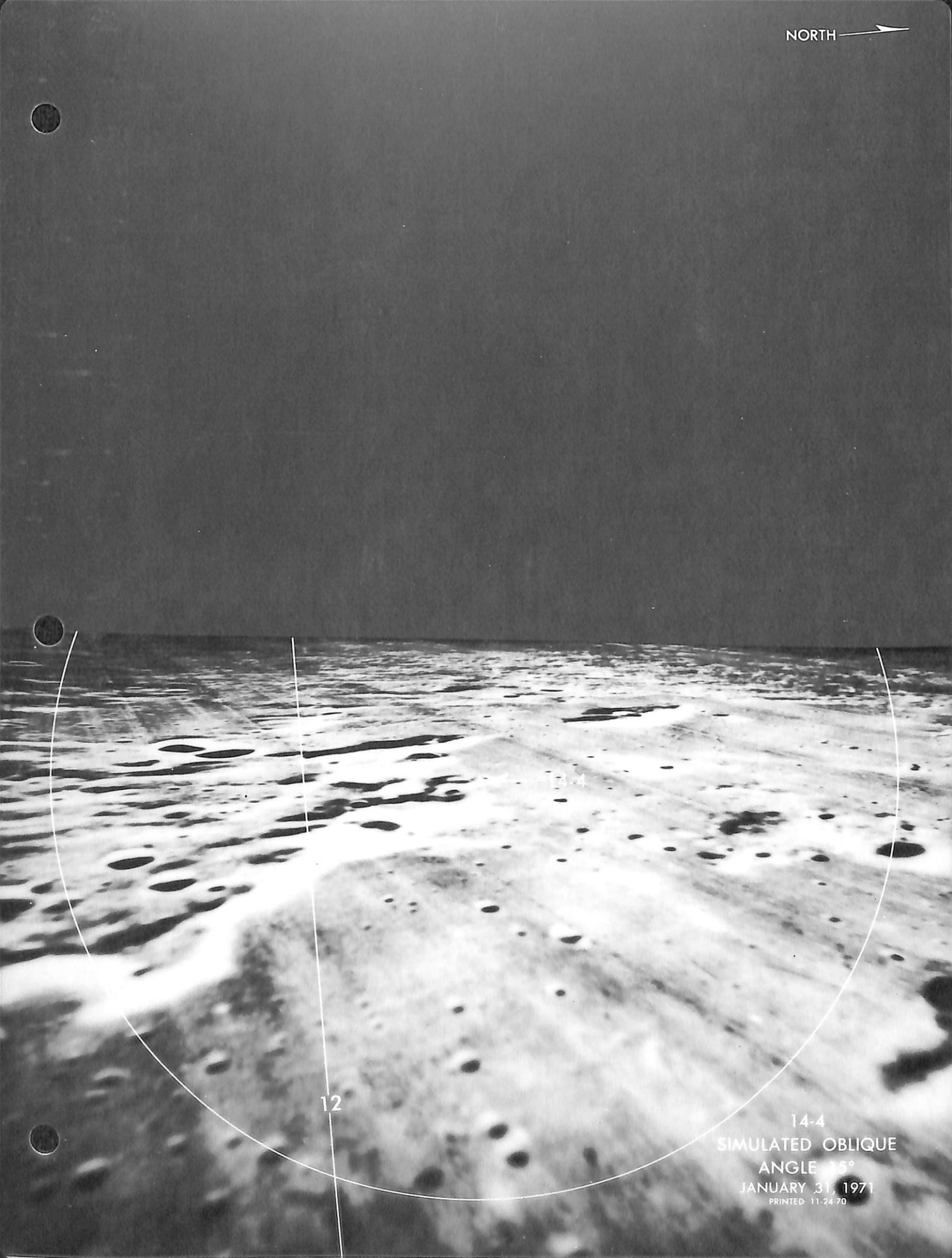


14-1
SIMULATED OBLIQUE
ANGLE 15°
JANUARY 31, 1971
PRINTED 11-24-70


NORTH
14-2
12
14-2
SIMULATED OBLIQUE
ANGLE 15°
JANUARY 31, 1971
PRINTED 11-24-70


NORTH
14-3
12
14-3
SIMULATED OBLIQUE
ANGLE 15°
JANUARY 31, 1971
PRINTED 11-24-70


NORTH
12
14-4
SIMULATED OBLIQUE
ANGLE 45°
JANUARY 31, 1971
PRINTED 11-24-70


NORTH
14-1
14-2
14-3
14-4
12
14-1, 2, 3, 4
SIMULATED OBLIQU
ANGLE 30°
JANUARY 31, 1971
PRINTED 11-24-70


NORTH
SCALE
1:360,000 (APPROX)
14-1
12
FRA MAURO H
FRA MAURO HB
FRA MAURO HA
14-3
14-2
14-4
FRA MAURO Z
TURNER K
12
14-1, 2, 3, 4
JANUARY 31, 1971
PRINTED 11-20-70


04°S
03°S
NORTH
SCALE
1:300,000 (APPROX)
FRA MAURO R
16°W
14-1
FRA MAURO H
12
FRA MAURO HA
14-2
15°W
14-3
14-4
15°W
FRA MAURO Z
14° W
14°W
TURNER K
13° W
IP (0+53)
NM
15
13°W
TURNER L


14°W
13°W
12°W
11°W
TURNER K
TURNER L
LALANDE E
IP (0+53)
NM
15
10
5
0
12
06°S
05°S
04°S
14-1, 2, 3, 4
JANUARY 31, 1971
PRINTED 11-18-70

20°W
05°S
NORTH
SCALE
1:630,000 (APPROX)
FRA MAURO J
GAMBART J
13
CAT'S PAW
FRA MAURO D
FRA MAURO W
FRA MAURO N
RIMA PARRY I
FRA MAURO K
FRA MAURO Y
FRA MAURO G
FRA MAURO E
FRA MAURO P
RIMA PARRY V
FRA MAURO
FRA MAURO R
14-1
FRA MAURO H
FRA MAURO HA
15°W
14-2
14-3
14-4
FRA MAURO HB
FRA MAURO Z
TURNER F
15°W
PARRY L
TURNER K
RIMA PARRY II
TURNER H
TURNER L

14-3

14-4

FRA MAURO HB

FRA MAURO Z

TURNER F

15°W

PARRY L

RIMA PARRY II

TURNER K

TURNER H

TURNER L

PARRY C

TURNER N

NM

40

TURNER D

IP (2+01)

20

LALANDE E

10°W

LALANDE F

0

13

LALANDE A

LALANDE B

LALANDE

14-1, 2, 3, 4

JANUARY 31, 1971

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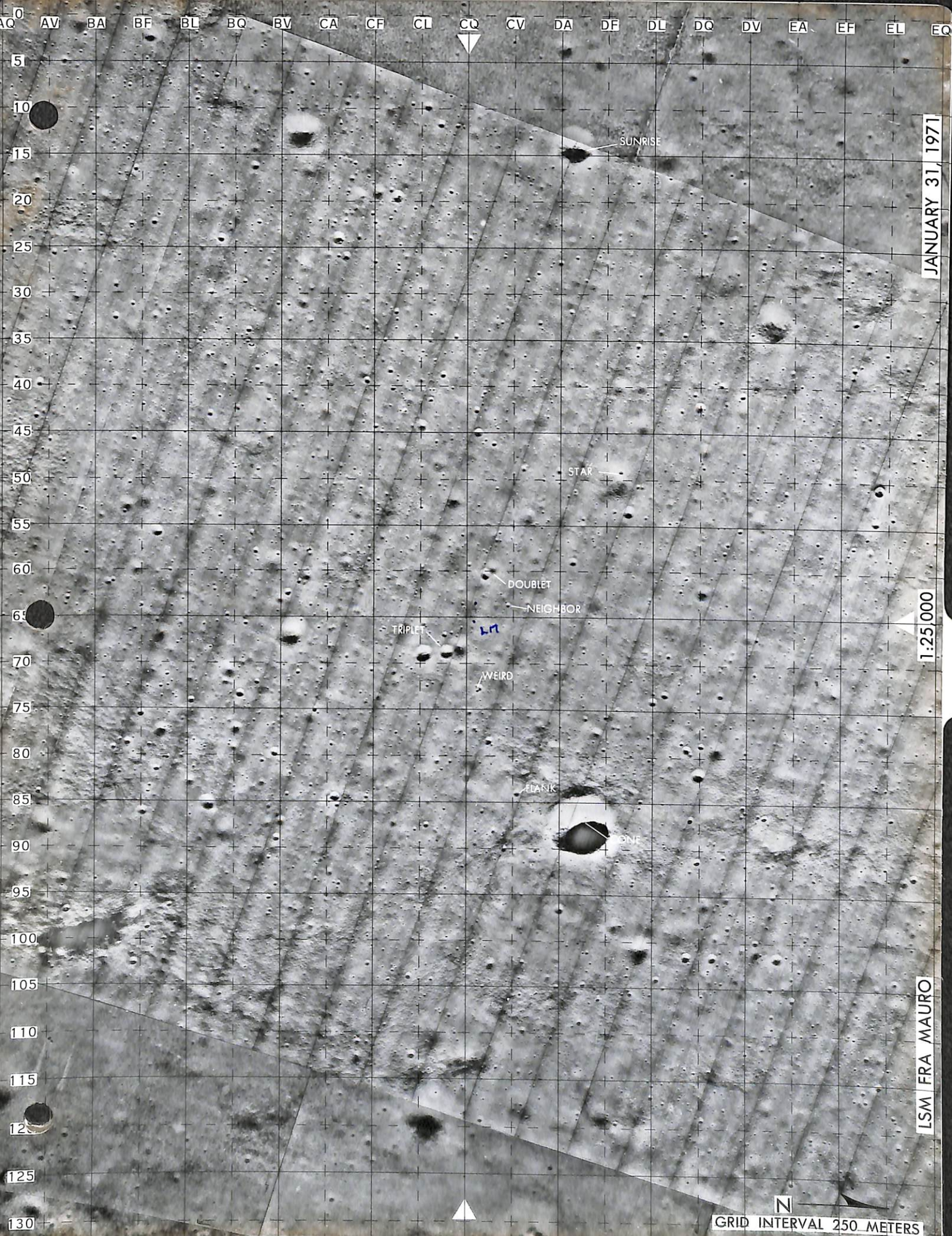
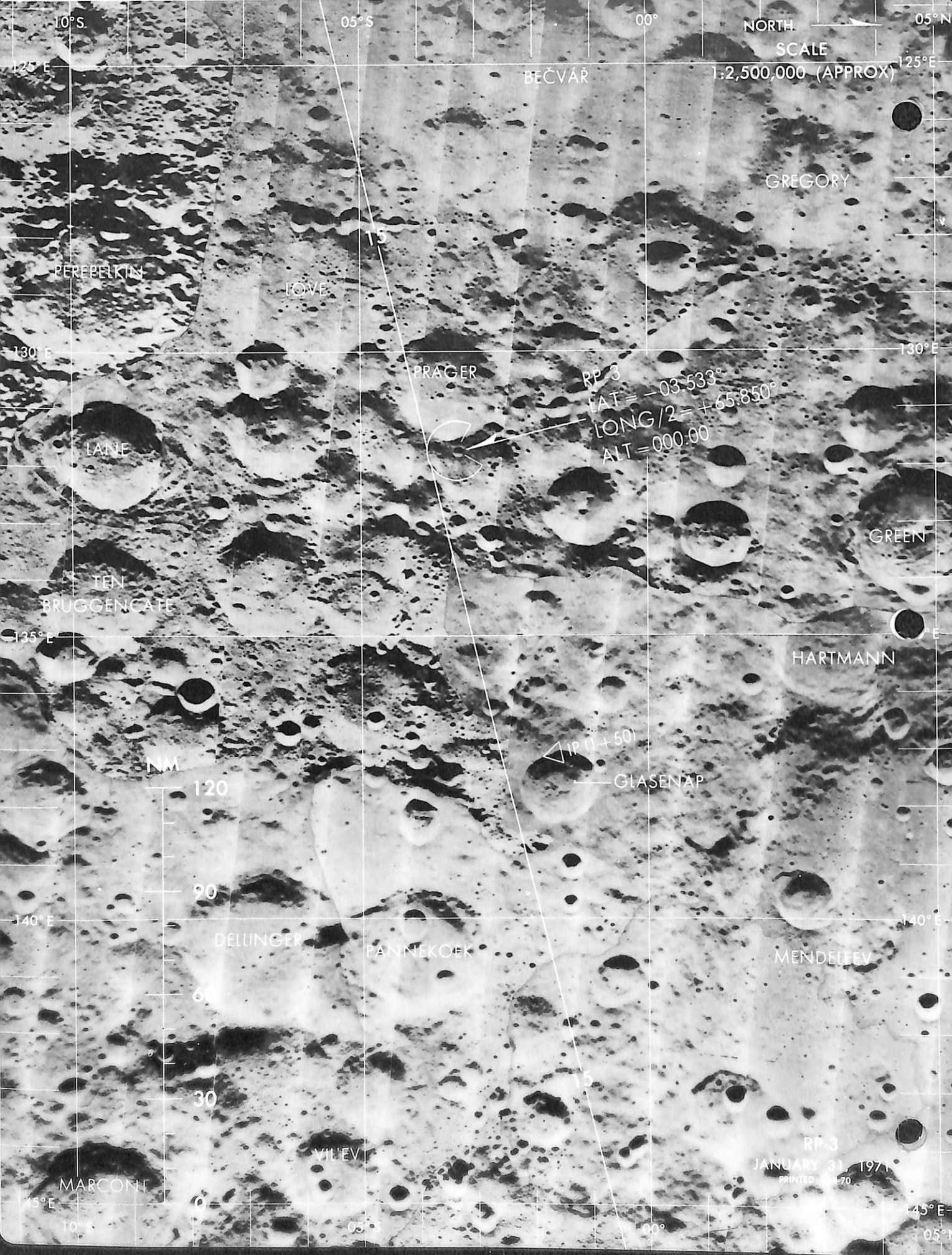
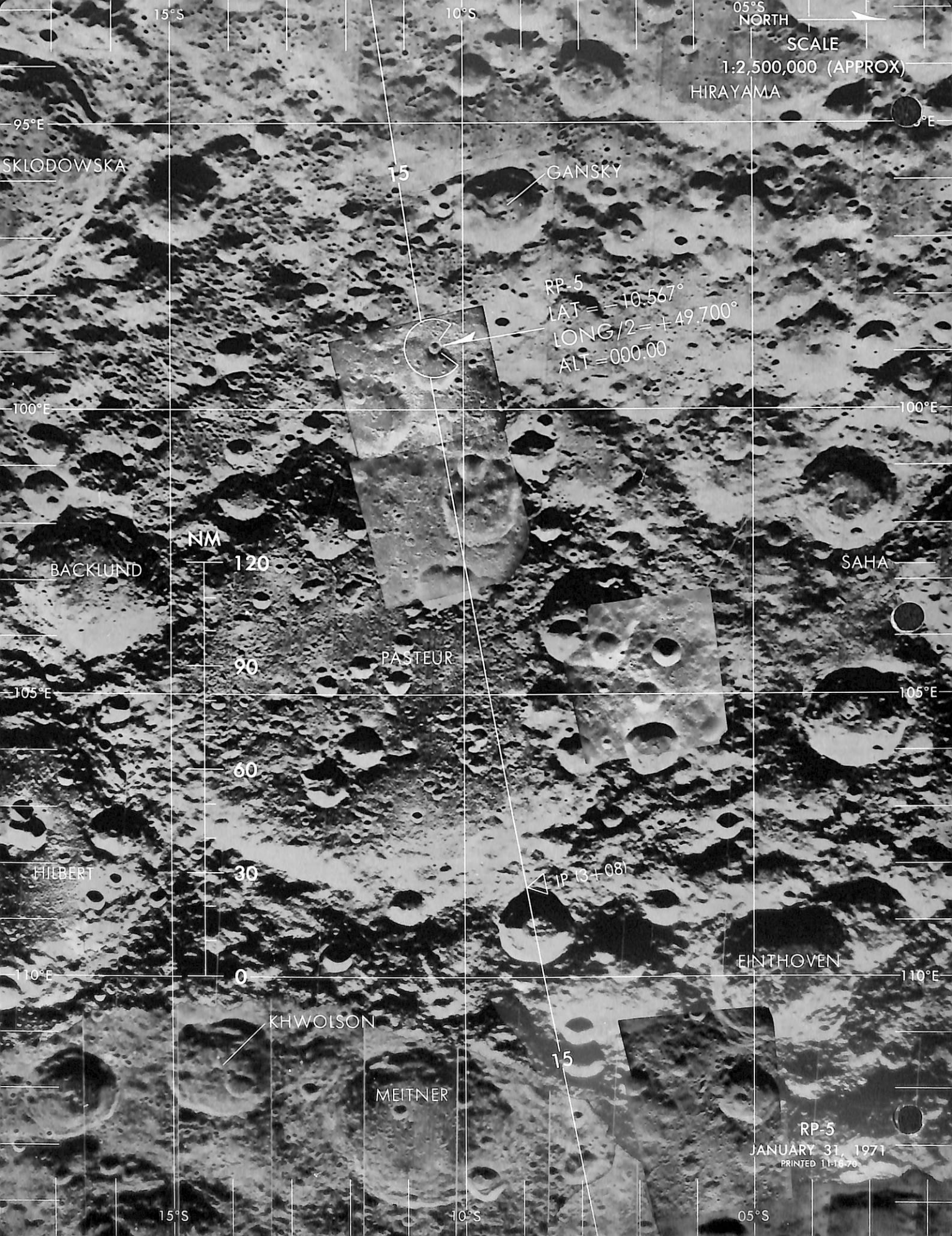
PALISA U

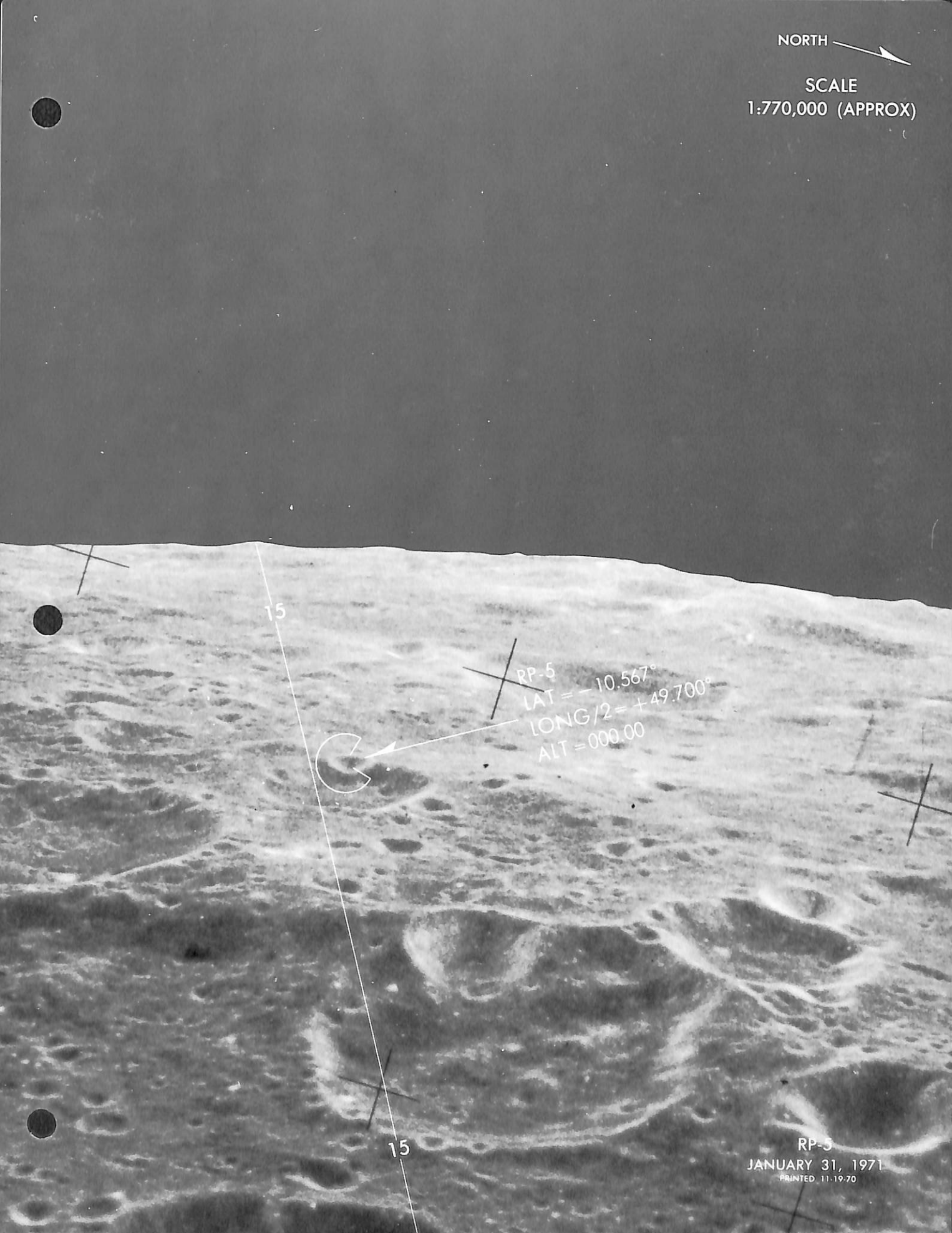
05°S


AQ AV BA BF BL BQ BV CA CF CI CQ CV DA DF DL DQ DV EA EF EL EQ
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
95
100
105
110
115
120
125
130
SUNRISE
STAR
DOUBLET
NEIGHBOR
TRIPLET
WEIRD
FLANK
CONE
JANUARY 31, 1971
1:25,000
LSM FRA MAURO
N
GRID INTERVAL 250 METERS


10°S.
05°S
00°
NORTH
05°N
SCALE
1:2,500,000 (APPROX)
125°E
BEČVÁŘ
GREGORY
15
PEREPELKIN
LOVE
130°E
PRAGER
RP-3
LAT = −03.533°
LONG/2 = +65.850°
ALT = 000.00
LANE
GREEN
TEN
BRUGGENCATE
135°E
HARTMANN
IP (1) +501
NM
120
GLASENAP
90
140°E
DELLINGER
PANNEKOEK
MENDELEEV
60
30
15
VILEV
RP-3
JANUARY 31, 1971
MARCONI
145°E
0
10°S
05°S
00°
05°N


05°S
NORTH
130°E
SCALE
1:630,000 (APPROX)
PRAGER
15
RP-3
LAT = −03.533°
LONG/2 = +65.850°
ALT = 000.00
NM
40
20
135°E
0
15
RP-3
JANUARY 31, 1971
PRINTED 12-16-70
135°E


15°S
10°S
05°S
NORTH
SCALE
1:2,500,000 (APPROX)
HIRAYAMA
95°E
SKLODOWSKA
15
GANSKY
RP-5
LAT = −10.567°
LONG/2 = +49.700°
ALT = 000.00
100°E
NM
120
BACKLUND
SAHA
90
PASTEUR
105°E
60
HILBERT
30
IP 13+081
EINTHOVEN
110°E
0
KHWOLSON
15
MEITNER
RP-5
JANUARY 31, 1971
PRINTED 11-18-70
15°S
10°S
05°S


NORTH
SCALE
1:770,000 (APPROX)
15
RP-5
LAT = −10.567°
LONG/2 = +49.700°
ALT = 000.00
15
RP-5
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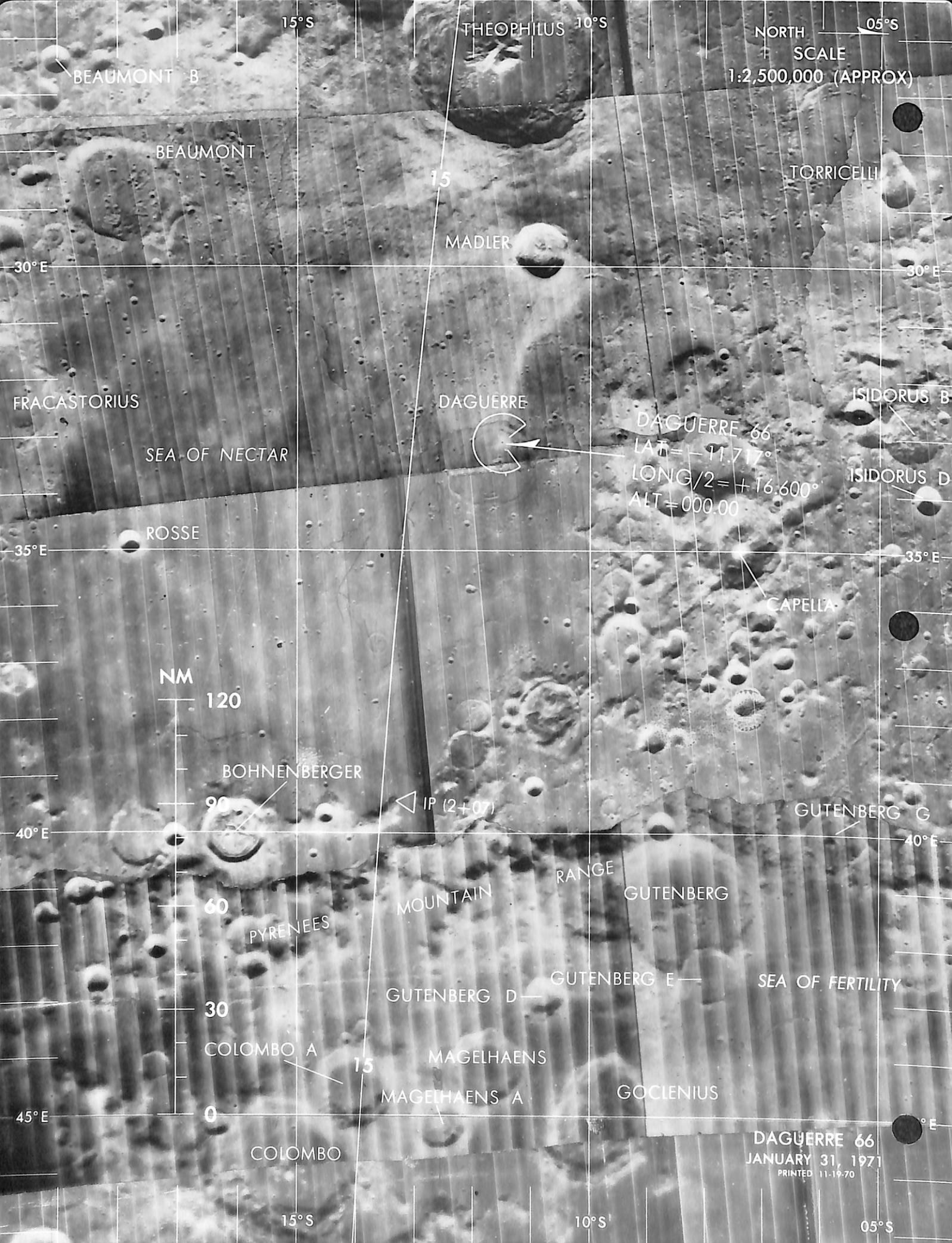
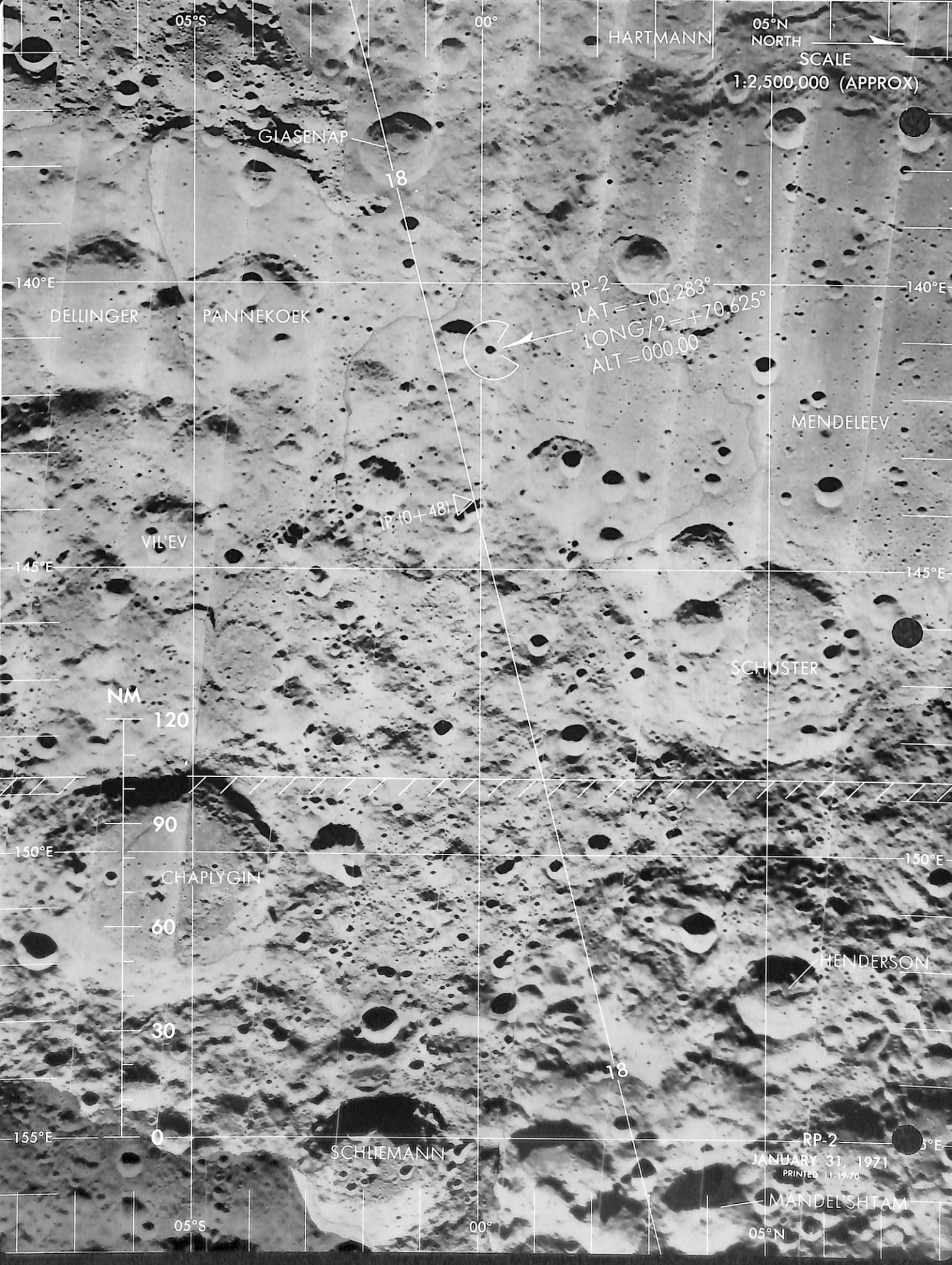
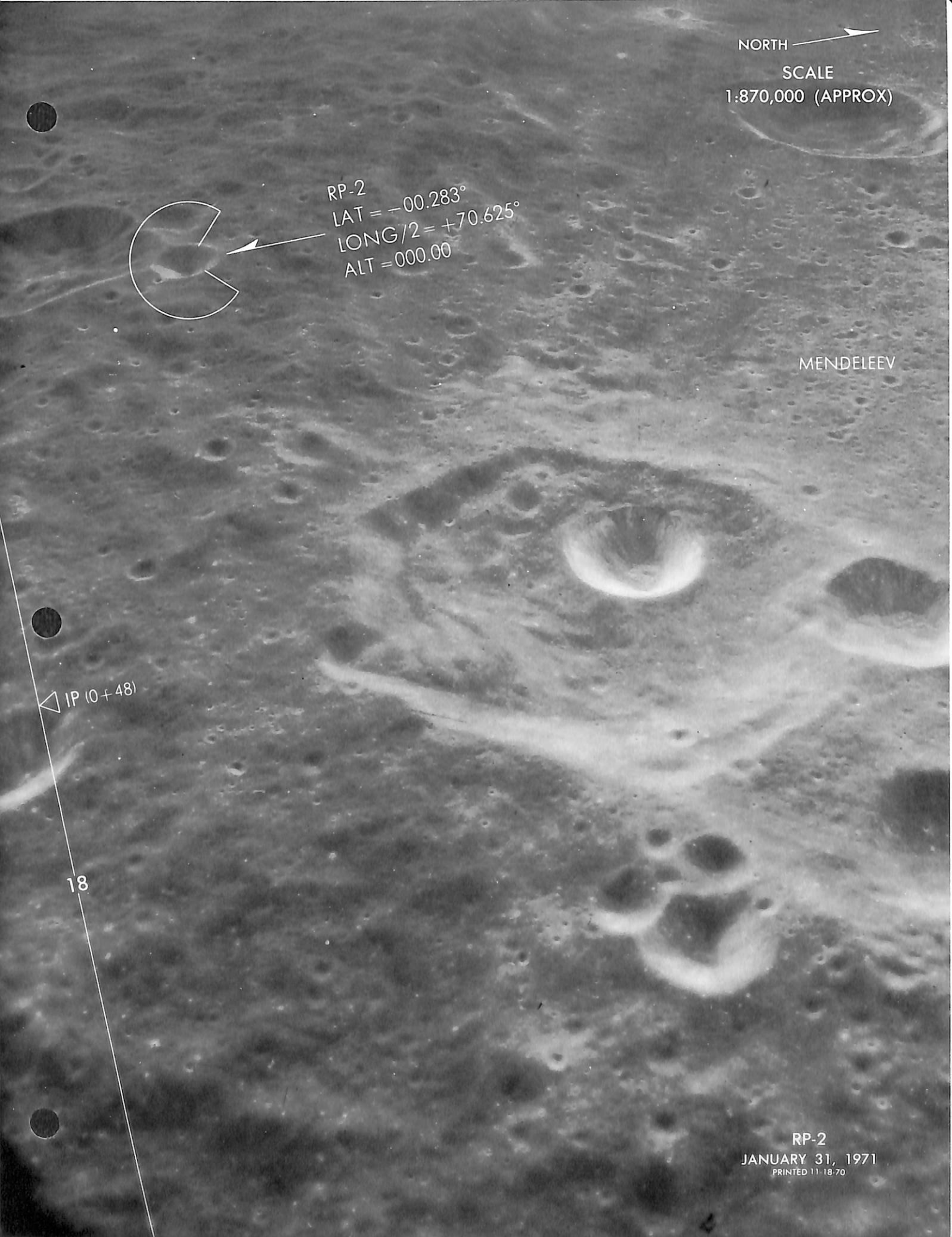
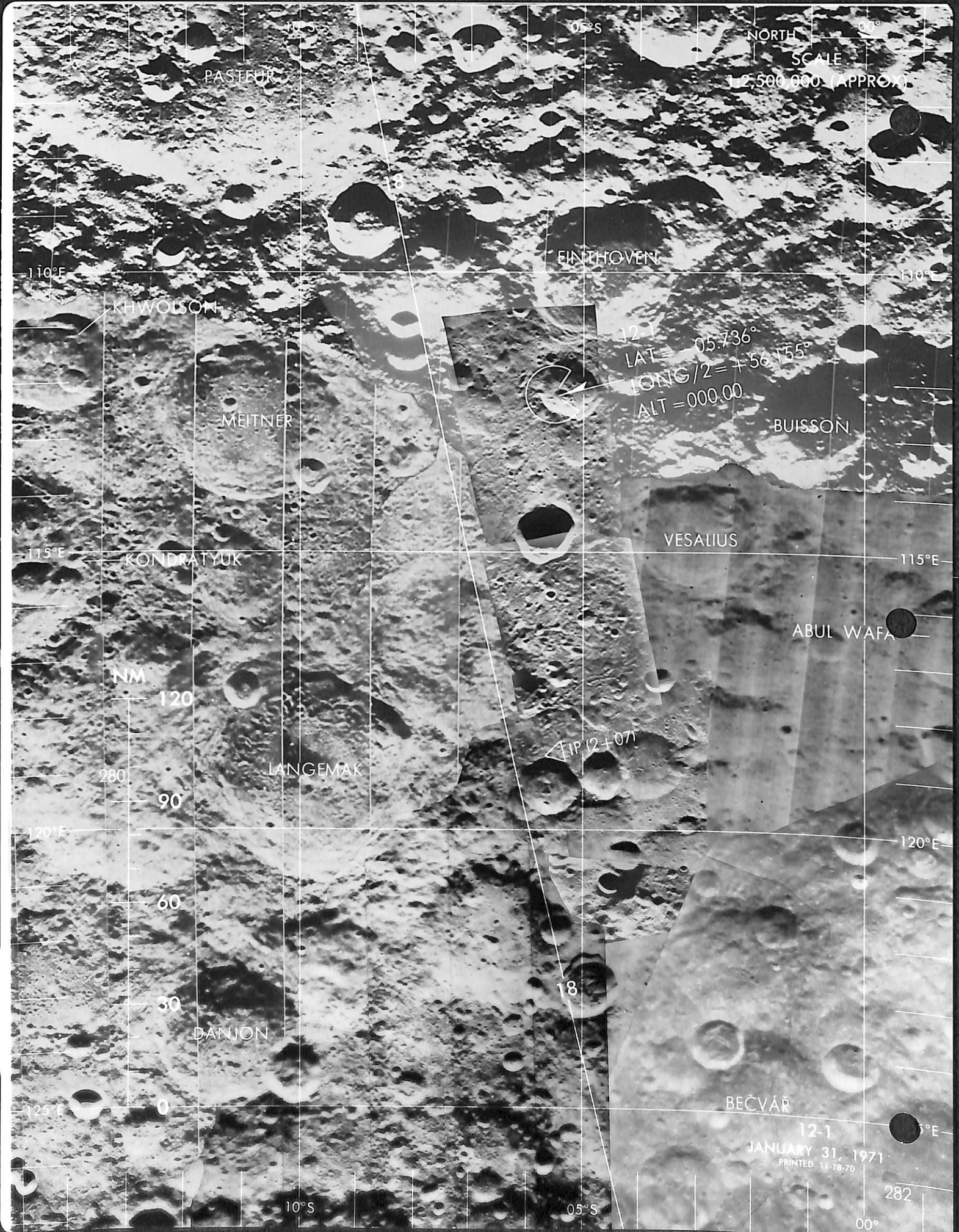
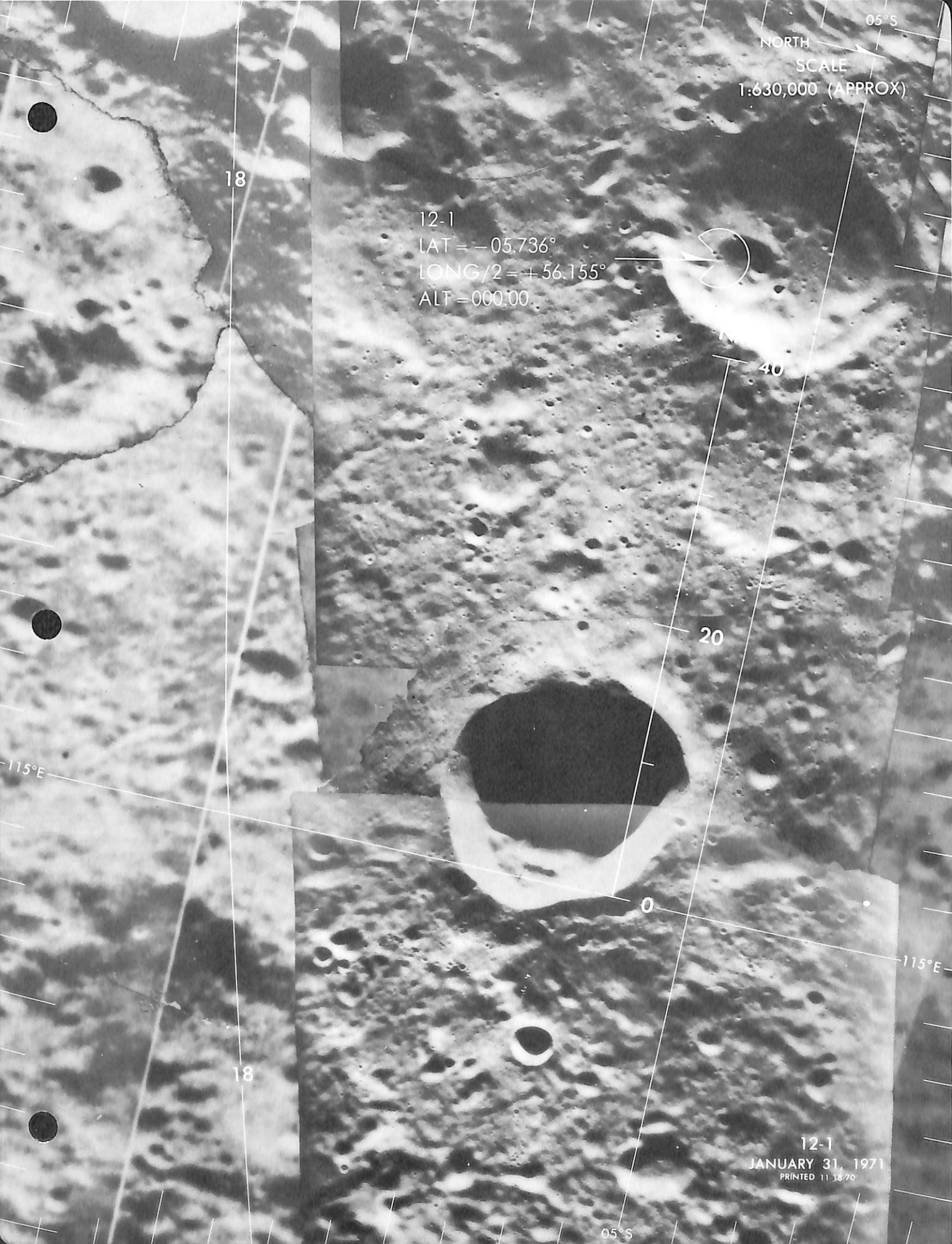

15°S
THEOPHILUS
10°S
05°S
NORTH
SCALE
1:2,500,000 (APPROX)
BEAUMONT B
BEAUMONT
TORRICELLI
15
MADLER
30° E
FRACASTORIUS
DAGUERRE
ISIDORUS B
DAGUERRE 66
LAT = −11.717°
LONG/2 = +16.600°
ALT = 000.00
SEA OF NECTAR
ISIDORUS D
ROSSE
35° E
CAPELLA
NM
120
BOHNENBERGER
IP (2+07)
GUTENBERG G
40° E
RANGE
MOUNTAIN
GUTENBERG
60
PYRENEES
GUTENBERG E
SEA OF FERTILITY
GUTENBERG D
30
COLOMBO A
MAGELHAENS
15
MAGELHAENS A
GOCLENIUS
45° E
0
COLOMBO
DAGUERRE 66
JANUARY 31, 1971
PRINTED 11-19-70
15°S
10°S
05°S

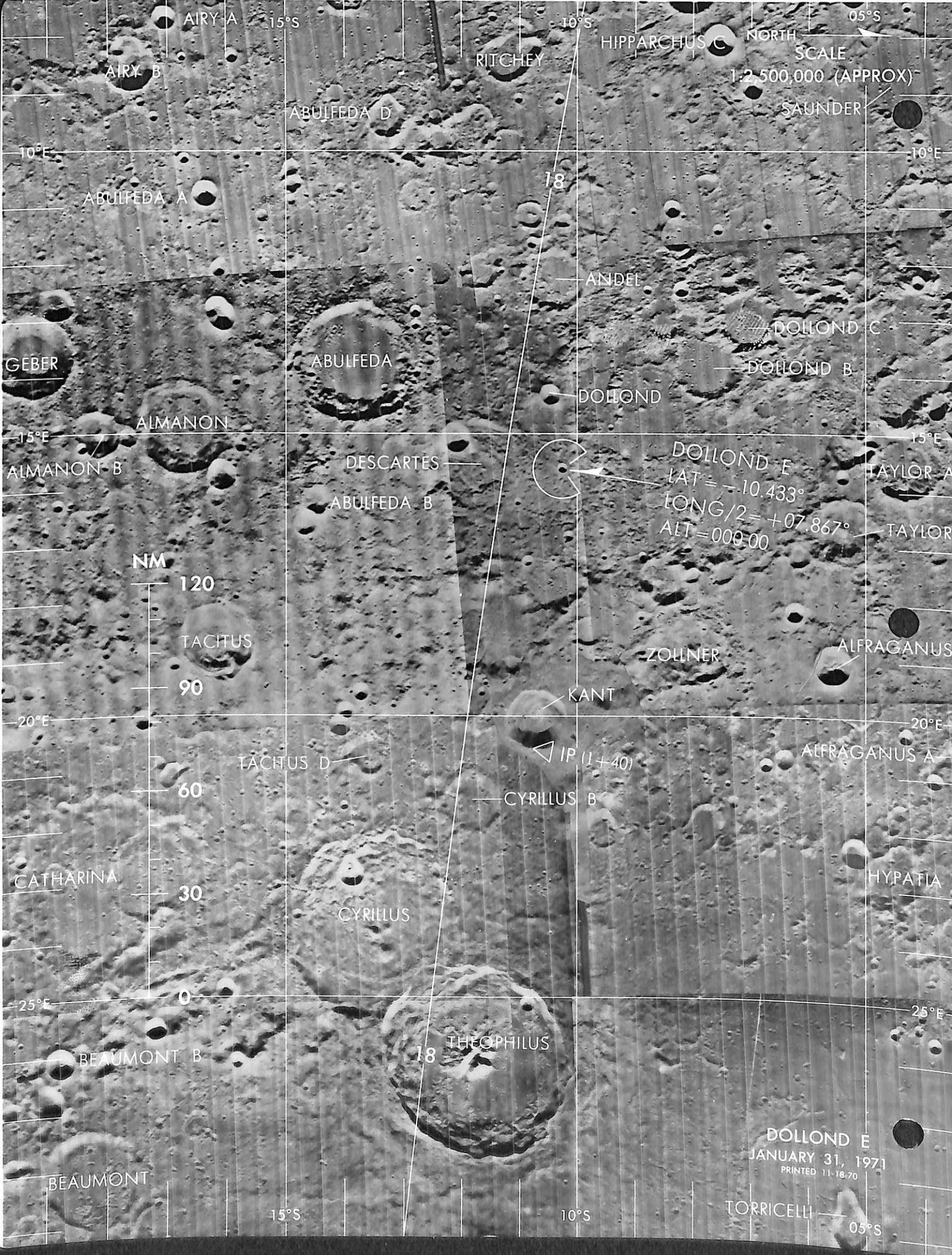

NORTH
SCALE
1:1,160,000 (APPROX)
DAGUERRE 66
LAT = -11.717°
LONG/2 = +16.600°
ALT = 000.00
DAGUERRE
SEA OF NECTAR
DAGUERRE 66
JANUARY 31, 1971
PRINTED 11-19-70

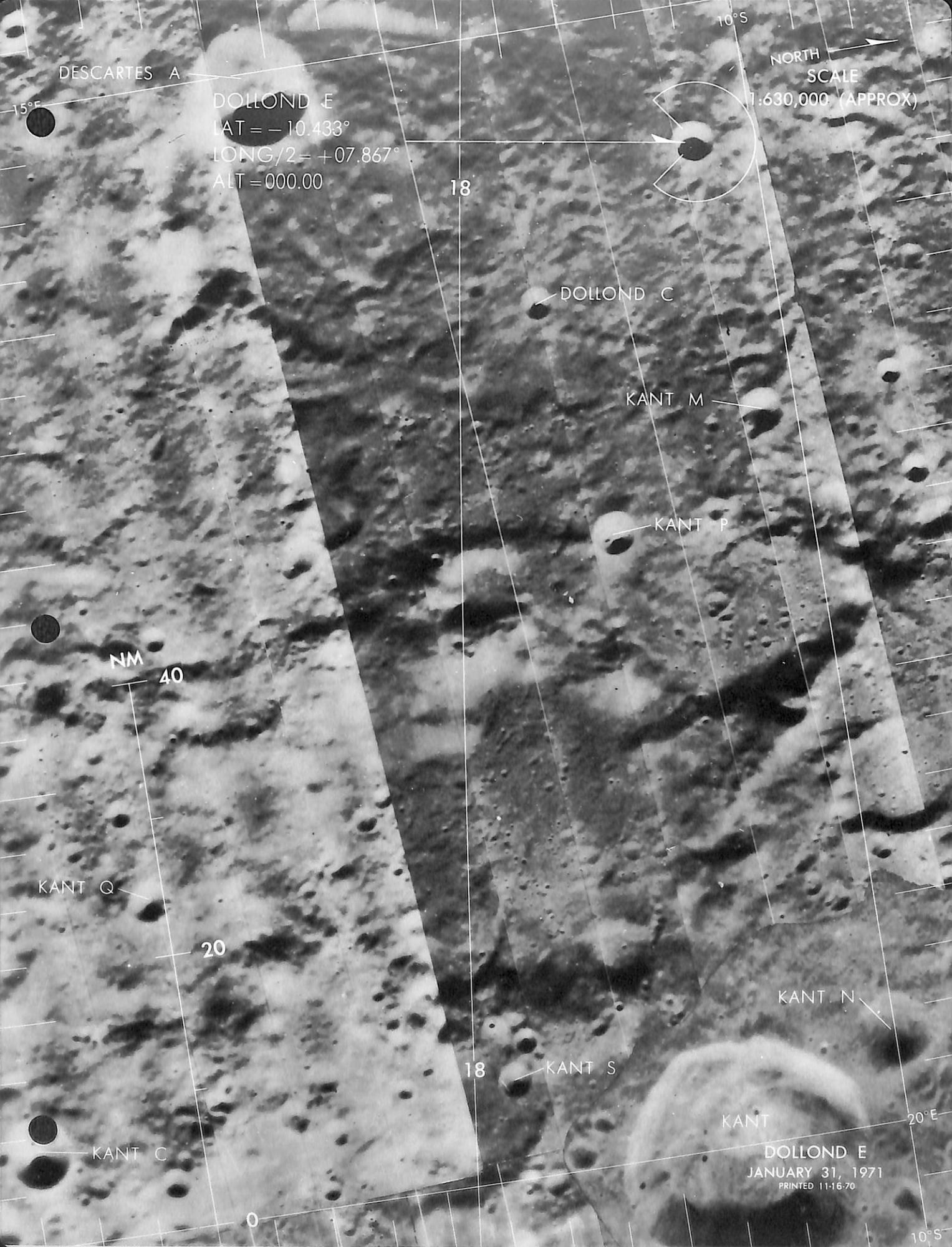

05°S
00°
HARTMANN
05°N
NORTH
SCALE
1:2,500,000 (APPROX)
GLASENAP
18
140°E
RP-2
LAT = −00.283°
LONG/2 = +70.625°
ALT = 000.00
DELLINGER
PANNEKOEK
MENDELEEV
TP 10+48
VIL'EV
145°E
SCHUSTER
NM
120
90
150°E
CHAPLYGIN
60
HENDERSON
30
18
155°E
0
SCHLIEMANN
RP-2
JANUARY 31, 1971
PRINTED 11-19-70
MANDEL'SHTAM
05°S
00°
05°N


NORTH
SCALE
1:870,000 (APPROX)
RP-2
LAT = −00.283°
LONG/2 = +70.625°
ALT = 000.00
MENDELEEV
IP (0+48)
18
RP-2
JANUARY 31, 1971
PRINTED 11-18-70

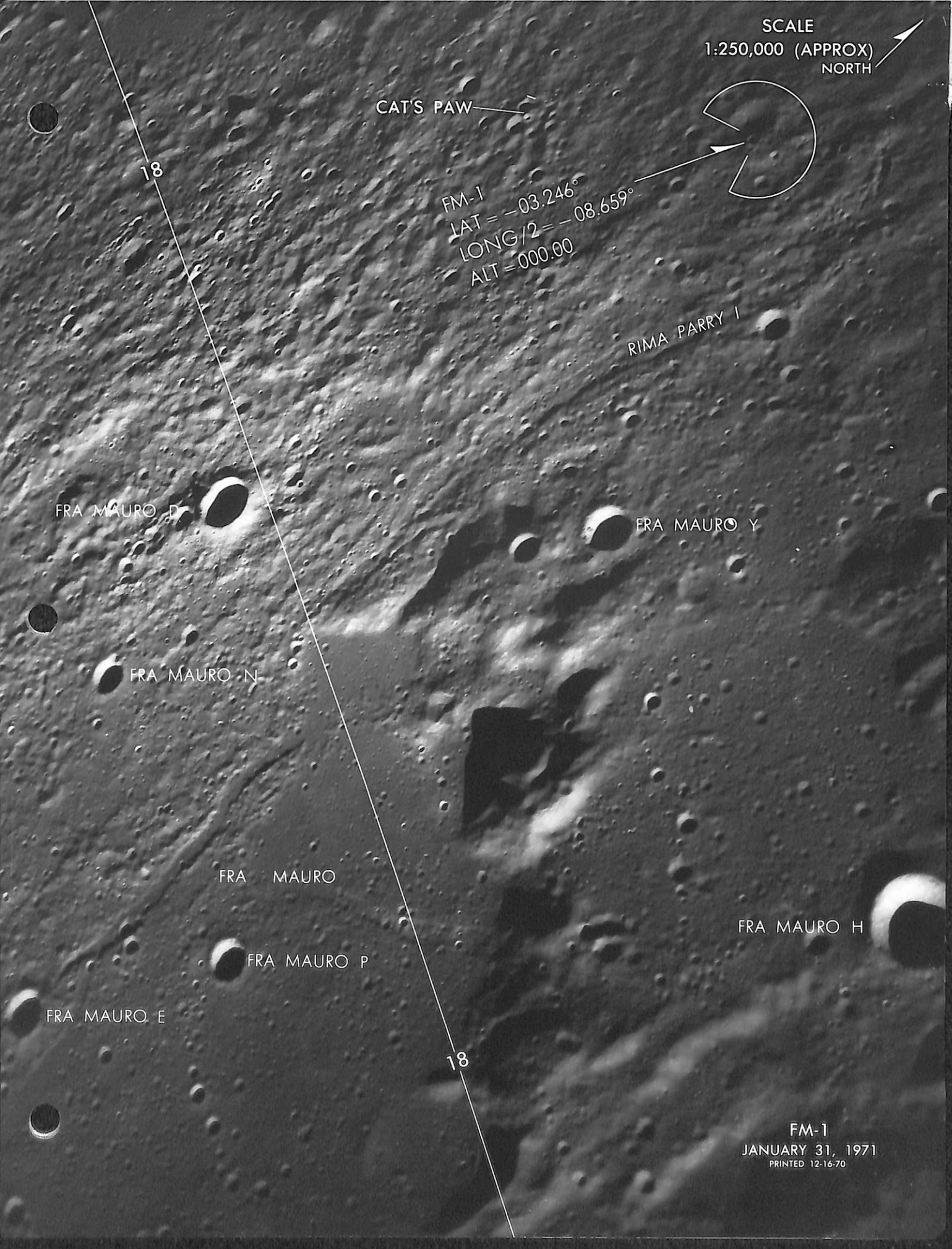

PASTEUR
05°S
NORTH
00°
SCALE
1:2,500,000 (APPROX)
EINTHOVEN
110°E
KHWOLSON
12-1
LAT = 05.736°
LONG/2 = +56.155°
ALT = 000.00
MEITNER
BUISSON
VESALIUS
115°E
KONDRATYUK
ABUL WAFA
NM
120
280
90
TIP 12+071
LANGEMAK
120°E
60
30
18
DANJON
0
BEČVÁŘ
12-1
JANUARY 31, 1971
PRINTED 11-18-70
282
10°S
05°S
00°

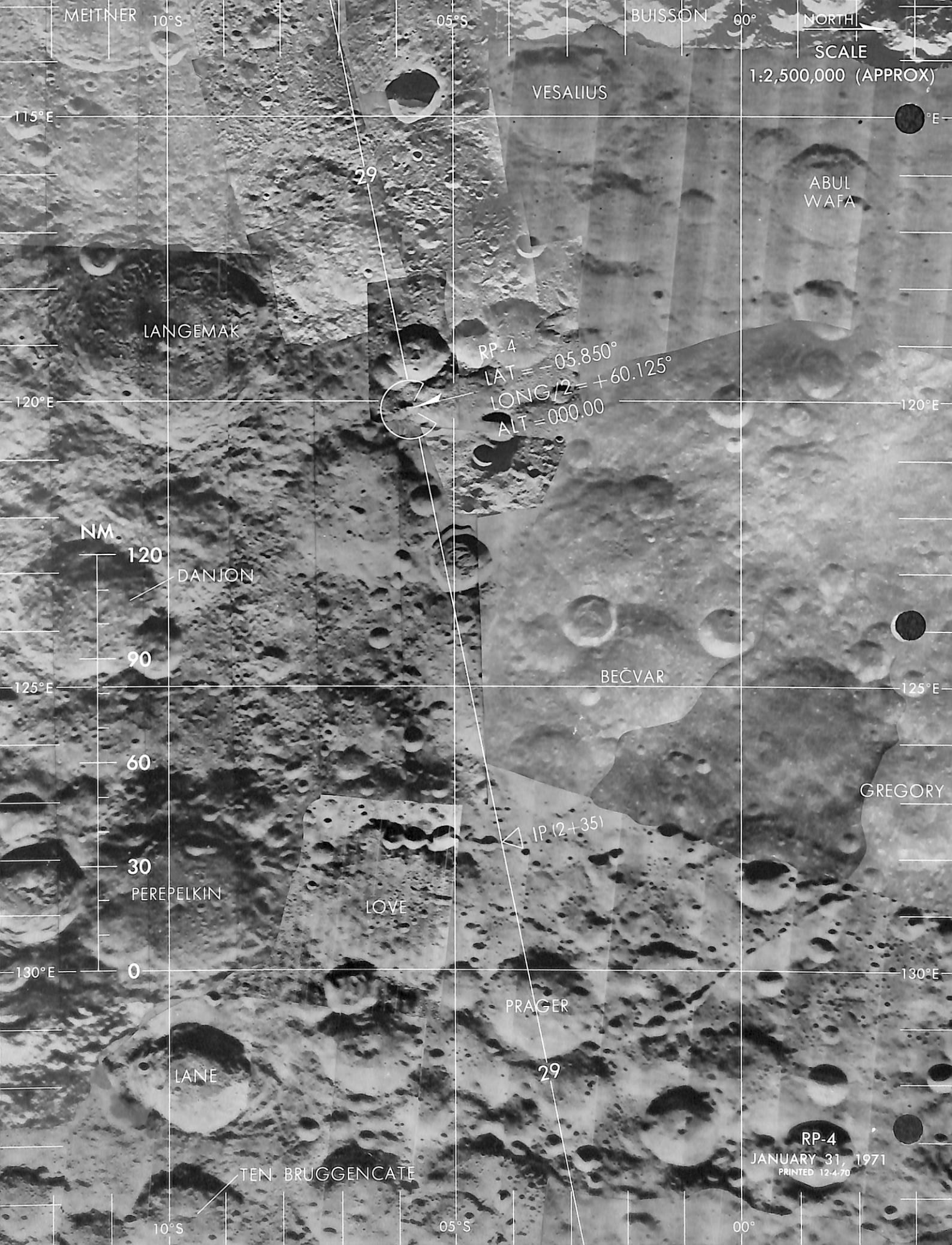

05°S
NORTH
SCALE
1:630,000 (APPROX)
18
12-1
LAT = −05.736°
LONG/2 = +56.155°
ALT = 000.00
40
20
115°E
0
115°E
18
12-1
JANUARY 31, 1971
PRINTED 11-18-70
05°S

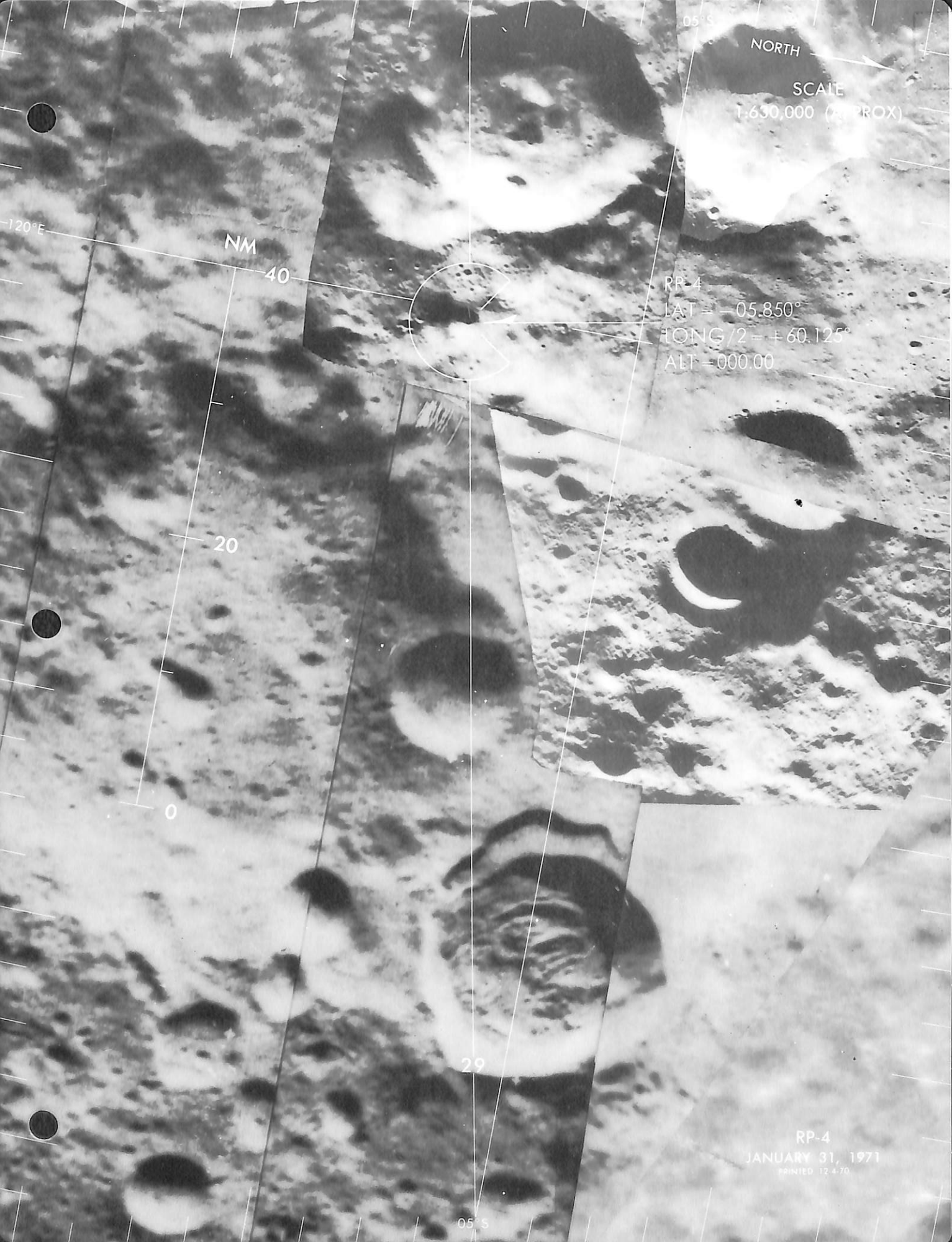

AIRY A
AIRY B
15°S
RITCHEY
10°S
HIPPARCHUS C
NORTH
05°S
SCALE
1:2,500,000 (APPROX)
SAUNDER
ABULFEDA D
10°E
ABULFEDA A
18
ANDEL
DOLLOND C
GEBER
ABULFEDA
DOLLOND B
DOLLOND
ALMANON
15°E
ALMANON B
DESCARTES
ABULFEDA B
DOLLOND E
LAT = -10.433°
LONG/2 = +07.867°
ALT = 000.00
TAYLOR A
TAYLOR
NM
120
TACITUS
ZOLLNER
ALFRAGANUS
90
KANT
20°E
IP (1+40)
TACITUS D
ALFRAGANUS A
60
CYRILLUS B
CATHARINA
HYPATIA
30
CYRILLUS
0
25°E
THEOPHILUS
18
BEAUMONT B
DOLLOND E
JANUARY 31, 1971
PRINTED 11-18-70
BEAUMONT
TORRICELLI
15°S
10°S
05°S

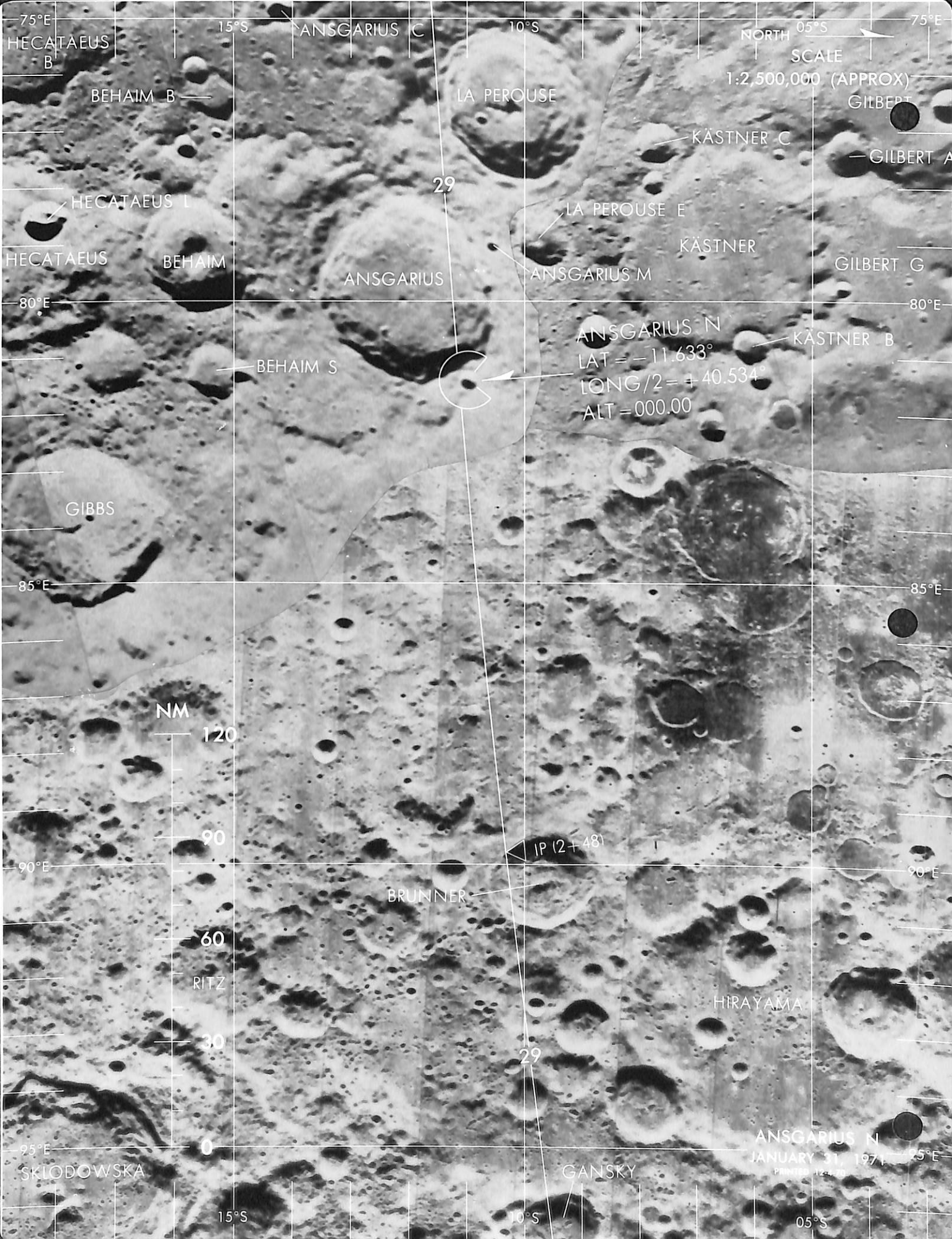

10°S
NORTH
SCALE
1:630,000 (APPROX)
DESCARTES A
15°E
DOLLOND E
LAT = −10.433°
LONG/2 = +07.867°
ALT = 000.00
18
DOLLOND C
KANT M
KANT P
NM
40
KANT Q
20
KANT N
18
KANT S
KANT
20°E
KANT C
DOLLOND E
JANUARY 31, 1971
PRINTED 11-16-70
0
10°S

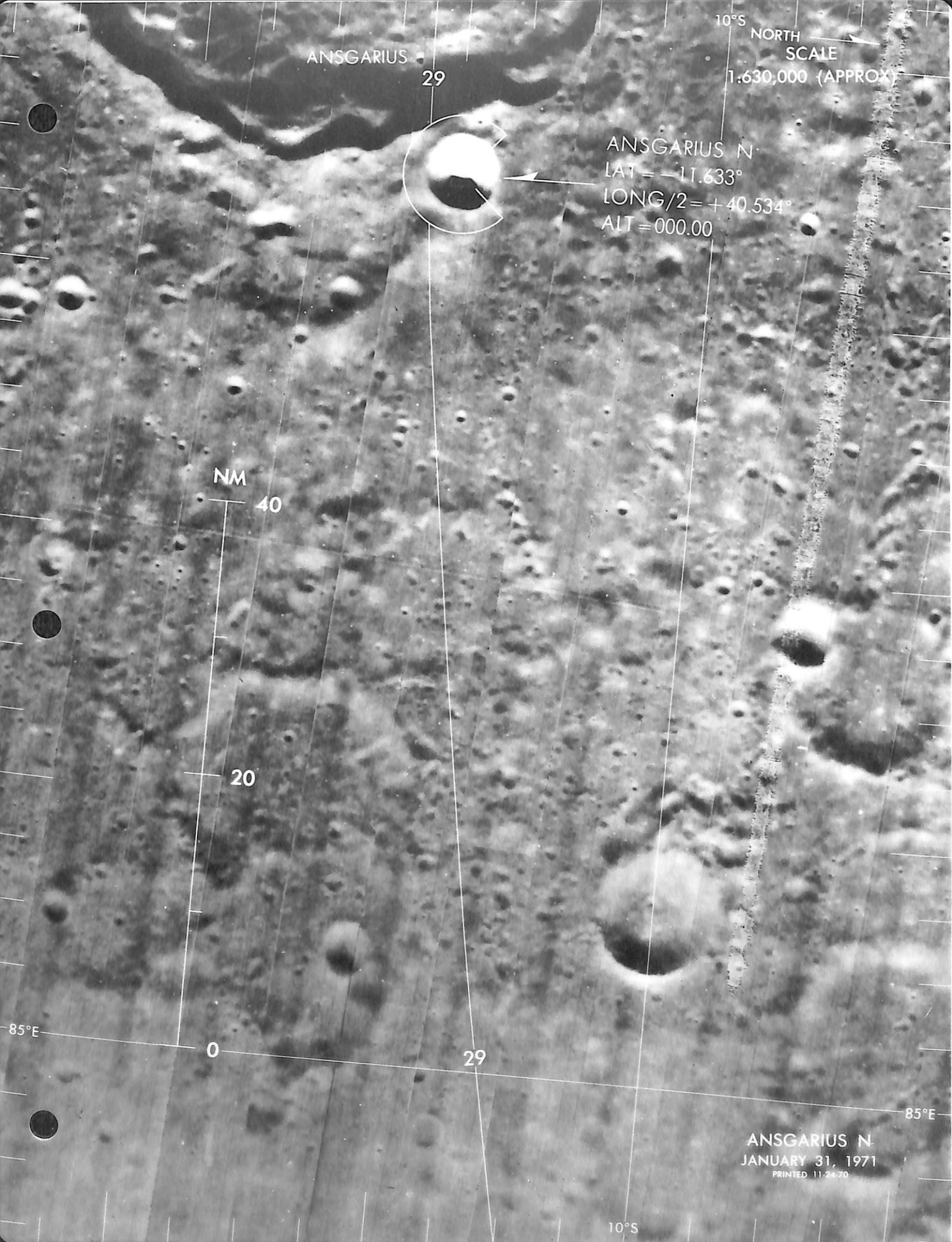

25°W
10°S
05°S
00°
NORTH
SCALE
1:2,500,000 (APPROX)
KNOWN SEA
REINHOLD
FRA MAURO B
18
FRA MAURO A
20°W
GAMBART A
BONPLAND
FRA MAURO
FM-1
LAT = – 03.246°
LONG/2 = – 08.659°
ALT = 000.00
PARRY A
PARRY
GAMBART
15°W
GUERICKE
IP (1+34)
TURNER
NM
120
GUERICKE
GAMBART C
GAMBART B
90
10°W
LALANDE A
60
LALANDE
DAVY
PALISA
DAVY Y
SÖMMERING
30
LALANDE C
SCHRÖTER
18
MÖSTING
DAVY G
0
MÖSTING A
FM-1
JANUARY 31, 1971
PRINTED 1-1-16-70
05°W
FLAMMARION
10°S
05°S
00°
PTOLEMAEUS

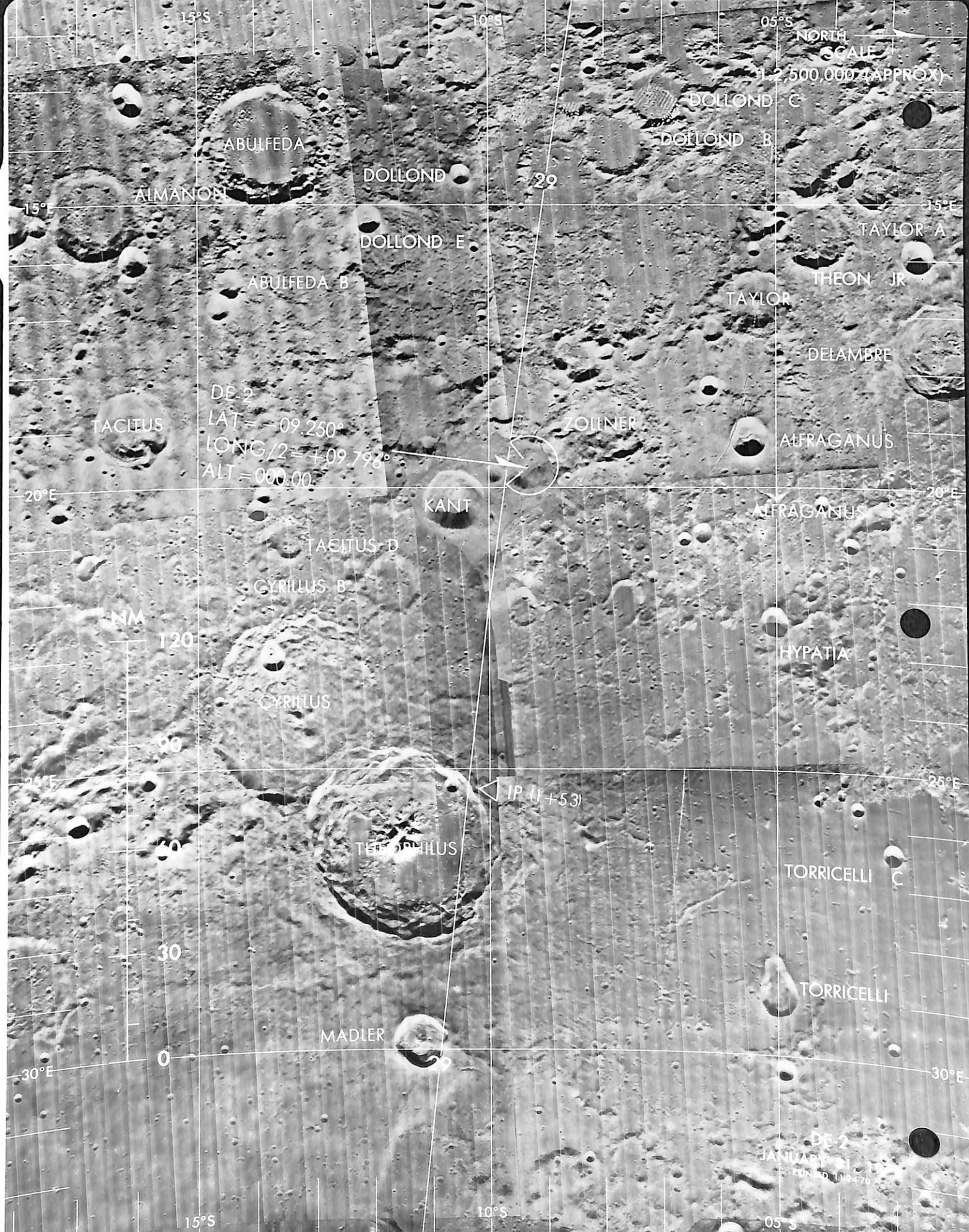

SCALE
1:250,000 (APPROX)
NORTH
CAT'S PAW
FM-1
LAT = −03.246°
LONG/2 = −08.659°
ALT = 000.00
18
RIMA PARRY I
FRA MAURO D
FRA MAURO Y
FRA MAURO N
FRA MAURO
FRA MAURO H
FRA MAURO P
FRA MAURO E
18
FM-1
JANUARY 31, 1971
PRINTED 12-16-70


MEITNER
10°S
05°S
BUISSON
00°
NORTH
SCALE
1:2,500,000 (APPROX)
VESALIUS
115°E
°E
29
ABUL
WAFA
LANGEMAK
RP-4
LAT = −05.850°
LONG/2 = +60.125°
ALT = 000.00
120°E
120°E
NM
120
DANJON
90
125°E
BEČVAR
125°E
60
GREGORY
IP (2+35)
30
PEREPELKIN
LOVE
130°E
0
130°E
PRAGER
LANE
29
RP-4
JANUARY 31, 1971
PRINTED 12-4-70
TEN BRUGGENCATE
10°S
05°S
00°

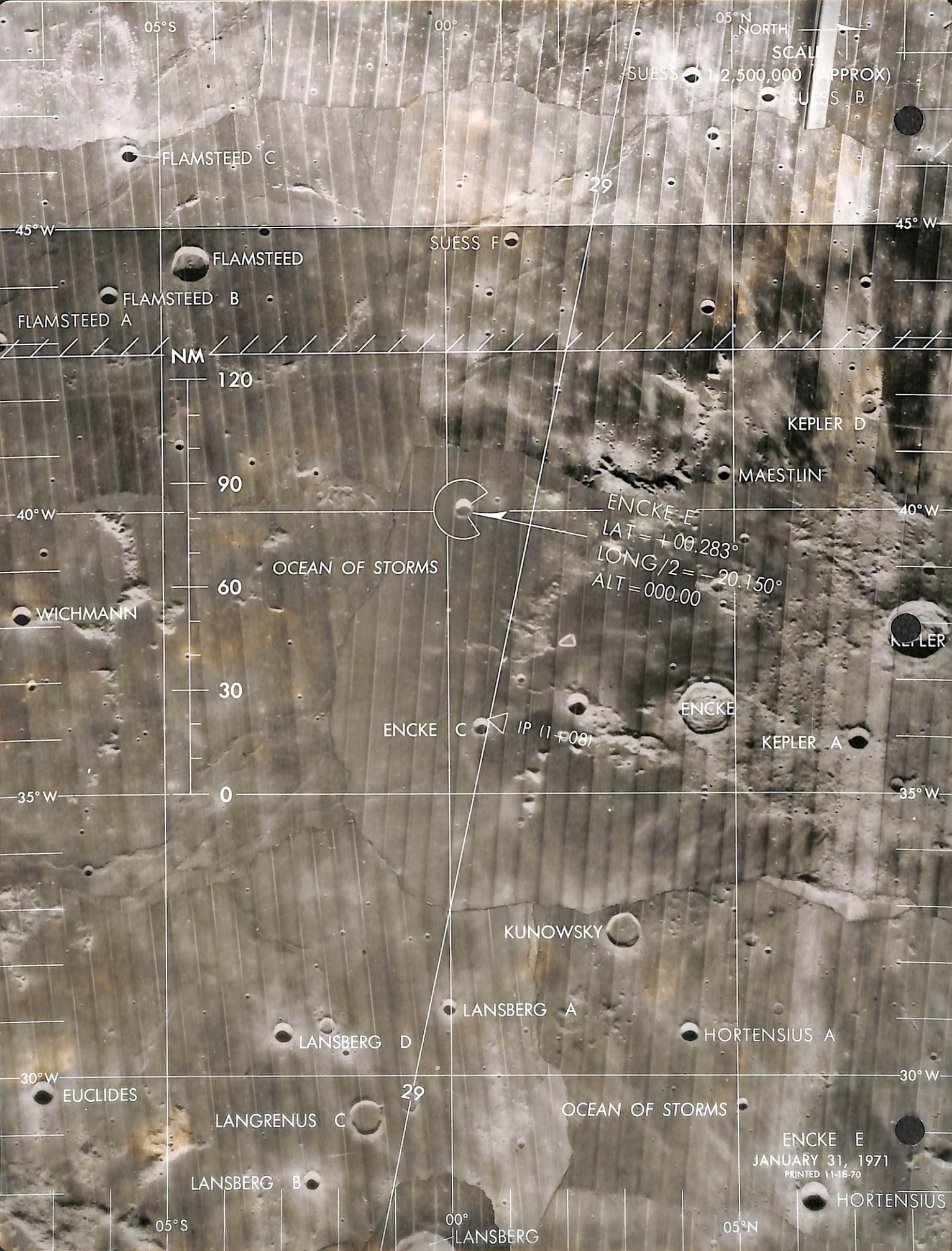

05°S
NORTH
SCALE
1:630,000 (APPROX)
120°E
NM
40
20
0
RP-4
LAT = −05.850°
LONG/2 = +60.125°
ALT = 000.00
29
RP-4
JANUARY 31, 1971
PRINTED 12-4-70
05°S

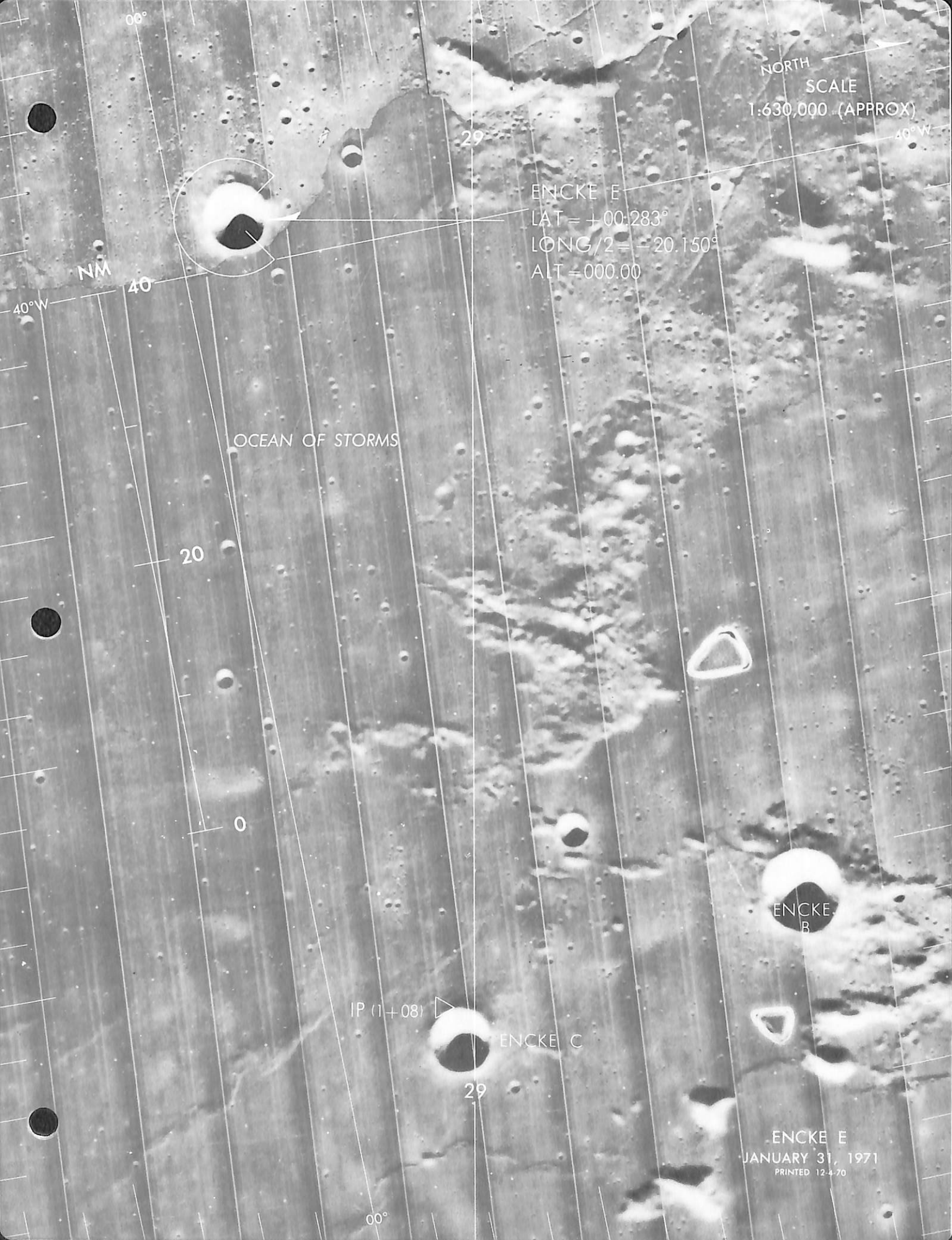

75°E
15°S
ANSGARIUS C
10°S
05°S
75°E
NORTH
SCALE
1:2,500,000 (APPROX)
HECATAEUS B
BEHAIM B
LA PEROUSE
GILBERT
KÄSTNER C
GILBERT A
29
HECATAEUS L
LA PEROUSE E
KÄSTNER
HECATAEUS
BEHAIM
ANSGARIUS
ANSGARIUS M
GILBERT G
80°E
80°E
ANSGARIUS N
LAT = −11.633°
LONG/2 = +40.534°
ALT = 000.00
KÄSTNER B
BEHAIM S
GIBBS
85°E
85°E
NM
120
90
IP (2+48)
90°E
90°E
BRUNNER
60
RITZ
HIRAYAMA
30
29
0
95°E
ANSGARIUS N
JANUARY 31, 1971
95°E
SKLODOWSKA
GANSKY
15°S
10°S
05°S


10°S
NORTH
SCALE
1:630,000 (APPROX)
ANSGARIUS
29
ANSGARIUS N
LAT = −11.633°
LONG/2 = +40.534°
ALT = 000.00
NM
40
20
85°E
0
29
85°E
ANSGARIUS N
JANUARY 31, 1971
PRINTED 11-24-70
10°S

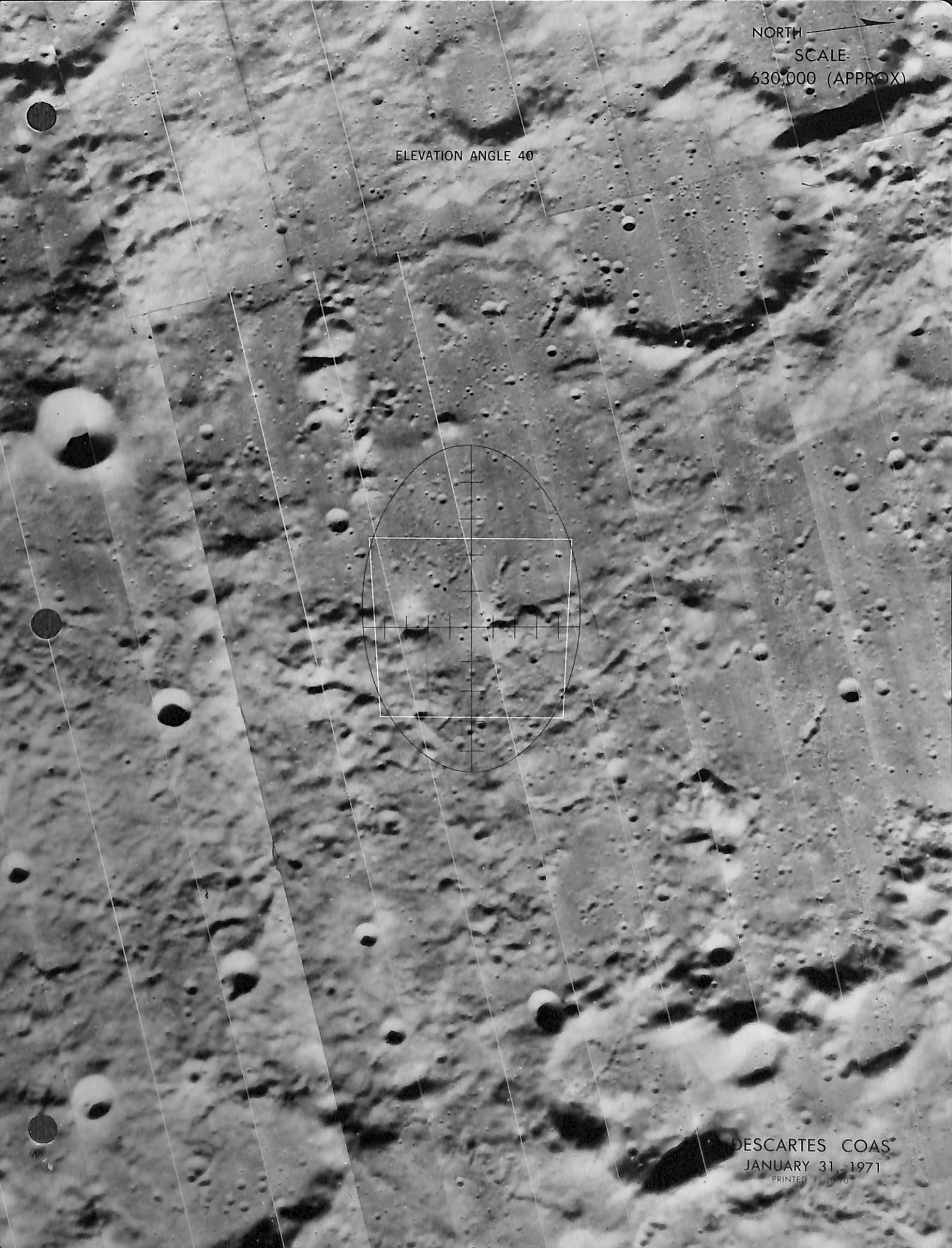

15°S
10°S
05°S
NORTH
SCALE
1:2,500,000 (APPROX)
DOLLOND C
DOLLOND B
ABULFEDA
DOLLOND
29
ALMANON
15°E
TAYLOR A
DOLLOND E
ABULFEDA B
THEON JR
TAYLOR
DELAMBRE
DE-2
LAT = -09.250°
LONG/2 = +09.798°
ALT = 000.00
TACITUS
ZOLLNER
ALFRAGANUS
20°E
KANT
TACITUS D
CYRILLUS B
NM
120
HYPATIA
CYRILLUS
90
25°E
IP (1+53)
60
TORRICELLI C
30
TORRICELLI
MADLER
0
30°E
DE-2
JANUARY
PRINTED IN U.S.A.


10°S
NORTH
SCALE
1:630,000 (APPROX)
29
DE-2
LAT = −09.250°
LONG/2 = +09.796°
ALT = 000.00
20°E
NM
40
20°E
KANT
20
CYRILLUS B
0
29
10°S
DE-2
JANUARY 31, 1971
PRINTED 11-16-70


05°S
00°
05°N
NORTH
SCALE
1:2,500,000 (APPROX)
SUESS B
FLAMSTEED C
29
45° W
SUESS F
FLAMSTEED
FLAMSTEED B
FLAMSTEED A
NM
120
90
60
30
0
KEPLER D
MAESTLIN
40° W
ENCKE E
LAT = +00.283°
LONG/2 = −20.150°
ALT = 000.00
OCEAN OF STORMS
WICHMANN
KEPLER
ENCKE
ENCKE C
IP (1+08)
KEPLER A
35° W
KUNOWSKY
LANSBERG A
LANSBERG D
HORTENSIUS A
30° W
EUCLIDES
29
LANGRENUS C
OCEAN OF STORMS
ENCKE E
JANUARY 31, 1971
PRINTED 11-16-70
LANSBERG B
HORTENSIUS
05°S
00°
LANSBERG
05°N


00°
NORTH
SCALE
1:630,000 (APPROX)
40°W
29
ENCKE E
LAT = +00.283°
LONG/2 = -20.150°
ALT = 000.00
NM
40
40°W
OCEAN OF STORMS
20
0
ENCKE B
IP (1+08)
ENCKE C
29
ENCKE E
JANUARY 31, 1971
PRINTED 12-4-70
00°


NORTH
SCALE
1:810,000 (APPROX)
27
SIMULATED OBLIQUE 30°
DESCARTES
JANUARY 31, 1971
PRINTED 12-4-70


NORTH
SCALE
630,000 (APPROX)
ELEVATION ANGLE 40°
DESCARTES COAS
JANUARY 31, 1971

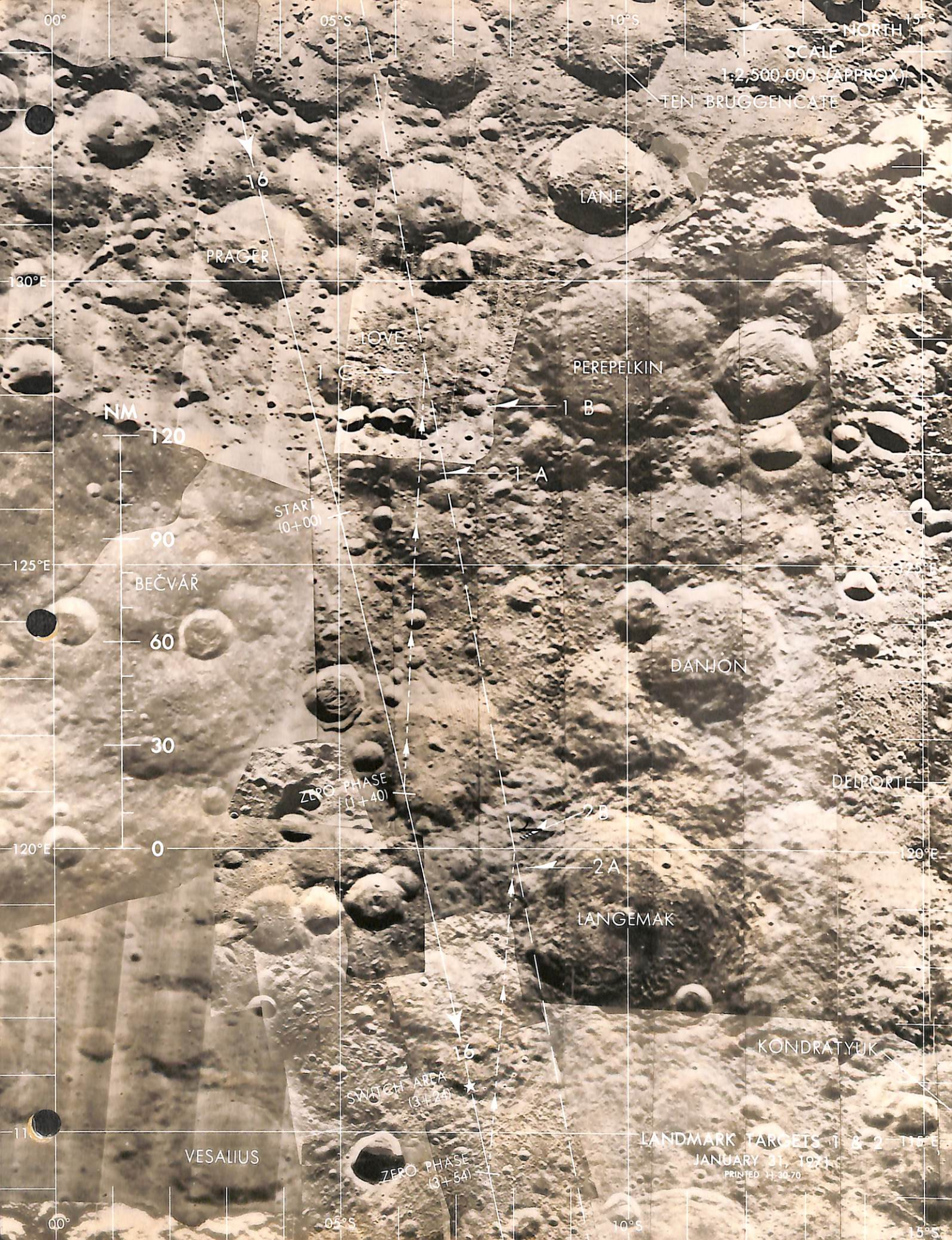
TARGET DATA

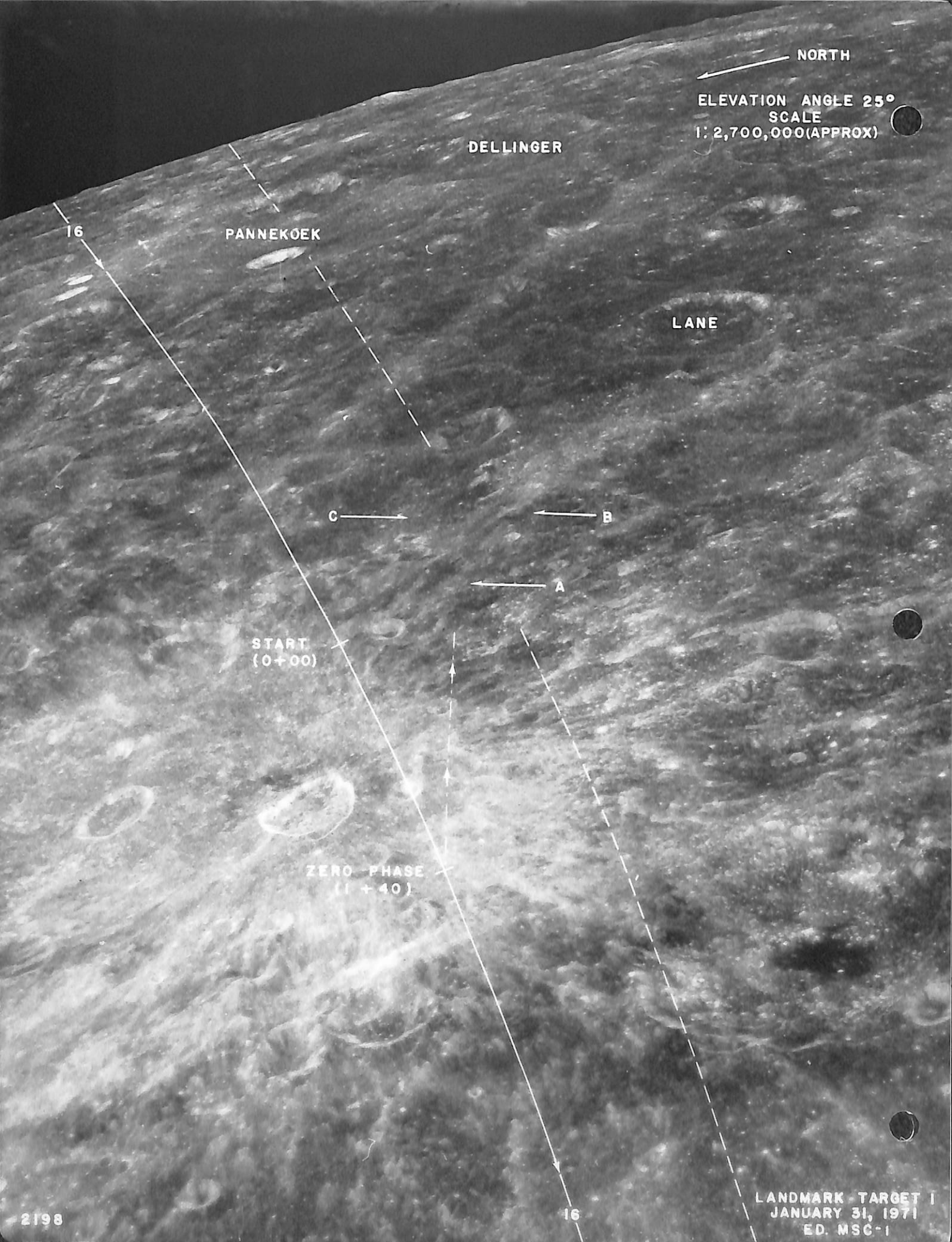
REV 16				REV 30			
AREA	TARGET	DIAMETER (FT)	SUN ANGLE	AREA	TARGET	DIAMETER (FT)	SUN ANGLE
1	A	30,380	24°	5	A	18,471	23°
	B	40,102	22°		B	7,716	23°
	C	11,544	22°		C	13,853	23°
2	A	8,220	30°	6	A	13,245	31°
	B	21,300	30°		B	15,433	31°
3	A	10,572	25°		C	9,114	31°
	B	10,572	26°	7	A	12,638	25°
4	A	12,760	15°		B	7,595	25°
	B	5,000	15°		C	10,572	25°
1,2,5,6 - Backward Facing 3,4,7,8 - Forward Facing				8	A	19,443	19°
					B	6,319	19°
					C	8,446	19°

VISUAL ACQUISITION CRITERIA

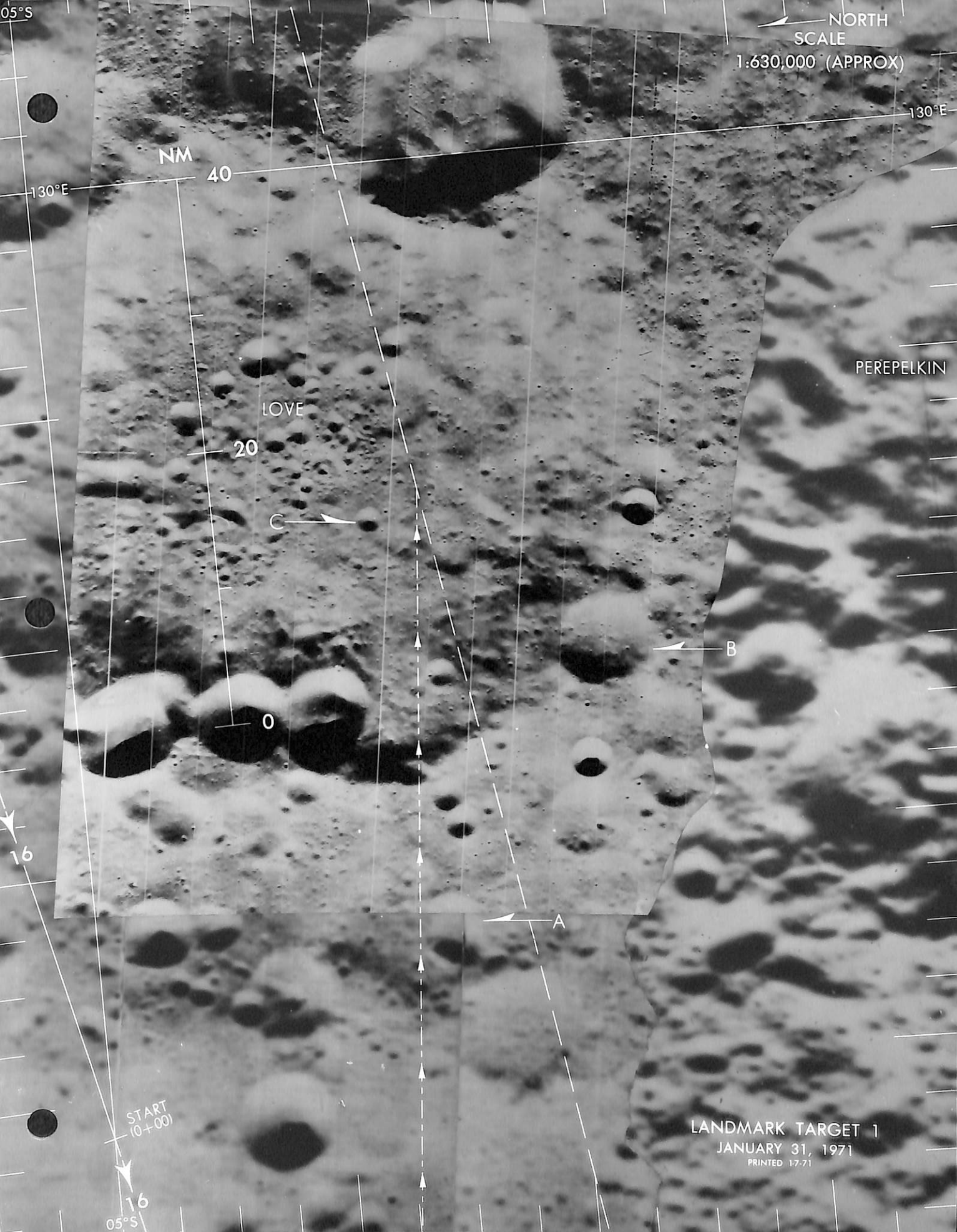
Acquisition Level	Definition
ZERO	No acquisition of target or target area.
LOW	General area around targets acquired but targets themselves are not visible, for example, a large crater in which targets are located can be identified but targets cannot be seen.
MEDIUM	Target acquired but based on surrounding terrain features rather than unique features of target, for example, a feature visible as an undistinguished blob is identified as a target crater by using its location relative to surrounding features. For this criterion to apply, some thing must be visible at the expected target location.
HIGH	Target area or target is positively acquired based on unique shapes of target features.

Printed
11-30-70

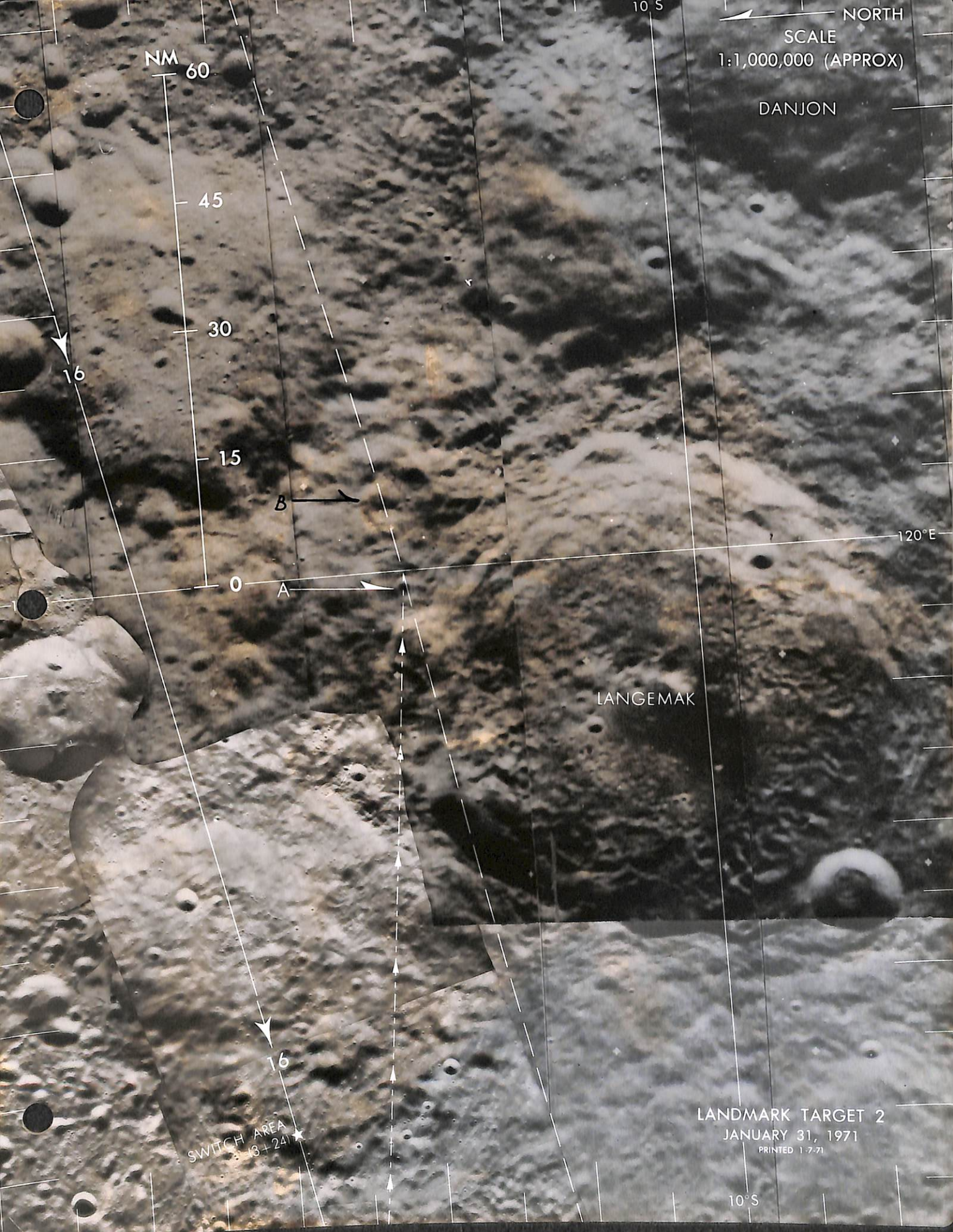

00°
05°S
10°S
15°S
NORTH
SCALE
1:2,500,000 (APPROX)
TEN BRUGGENCATE
16
LANE
PRAGER
130°E
TOVE
1 C
PEREPELKIN
1 B
1 A
NM
120
START
(0+00)
90
125°E
BEČVÁŘ
60
DANJON
30
ZERO PHASE
(0+40)
DELPORTE
2 B
120°E
0
2 A
LANGEMAK
KONDRATYUK
16
SWITCH AREA
(3+24)
11
LANDMARK TARGETS 1 & 2 TYPE
JANUARY 31, 1971
PRINTED 11-30-70
VESALIUS
ZERO PHASE
(3+54)
00°
05°S
10°S
15°S

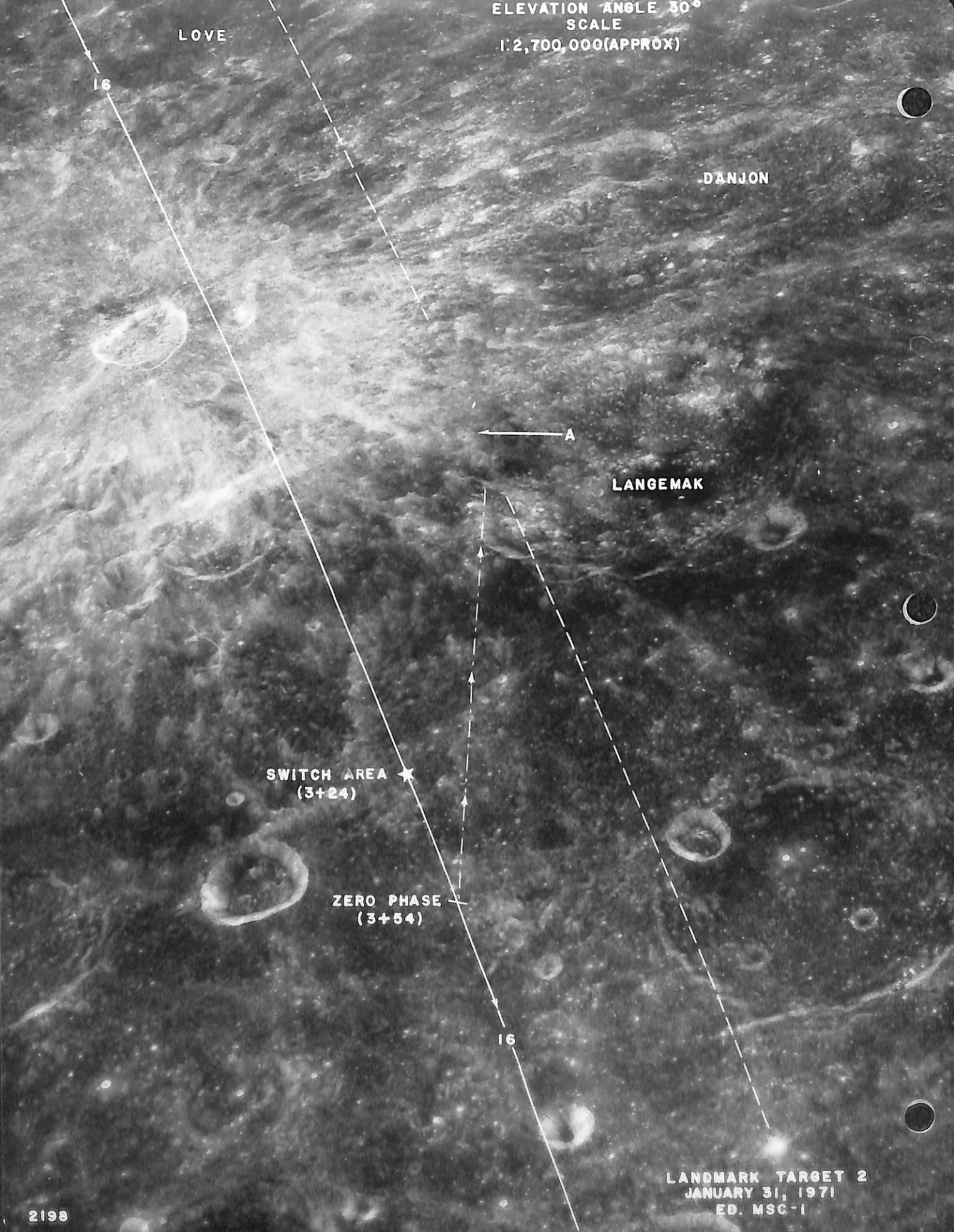

NORTH
ELEVATION ANGLE 25°
SCALE
1: 2,700,000(APPROX)
DELLINGER
16
PANNEKOEK
LANE
C
B
A
START
(0+00)
ZERO PHASE
(1+40)
16
2198
LANDMARK - TARGET I
JANUARY 31, 1971
ED. MSC-1

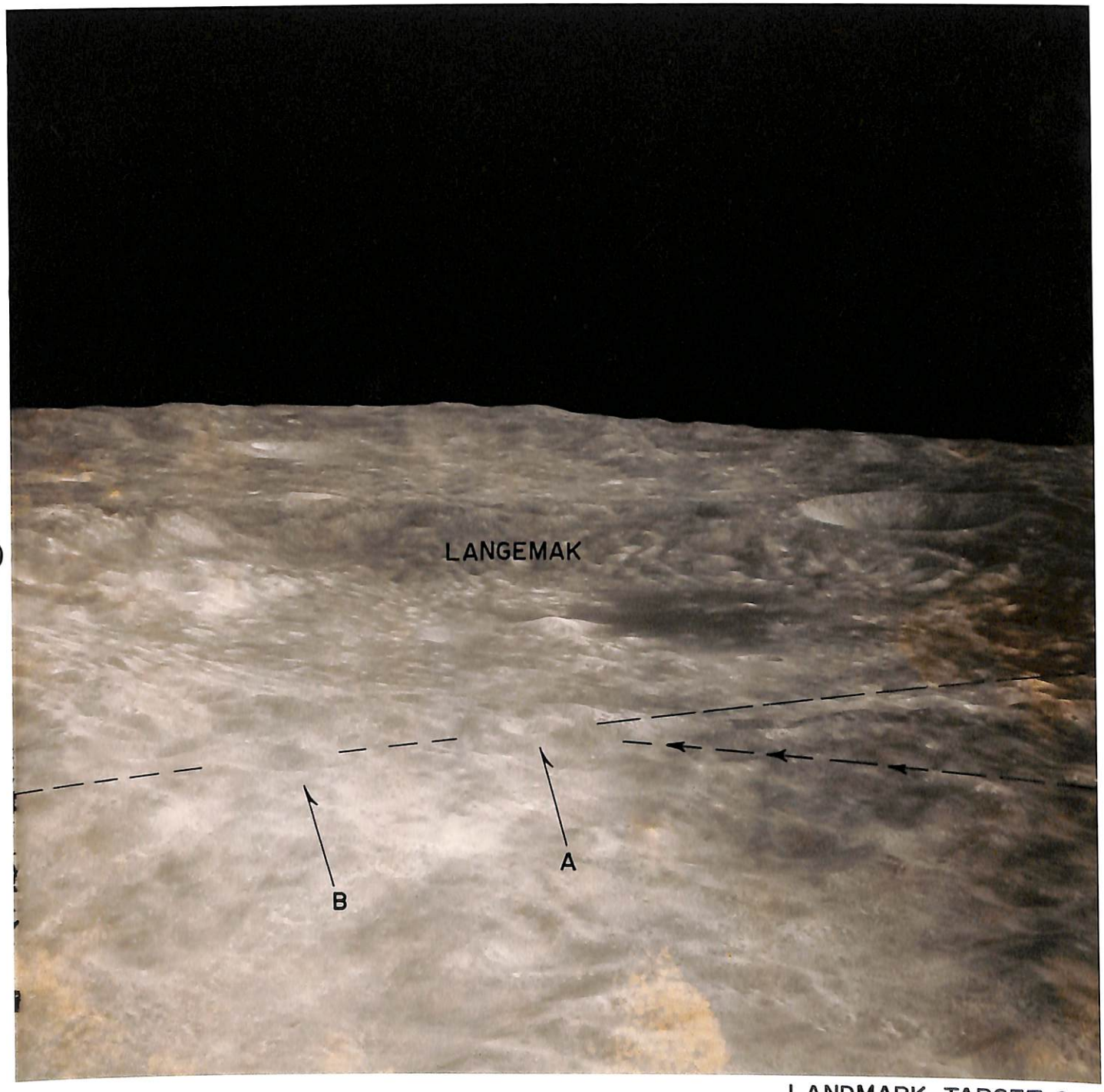

NORTH
SCALE
1:2,630,000 (APPROX)
PRAGER
LOWELL
LAINE
PEREPELKIN
A
B
C
START
(0+00)
16
DANJON
SIM OBLIQUE 22°
LANDMARK TARGET 1
JANUARY 31, 1971
PRINTED 12-11-70


05°S
NORTH
SCALE
1:630,000 (APPROX)
130°E
NM
40
130°E
PEREPELKIN
LOVE
20
C
B
0
16
A
START
(0+00)
16
05°S
LANDMARK TARGET 1
JANUARY 31, 1971
PRINTED 1-7-71


NORTH
SCALE
1:1,700,000 (APPROX)
PRAGER
LOVE
16
LANE
PEREPELKIN
DANION
B
A
LANGEMAK
16
SWITCH AREA
(3+24)
SIM OBLIQUE 30°
LANDMARK TARGET 2
JANUARY 31, 1971
PRINTED 12-28-70

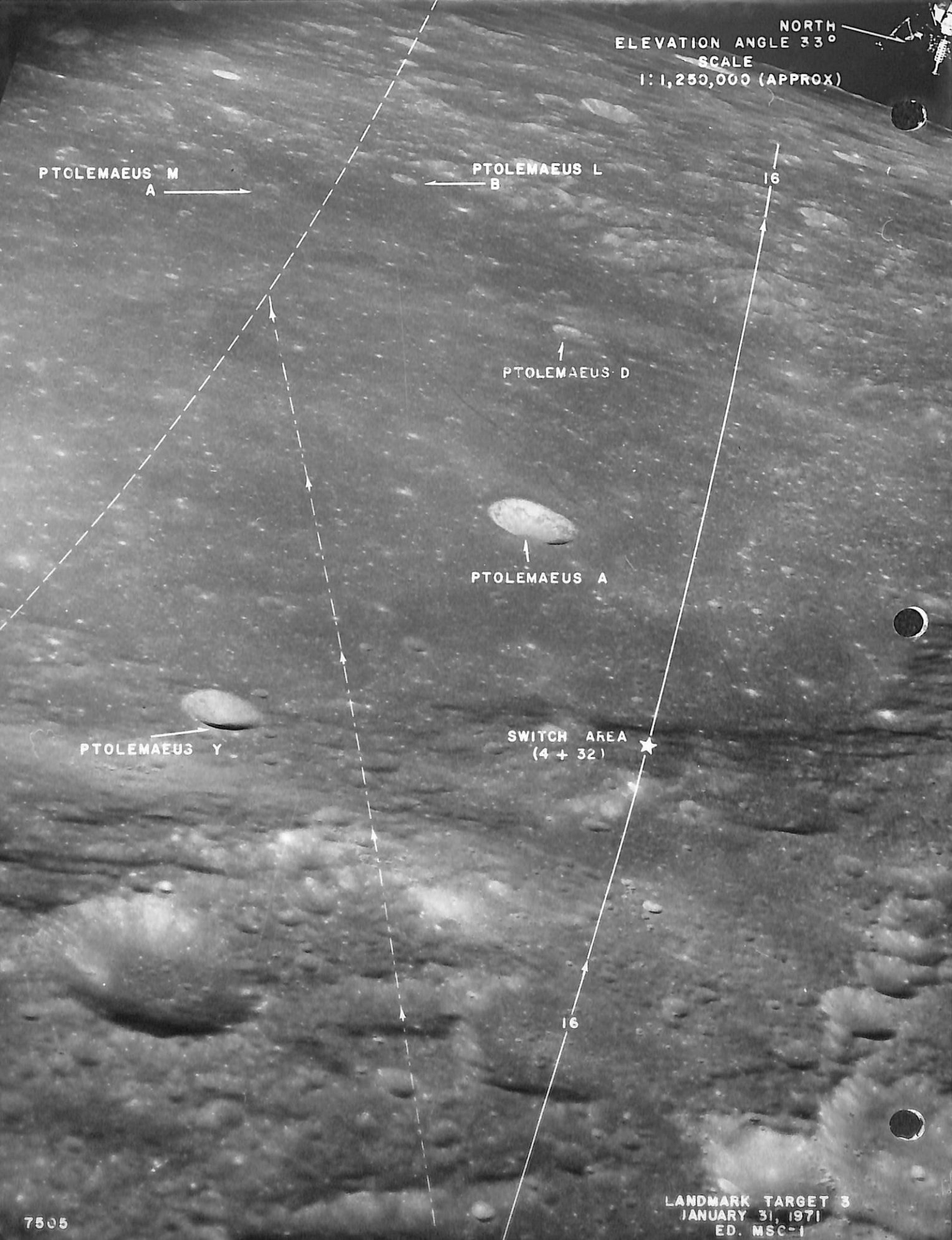

10°S
NORTH
SCALE
1:1,000,000 (APPROX)
DANJON
NM
60
45
30
15
0
16
B
A
120°E
LANGEMAK
16
SWITCH AREA
18 - 24
LANDMARK TARGET 2
JANUARY 31, 1971
PRINTED 1-7-71
10°S


ELEVATION ANGLE 30°
SCALE
1:2,700,000(APPROX)
LOVE
16
DANJON
A
LANGEMAK
SWITCH AREA
(3+24)
ZERO PHASE
(3+54)
16
LANDMARK TARGET 2
JANUARY 31, 1971
ED. MSC-1
2198

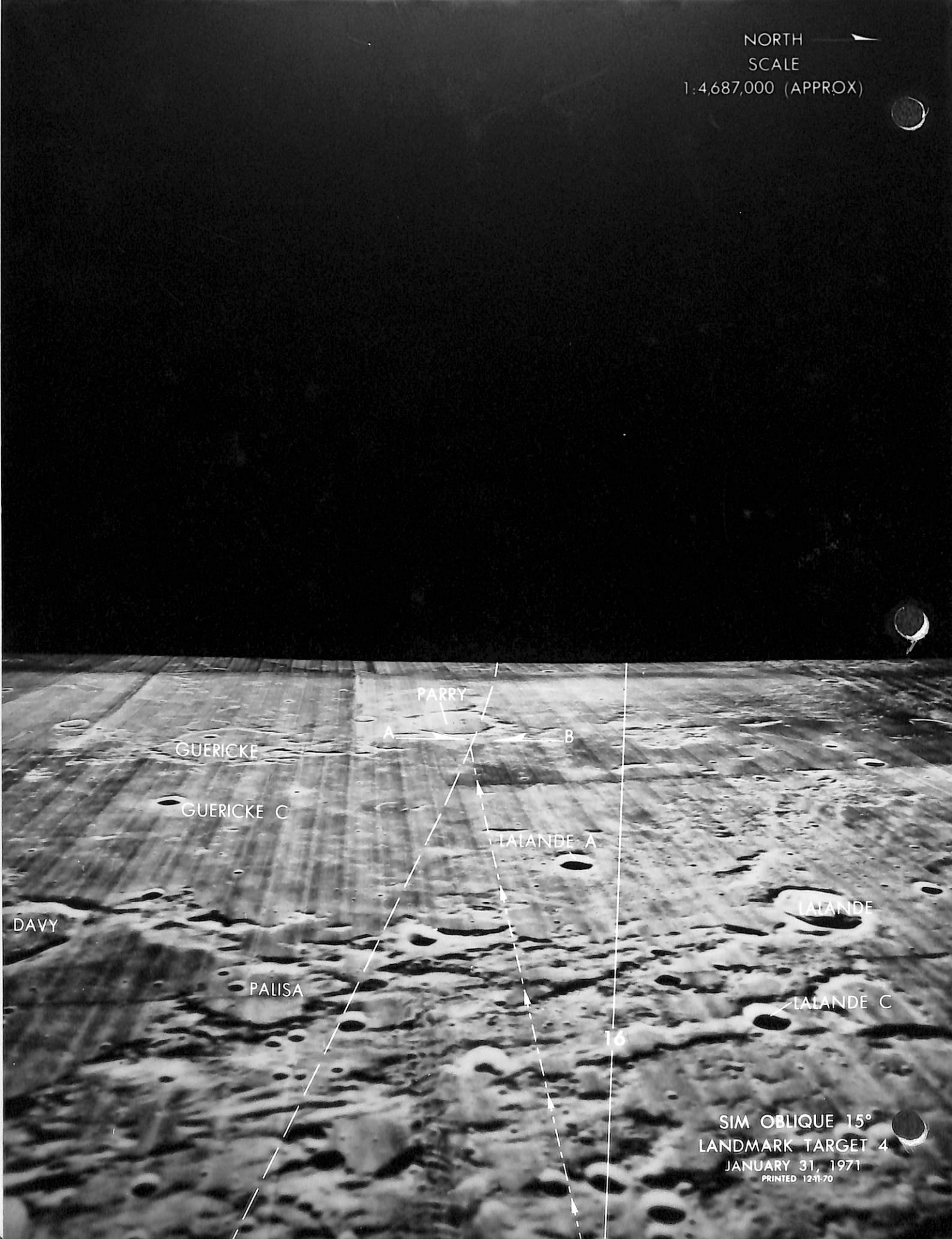


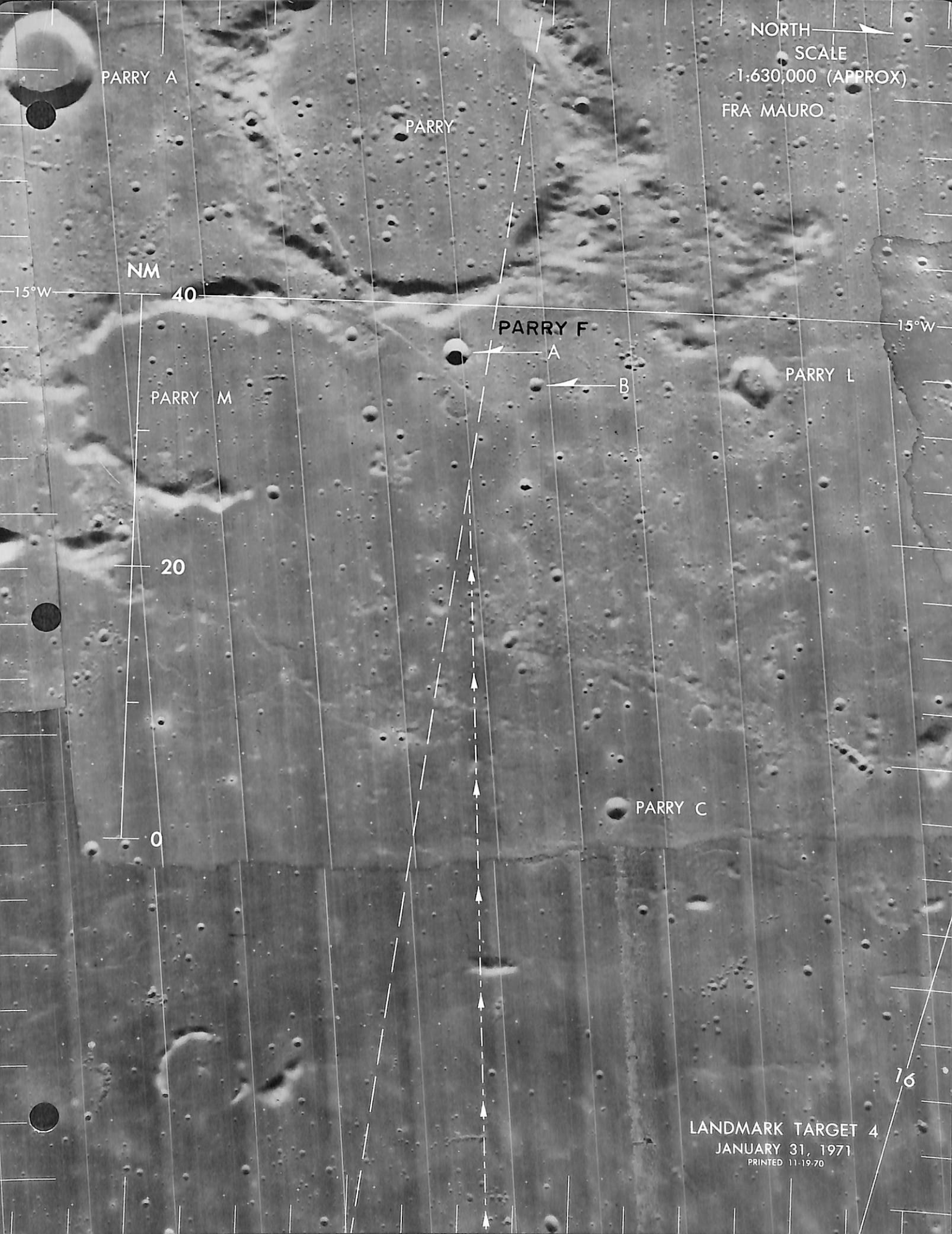
LANDMARK TARGET 2
JANUARY 31, 1971
ED. MSC-1

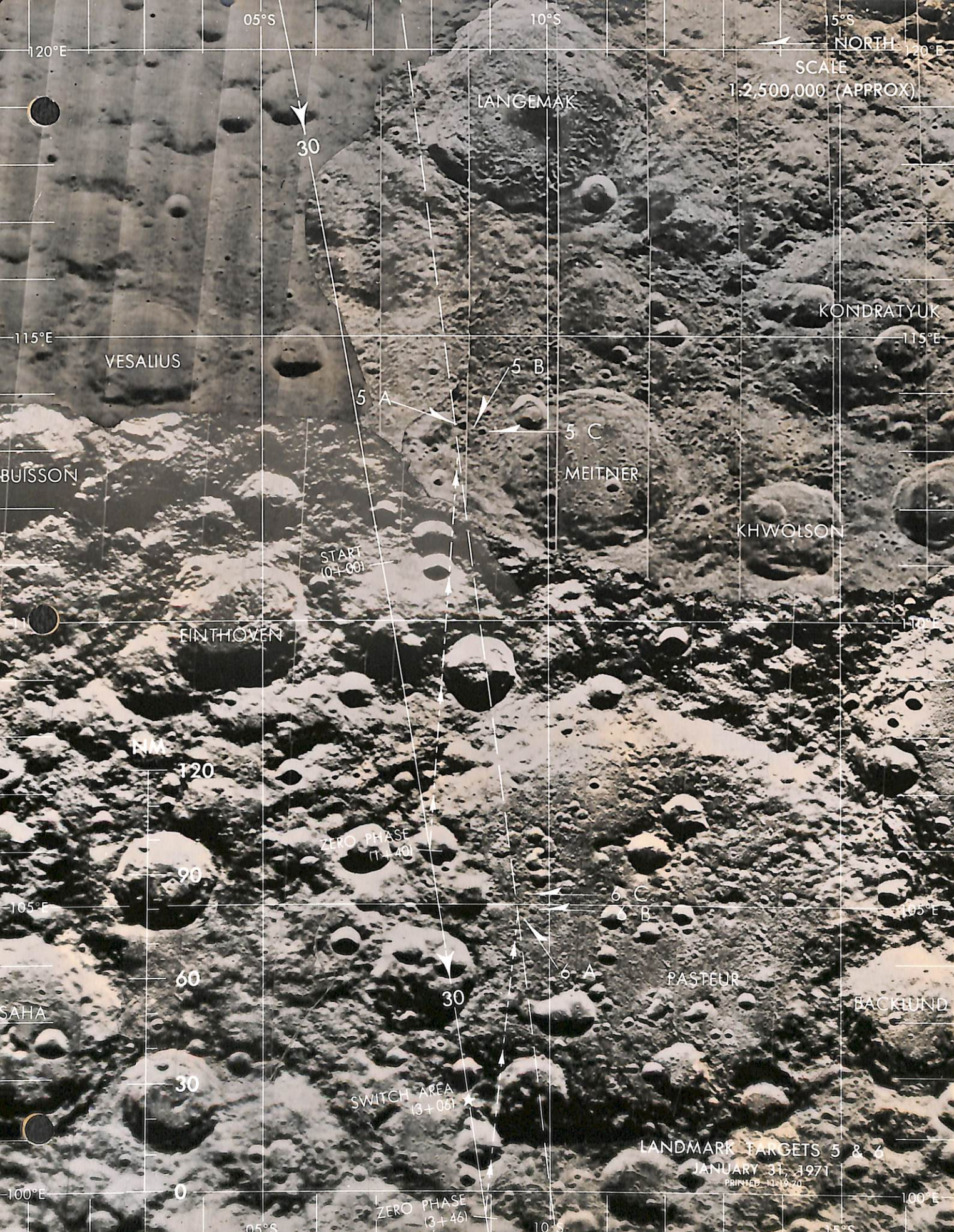

15°S
10°S
BONPLAND
05°S
00°
NORTH
SCALE
1:2,500,000 (APPROX)
FRA MAURO
PARRY A
PARRY
GUERICKE B
15°W
4 A
4 B
GUERICKE
TURNER
16
GUERICKE C
10°W
LALANDE A
LASSELL C
LALANDE
DAVY
LASSELL
NM
120
DAVY Y
PALISA
LALANDE C
MÖSTING
90
MÖSTING A
05°W
DAVY G
16+16)
ZERO PHASE
ALPETRAGIUS
3 B
60
FLAMMARION
3 A
ALPHONSUS
PTOLEMAEUS
30
HERSHEL
SPORER
OPPOLZER
0
00°
14+32)
SWITCH AREA
REAUMUR
MULLER
LANDMARK TARGETS 3 & 4
JANUARY 31, 1971
PRINTED 11-19-70
KLEIN
HIPPARCHUS J
SEELIGER
(3+40)
ZERO PHASE
PARROT
15°S
ALBATEGNIUS
10°S
05°S
00°

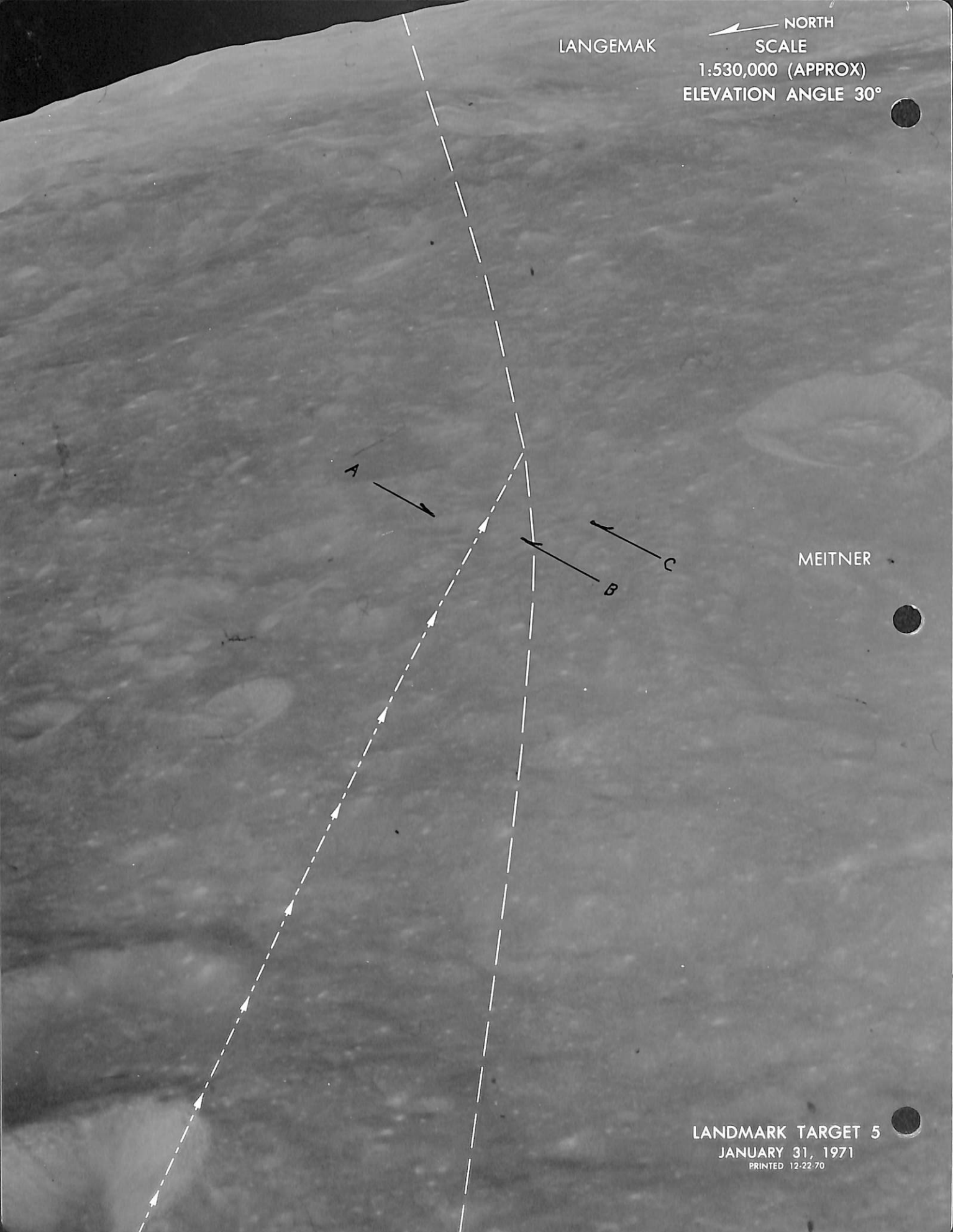

NORTH
ELEVATION ANGLE 33°
SCALE
1: 1,250,000 (APPROX)
PTOLEMAEUS M
A
PTOLEMAEUS L
B
16
PTOLEMAEUS D
PTOLEMAEUS A
PTOLEMAEUS Y
SWITCH AREA
(4 + 32)
16
7505
LANDMARK TARGET 3
JANUARY 31, 1971
ED. MSC-1

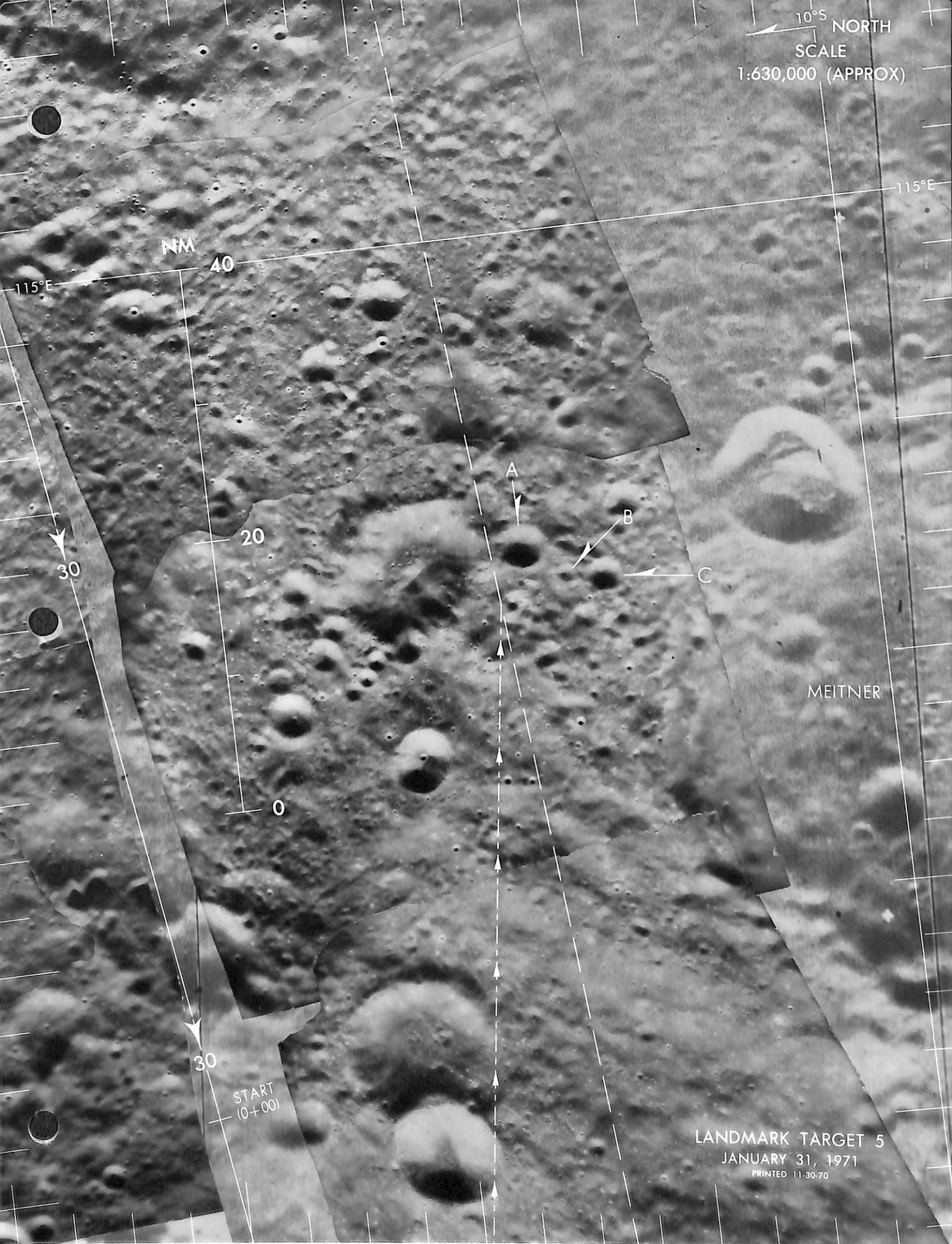

DAVY G
10°S
PTOLEMAEUS J
NORTH
SCALE
1:630,000 (APPROX)
DAVY GB
05°W
DAVY GA
PTOLEMAEUS KA
05°W
PTOLEMAEUS JA
PTOLEMAEUS K
PTOLEMAEUS E
16
PTOLEMAEUS L
B
PTOLEMAEUS O
PTOLEMAEUS PA
PTOLEMAEUS M
A
PTOLEMAEUS C
PTOLEMAEUS P
PTOLEMAEUS DA
NM
40
PTOLEMAEUS D
PTOLEMAEUS
PB
PTOLEMAEUS DB
20
PTOLEMAEUS A
16
PTOLEMAEUS SA
PTOLEMAEUS S
PTOLEMAEUS U
00°
0
10°S
LANDMARK TARGET 3
JANUARY 31, 1971
PRINTED 11-19-70


NORTH
SCALE
1:4,687,000 (APPROX)
PARRY
A
B
GUERICKE
GUERICKE C
LALANDE A
LALANDE
DAVY
PALISA
LALANDE C
16
SIM OBLIQUE 15°
LANDMARK TARGET 4
JANUARY 31, 1971
PRINTED 12-11-70


NORTH
SCALE
1:630,000 (APPROX)
FRA MAURO
PARRY A
PARRY
NM
40
15°W
15°W
PARRY F
A
B
PARRY L
PARRY M
20
PARRY C
0
16
LANDMARK TARGET 4
JANUARY 31, 1971
PRINTED 11-19-70


05°S
10°S
15°S
120°E
NORTH
SCALE
1:2,500,000 (APPROX)
LANGEMAK
30
KONDRATYUK
115°E
VESALIUS
5 A
5 B
5 C
BUISSON
MEITNER
KHWOLSON
START
(0+00)
110°E
EINTHOVEN
EM
120
90
ZERO PHASE
(1+40)
105°E
6 C
B
6 A
PASTEUR
60
30
SAHA
BACKLUND
SWITCH AREA
(3+06)
LANDMARK TARGETS 5 & 6
JANUARY 31, 1971
PRINTED 11-15-70
100°E
0
ZERO PHASE
(3+46)


NORTH
LANGEMAK
SCALE
1:530,000 (APPROX)
ELEVATION ANGLE 30°
A
B
C
MEITNER
LANDMARK TARGET 5
JANUARY 31, 1971
PRINTED 12-22-70

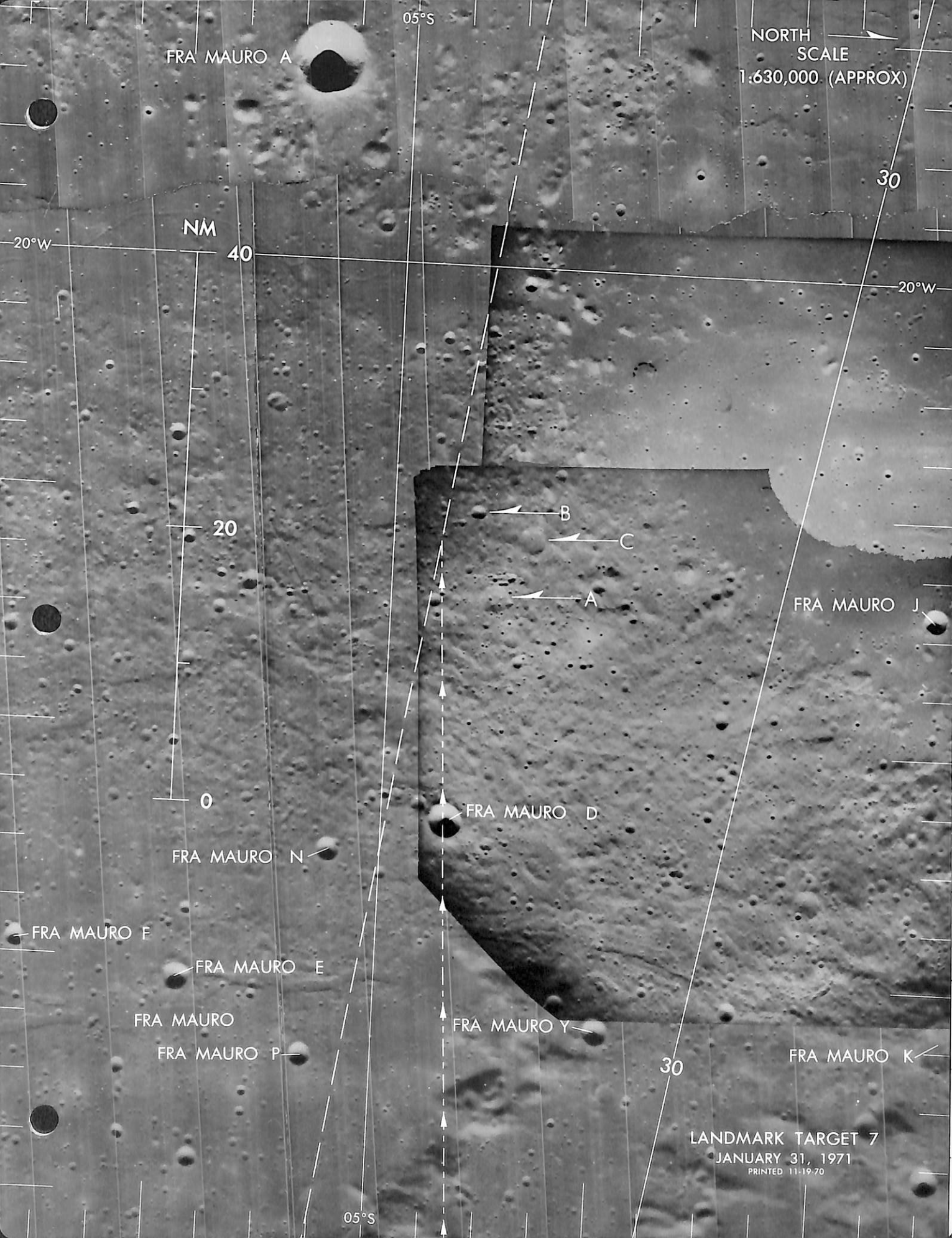

10°S
NORTH
SCALE
1:630,000 (APPROX)
115°E
115°E
NM
40
20
0
30
30
A
B
C
MEITNER
START
(0+00)
LANDMARK TARGET 5
JANUARY 31, 1971
PRINTED 11-30-70

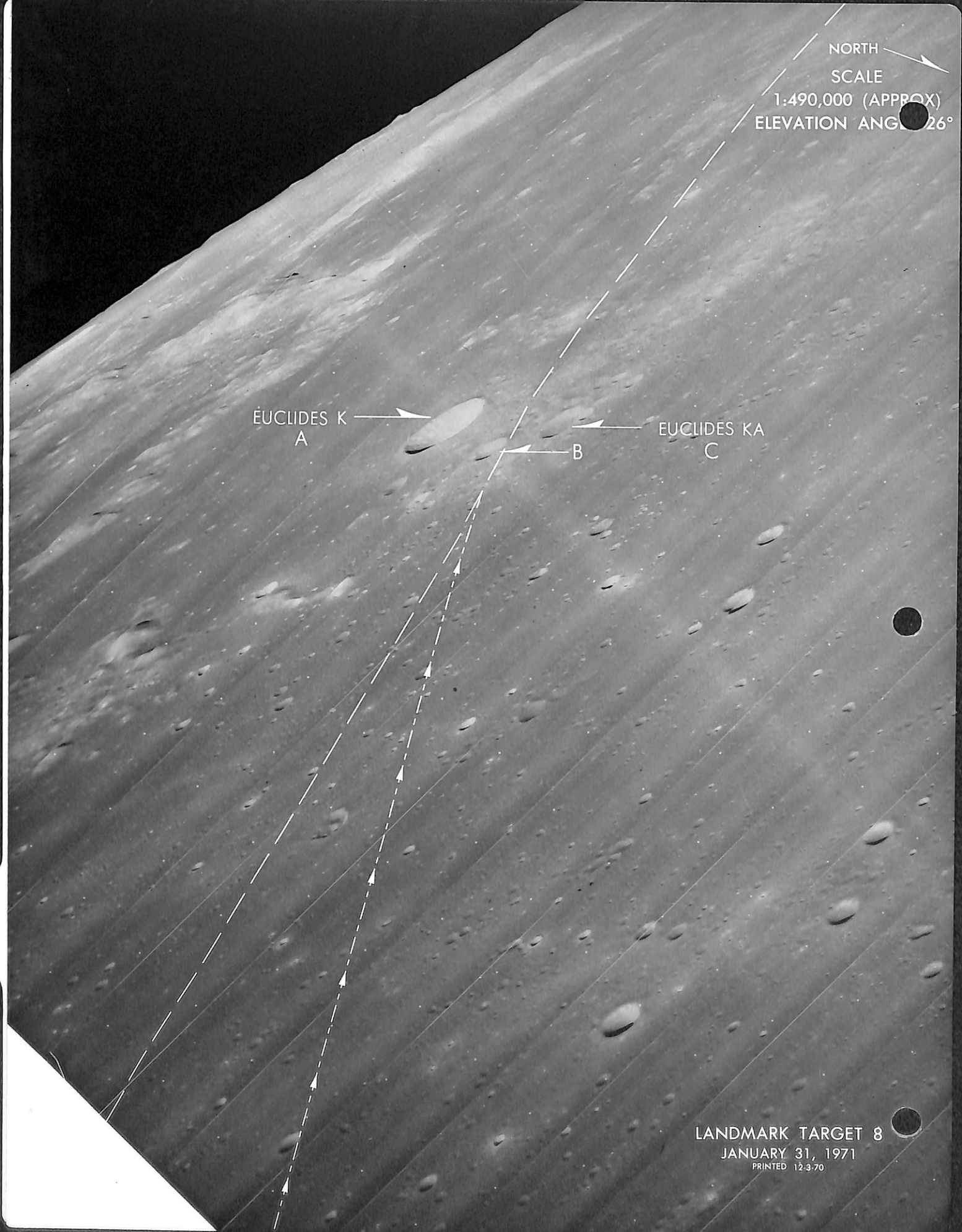

NORTH
SCALE
1:2,700,000 (APPROX)
MEITNER
KHWOLSON
EINTHOVEN
30
C
A
B
PASTEUR
SWITCH AREA
(3+06)
30
SIM OBLIQUE 30°
LANDMARK TARGET 6
JANUARY 31, 1971
PRINTED 12-11-70

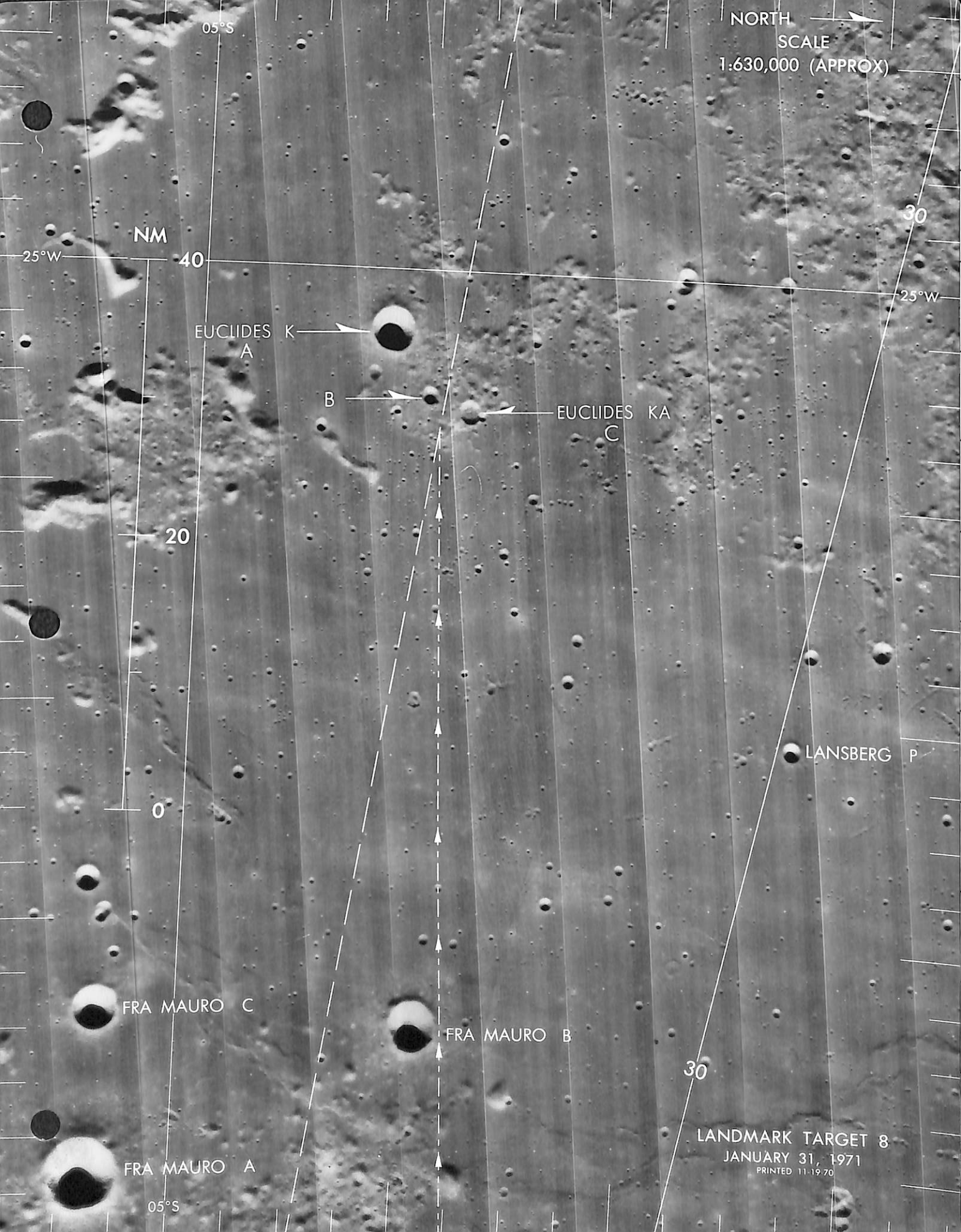

10°S
NORTH
SCALE
1:630,000 (APPROX)
NM
40
30
20
PASTEUR
105°E
C
B
A
0
105°
30
LANDMARK TARGET 6
JANUARY 31, 1971
PRINTED 11 20 70
10°S

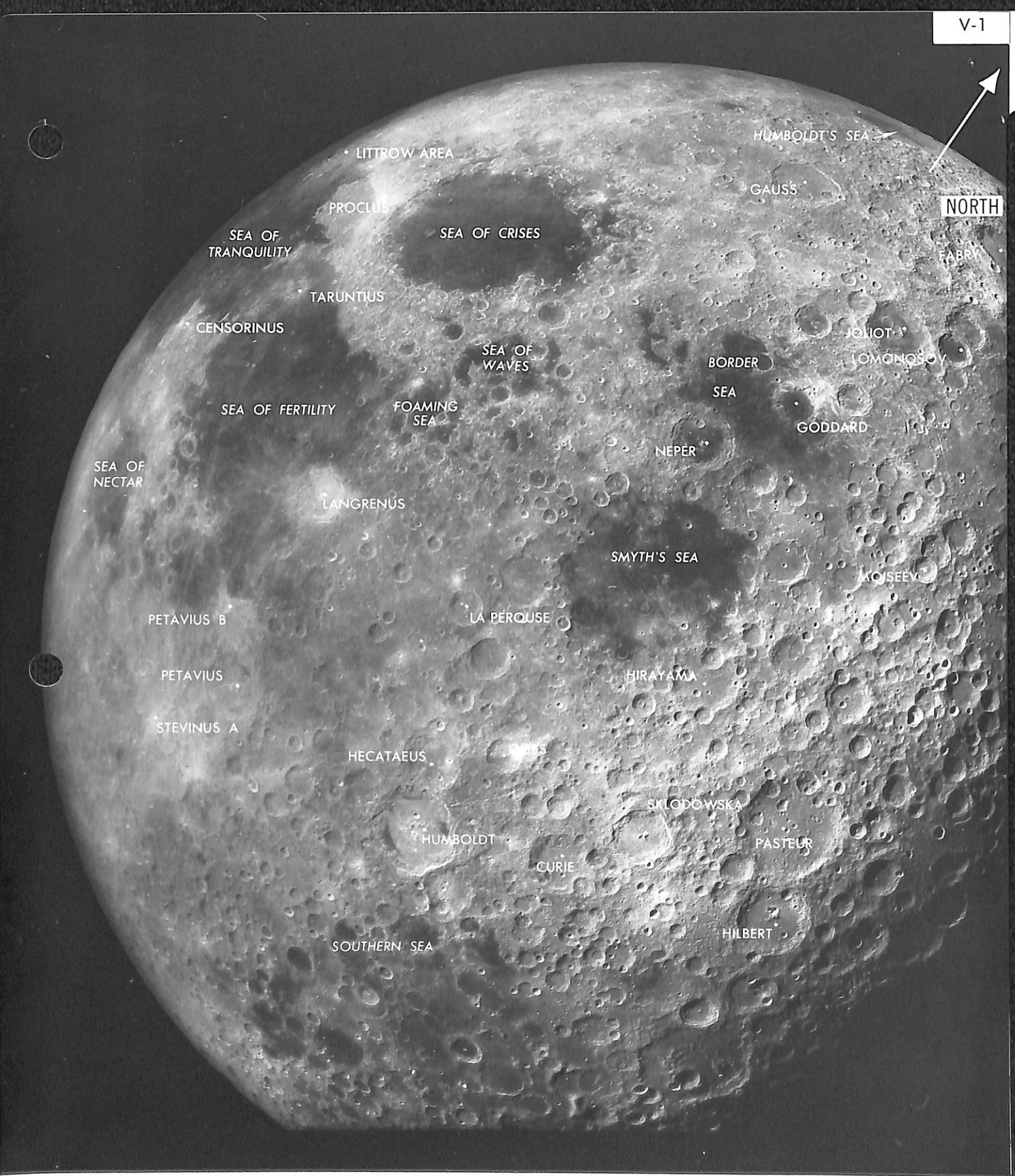

10°S
EUCLIDES
05°S
00°
NORTH
SCALE
1:2,500,000 (APPROX)
RIPHAEUS MOUNTAIN RANGE
LANSBERG C
LANSBERG B
30
LANSBERG
25°W
8A
8B
8C
REINHOLD
KNOWN SEA
FRA MAURO B
REINHOLD B
FRA MAURO A
20°W
7B
7C
7A
GAMBART A
NM
BONPLAND
120
FRA MAURO
PARRY A
PARRY
(4+56)
ZERO PHASE
90
GAMBART
15°W
GUERICKE
60
(4+00)
SWITCH AREA
TURNER
(3+40)
ZERO PHASE
GAMBART C
30
GUERICKE C
GAMBART B
30
0
LANDMARK TARGETS 7 & 8
JANUARY 31, 1971
PRINTED 11-30-70
LALANDE A
10°W
05°S
LALANDE
00°


NORTH
SCALE
1:500,000 (APPROX)
ELEVATION ANGLE
C
B
A
30
FRA MAURO D
FRA MAURO Y
FRA MAURO N
FRA MAURO P
FRA MAURO E
LANDMARK TARGET 7
JANUARY 31, 1971
PRINTED 12-3-70


05°S
FRA MAURO A
NORTH
SCALE
1:630,000 (APPROX)
30
NM
20°W
40
20°W
20
B
C
A
FRA MAURO J
0
FRA MAURO D
FRA MAURO N
FRA MAURO F
FRA MAURO E
FRA MAURO
FRA MAURO P
FRA MAURO Y
30
FRA MAURO K
LANDMARK TARGET 7
JANUARY 31, 1971
PRINTED 11-19-70
05°S


NORTH
SCALE
1:490,000 (APPROX)
ELEVATION ANG 26°
EUCLIDES K
A
B
EUCLIDES KA
C
LANDMARK TARGET 8
JANUARY 31, 1971
PRINTED 12-3-70


NORTH
SCALE
1:630,000 (APPROX)
05°S
NM
25°W
40
30
25°W
EUCLIDES K
A
B
EUCLIDES KA
C
20
0
LANSBERG P
FRA MAURO C
FRA MAURO B
30
FRA MAURO A
05°S
LANDMARK TARGET 8
JANUARY 31, 1971
PRINTED 11-19-70



V-1 MAJOR LUNAR FEATURES

Use photograph to identify observable lunar surface features during post-TEI T.V. transmission.

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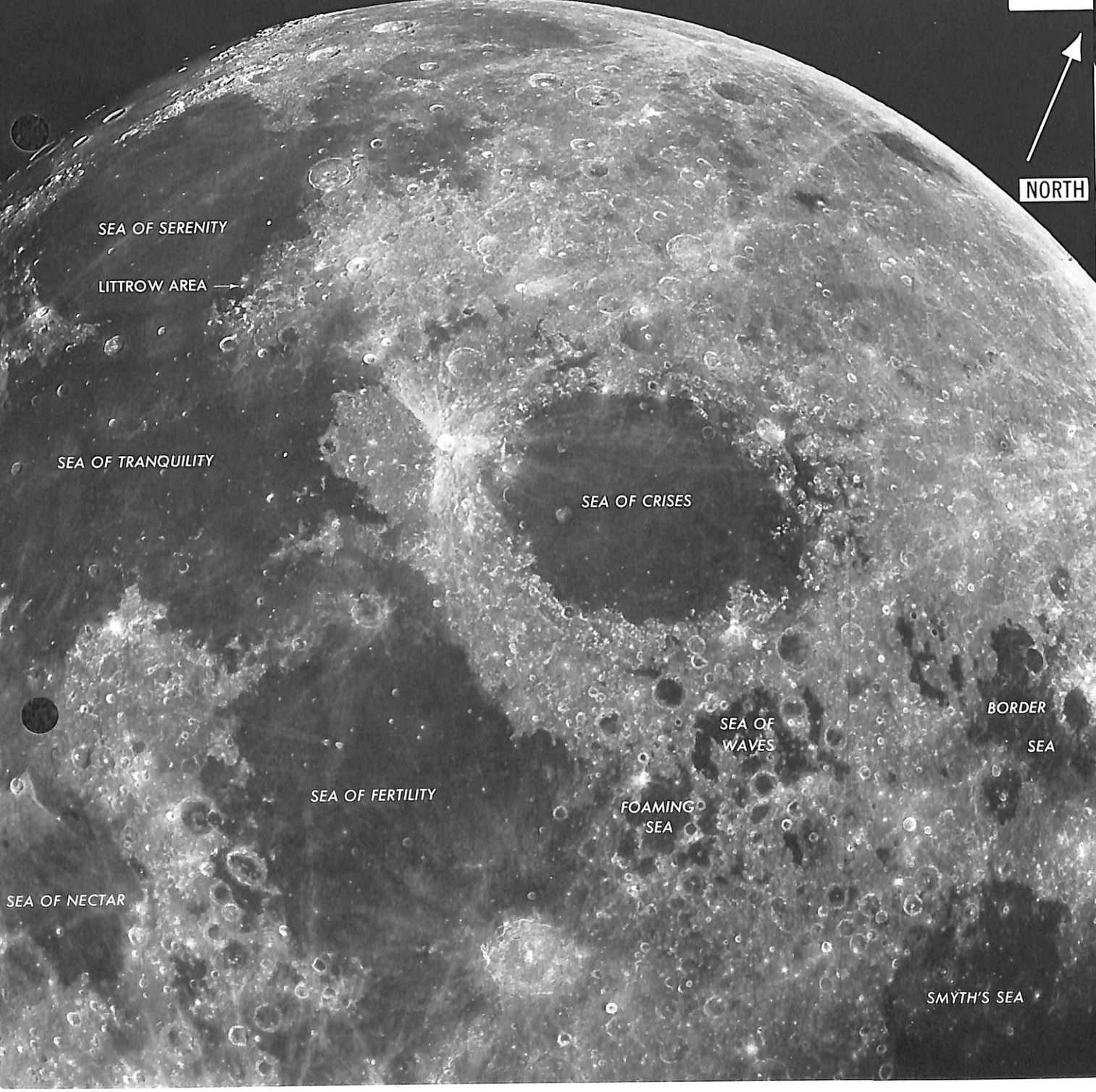
VISUAL TARGETS

POST-TEI	V-1	MAJOR LUNAR FEATURES
	V-2	EASTERN MARIA
NOT NOMINALLY SCHEDULED	V-3	MENDELEEV
	V-4	CRATER KING
	V-5	CRATER KING
	V-6	PASTEUR/PICKERING
	V-7	DESCARTES
	V-8	ALPHONSUS
	V-9	DAVY CRATER CHAIN
	V-10	FRA MAURO SITE
	V-11	FRA MAURO
	V-12	REINER γ STRUCTURE

Printed
12-17-70

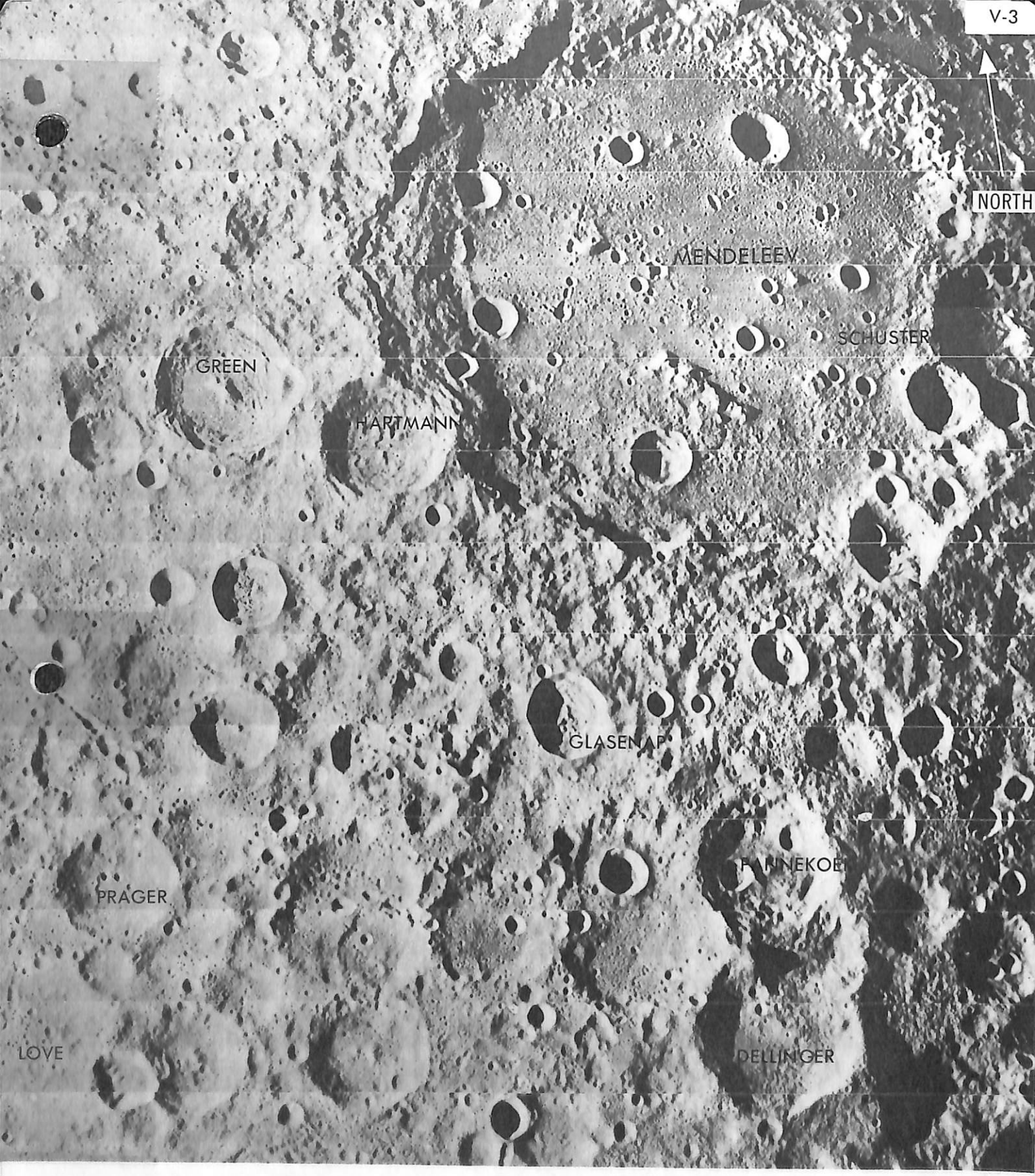


V-2 EASTERN MARIA

Use color chart to:

A Compare and describe the color tones of the major maria at varying sun angles.

B. Following TEI, list the maria in order of decreasing color tones (starting with the darkest).



V-3 MENDELEEV AREA (141°E, 5°N)

Make and record observations in the area of crater Mendeleev.

A. Describe crater chain in crater floor; Is it related to any structures? and can you distinguish rim deposits?

B. Compare that chain with the chain north of crater Prager.

C. Look for layering of dark rocks in craters Hartmann and Green.

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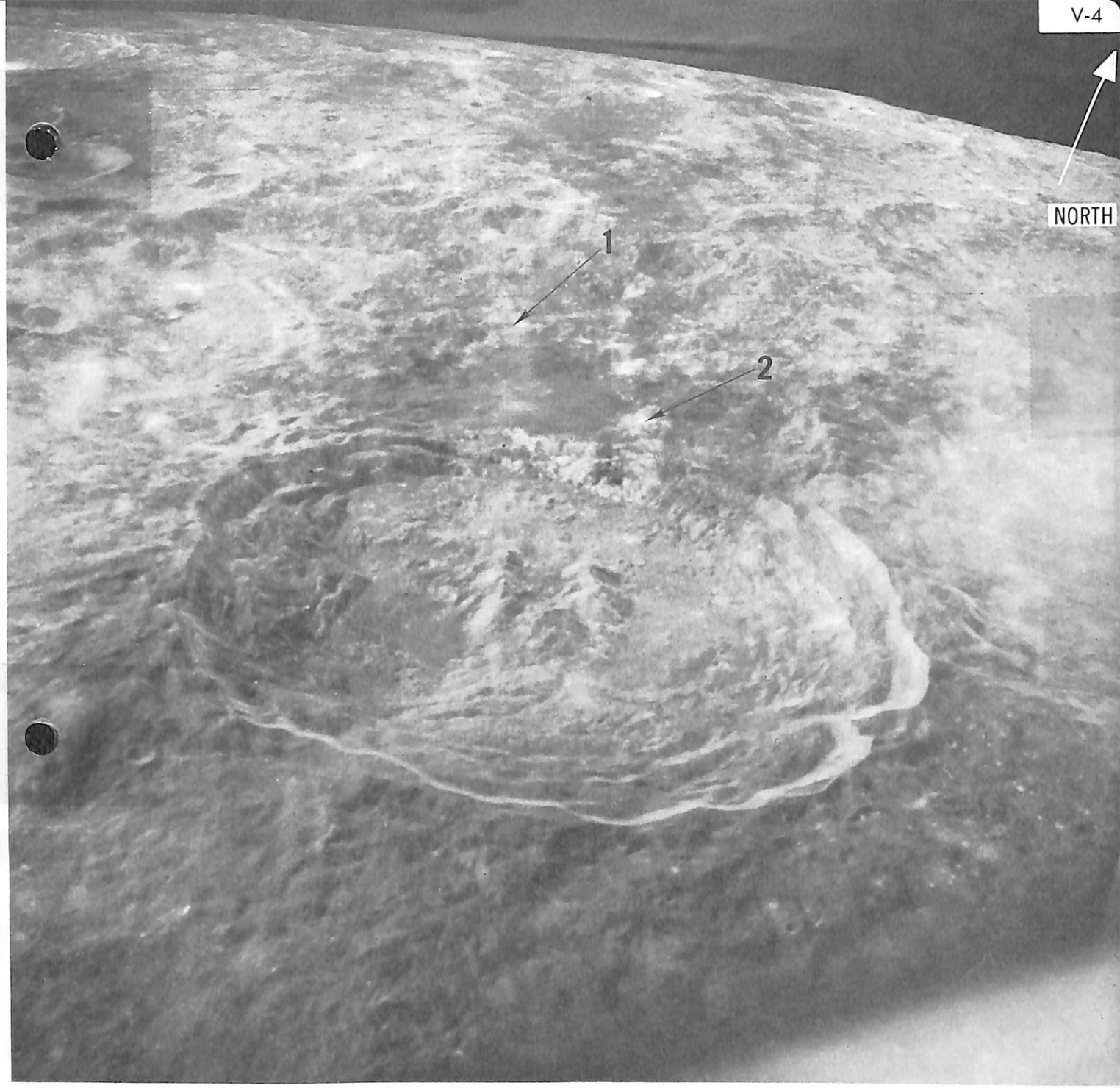
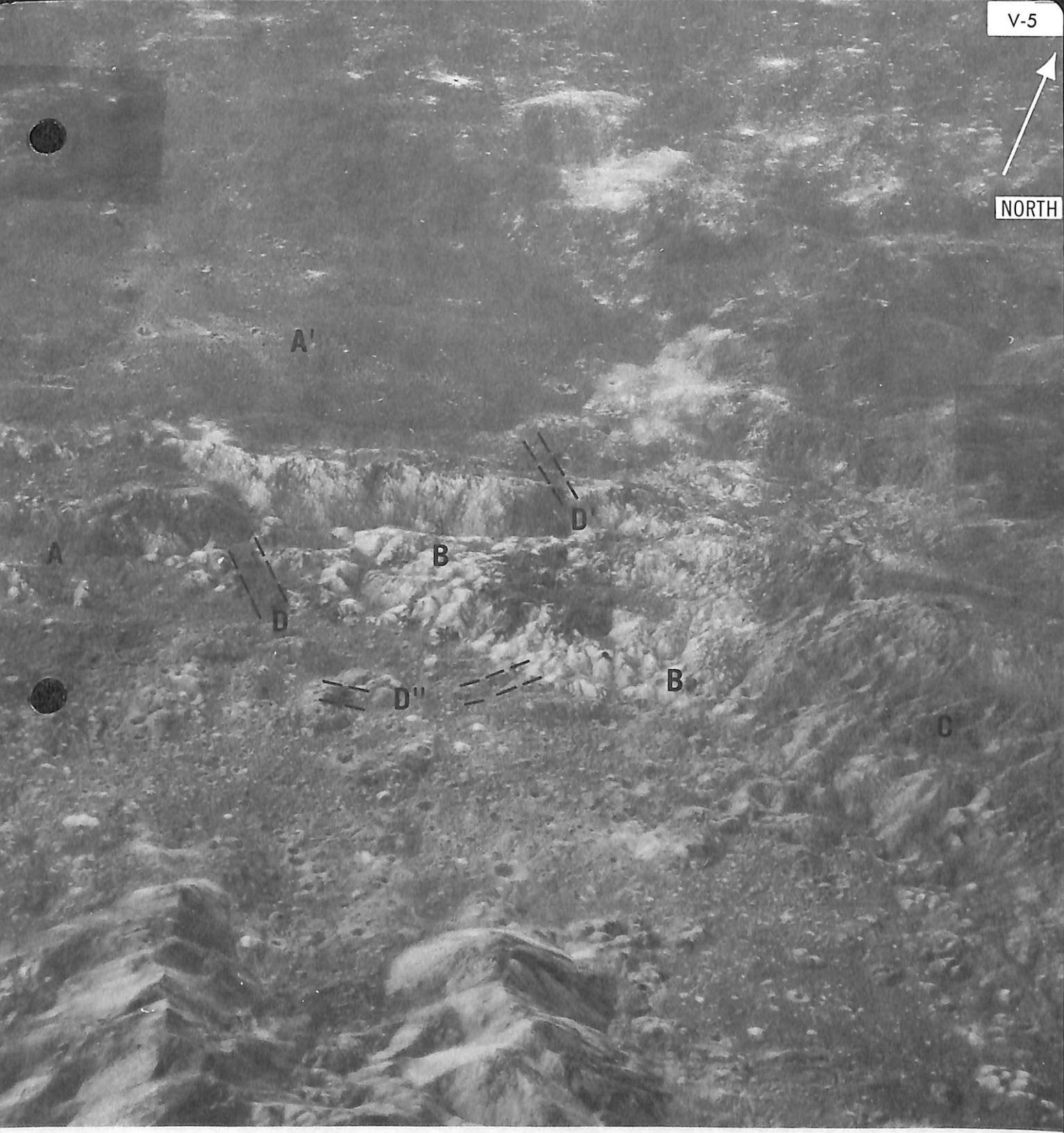


V-4 CRATER KING (120°E, 5°N)

Make and record observations of the following:

A. Extent of dark mantling materials north of the rim crest.
B. Differences and similarities between the high albedo areas 1 and 2.
C. Relationships, if any, between 1 and 2 and the Central Peaks.
D. Relationships, if any, between 1 and 2 and rays from the crater Bruno and those from the bright crater to the south.



V-5 CRATER KING (120°E, 5°N)

Use the photograph to locate the following areas of interest:

A. Mantling material on crater wall (A) and pool material (A').
B. Bright segment of crater wall (B); note structures.
C. Eastern portion of crater wall (C); describe the terraces.
D. Wall-like, dark tabular bodies (D, D' and D'').

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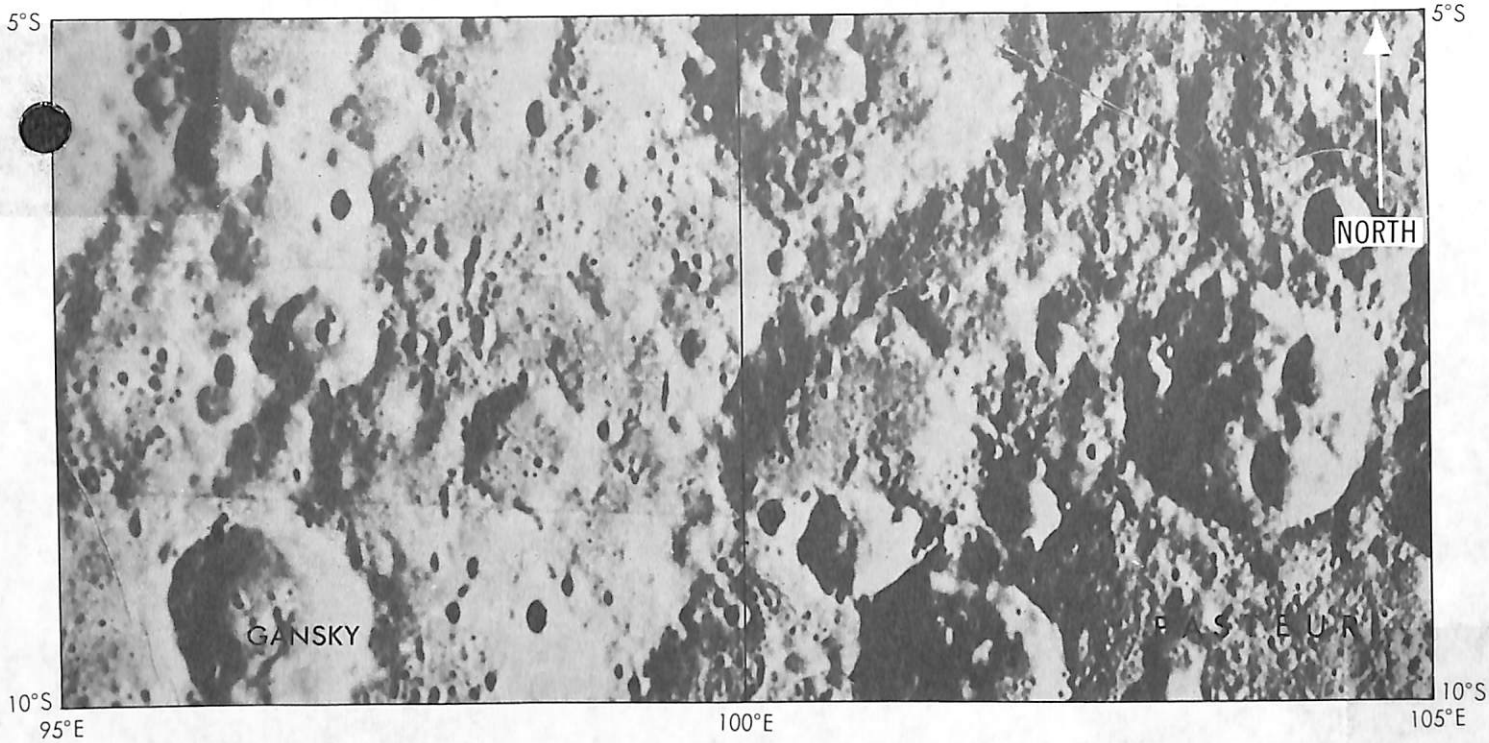
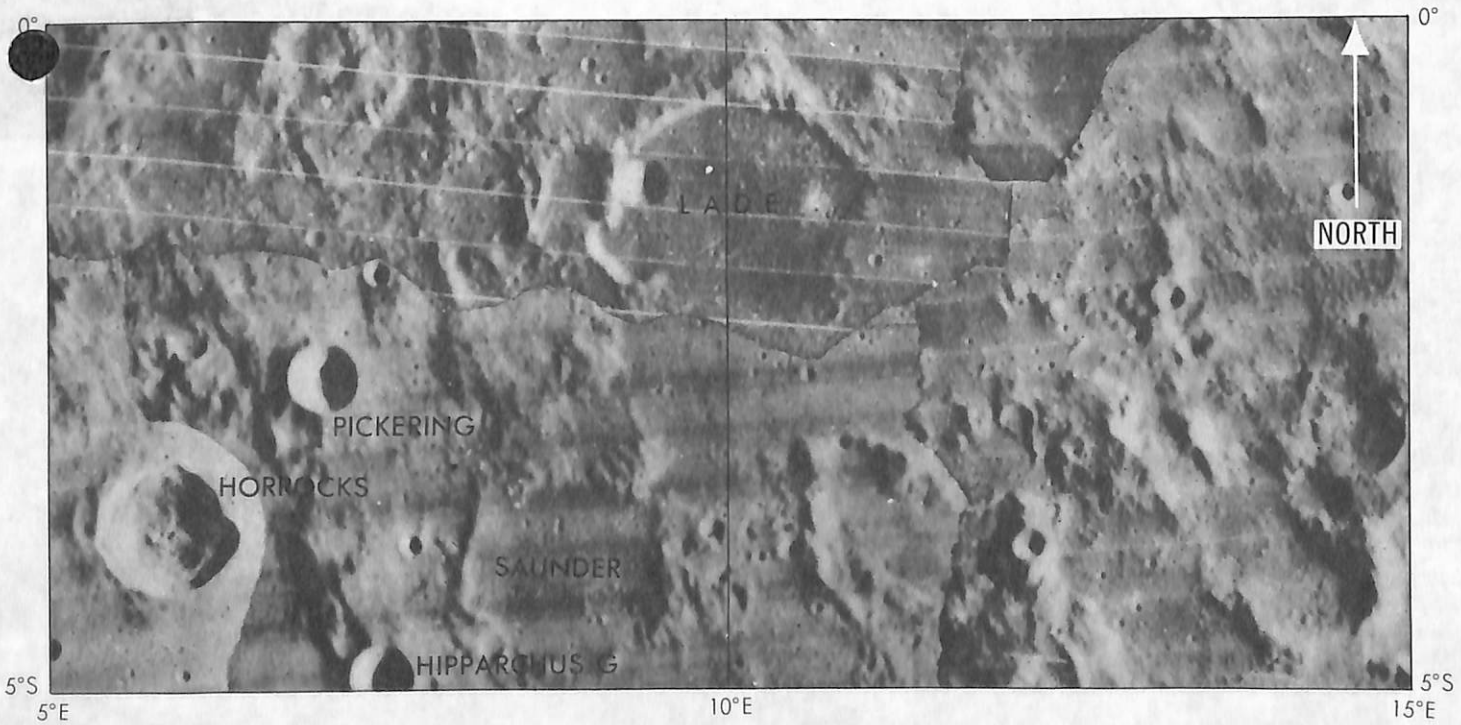


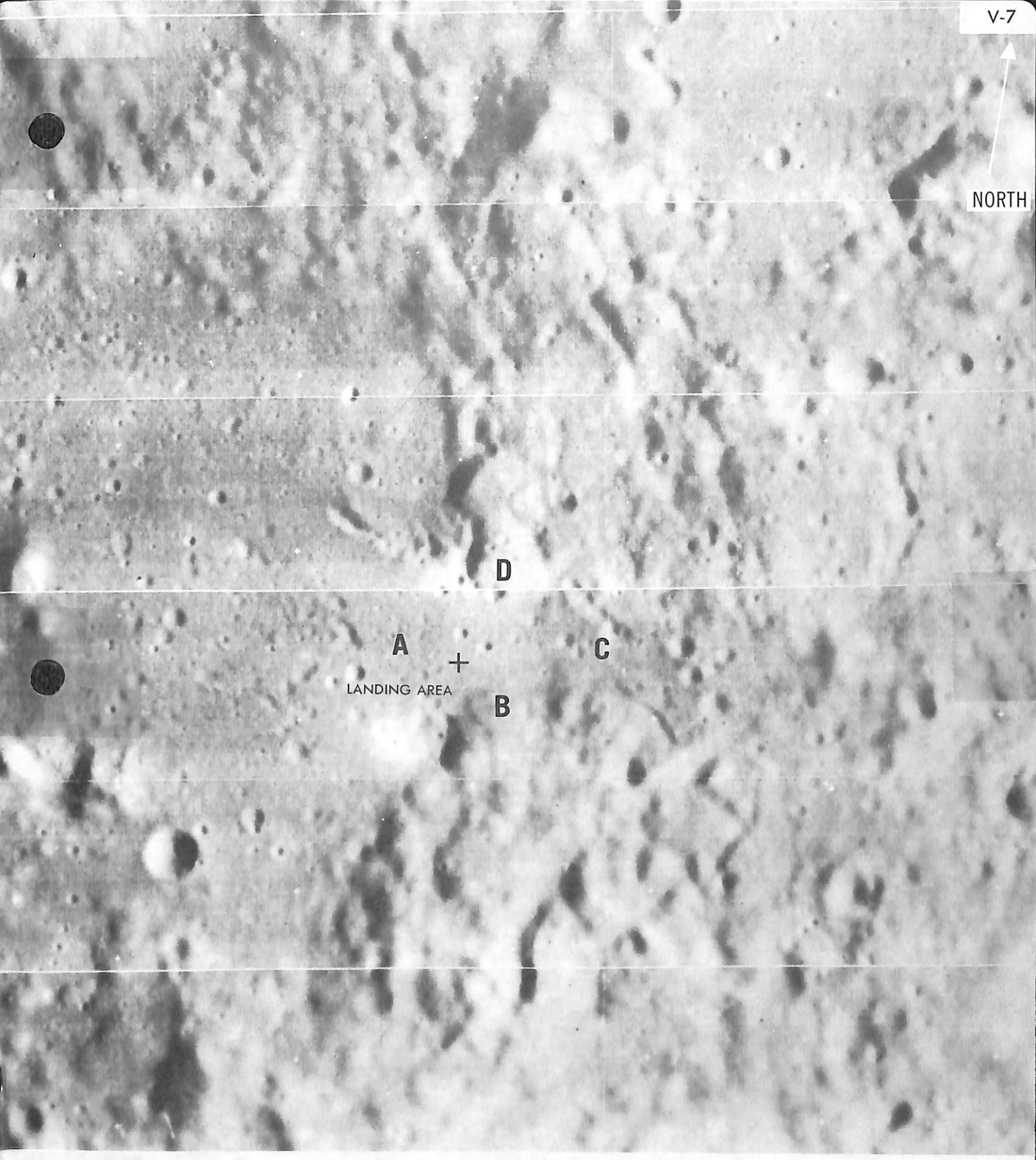
TERRAIN NORTHWEST OF CRATER PASTEUR



TERRAIN NORTHEAST OF CRATER PICKERING

V-6 PASTEUR AND PICKERING

Compare the terrain of both regions and note differences and similarities.



V-7 DESCARTES LANDING SITE (15.5°E, 8.9°S)

Examine the Descartes landing site and record differences and/or similarities in appearance between:

A. Upland plains unit to the west.
B. Furrowed terra materials to the south.
C. Undulating and hilly unit to the east.
D. Sculptured unit to the north.

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V-8 CRATER ALPHONSUS (3° W, 14° S)

Transient event area. Circles are drawn around dark halo craters in the floor, and a square delineates the central mountain; all represent areas of possible activity.

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V-9 DAVY CRATER CHAIN (6.29° W, 11.04° S)

Use the monocular to examine the ejecta surrounding the individual craters. Mark craters with the most extensive rim deposits.

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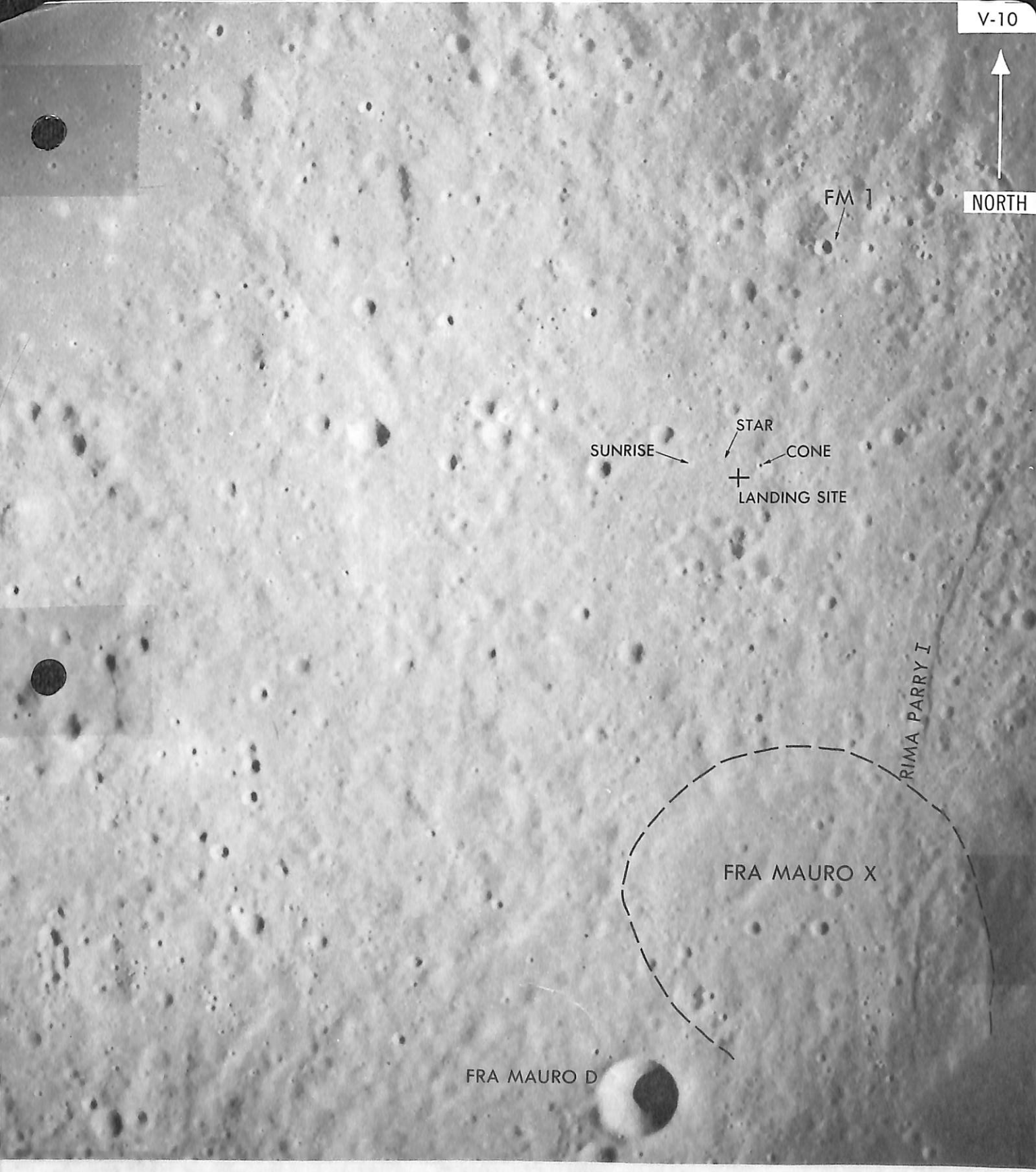

V-10 FRA MAURO LANDING SITE (17.46°W, 3.67°S)

Following location of the landed LM record differences and/or similarities in appearance between the landing area and the rest of the formation.

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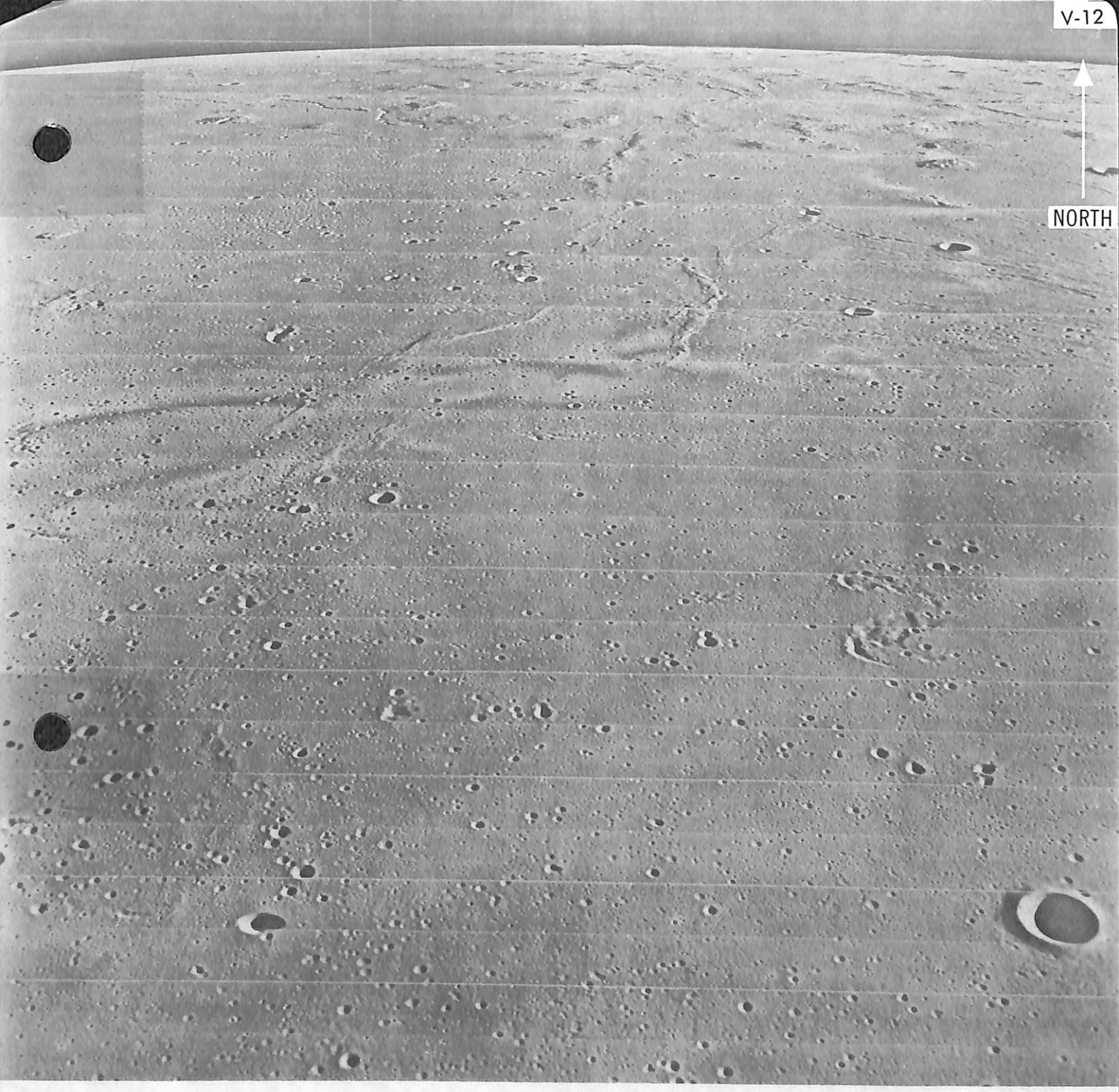
V-11 FRA MAURO CRATER (16.66° W, 6° S)

Make and record observations of the following:

A. The extent of fill of Rima Parry V in the floor of the crater.

B. The volcanic and constructional features (circled areas) associated with the rille.



V-12 REINER γ STRUCTURE (60° W, 7° N)

Examine high albedo surface materials (in earthshine); compare with the swirls of the Goddard area on the eastern limb.