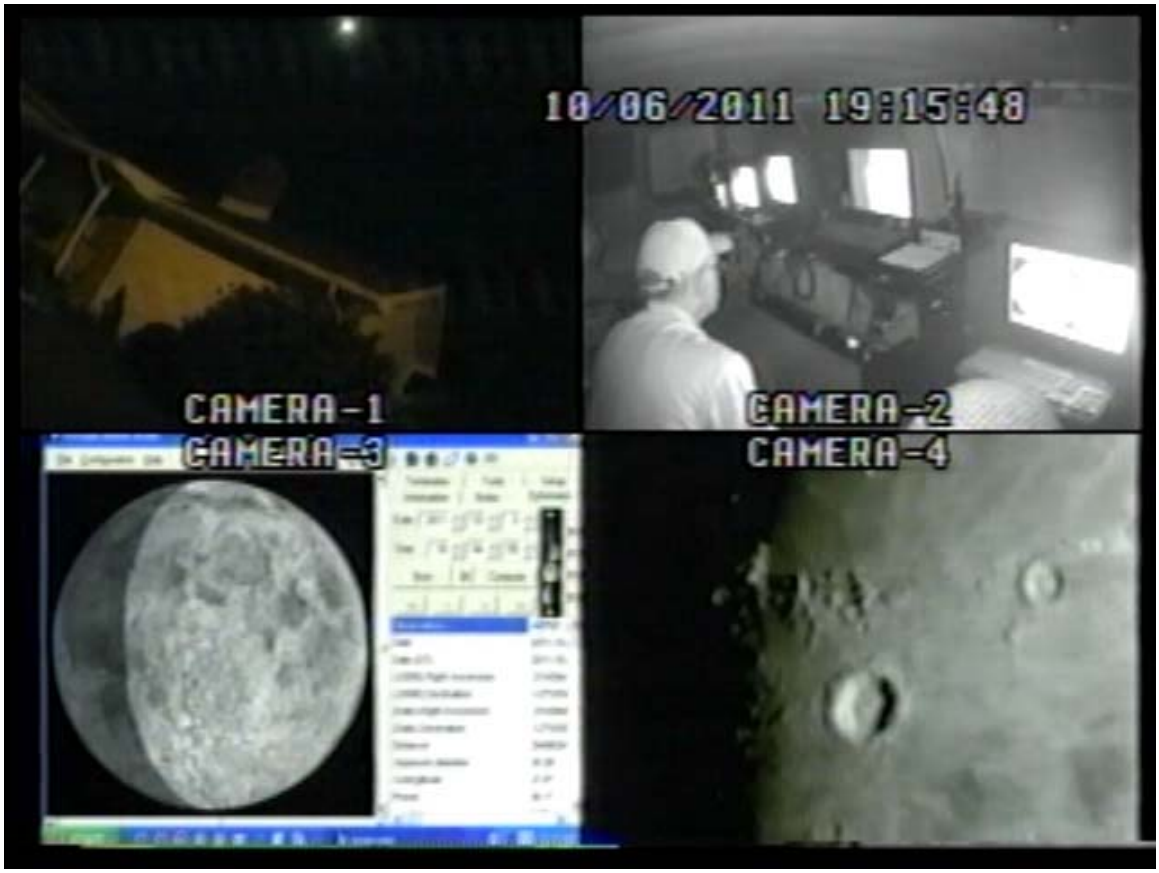
THE LUNASCAN PROJECT - MOONWATCH - TEAM REPORT
OCTOBER 6, 2011

TARGETS: SECTIONS 31 COPERNICUS

MISSION PLAN:
Routine scans of terminator, targeting mighty Copernicus
http://www.astrosurf.com/lunascan/031dir.htm

Camera 1 mini finder switchable to CCD camera
Camera 2 Internal
Camera 3 CMOS/LPI / Skyglobe graphics
Camera 4 CMOS/SSI / VMA graphics



CAMERAS:

CAMERA ONE POSITION ON QUAD
* Finder: mini cam

CAMERA TWO POSITION
***** Internal camera

CAMERA THREE POSITION

SKYGLOBE graphics
Digital to Analog Converter 2; TEP-100 Elite Pro II, aperture video VHS2

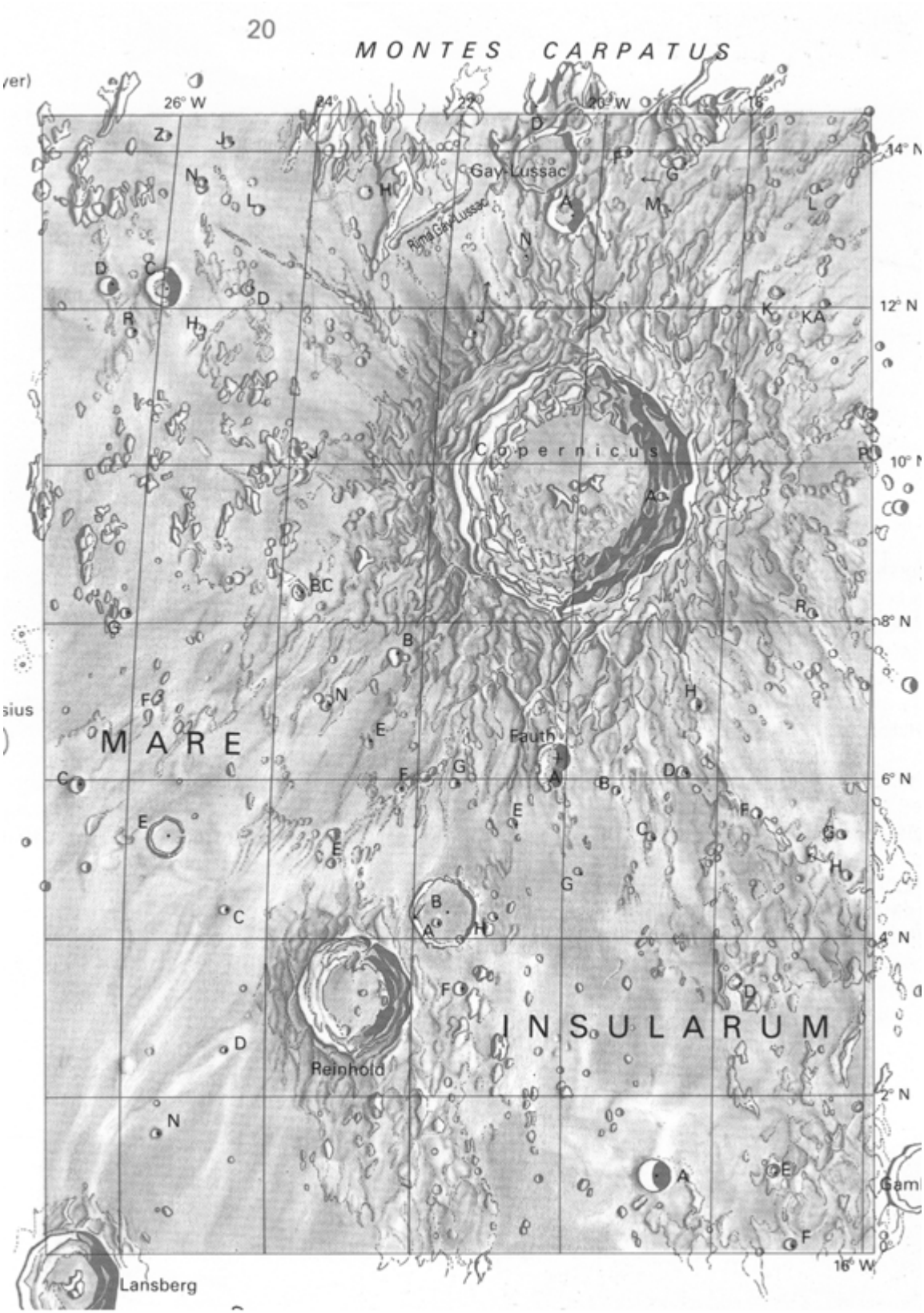
CAMERA FOUR POSITION

* HPS Unit 3:
CMOS/SSI Camera, (Celestron Neximage Solar System Imager / complementary metal oxide semiconductor)
OPTICS, prime focus. FOV= 400 NM, range 600 NM simulated (239,00/400x).
Celestron, 8" 2032 mm (SSI equiv 5 mm, w/Barlow 150x)
Resolution at lunar range = 0.5/0.68 =2160: 0.23 mi or 1214'
VGA resolution (640x480) color ¼" CMOS chip
30 fps
Compression 1420
Digital to Analog Converter 1; TEP-100 Elite Pro, aperture video DVR2

Switchable to

* VMA (Virtual Moon Atlas) graphics

CONFIG
Celestron C-8, no diagonal, hand control, battery eliminator on drive

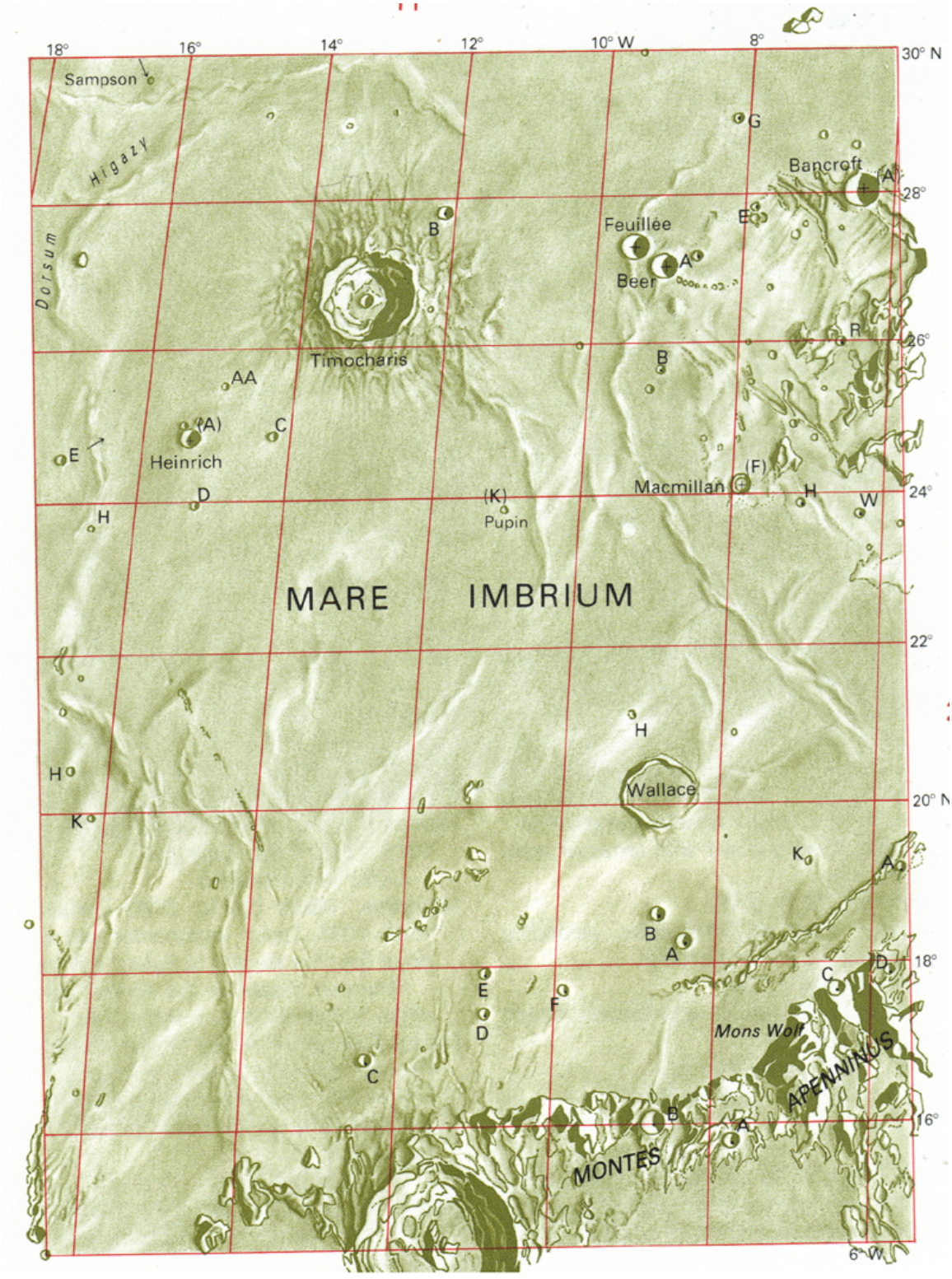

MONTES CARPATUS
26° W
24°
22°
20° W
18°
14° N
12° N
10° N
8° N
6° N
4° N
2° N
16° W
Gay-Lussac
Ring Gay-Lussac
Copernicus
Fauth
Reinhold
Lansberg
MARE
INSULARUM

REPORT NOTES

Analysis pending
Recordings on
VHS1 Quad
VHS2 Not used on CMOS
DVR1
DVR2

Imaging on Camera 4 was good
WWV signal on DVR2 was good

Frame-grabbed images


18°
16°
14°
12°
10° W
8°
30° N
28°
26°
24°
22°
20° N
18°
16°
6° W
Sampson
Higazy
Dorsum
Bancroft
Feuillée
Beer
Timocharis
Heinrich
Macmillan
Pupin
MARE IMBRIUM
Wallace
Mons Wolf
APENNINUS
MONTES


21
31
33
16° W
14°
12°
10° W
8°
6° W
14° N
12° N
10° N
8° N
6° N
4° N
2° N
0°
M.
Eratosthenes
Bode H
SINUS AESTUUM
Stadius
MARE
INSULARUM
(Copernicus)
Surveyor 2
Schröter
Gambart
Rima Schröter
Sömmering