

FAO

APOLLO 12
LUNAR LANDMARK MAPS (CSM)
PART NUMBER
SKB 32100081-322

NOVEMBER 16, 1969

SUMMARY

LAUNCH DATE NOVEMBER 16, 1969

TYPE	NUMBER	LATITUDE	LONGITUDE	DIAMETER (ft)	GRAPHIC NO.
CONTROL POINTS	CP 1	-09.000°	+79.600°	3780	CP 1
	CP 2	-09.917°	+43.433°	6930	CP 2
	CP 3	+03.422°	-60.967°	4200	CP 3
PSEUDO LANDING SITE	H 1	+03.350°	-38.035°	1970	H1
LANDING SITE 5	180	+01.510°	-41.818°	2400	SITE 5 OBLIQUE 1:200,000 1:630,000
	SITE 5	+01.678°	-41.899°		
FRA MAURO	FM 1	-03.228°	-17.331°	4170	FM 1 1:200,000 1:630,000



05°S

00°

05°N

10°N

FLAMSTEED

SUESS F

NORTH

FLAMSTEED B

SCALE
1:2,500,000 (APPROX)

KEPLER D

MAESTLIN

ENCKE E

ENCKE T

NM

120 OCEAN OF STORMS

H 1
LAT = +03.350°
LONG/2 = -19.018°
ALT = -002.21 NM

KEPLER

(2+00)

ENCKE B

ENCKE C

(1+40)

ENCKE

KEPLER A

90

(1+20)

35°W

(1+00)

60

(0+40)

30

(0+20)

MILICHIUS A

LANSBERG A

IP (2+19)

HORTENSIUS A

LANSBERG D

MILICHIUS

LANSBERG C

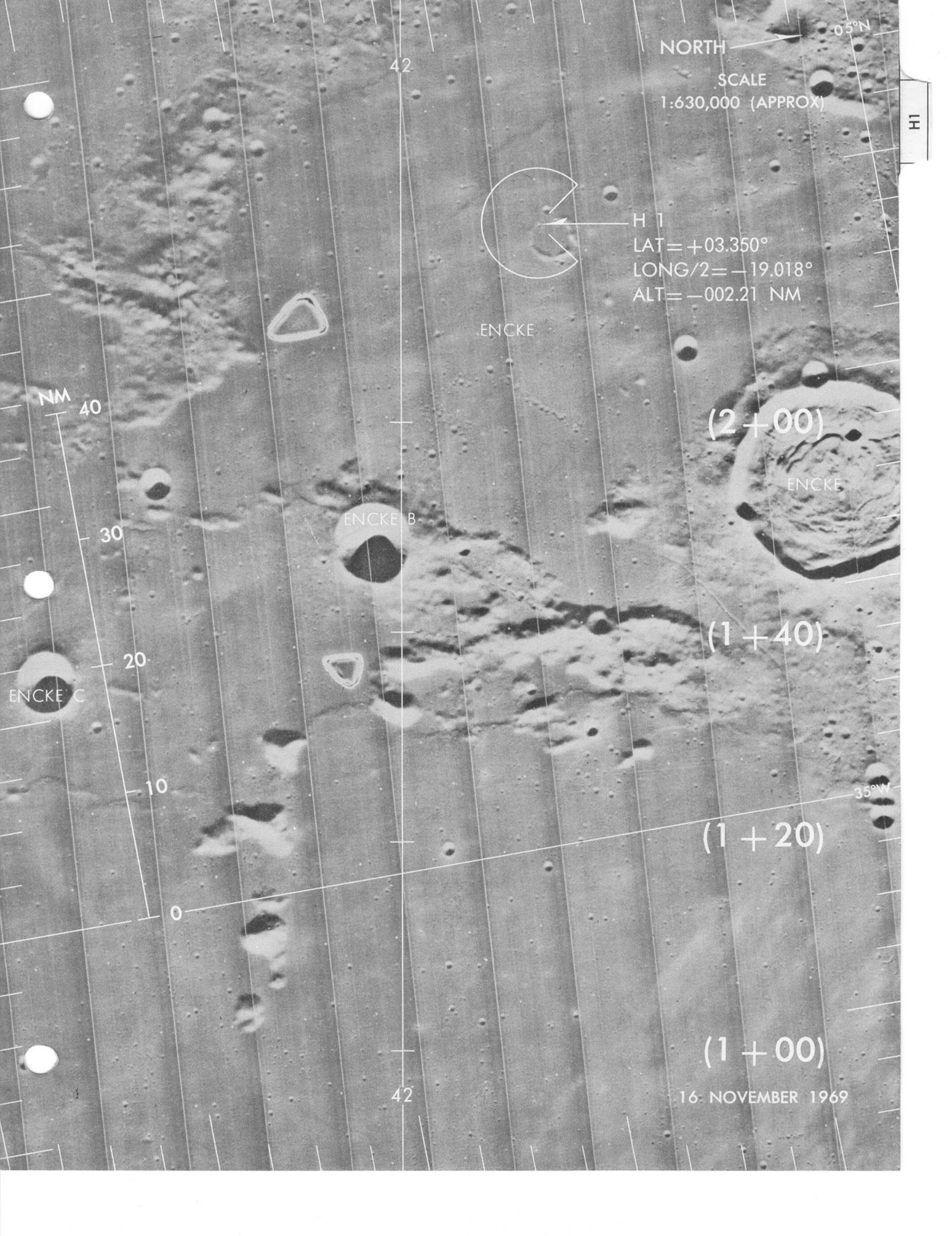
LANSBERG B

HORTENSIUS

15

LANSBERG

16 NOVEMBER 1969



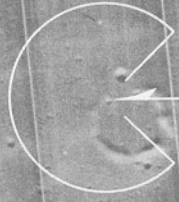
05°N

NORTH

SCALE
1:630,000 (APPROX)

H 1

42



H 1
LAT = +03.350°
LONG/2 = -19.018°
ALT = -002.21 NM

ENCKE

NM 40

(2 + 00)

ENCKE

ENCKE B

(1 + 40)

ENCKE C

30

20

(1 + 20)

35°W

10

0

(1 + 00)

42

16 NOVEMBER 1969

LANDING SITE LANDMARK MAPS

MISSION APOLLO 12
SITE 5
LUNAR LANDING SITE 5

LATITUDE (0.001°)	LONG/2 (0.001°)	LONGITUDE (0.001°)	ALTITUDE (0.01nm)	HORIZONTAL UNCERT. (nm)	ALTITUDE UNCERT (nm)
+01.678°	-20.950°	-41.899°	-001.25		

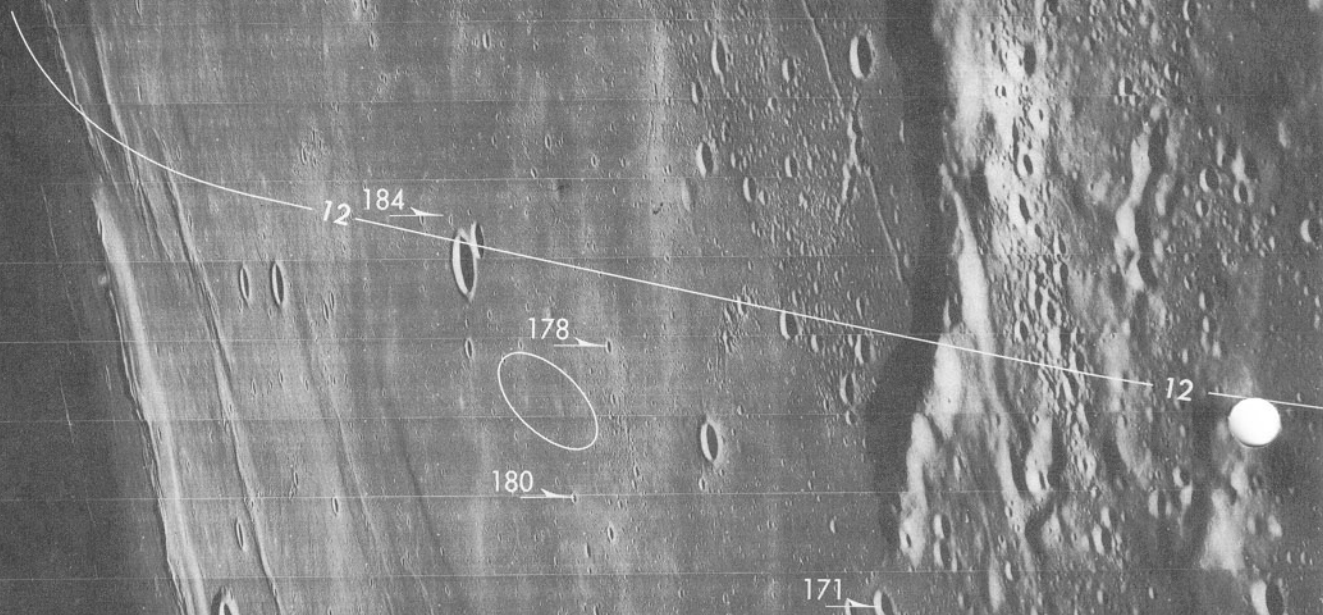
LUNAR LANDING SITE 5 LANDMARKS

LANDMARK NUMBER	LATITUDE (0.001°)	LONG/2 (0.001°)	LONGITUDE (0.001°)	ALTITUDE (0.01nm)	DIAMETER (ft)
* 180	+01.510°	-20.909°	-41.818°	-001.25	2400
171	+01.334°	-20.396°	-40.793°	-001.29	4700
178	+01.759°	-20.785°	-41.570°	-001.22	2300
184	+02.053°	-21.114°	-42.228	-001.23	1500

* PREFERRED SIGHTING

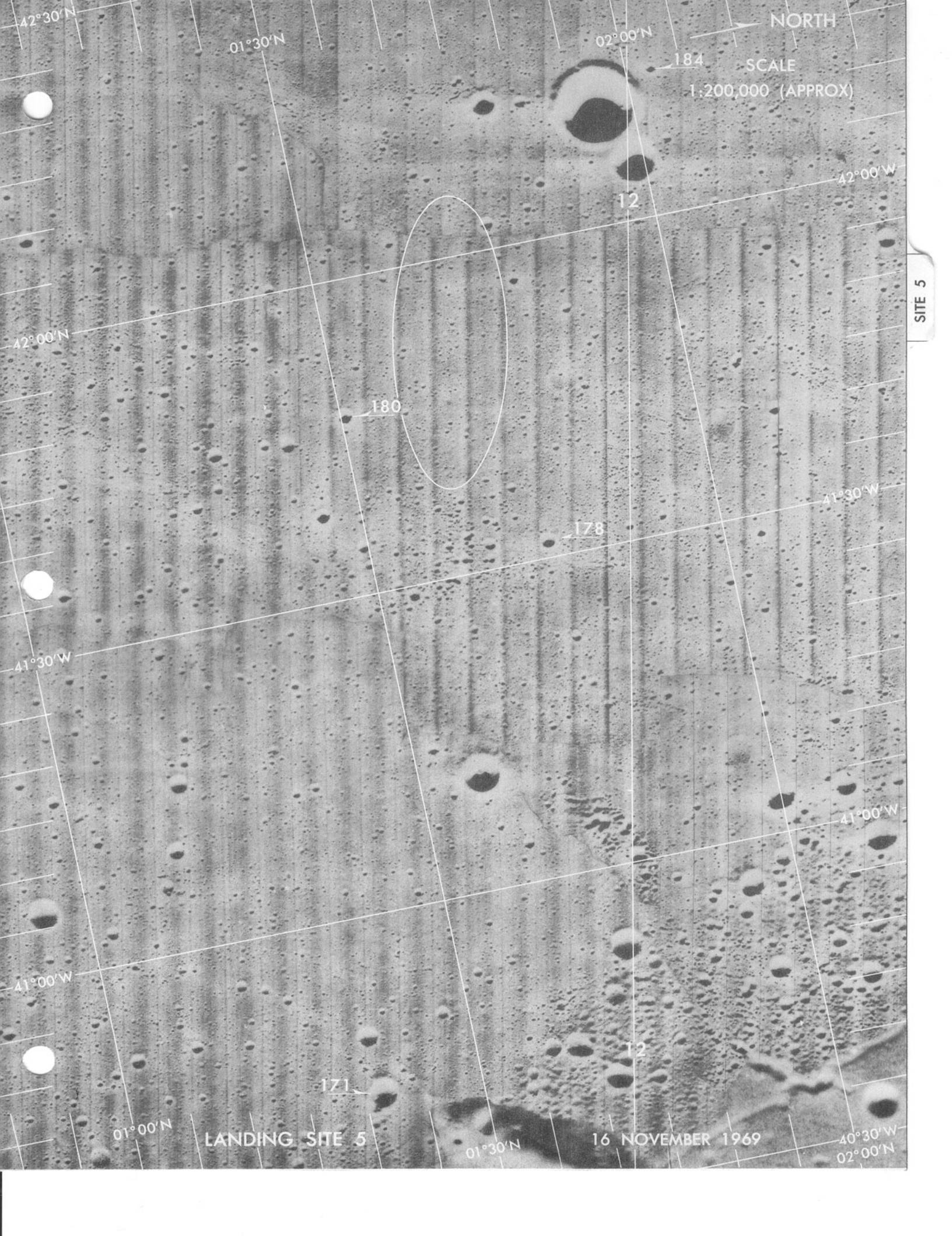
SCALE
1:400,000 (APPROX)

SITE 5



LANDING SITE 5

16 NOVEMBER 1969



42°30'N

01°30'N

02°00'N

NORTH

184

SCALE

1:200,000 (APPROX)

42°00'W

12

SITE 5

42°00'N

180

41°30'W

178

41°30'W

41°00'W

41°00'W

171

12

01°00'N

LANDING SITE 5

16 NOVEMBER 1969

01°30'N

40°30'W
02°00'N

16 NOVEMBER 1969

42°15' W

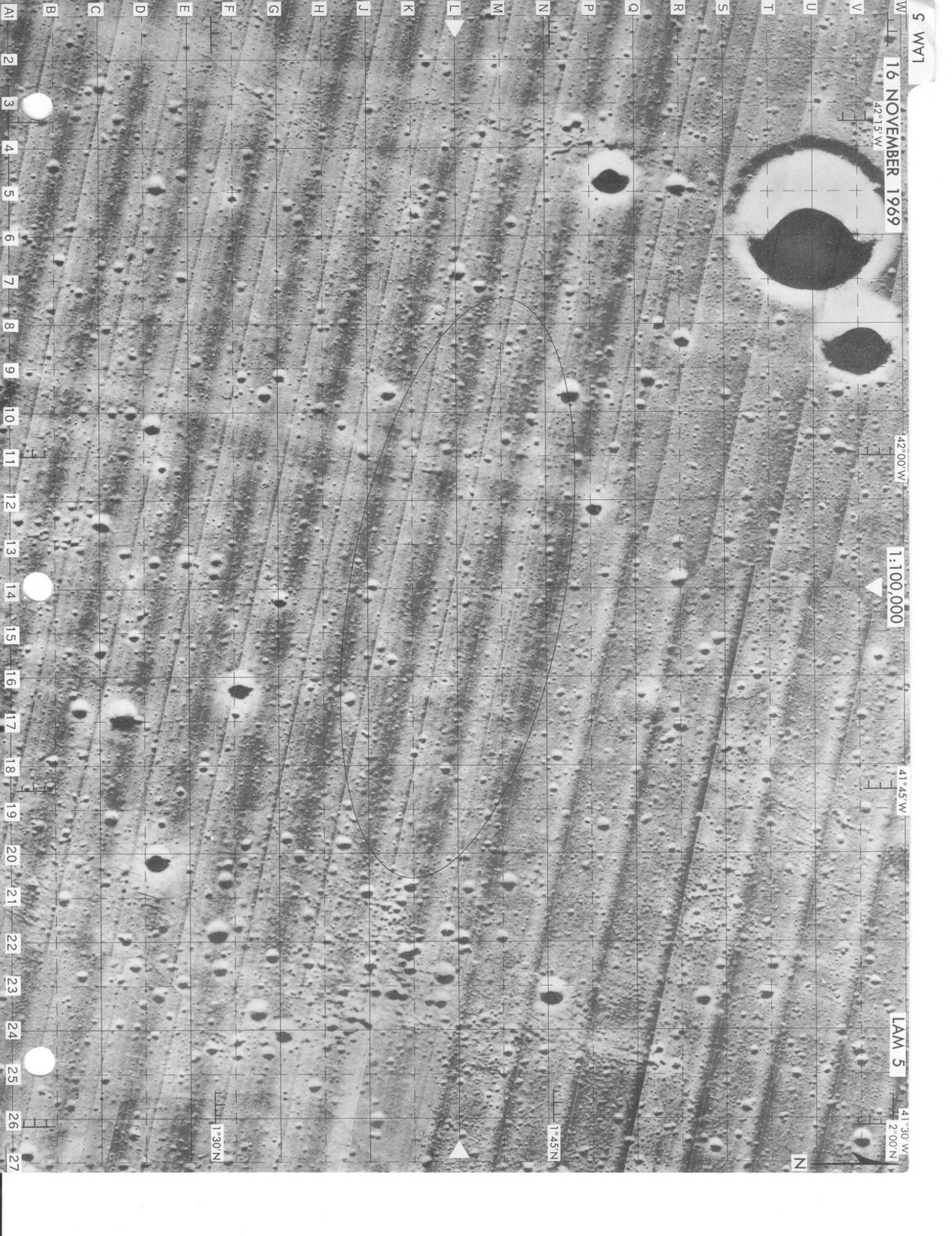
42°00' W

1:100,000

41°45' W

LAM 5

41°30' W



41°30' W

2°00' N

1°45' N

1°30' N

N

27

26

25

24

23

22

21

20

19

18

17

16

15

14

13

12

11

10

9

8

7

6

5

4

3

2

1

V

U

T

S

R

Q

P

N

M

L

K

J

H

G

F

E

D

C

B

A

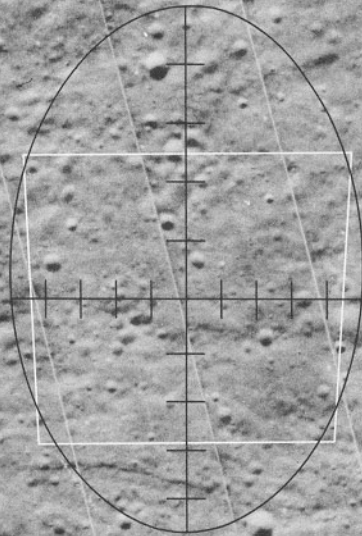
ELEVATION ANGLE 23°



16 NOVEMBER 1969

COAS FM 23

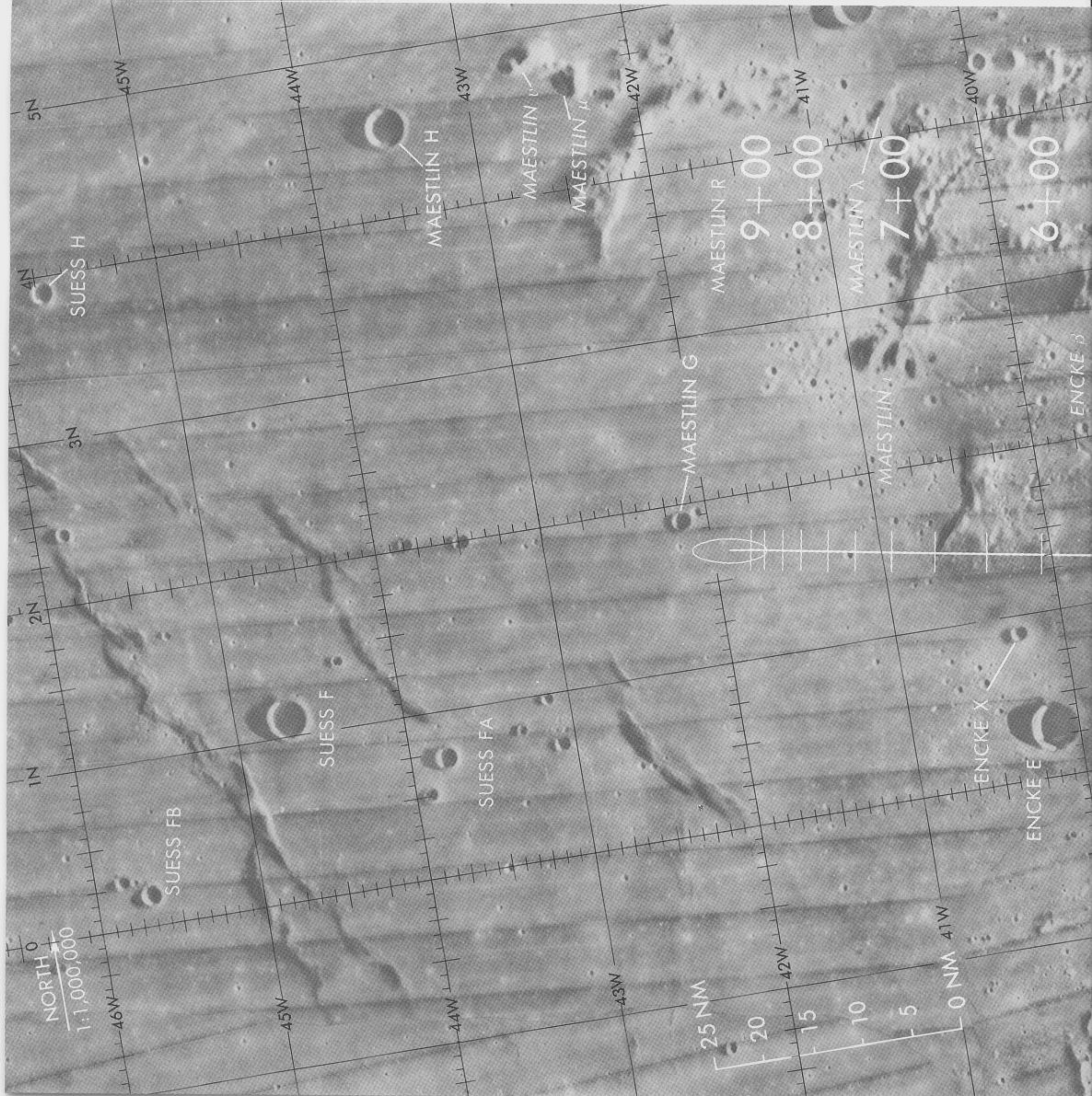
ELEVATION ANGLE 41°



COAS FM 41



16 NOVEMBER 1969



NORTH
1:1,000,000

25 NM
20
15
10
5
0 NM

5N

45W

45W

43W

43W

42W

42W

41W

41W

40W

4N

SUESS H

MAESTLIN H

MAESTLIN ν

MAESTLIN μ

9+00

8+00

7+00

6+00

3N

MAESTLIN G

MAESTLIN λ

ENCKE β

2N

SUESS F

SUESS FA

ENCKE X

ENCKE E

1N

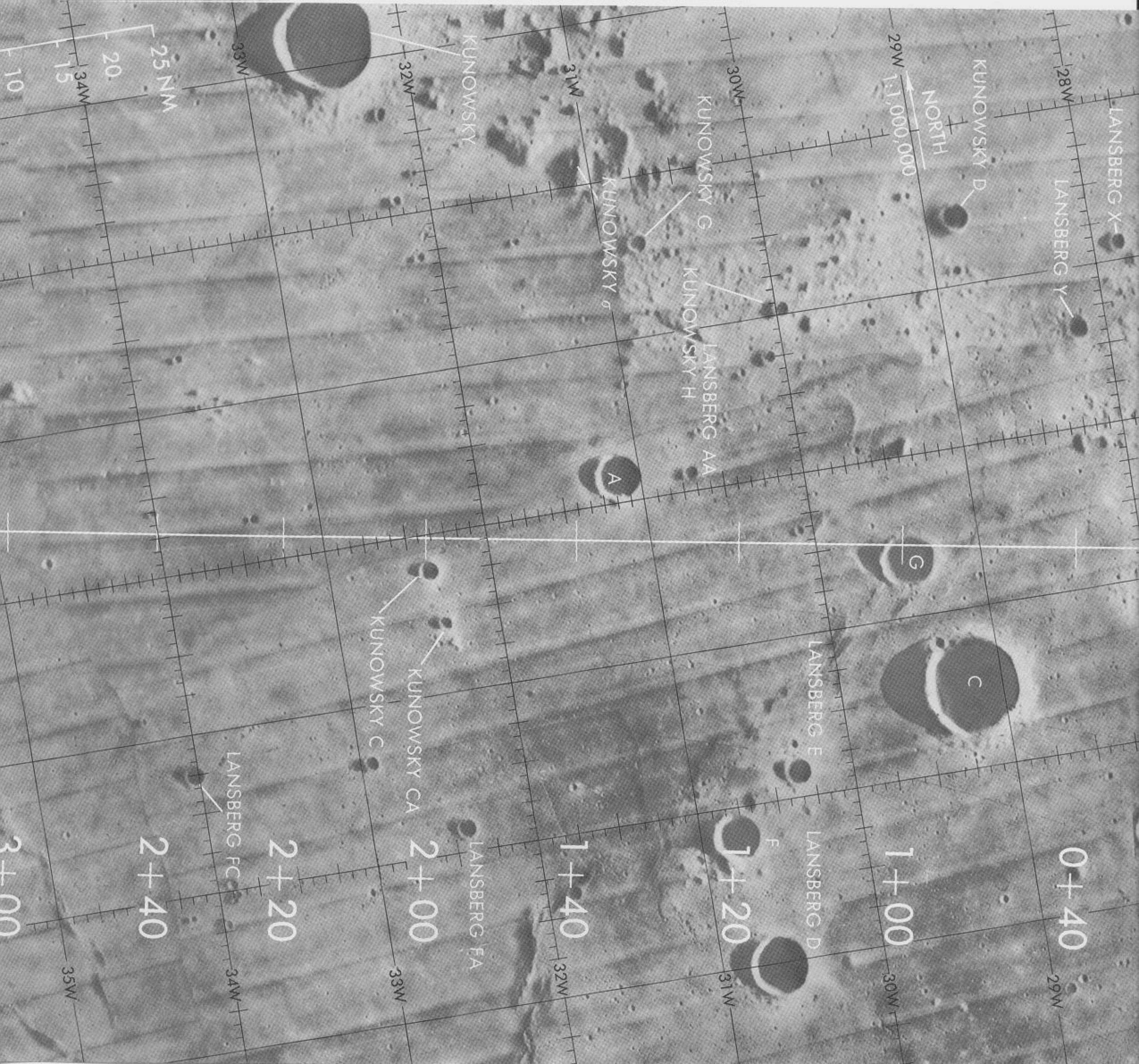
SUESS FB

46W

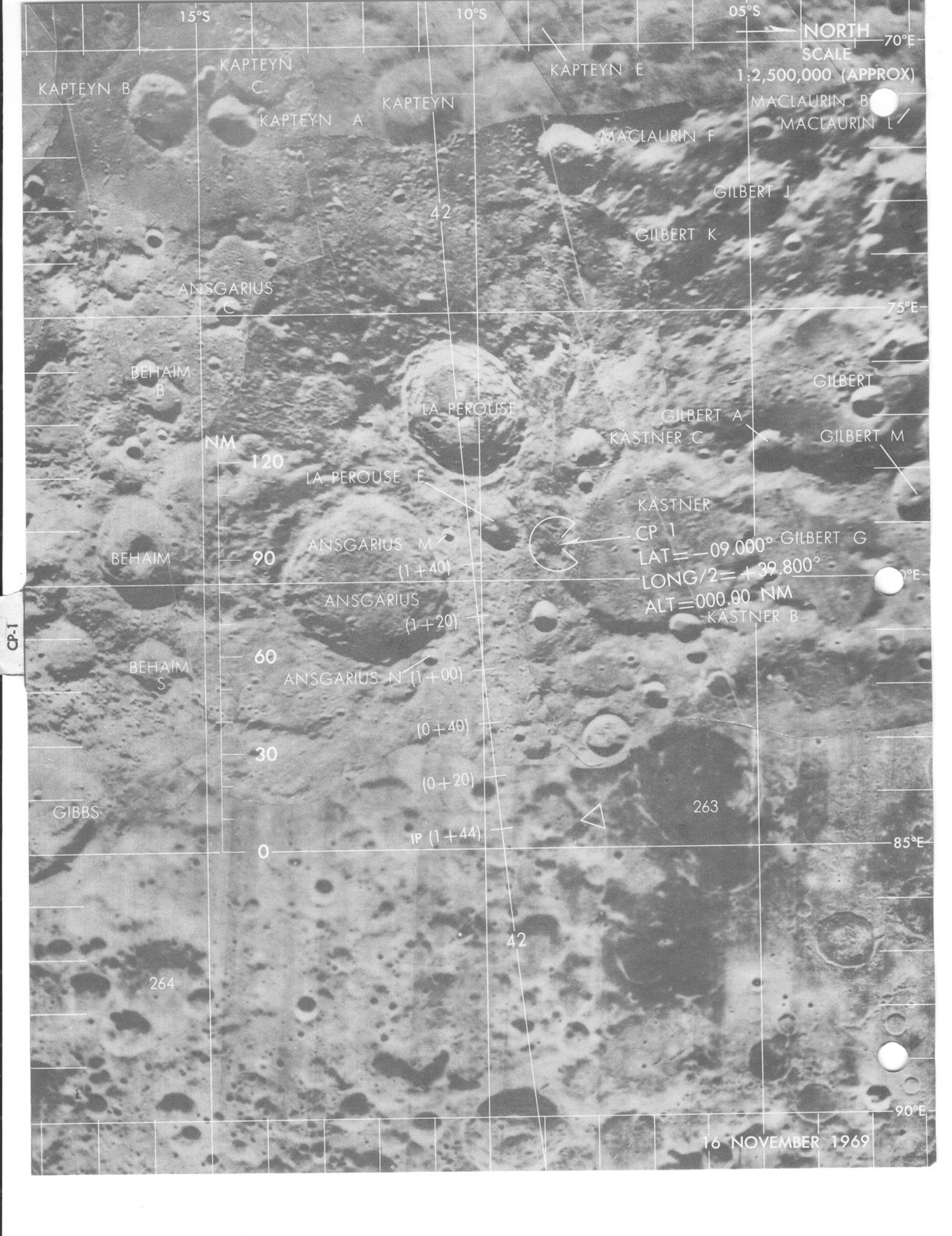
44W

42W









15°S

10°S

05°S

NORTH 70°E

SCALE 1:2,500,000 (APPROX)

KAPTEYN B

KAPTEYN C

KAPTEYN E

KAPTEYN A

KAPTEYN

MACLAURIN F

MACLAURIN B
MACLAURIN L

GILBERT J

GILBERT K

ANSGARIUS C

75°E

BEHAIM B

LA PEROUSE

GILBERT

GILBERT A
KASTNER C

GILBERT M

NM

120

LA PEROUSE E

KASTNER

CP 1
LAT = -09.000°

LONG/2 = +39.800°

ALT = 000.00 NM
KASTNER B

BEHAIM

ANSGARIUS M
(1+40)

ANSGARIUS
(1+20)

60

ANSGARIUS N (1+00)

(0+40)

(0+20)

30

GIBBS

263

IP (1+44)

85°E

0

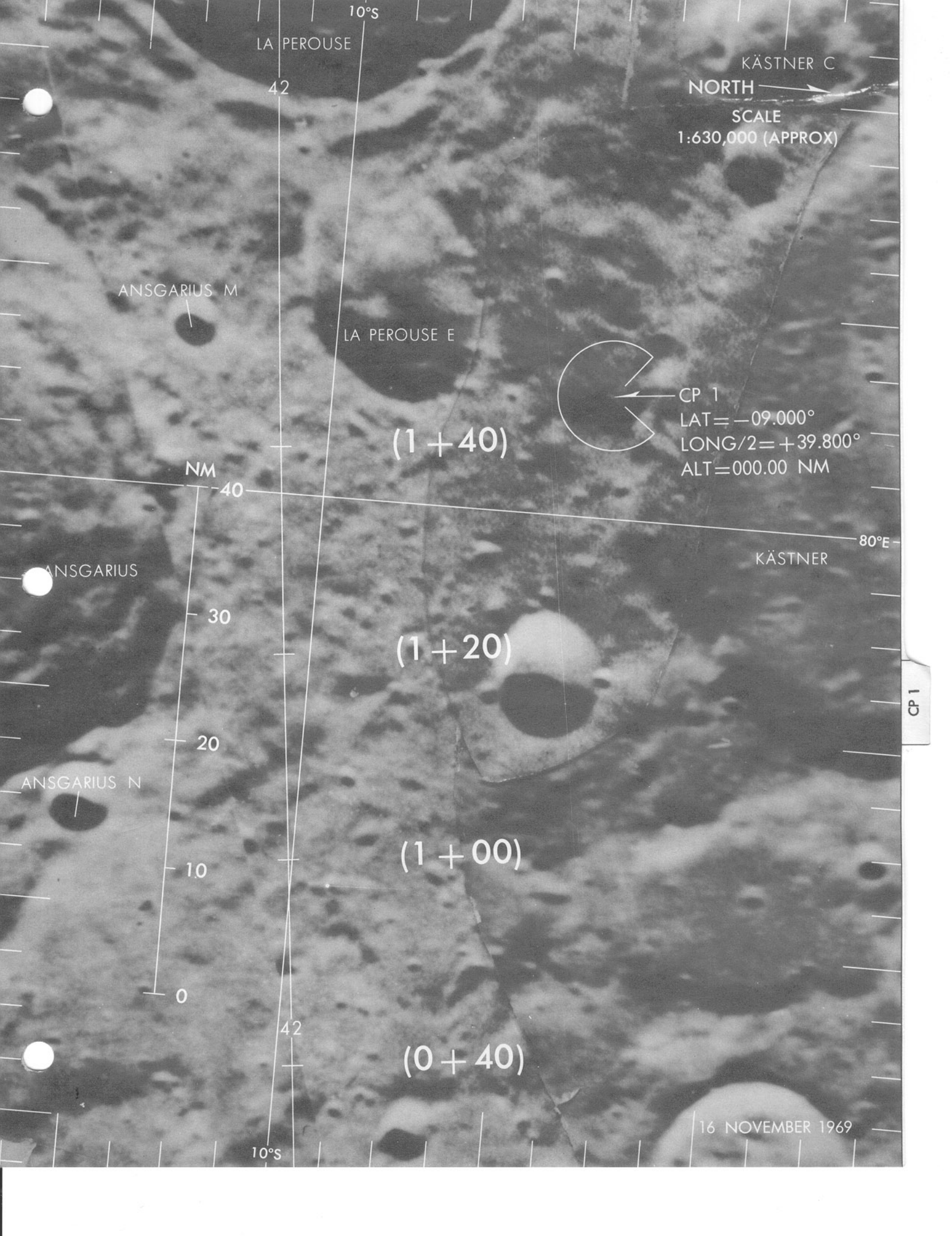
42

264

90°E

16 NOVEMBER 1969

CP-1



LA PEROUSE

10°S

KÄSTNER C

NORTH

SCALE
1:630,000 (APPROX)

ANSGARIUS M

LA PEROUSE E

(1 + 40)

CP 1

LAT = -09.000°

LONG/2 = +39.800°

ALT = 000.00 NM

NM

40

80°E

KÄSTNER

ANSGARIUS

30

(1 + 20)

CP 1

20

ANSGARIUS N

10

(1 + 00)

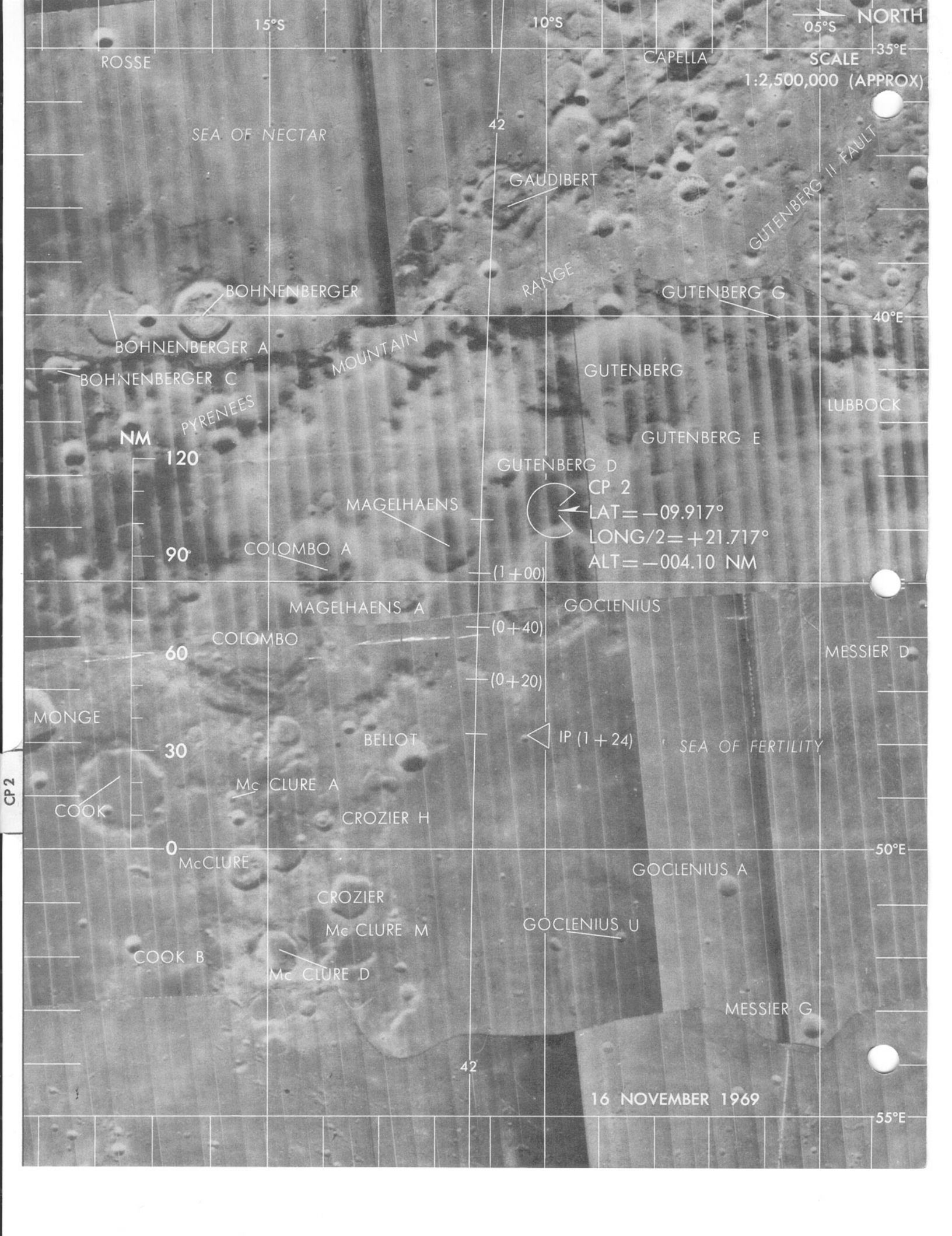
0

42

(0 + 40)

16 NOVEMBER 1969

10°S



15°S

10°S

05°S

NORTH

ROSSE

CAPELLA

SCALE

1:2,500,000 (APPROX)

SEA OF NECTAR

42

GAUDIBERT

GUTENBERG II FAULT

35°E

BOHNENBERGER

RANGE

GUTENBERG G

40°E

BOHNENBERGER A

MOUNTAIN

GUTENBERG

BOHNENBERGER C

PYRENEES

LUBBOCK

NM

GUTENBERG E

120

GUTENBERG D

CP 2

LAT = -09.917°

LONG/2 = +21.717°

ALT = -004.10 NM

90

COLOMBO A

MAGELHAENS

(1+00)

MAGELHAENS A

GOELENIUS

60

COLOMBO

(0+40)

MESSIER D

(0+20)

MONGE

BELLOT

IP (1+24)

SEA OF FERTILITY

30

Mc CLURE A

COOK

CROZIER H

50°E

0

McCLURE

CROZIER

GOELENIUS A

Mc CLURE M

GOELENIUS U

COOK B

Mc CLURE D

MESSIER G

42

16 NOVEMBER 1969

55°E

CP 2



10°S

NORTH
SCALE

1:630,000 (APPROX)

42

CP 2
LAT = -09.917°
LONG/2 = +21.717°
ALT = -004.10 NM
(1 + 20)

MAGELHAENS

NM

40

(1 + 00)

45°E

MAGELHAENS
A

GOCLENIUS

30

(0 + 40)

20

(0 + 20)

10

0

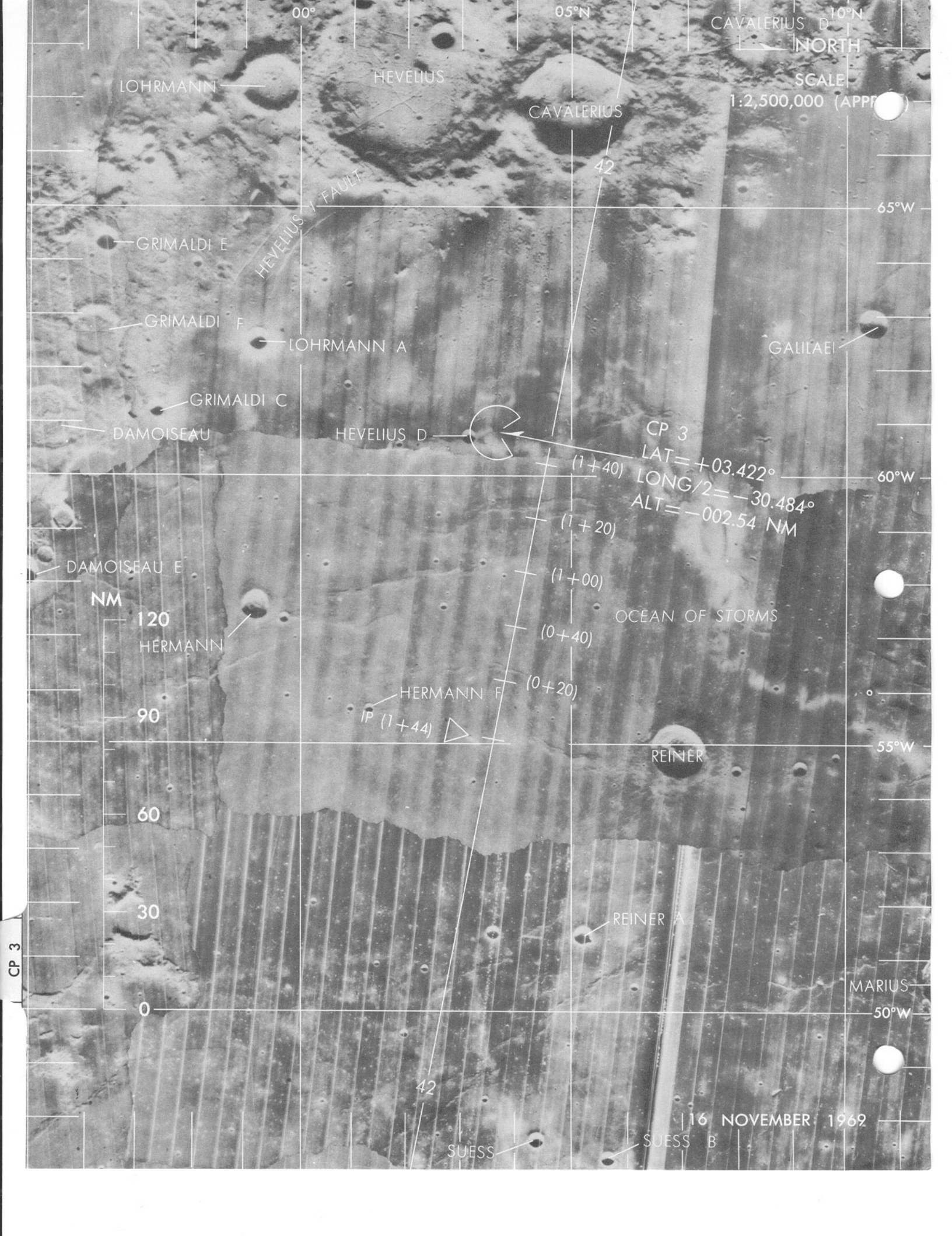
CP-2

IP (1 + 24)

42

BELLLOT

16 NOVEMBER 1969



CAVALERIUS D 10°N
NORTH

SCALE
1:2,500,000 (APP)

LOHRMANN

HEVELIUS

CAVALERIUS

42

65°W

GRIMALDI E

HEVELIUS I FAULT

GRIMALDI F

LOHRMANN A

GALILAEI

GRIMALDI C

DAMOISEAU

HEVELIUS D

CP 3

LAT = +03.422°
LONG/2 = -30.484°
ALT = -002.54 NM

60°W

DAMOISEAU E

NM

120

HERMANN

(1+40)

(1+20)

(1+00)

OCEAN OF STORMS

(0+40)

90

HERMANN F

(0+20)

IP (1+44)

55°W

REINER

60

REINER A

CP 3

30

MARIUS

50°W

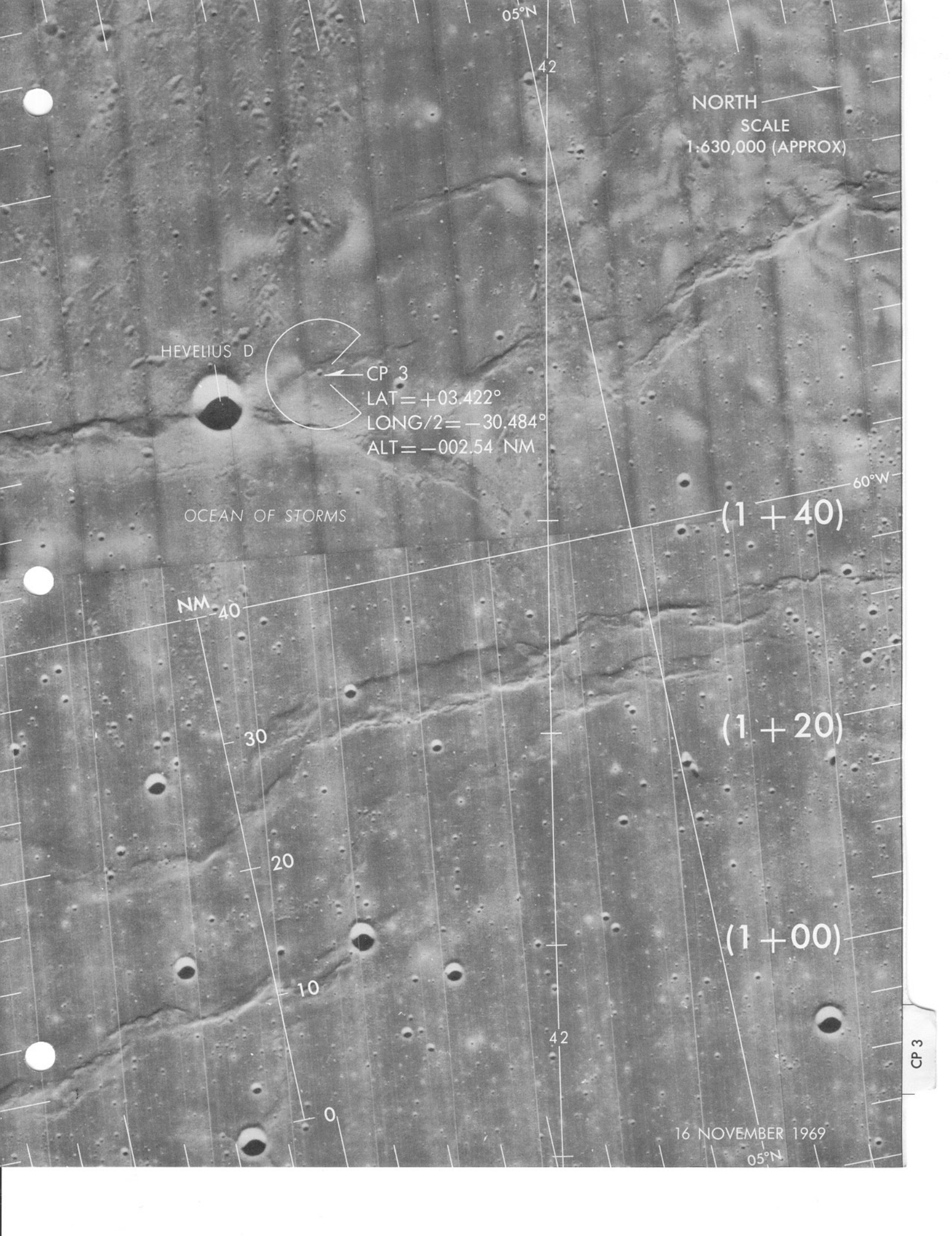
0

42

SUESS

SUESS B

16 NOVEMBER 1969



05°N

42

NORTH
SCALE
1:630,000 (APPROX)

HEVELIUS D

CP 3
LAT = +03.422°
LONG/2 = -30.484°
ALT = -002.54 NM

OCEAN OF STORMS

60°W

(1 + 40)

NM -40

(1 + 20)

30

20

(1 + 00)

10

42

0

16 NOVEMBER 1969

05°N

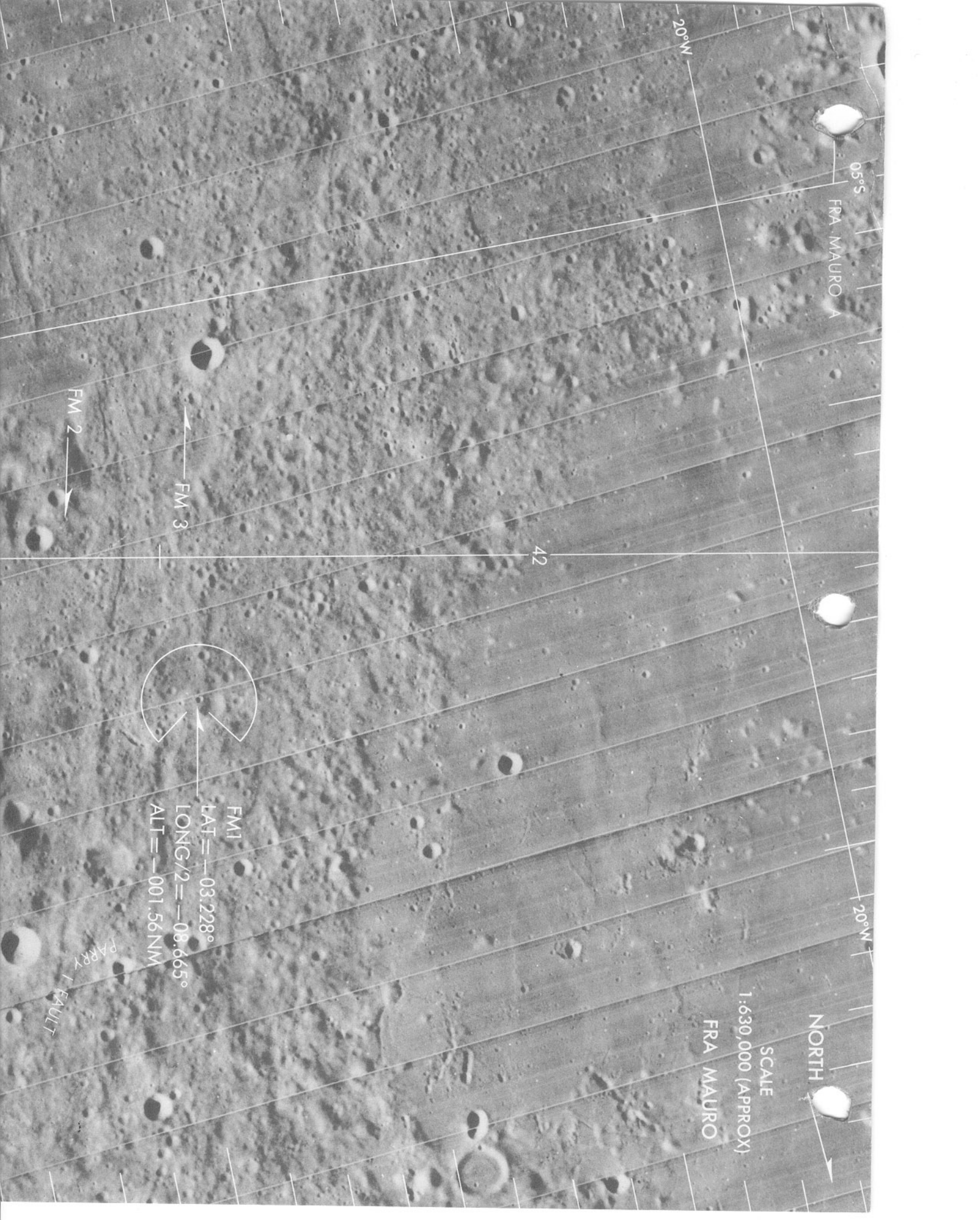
CP 3

LANDING SITE LANDMARK MAPS

MISSION APOLLO 12
FRA MAURO LANDMARKS

LANDMARK NUMBER	LATITUDE (0.001°)	LONG/2 (0.001°)	LONGITUDE (0.001°)	ALTITUDE (0.01nm)	LANDMARK DIAMETER (ft)
* FM 1	-03.228°	-08.665°	-17.331°	-001.56	4170
FM 2	-04.117°	-08.454°	-16.908°	-001.81	1830
FM 3	-04.567°	-08.759°	-17.517°	-001.78	2130

*PREFERRED SIGHTING



05°S

FRA MAURO A

20°N

42

20°N

NORTH

SCALE
1:630,000 (APPROX)

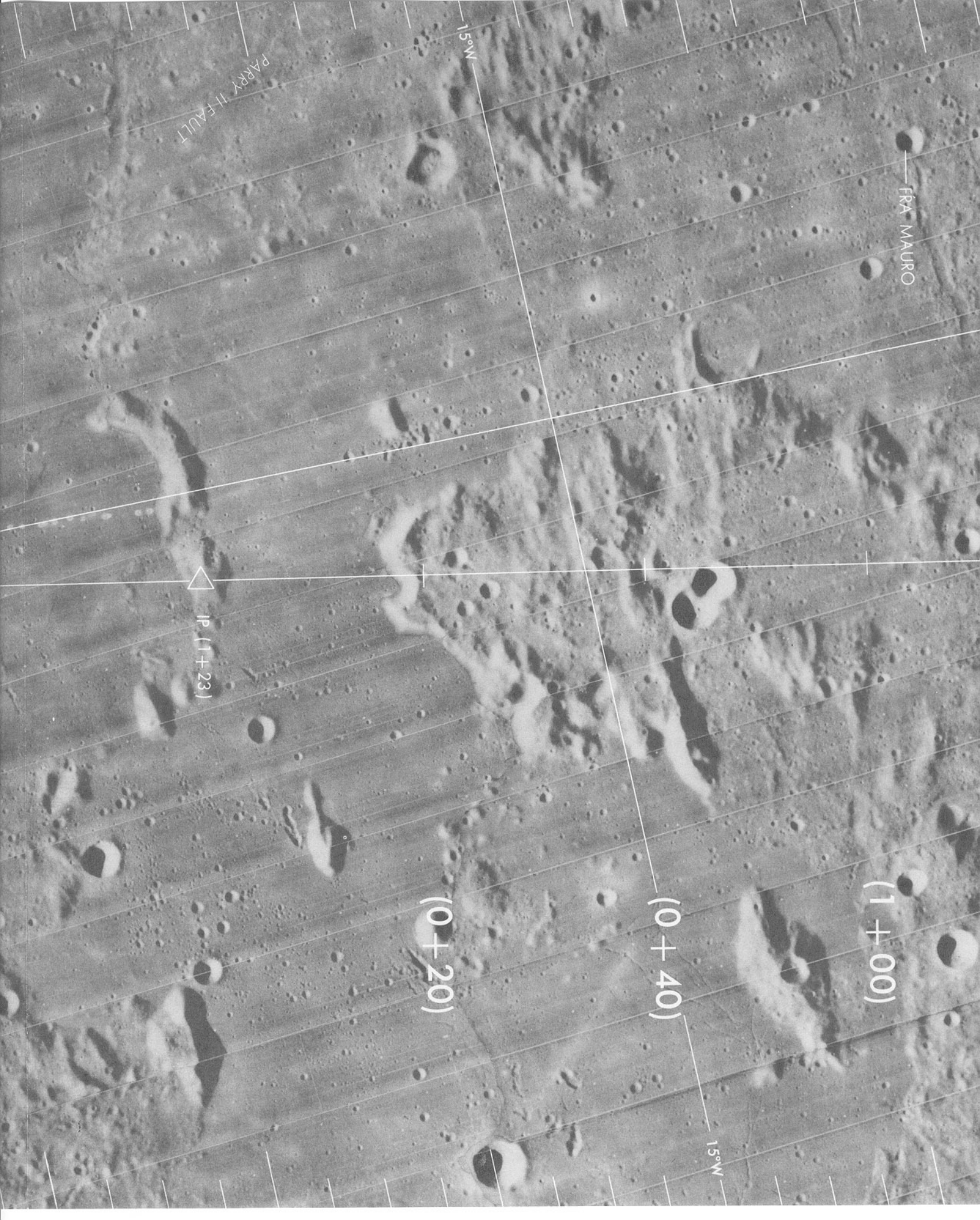
FRA MAURO

FM1
LAT = -03.228°
LONG/2 = -08.665°
ALT = -001.56 NM

FM 3

FM 2

PARRY 1 FAULT



PARRY II FAULT

FRA MAURO

△ IP (1+23)

(0+20)

(0+40)

(1+00)

15°N

15°W



NM 40

30

20

10

0

LALANDE A

LALANDE

10°N

10°W



10°W

0

LALANDE A

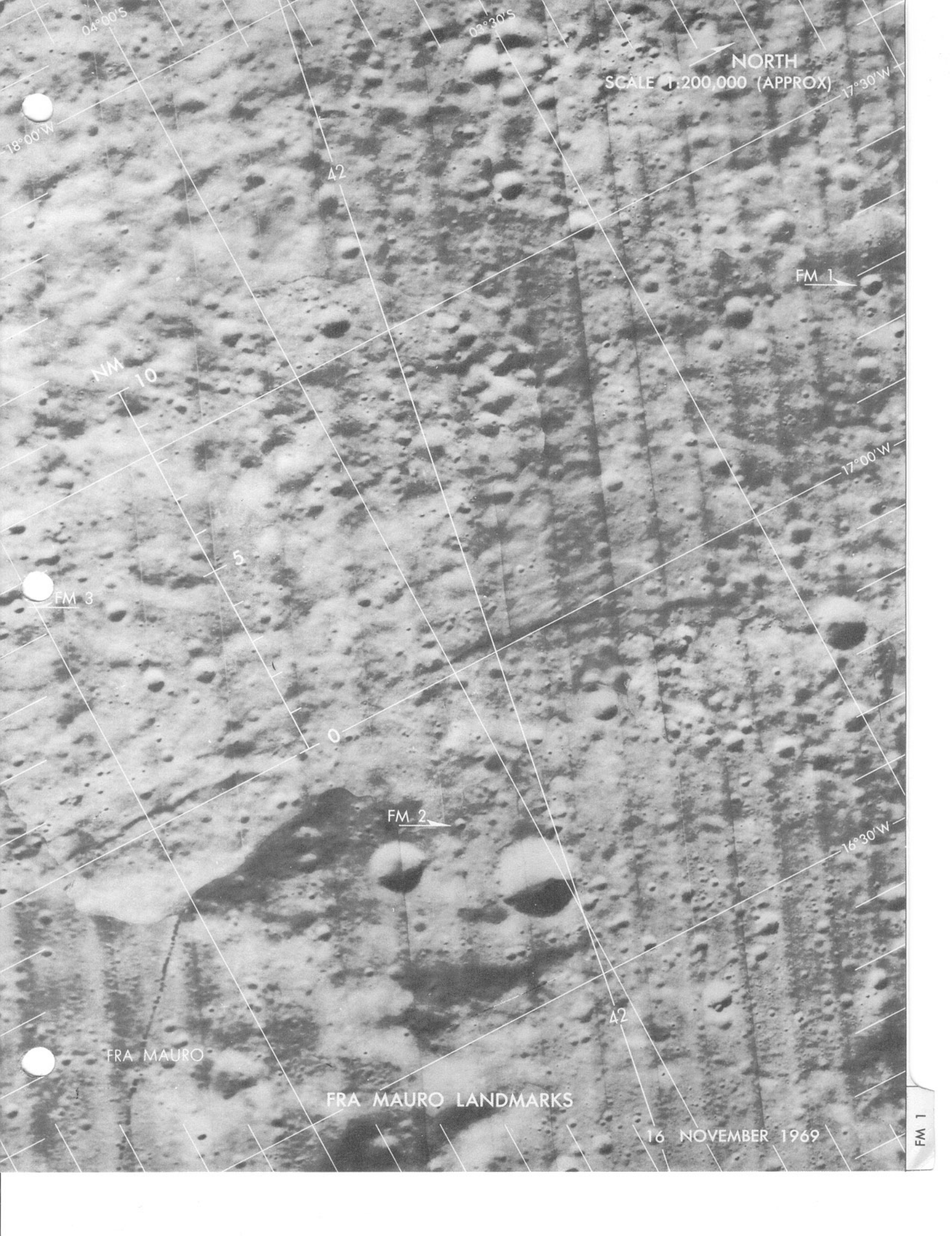
42

LALANDE C

05°S

LALANDE

16 NOVEMBER 1969



04°00'S

03°30'S

NORTH
SCALE 1:200,000 (APPROX)

17°30'W

18°00'W

42

FM 1

NM 10

17°00'W

5

FM 3

0

FM 2

16°30'W

FRA MAURO

FRA MAURO LANDMARKS

42

16 NOVEMBER 1969

FM 1