

July 30

Mark Fisher

Observed moon

Josh Worman

had trouble with ascension axis

Charles Lewis

clamp. It would not stay unlocked and made movement very troublesome

7/1

Adam - in at 2200

★ Fixed R.A. clamp - if any further problems, call me @ 648-4569 ★

OPEN HOUSE

MOON - Full - dk. green filter

MOON	$\alpha = 19^h 26^m$	$\delta = -16^{\circ} 52'$
Vega	$\alpha = 18^h 35^m$	$\delta = +38^{\circ} 44'$
M13	$\alpha = 16^h 40^m$	$36^{\circ} 33'$
	+1h 55m	+20 11'
M24	18h 15m	-18 27'

$\alpha = 19^h 32^m$ $\delta = -16^{\circ} 41'$
~~M24 $\alpha = 18^h 15^m$ $\delta = -18^{\circ} 27'$~~

drive is erratic
sometimes ticks out

try using epd slow controls to fix.

Arcturus

$\alpha = 14^h 13^m$ $\delta = +19^{\circ} 27'$

Arcturus $\alpha = 14^h 22^m$ $\delta = -13^{\circ} 41'$

looked ^{for} M13, M24
no luck.

about 20 people total
out at 0100.

7/1/72 In at 3:45 A.M.

Observed moon & sun

Amateur notices

Mike Wismer

Out at 5:30 A.M.

Garen Forster

7/2

Adlam - in at 2300

v. cloudy - but later 100% clear!

(observed Prv bldg.
Smith-Corona typewriter in office.
+ Moon - during break in clouds.
~~out~~

Moon $\alpha = 20^h 31^m$ $\delta = -13^{\circ} 55'$
M55 $\alpha = 19^h 36^m$ $\delta = -31^{\circ} 3'$

Altair $\alpha = 19^h 48^m$ $\delta = +8^{\circ} 44'$
M13 $\alpha = 16^h 40^m$ $\delta = +36^{\circ} 33'$

 2^h $3^h 08^m$ $\delta = 27^{\circ} 49'$

~~M13~~

appears! when clouds leave!

Arcturus $\alpha = 14^h 13^m$ $\delta = +19^{\circ} 27'$
~~M13~~ $\alpha = 13^h 40^m$ $\delta = +28^{\circ} 38'$

 23^m $9^{\circ} 9'$

out at 0045.

7/5/77

In at 12:30 AM
Towed to grid M13

Out at 3:30 AM

M. Wisner

7-6-77 8:45 - 10:45

Believed we saw Saturn,
low on W. horizon (w/ eyes)
but clouded over there.

Then saw Mizar/Alcor.

Then M57 (Ring Nebula)
in Lyra.

Seeing good

Transparency lousy

Jim Cyser
J. Earler
Josh Wuman
Joe Cannavo

7-6-77 In @ 12:05

waited for clouds
to clear and waited...
and waited... and waited...
and meanwhile back at
the ranch I instructed a
student in the use of the
telescope.
And then waited...
listened to stereo...

Out at 1:45

Mike Wassner
Mark Fisher
J. Carlton Hughes

7/6/77 in at 4:00 am

Saw Venus and sunrise

out at 5:45

Mark Fisher
Mike Wassner
J. Carlton Hughes

7/6/77 Arthur

8-12

Taught Tom Lawton

Sidereal Time

$$\begin{array}{r} 18^{\text{h}} 59^{\text{m}} 23^{\text{s}} \\ - 4^{\text{h}} 44^{\text{m}} 31^{\text{s}} \\ \hline 14^{\text{h}} 14^{\text{m}} 52^{\text{s}} \end{array}$$

July 7 G.H.A. at Equinox

H.C.O. Cambridge Ma;

$$\begin{array}{r} -14^{\text{h}} \\ -3 \\ \hline \end{array}$$

Difference in local time

including daylight saving

time

S.T.

$$11^{\text{h}} 14^{\text{m}} 32^{\text{s}}$$

ST 12:00 P.M. EDT 7/6/77

= 04:00 U.T. 7 JULY

$$\begin{array}{r} \text{S.T.} = 19^{\text{h}} 14^{\text{m}} 59^{\text{s}} 23^{\text{s}} \\ \quad \quad \quad 4^{\text{h}} \quad 00^{\text{m}} \quad 00^{\text{s}} \\ \hline \end{array}$$

30^s

$$22^{\text{h}} 59^{\text{m}} 53^{\text{s}}$$

S.T. Cambridge = 22^h 59^m 53^s

$$- 4^{\text{h}} 44^{\text{m}} 31^{\text{s}}$$

$$\hline 18^{\text{h}} 15^{\text{m}} 22^{\text{s}}$$

2/2/77

Arthur

Inventory

Darkroom

D-19	7	Gals.
Rapid Fix	5	"
Dust Off	20	Canisters
Photo Flo		1 bottle
Perma Wash		1 bottle

Ph Film

Tri-X	4	20 EXP. ROLLS
Plus-X	6	20 EXP. ROLLS
Plates	2	Boxes Open
	2	Boxes Unopened

Purchase

20	Rolls	Tri-X	20 Exp
20	Rolls	Plus-X	20 Exp
2	Quarts	FG-7	film developer
1	Quart	Perma Wash	
	??	Plates	

Projects: Mail Box
Radio Antenna
Solid Camera w solid cable
release

? Armchair?

Radio bolted to cabinet.

Display John's photos.

Mix darkroom chemicals.

Digital R.A. + Dec.

? Cold Camera

? Long focus tracker

Check alignment of polar axis

New control box.

? H α filter for Ross Camera.

Handle on roof trap door

True rabling chair

Notebook of Asteroid Charts

A cloudy night. I teach 4 people
how to work the cameras. The
painting is progressing slowly. It looks
good.

7/8/77

A cloudy day. We couldn't open the
dome cause it was raining (but)
The painting is not progressing
slowly. It's slower than that.
But it's great.

CP

1/19/77

In at 1:55
Out at 2:15

Y. W. W.

1/19

Allen in @ 21:30

Open house, ~ 30 people.

Saw: Uranus

M13

Albireo - double

Dumb

Vege

Archvus

looked for M31 - no soap.
Found M57 Ring! - v. hazy
looked for M27 - dumbbell - no soap.
undefined.

Out @ 01:30.

1:00-5:30

7-10-77

1. Saw Moon. Spectacular detail on craters, hills, maria, especially near terminator. Last $\frac{1}{4}$ phase.
2. Saw Andromeda galaxy, M31. Core is nice but no arm structure visible.
3. Saw Venus. Gibbous phase
4. Saw Mars.
5. Saw Jupiter. Nice view of moons, including one just outside limb of planet.

Jim V Cyser
Tatleen Donaldson
Janine Kieling
Michael Wassner

7/10 - 7/11

Adam - i @ 2120

Arcturus	$14^h 13^m$	$19^{\circ} 27'$	
✓ Uranus	$14^h 22^m$	$-13^{\circ} 40'$	
MS in Serpens	$15^h 16^m$	$+20^{\circ} 16'$	found-like M13
	$+ 54^m$	$+15^{\circ} 56'$	

Devel	$20^h 40^m$	$+45^{\circ} 06'$
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M39 (Sclache
cluster $M_V = 5.2$)

	$21^h 30^m$	$+48^{\circ} 13'$
	$+ 50^m$	$+3^{\circ} 07'$

Vega	$\alpha = 18^h 35^m$	$\delta = +38^{\circ} 44'$
M13	$\alpha = 10^h 40^m$	$\delta = +36^{\circ} 33'$
	$\searrow 1^h 55^m$	$-2^{\circ} 11'$

out @ 2330

<u>M27</u>	19.57.4	22° 35
Vega	<u>18.35</u>	<u>38° 44</u>
	+ 1.22	- 16.09

Saw Vega, tried for M22
and got M28 instead.
Then saw unidentified
open cluster in sagittarius,
Lagoon nebula -- no go.

Out at 1:15 ~~AM~~.

Seeing good
Transparency excellent (for Boston!)

Jim Cypser



7/11/77

Mark Fisher

4:00

5:00

① moon (fantastic detail!)

② Venus

③ Jupiter

(Seeing good, but Sun got in way!

7/14/77

2:00 A.M. —

Seeing 5 Transparency fair

Observed-M 57 ring nebula in
Lyra, M13 in Hercules,
M27 in Vulpecula. Attempted
M15 but to no avail.

Joe Cannavo
Jim Cyper

7/14/77

8 pm

Uranus	$14^{\text{h}} 22^{\text{m}}$	$-18^{\circ} 40'$
Spica	13 $13^{\text{h}} 23^{\text{m}}$	$-10^{\circ} 54'$
	$0^{\text{h}} 59^{\text{m}}$	$2^{\circ} 46'$

Instructed:

Dan Arman

Marc Rose

Ross camera plate for focusing
Ring nebula, M13, Uranus.
One in fifty nights.

Arthur 3 a.m.

Friday Night Arthur

Uranus	14 ^h 21 ^m	-13° 40 ^m
Arcturus	14 ^h 13 ^m	+19° 27 ^m
Ring Neb.	18 ^h 51 ^m	+32° 28 ^m

Spica	13 ^h 22 ^m	-10° 54 ^m
Uranus	14 ^h 21 ^m	
	1 ^h 00	

Dumb-bell	↑ 19 ^h 57 ^m	+22 35 ^m
Sad (i?) r	20 ^h 20 ^m	+40 46 ^m
	<hr/>	<hr/>
	23 ^m	+18 11

Depart 1 a.m.

7/16/77 Sat. morning 3:00 - 4:00

Venus + mic. stars

Mark Fisher

Josh Wurmman

7/18 Adm in @ 2145

Arcturus	$\alpha = 14^h 13^m$	$\delta = +19^\circ 27'$
Venus	$\alpha = 14^h 22^m$	$\delta = -13^\circ 40'$
	<hr/>	<hr/>
	$+9^m$	$-33^\circ 07'$

Albireo.
M13

Adm out @ 2330.

July 19 1977 ~~July 19 1977~~

Joe Cannata and Jim Gypson in
at 2:23 AM.

Transparency - 5air

Viewed M 103, Bright but
sparse yet very color-ful.

Viewed M 31, Central core
bright but no spiral structure
visible companion galaxy visible.

Also viewed double cluster in persus.
opened very large and bright yet
concentrated, Although sky glow
limited visible stars to 12th mag. or so

Joe Cannata out at

7/19

1:30 P.M.

3:00 AM

Tom Lawton

Painting Zedias
preparation

Arthur 9-12

Hazy night workshop.

Focus Ross camera

Align long (7") dimension of plate
with ~~the~~ the declination axis.

Collimate the finder crosshairs
with the Michael telescope.

Balance ~~in~~ both the Dec. and the
R.A. axes.

Set the Dec. scale using Altair
(Dec = $8^{\circ} 44'$)

Jerry begins work on Pisces.

Arthur

Instructed:

Stephen Plona

7/21

Searched + Waited For
Clearing till : 2:00
Unsuccessful.

Ken Chin

7/22

Open House - Adam
in @ ~~2115~~ 2115

Moon - 1st $\frac{1}{4}$ tonight -
near horizon @ 10 P.M. EDT

~~Moon $\alpha = 13^h 15^m \delta = 7^{\circ} 15'$~~
Uranus: $\alpha = 14^h 22^m \delta = -13^{\circ} 40'$
Arcturus $14^h 13^m \delta = +19^{\circ} 27'$
+09^m -33' 07"

Excellent!
Vega $\alpha = 18^h 35^m \delta = +38^{\circ} 44'$
M13 $\alpha = 16^h 40^m \delta = +36^{\circ} 33'$
-1^h 55^m -2^o 11'

Note: found 2 broken eyepieces
"Big Bertha" - lens chipped
25mm ortho - cracked

trouble with dec. paddle switch

~~10~~ Vega
↓ Altireo $19^h 20^m$ $27^{\circ} 51'$
 + 54^m $-10^{\circ} 55'$

M31 - core visible

2²⁰ AM - Mars

2⁵⁰ AM - Venus

3³⁰ AM - Jupiter

out at 0430.

A.

7/23

Allen - Oper Hse.

In @ 2100

Moon - cloudy

* Big Bertha actually works OK.

2205 - v cloudy

Dome diameter ~~19~~ 19' 8" = 236"

Circumference = ~~π~~ × 3.1415 × 236

$$\begin{array}{r} 3.1415 \\ \times \quad 2 \\ \hline 6.2830 \\ \quad 236 \\ \hline .37698 \\ 188490 \\ \hline 1256600 \text{ ''} \\ 1482.788 \text{ ''} \end{array}$$

1 Zodiac = $61 \frac{3}{4}$ "

$$\begin{array}{r} 123 \frac{7}{12} \text{ ''} \\ 12 \overline{) 1483} \\ \underline{12} \\ 28 \\ \underline{24} \\ 43 \\ \underline{36} \\ 7 \end{array}$$

7/26 seeing 3 (due to low ~~the~~ elevation
above horizon)

Observed Venus Mars
and Jupiter ^(Mars), and spectra
of these.

John Curran
for Hershberg

7/26 Arthur

Instructed:

John Chan

Christopher Carbone

Philip Askenazy

Edward Ketyer

JOSEPH KOVELESKIE

Joseph Izen

John Gaffel

S. Kurlong

John Harney

Eileen Muller

7/27

Coordinates of ~~the~~ Neptune

RA

DEC

$16^h 53^m$

-21°

Viewed Moon (terminator) + Ring Nebula

Observing - 7

Jim Hershberg
Joe [unclear]

Possible list additions

David Shepard

Stephen Plong

Tom Lawton

O'B

7/27 ARTHUR

9-12

Instructed:

BENNETT COHEN

~~JOHN~~ NATHAN McBLAUGHLIN

CHIP MESEROLE

~~STEVE~~ STEVEN RAPKIN

STEVE YORIK SHOWED ME HOW TO
FIX THE 'BROKEN' EYEPIECES. WHEN
THEY WERE DROPPED THE IMPACT
SEPARATED THE ELEMENTS, THE CRACKED
APPEARANCE WAS FROM THE CEMENT,
CANADIAN BALSAM, THAT WAS LEFT
ON THE ELEMENTS. WE CLEANED THE OFF
THE CEMENT WITH ACETONE. NOW THE ELEMENTS

NEED TO BE CLEANED MORE
CAREFULLY ~~AND~~ AND RE GLUED.
AN ULTRASONIC CLEAN BATH IS THE
BEST WAY TO CLEAN THEM.

Viewed M 39 in Cygnus, excellent conditions
open cluster; calibrated location from α -Cys

Left the telescope with
Steven York

Observed M15 in Perseus excellent
photographed with 35mm

That camera need work **BADLY**

Swiped cable release from Tek scope
camera in Rm 804.

Took a quick glance at the
Dambell neb pretty good
but not great

And then there was Andromeda which was
found after 1 mistake

I must protest all this moon light!!!

Venus & Jupiter rising next to
each other on left of Wm James Hall
Used 4" reflector on roof of rm 804

4 satellites visible to left of Jup also bands visible

Incredible view of Jupiter all 4
Galilean satellites visible simultaneously

Out at 4:15

Eye piece mount damaged in
removal will return tomorrow
to attempt repairs

S. York

7/28/77 Steve York

12 Noon - 2:00 pm

repaired mount with generous elbow grease
& precision machining of inside
surface. I hate emory polishing cloth
S. V.

7/28/77

10:00 PM Steve York

The moon is still there (almost full)
starting to get cloudy

7

7/28/77

Arthur

9-12

Instructed: LINDA R. GARDNER

HAZY; ALMOST FULL MOON.

CAMERA NEEDS SHUTTER REPAIR.

NEED FLASHLIGHTS.

8x30 BINOCULARS ARE GOOD 8.5

LEFT DOME WITH DAVID SHEPARD
1:20

7/29/77

1:20-2:00 Steven Rapkin

Just looked around at moon and
sky

7/29/77 Bad seeing looked at moon

Bad viewing - looked at
Vega, moon, room in Sheraton hotel

Out at 11:15

No β , γ in Lyra! (in other words - viewing
was TERRIBLE!

Mike Wissner
Beth Yeon
Ron Leone
Charles Lewis

$\alpha = 11^h 13^m 20^s$ $\delta = 43^{\circ} 20'$

... but it
was sitting too low
... 15

7/31 Adam - Open House

in at 2130.

✓ Uranus
✓ Moon (2 d. past full)
Albino $\alpha 19^h 29^m \delta +27^\circ 51'$
($-2^h 27^m$; $+36^\circ 20'$)

waited for planets -
too foggy.
Only ~10 people
total.

Out at 0345.

ARTHUR

New rug.

Oh Stop Oil drip from slit motor.

8/3/77

Josh Wurman

Telescope open but abandoned

0230

Haze and high thin ovc when we arrived.

found Mars, Jupiter, and Venus

Jupiter's 4 moons visible but no detail of planet itself.

FIX SHUTTER OF CAMERA !!

Later Jupiter out of haze bands visible

Tried to take 35mm pictures but failed.

CANT FIND SCREWS TO ROOF DOOR (IT WAS OPEN WHEN WE CAME)

DIDN'T LOCK DOOR - COULDN'T FIND KEYS

OUT AT 0425

Michael Wisner

Josh Wurman

Aug 3-4 Some 4920 ground horizon but moon very sharp even with
1W @ 11:30 PM 6mm lens

Saw Mars at @ 2:40 AM

Out 2:45 AM Josh Worman

Michael Sherman
Beck Year

Aug 4 0745 Stephen Plona hazy overcast no observations made

R.A. ~~swatch~~ swatch on box sticking badly ~~swatch~~ ~~swatch~~

Aug 5 0132 John Spofford

Joe Koveleskie

Brittany Ray

Too hazy to see stars, ~~observed~~ moon, visible.

Aug 6 0100

Michael Sherman

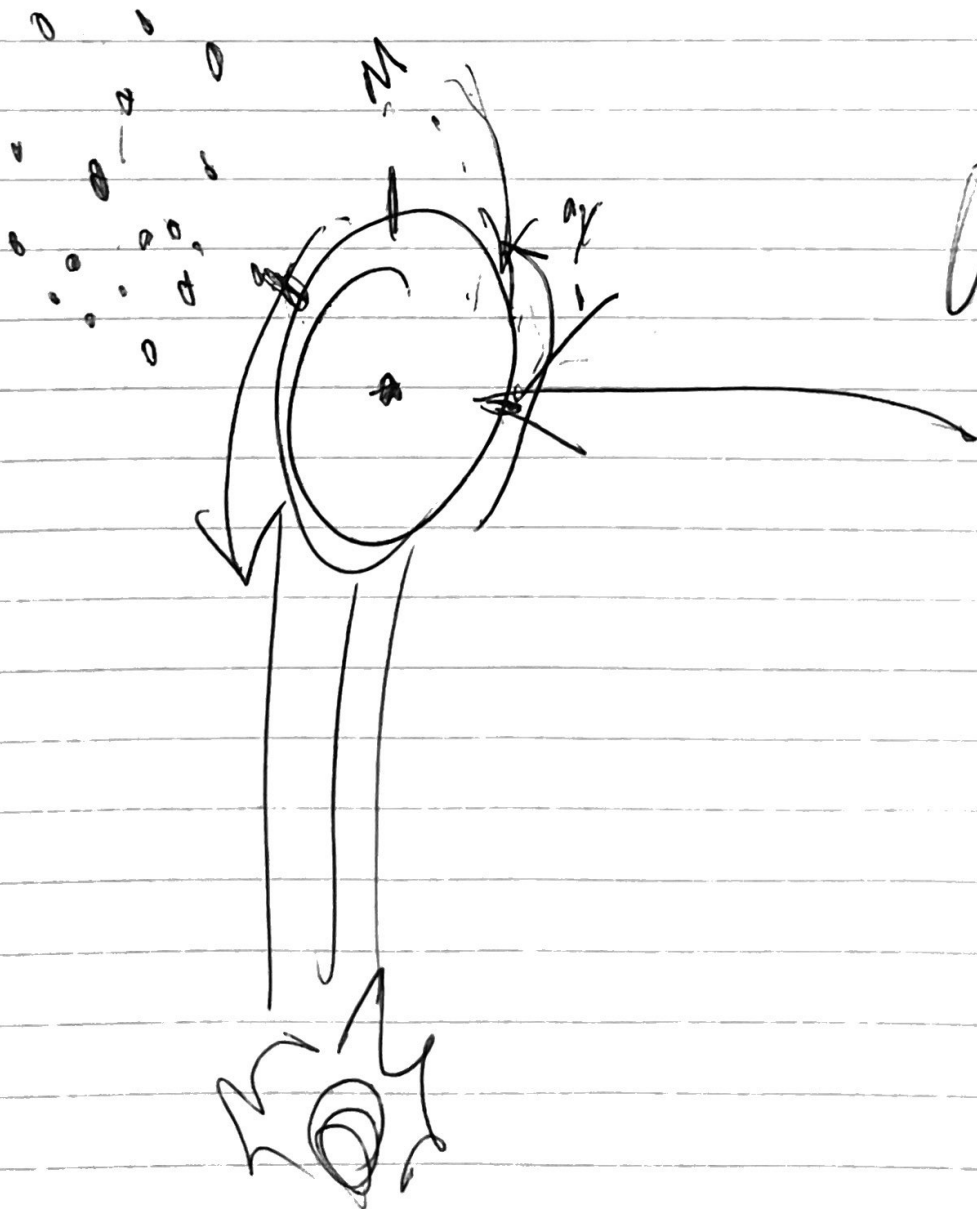
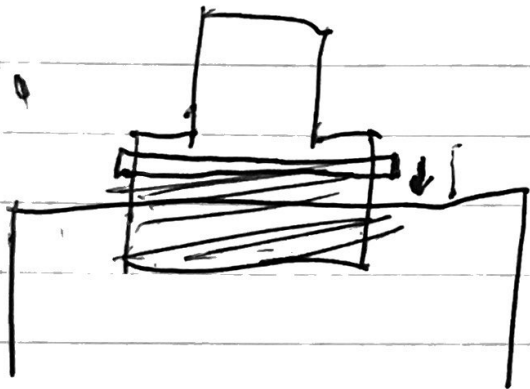
tried to observe stars, but too hazy,
observed moon - good but hard
to see with 6mm lens

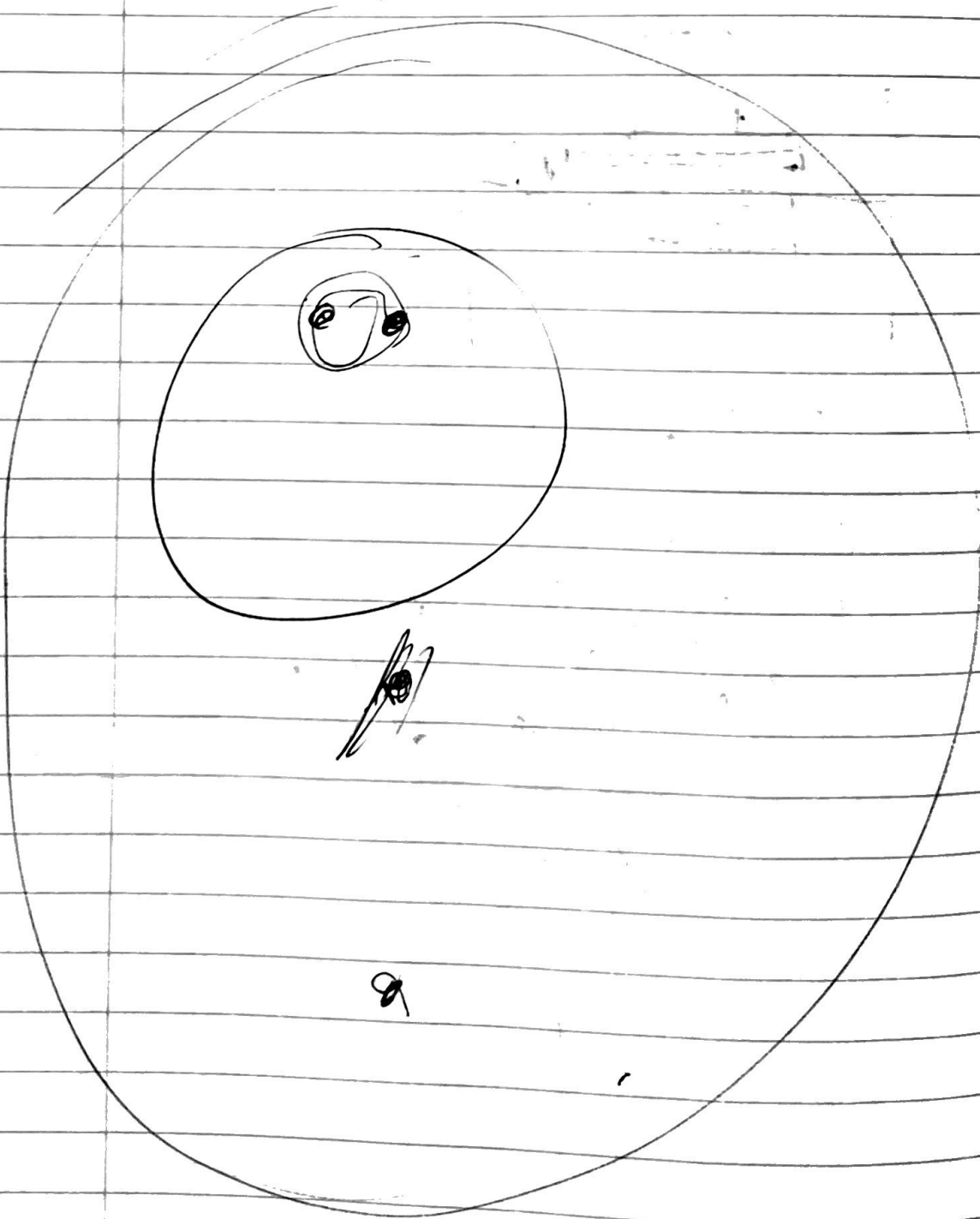
2:45 AM Van Weeden out at 0145

Aug 6

We tried to get through the clouds
with no success

Christopher Carbone





Van Wedeen

Lisa ~~W~~ Sarkisian

Polar axis alignment

Point telescope at star at Dec $\approx 0^\circ$
on western horizon. 1:02 - 1:15

Drifted slightly north. No
good measurement.

Took three focus plates RM44 RM45
and RM46. Each plate was sharper
better than the preceding plate.
Locked the focus at the final
focus. The focus was changed
by rotating the lens a half a turn
between the plates. clockwise

Aug 11 Steve York
plus about 1/2 dozen various
people but too hazy to see
anything at all 10:30-11:00 PM

Aug 15 Steve York
Shot M57 (Ring)
RA Clamp is Poor at Best
Arthur replaced several fuses
Camera seems to function well
after repairs

— Wispy Clouds —
Out at 3:00
Thank God

Fantastic
Transparency!

Jim Cysser
Aug. 18

In at 4:15. At first
were going to take plate of
Auriga region with bright
galactic clusters, (M 36, M 37,
M 38, etc.) but Josh ~~he~~ decides
on planets (Jupiter, Venus,
Mars) w/ 35 mm. camera
and Tri-X.

J.W. Jupiter: 3, 5, 8, 10, 13, 15, 18 sec.

J.W. Mars: 5, 10, 15, 20 sec.

J.C. Venus: 4, 8, 13, 2, sec.

J.C. Then I took plate of
Pleides -- gorgeous in finder.
20 sec. but getting light, so
it might come out overexposed.

Transparency excellent; best I've
seen this summer. Seeing very good.
Out at 5:30
Josh Wuman

Arthur 9-12 Staped photos to
the wall. M57 between β and δ Lyr.

• nice,
left with Mike Wissner

• took plate of Cassiopeia (sp?) - M. Wissner
Left telescope with Steve York. - 0246

Steve York - Beautiful -

5 People looking at Jupiter
4 moons with banding visible

SAW THE RED SPOT!!!

Venus is Blah

M31 is reasonably clear but
not that impressive

Closed Dome 4:25

Can't lock the dome - don't have
the proper key

8/19

Arthur Open house
Boring - no good objects
too many clouds.
~10 people
left at 11.

8/20

Am at 12:30 AM - Mike Wisner

Some clouds - found Lyra
loaded Ross camera to photograph
Lyra - clouds moved over sky - photography
impossible

Waited for clouds to clear

2:00 - still no good

2:30 - plate of Lyra

3:15 - 8 people came

- people gone

Josh Wiman

Took pictures of Jupiter 2, 5, 8, 11, 14, 17

Mars 5, 8, 12, 16, 20, 25

Stars 5, 1, 4 min.

Out at 0400

Wisner

Both years
slept here

8/20 In at 8:30 Jim Cypser
Steve York arrived at \approx 9:30
w/ 5 guests

Took plates: Sagittarius
Crescent moon over w horizon
M31/Andromeda

Metallah	29° 20'	1h 50'
M33	<u>30° 24'</u>	<u>1h 31'</u>
	1° 04'	0h 19'

Saw: M22 (Sagittarius) nice, but not
as condensed as M13

Moon

M31. No spiral structure.

Jim Cypser out at 11:45

8/21/77 D.O. (above)
Saw - Mars - clear in E, low on
horizon
- Jupiter + 4 moons - \odot NE of Mars

Seeing - very good - clear night
able to distinguish red
spot on J !
Careless about exact R+P.
(sorry)

P.C. 2:15

James R. Kaufmann
Gabi Kaufmann

8/21/77

4:00 pm

JOE KOVCELESKE

SHOWED A FRIEND OBSERVATORY.

8/21 Adam (back from the dead) - Open House

MOON

✓ M13: $-1^h 55^m$, $-2^{\circ} 11'$ from Vega
= $10^h 00^m$, $+36^{\circ} 50'$ on wheel

M13	$16^h 40^m$	$36^{\circ} 33'$
Albireo	$19^h 30^m$	$+27^{\circ} 51'$
	$+2^h 50^m$	$-8^{\circ} 40'$

to $12^h 50^m$ to $28'$

File
Cabinet
found
open!

Albino.
Moon again

7 visitors total (1 Art)

out at 2340.

A.

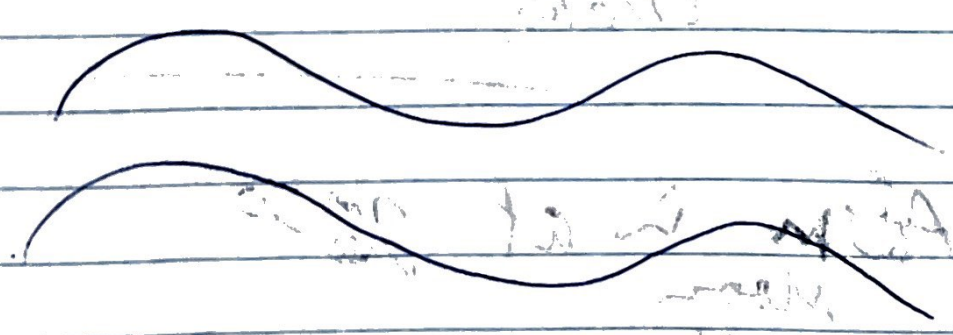
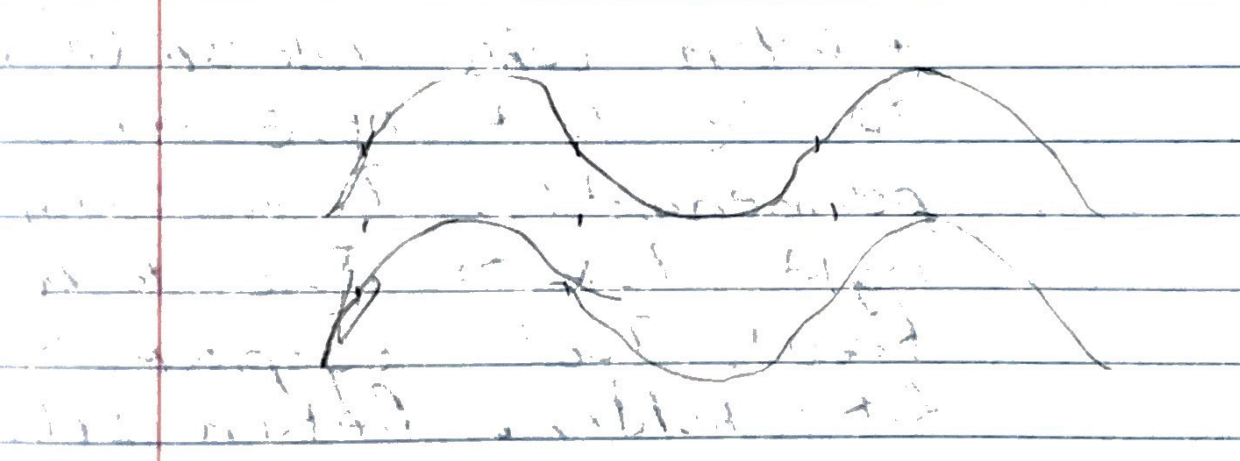
8/23 3:00 AM John Torry John Maloney
After a successful session with the Z-machine,
having deglitched noisy bus drivers into submission,
we perceived the clear but misty sky.

Looked at Jupiter, Pleiades, M42. The night is
about as good as Cambridge gets.
The RA clamp doesn't work very well

100

100

Handwritten notes at the top of the page, possibly describing a process or experiment.



200

Handwritten notes below the graphs, possibly providing further details or conclusions.

Handwritten notes at the bottom of the page.

Arthur

8/23

Delivered Nikon body (Dave's c/o
Smithsonian)
+ Nikon cable release (mine)
to be left here somewhat
permanently. Took down
light box to Jose to be
fixed. Took eyepiece to
fit holder. Return setting
circles.

8/23

Adem in at 20^h 30^m
Moon

Deneb Moon

Albino

"Coal Miner" Cluster

20^h 40^m +45° 06'
19^h 29^m +27° 51'
19^h 20^m +20°

11^m ; -17° 15'

Altair	$19^h 48^m$	$+80^{\circ} 40'$
Albireo	$19^h 20^m$	$+27^{\circ} 51'$
	$\xrightarrow{-19^h}$	$\xrightarrow{+150^{\circ} 07'}$

M13	$16^h 40^m$	$+36^{\circ} 33'$
	$\xrightarrow{-2^h}$	$\xrightarrow{+8^{\circ} 42'}$
	$18^h 40^m$	
	49^m	

out at 2400

5/26 Joeizen opening up at 315

Sky - 4 out of 10

Jupiter

Mars

Or Neb in Orion.

M36 in Auriga

Venus.

all closed up at 3:35

8/26 opened up at 2010² Steve Plana

Gail came at 2030 to look at the moon.

Observed Andromeda M31

M13 Hercules Globular Cluster

M57 Ring Nebula, Lyra

M15 Pegasus

M45 Pleiades

040 Jupiter + 4 moons attempted unsuccessfully to

find M1

logged out at 0535 8/27 J.P.

8/31

Returned

Arthur
25^{mm} eyepiece

3 4" feeders

Camera adapter

Repaired eyepiece holder

(less Weir fixed)





2 Sept. 77

Bad pen

Clouds

Switch Box all fucked
up - Hope will be fixed

Did some ~~work~~ ~~work~~ ~~work~~ -
getting on roof

out: 0120

1/16

Arthur

9/6

Removed Nikon for adaption
of 6x viewfinder.

Arthur

9/6

Delivered Phillips #3 Screwdriver
September S+T
Camera + 6x Finder
Repaired plastic lamp

NIKON all set for
outstanding astrophotography

730

36°42'

111 Alan i @ 215

Altain 19^h48^m +8°44'

Albires ~~19^h28^m~~

or where $A^b = 10^h 12^m$

M13 $\rightarrow 16^h 40^m$
 $- 2^h 49^m$

$\rightarrow 36^o 33'$
 $+ 8^o 42'$

+ 27°51'

out @ 2200

Harry Ferguson
Just looking

13? Arthur.

Installed a new paddle board - almost finished.
I'm looking for a manila folder of telescope information that may have

been left in the dome.
Anyone want to collect
the reward?

The paddle board will be
OK. tomorrow. Thursday.

9/1? Board all set to
go.

9/16 Where the hell is the
stereo cabinet key?

9/19 (2115-2145) JWM
tried to find M31 - too hozy
RA clamp seems loose
JWM

9/20 Delivered two (2) new
flashlights

9/24/77 JWM + Duffy 4:00-5:30
repairs on paddle wiring
and answering service

JUN 3:15 - 5:45
8:45 -

9/26/77 Duffy + JWM

repairs! (Duffy has taken up residence)

fixed RA clamp - was necessary
to completely disassemble - these should
be oiled occasionally to inhibit rust.

fixed up answering service - hole in back
of file cabinet

general tidying up

started working on lighting system.

9/27/77 Phil Duffy 12:30 - 6:00 PM

Fixed deck drive - lotta work!

9/27/77 JWM + Duffy (6:45 - 11:15)

Astro 8 observing

~15 people

M13, M57 (rather good), + Moon

9/28 P. Duffy & D. Latham

Repaired drive - again!

Big worm is pressing too hard on gear

9/29 JWM - stopped in to look at
drive at P.D.'s request 10:15 - 10:45

found, of questionable significance, one

loose hex screw and one missing pin
at top of RA drive transfer shaft. JWM

10/1 P. Doffy rewired setting circle
lights. We need new fixtures.

10/2 JWM 2000-2200
P. Doffy

Fixed clock drive - again!

10/3 4:05 PM

John;

I just now finished replacing the
pin, so let's not reconnect the shaft till
tonight or tomorrow.

Problems 1) Motor sounds as if its
straining (pitch varies)

2) couldn't find replacement for
pin at top end of long shaft

4:10 - 5:30 JWM

4:25 - returned from getting tools:

drive motor was burnt out.

Smoke + ozone all over the room.
wired lights

10/4 JWM + Duffy (2200-2~~30~~³⁰)

Motor is dead.
Took mixer gears apart; they are
frozen - will add light oil

JWM + Duffy (1900-2345)

Repairs - removed E-W slow motion
gear to free system - put entire
system back together. It works!
(less R-A slow motions)

Astro 8 observing night starting (2000h)

JWM
+ Duffy

Astro 8 observing 30-35 people
Saw M13, M31, M57, M103
clock drive tracks too fast!!
good observing session.

10/5

P. Duffy

worked all day on clock
drive. Freed stuck gear but can't reassemble
because threads shot on one bolt. I'll look at
that tomorrow.

At around 2:15 the bottom $\frac{1}{2}$ of
the dome door unlatched (by itself) and fell

down. Ker-ash! I just managed to pull my head out of the way in time, but felt the breeze as the metal went by. Close one... As a result, the metal platforms on which the door rests is now all bent out of shape. Consequently, the 2 sections of the door no longer latch together, so if it rains, we get wet!

Got help today from Art Haysen & Jose Morbes - they've been indispensable recently.

10/6 Duffy

+ JMM (1300 - 1630)

worked on dome door

10/7

JMM + Duffy

↳ (1100 - 1140)

finished frame dome door

Notes: be carefully, make certain bottom segment is engaged before raising door.

Do Not ~~put~~ put any of your appendages ~~thru~~ thru door - it may act as a guillotine.

further repairs must be made
to the rods that connect the
two pieces.

10/7/77 P. Duffy

Finished repairing drive
mechanism, it works fine - for now.
Also fixed clamp on chad on rolling
staws

10/7 JWM (1900-0145)

Open house - "Some" clouds when I
arrived (~50%) - Cleaned up dome,
some minor adjustments to drive, finished
setting circle lights. Used Duffy's thin nylon
cord to replace broken ~~to~~ objective end
cord on telescope.

M-13, M-37 (repeats), M-31 (repeats)

Jupiter at 12:30 am (0030 Est)

Orion Nebula (0130)

~70 people (have list of 8 interested
in learning how to use. JWM

12/11/77 ^{Jun} (1910 - 23²⁰) Astro 8 observing

Puffy + A8 section person showed up
also 1930: Don Kiley and Jim Rosenfeld (A-8 projects)
~~about~~ 4 people also showed up (only one from
+ ~6 people ~~to~~ some A-8
signed up 3 more people for projects
looked at M13, M57, M31

10/11/77 - 3:40 pm - Sun eclipse

Joelzen
cellulose

partly cloudy

few nice sunspot groups.

break in clouds - eclipse seen

- ~~seen~~ two main sunspot groups.

- viewed with eye piece projection

& cheap (not ortho) wide eye piece but
still can't get entire sun in field.

- also seen with 7x50 binoculars & solar screen
filters - neat! - ~~to~~ it'll be great when
we have one for the 10"

Done shutter "complained" but used ok.

~~ok~~

10/12/77 P. Dofly
Instructed Steve Month
Gwill York
Barry Wald

10/15/77 repairs Buffy + JWM (1345-1645) + al
freed up RA - now moves easier
worked on Dec Slow motor

10/15/77 Open House JWM (2000-2045)
Adam in at 2030

✓ Vega 18.35, $38^{\circ}44'$
✓ Albino 19.29, $27^{\circ}51'$ ✓ M31 $00^{\text{h}}40^{\text{m}} + 41^{\circ}$
+ 54 -1053 + $6^{\text{h}}55^{\text{m}}$

✓ M13 v. clear

✓ Albino

✓ h Perseus $2^{\text{h}}15.5^{\text{m}}$, $\delta = +56^{\circ}53'$
✓ x Per $2^{\text{h}}19^{\text{m}}$, $\delta = +56^{\circ}53'$

✓ Pleiades

✓ Jupiter - rise @ 2200

Capella $5h 13^m$ $\delta = 45^\circ 57'$
to h Perseus $(2^h 58^m + 110)$

(hand π Perseus - beautiful!) ~~XXXX~~
galactic clusters (c. 200 stars in
back to Jupiter @ 2315 20m field)

then Orion Nebula (M42)

then Mars at 0000 Oct. 16

good night! - v. clear
at least 45 visitors tonight,
and all in night in the world!

(Best of all were h, π Per. M_V 4.4, 4.7
N* ≈ 350)

M42
h Per $2^h 19^m$ $(FS6 \ 53)$

out @ 0205

10/17/77

P. DUFFY

Instructed Steve Month
Jim Rosenfeld & Dan Kiley
on 35mm photography.

10/17/77 JWM (2130-0100)

Instruction - cloudy

Brian Galvin and Nancy Pfeiffer - instruction session

Jessica ~~not~~ Ken Lucero (A-8) - instruction ^(need one more)

Vega, M-57 (lowy sees - high clouds)

10/18/77 JWM (1830-2345) (+1 hour crosshair repair)

1) checked darkroom - we are out of plates
need also: empty film cassettes

(there is some bulk tri-x and Plus-X)

2) fixed up Nikon adapter (had to steal
part from Minolta ring).

3) brought back crosshair eyepiece cleaned up,
fixed, and w/ new batteries. It uses
type Mallory PX28 (6volt - \$3.79 each)

I put a spare in with the other batteries.

Make sure this thing is
kept turned off - it must
click off.

continued →

10/18/77 JWM continued

Jessica Krash A-8 project (1900)

⊕ take roll Plus-X (20) of Moon at Prime focus

A-8 observing - partly cloudy - i.e. bad

Moon, Vega, M57, M13 (crowd) M31

+120

~8 people + Ken Lucero for instruction

clouded over 2215 - time to develop film

Moon pics came out O.K. - Fix is old.

10/19/77 P. Duffy

Cloudy. Just started Steve Monch
w 35mm photography

10/21 Open House -
(~30)

A Peacemaker

JWM (2200 - 0500)

took over from Al

M31 - Moon, M57, Jupiter (2 moons very close)

M42 (Orion) ended at 0030 (~80 people)

Total for night ~90

Ken (A-8) Mobject photograph

0140 - M42 - 35mm prime focus Tri-X

final M42 (1 roll) at 0300
Ross Camera → ~~Star~~ Pleiades Plate MR-51 (0330)

developed until 0500

10/22/77 JWM (1845 - 0200)

Jim Rosenfeld (A-8) - moon pictures (1900-2000)
clouded up at (2000) - NWS predicts clear

- waited & worked on finder cross hair lights

[determined ^{that} setting circle lights ~~to~~ run off 6.3 volts
AC. - this will be a good source for LED crosshair
light system]

Cleaned lens (18+25mm need disassembly)

Open House ~~(1950-0200)~~ 5 people showed up as
clouds started to break - Moon

M-57, M31, Jupiter (repeats)

Partial clouds (thin) all night
not very good observing

about ~~70~~ people

Dankley (0100-0200) for A-8 project -

too cloudy to do anything - instructed

in use of telescope.

JWM

+30

10/23/77 P. DUFFY &
JUN (2040-0040)

Steve Month took 1 roll plus-x of moon
Jim Rosenfeld (2100-2330) - moon pics - eyepiece

Projection (18+25mm)

also developed this roll + ones from last night

Ken Lucero (2130-0210) looked ^(later) at Vega,

M103, M52, M33 (not found - JUN), and M-31

pics of M31 starts 0045 end 0152.

Sky bright due to full moon.

also M57

10/24/77 P. Duffy & S. Month
8:00 PM -

JUN
+ 4 hours JUN (1945-2130)

Instructed Steve Month on setting circles.
Saw M57

TOOK 1 ROLL PLUS-X OF MOON
STEVE MONTH

(2130-2300)

10/25/77 A-8 open house

Jum (1940 - 0115)

checked new finder crosshair circuit on 6.3V AC source - works! - no need to adapt to finder telescope.

looked at moon - high clouds
tried for M-57, M-31 - sky was too bright for real viewing.

~~just~~ ~ 12 people

instructed Tania Huber (A-8)

10/27/77 Jum (1415 - 1615)

finder crosshair's work.

10/27/77 P. Dolly - (Jum - just dropped by
Extension School to look for C-1977m)
saw M57, moon, & clouds
Had to close down ~ 7:30.

10/28/77 Open House 7:30 - 11:00

(~50 folks)
saw M57, M31, M13, moon, h & χ Per,
Jupiter, looked for M1 (too near moon)

STEVE MONTH - LOOKED AT JUPITER

TOOK 1 ROLL TX = 11:00 - 2:00 A.M.

10/29/77 Phil Dofy

There is a problem (electrical) with the
doc. clamp-unclamp mechanism. Occasionally
it will give off a bright flash when activated,
& then refuse to work. If this happens
this means the circuit breaker labelled "telescope"
has tripped. Turn it off, wait a few minutes,
and turn it on again. Everything should
work fine again.

If this problem occurs frequently
Turn off the power & don't use the
telescope. Give me a call too. Thanks

10/29/77 P. Dofy Open House 8-11

STEVE MONTH - 8 - ~~11:30~~ 2:40 A.M.

LOOKED AT PHOTO - JUPITER + MARS

FINISHED OPEN HOUSE - PEOPLE

CAME AFTER

Thank, Steve!

11:30

10/30/77 JWM found Comet 1977m (1830-2155)

Tania Huber (A-8)

+45

Took 2 plates (1st - left lens cap on - Opps, etc.
(2nd - 4min - too long

Comet Kohler: October 30, evening

R.A. $18^{\text{h}} 20^{\text{m}}$

Dec. $-0^{\circ} 30'$

STEVE MONTH

TRI-X

KOHLER 5 EXPOSURES

8:30 (AP)

11:00 - 2:30 MARS & JUPITER

PICTURES

Arthur 10/31

Hunting for comet Kohler.



Position estimate, from path in T.A.

α Orionis δ

R.A. $18^{\text{h}} 30^{\text{m}}$ $17^{\text{h}} 33^{\text{m}}$ $19^{\text{h}} 57^{\text{m}}$

Dec. $-1^{\circ} 00'$ $12 36$ $13^{\circ} 36'$

Observed position ~~16/31~~

R.A. = $18^{\text{h}} 20^{\text{m}}$

Dec = $-1^{\circ} 00'$

Observed telescope settings (Good for tonight)

~~RA~~ RA circle $15^{\text{h}} 59^{\text{m}}$

Dec circle $-0^{\circ} 55^{\text{m}}$

Comet is faint fuzzy spot with
no central condensation or no
observable tail.

10/31/77 JWM (1820 - 2100)

Tonia Huber (A-S) Comet 1977m

Mass Camp pics (RM53, RM54)

read good - definite motion since last night

10/31/77 P. Duffly & Barry Wald

Showed Barry how to use setting
circles. Looked at Vega, M13, M3, M57,
talked about physics & 'extraterrestrial' life.

JWM (2⁰⁰15 - 0100)

Jessica Krash (A-S) - Moon pics Pan X

$\frac{1}{2} \rightarrow \frac{1}{15}$, $\frac{1}{15} \rightarrow \frac{1}{10}$ prime focus [no mirror lock,
atmosphere unstable]

25mm eyepiece projection: $1 \rightarrow \frac{1}{60}$, $\frac{1}{30}$

11/1/77 JWM (1815 - 2050)

+1115 w/ Ken Lucero (A-S) ~~find~~ Comet 1977m

look for at interpolated position $18^{\text{h}} 24.5^{\text{m}} - 1^{\circ} 22'$
did not find it visually, however, plate
RM-55 (taken 1915) showed it clearly (2.5 min)

11/1/77 Arthur

M 13	R.A. Dec Dec
E Lyra	$18^h 44^m + 39^{\circ} 37'$
Vega (α)	$18^h 36^m + 38^{\circ} 49'$
Δ	$08^m \quad 48'$
M 57	$18^h 51.8 \quad + 32^{\circ} 58'$

A-8 open house Jun + Duffy

Saw M13 M57 M31 H & X Pers.
Scott Butler was T.F!

11/2/77 STEVE MONTH

12:00 - 2:30 A.M.

DEVELOPED PICTURES

LOOKED, BUT DIDN'T FIND MUCH

THIS MORNING - TOO CLOUDY!

Jun

11/3/77 Jun (1115-1230) A-8 Dankiloy instructor
Jun (2030-22130) darkroom et Duffy

11/4/77 To Phil Duffy:

The DEC (N-S) motor is fixed, but I
can't find the gear box.

Jose Torres

11/5/77 P. Duffy & John Mackenty

Darkroom Work: table built,
enlarger installed, safelights wired,
room cleaned

11/8/77 P. Duffy

Replaced gearbox on N-S slow
motion motor. It works fine now.
Raining like a bastard tonight!

11/9 STEVE MONTHY PRINTED

FROM 7:00 P.M. - 2:00 A.M.

+ CLEANED UP

HERE!

11/10/77 JWM (1900-2130)

instructed Bob Lindsay (1900-1925) - couldn't
do much - because of clouds.

also Andy Rosame (1935-2025)

also Bolinda Martineau (2025-2130)

11/11/77 Open House JNM (1800-2045)

Took Press Plate of 1977m at 1840

could not find comet visually at
SAT coords: but found it on plate RM-56
there is a considerable discrepancy

Steve North looked for it also
open house starts 1930.

looked at M57, M31, h+X pers, Jupiter, M42
w repeats and Mars
about 40

11/12/77 Neil Tyson showing visitors.

11/12/77 JNM^{MA} Open House (2010 - 2215)
high clouds - reasonably dark
M-57, h+X Pers, Jupiter
clouded up 2200

11/14/77 JNM (1545 - 1615)

from plate RM-56 located comet on
SAO chart at: R.A. = $18^h 58^m$ } for 11/11/77
#83 $\delta S = -6^\circ 30'$

11/14/77 JMM (1800) - 2200

Comet 1977m - used wrong cone
plate RM-57 w/TMH

RM-58 Tonia Huber Astromer # 63

Dan Kiley - Pro 35mm prime focus M-57

P. Duffy its cold

Helped Dan photograph M57, M31,
h & P

Kiley 7:00 11:00

STEVE MONTH

3:00 - 5:45 A.M.

SATURN, MARS, JUPITER
PHOTOGRAPHY

CLEAN-UP

(IT'S GETTING LIGHT!)

11/15/77 JMM (1800 - 1920)

T.H. looked for Comet 1977m, too close
to moon to see visual

plate RM-60 no good (~~blank~~)

11/15/77 J. Duffy

I was here for Astro 8 observing.
Nobody showed up - it's cloudy over.
To keep busy, I tried fixing the RA
clamp mechanism - it doesn't always
unclamp the first time. No luck.

11/16/77 Jim Rosafell

I was here taking a roll of the moon for my
project of making an atlas. Used the nicar with
25mm lens. Slight haziness might have prevented
good definition in my pictures. I took a walk
roll, but ruined the film by breaking it & rewound.
Gotta start over again.

11/16/77 Phil Duffy & Kay Houston
cloudy. Looked at Moon, ♀,
h & ♄ Perseus.

11/18/77 12:15 AM Alan Penceman
The front came through and the
sky was beautiful!

11/

11/17-18/77 JWM (0100 - 0330)

Dan Kiley and Ken Lucero (A-8)

Mars + Beehive Cluster

RM-61 5 min - very nice

11/

11/18 1745 Juelzen
35mm photos of Moon

11/18 ~~1800~~ 1800 Tania Huber - JWM (1820 - 2040)

photographed comet 1977 m twice

RM 62 - 63 RM 62 = 1h 02m R.A. - 12° Dec

corrected coordinates from Sky + Telescope Nov. 1977

good plate w/ comet RM-63 contained no comet

11/

11/18/77 T. Doffy Public Open House
clear, cool

Transit of Io

11/

First contact: 2:09:15 UT

last contact: before 2:11:30

(visitors were looking)

saw 4 H & 7 Pers, M31, M45, M42

looked for M1

Many (~75) people

11/15-19/77 JWM (0030-0245)

Tania Huber (A-8)

RM 64 (Asteroid #349)

the circuit breaker blew and
also 20 amp fuse
are needed now!

~~11/19/77~~
11/19/77

P. DUFFY

Fixed R.A. clamp, sliding chair
lamp on chart table & answering
service

11/19/77 JWM (0200-0600)

Barbro on webmastering
for Dan Kiley, Jessica Krash, Ken Luoro
Tania work on SAC chairs

11/19/77 JMM (0330 - 0040)

Open House 7pm - 12:30
Moon, M57, hfx pav, M31
Moon, Jupiter, Orion (repeated)
great night despite turbulence
about 100 people - some returned
Sorry Duffy, the RA is too low learning

11/20 Adam (0320 - 0420)

Orion

Mars

hyps.

Saturn

M42

vis good seeing

Ken Auer (0340 - 0515)
sky too bright

11/20/77 Jim Rosefell

Before taking more pictures of the moon, I examined my last roll and found that the best shutter speed using a 25mm lens was ~~found~~ in the $\frac{1}{2}$ to $\frac{1}{4}$ second range with a good portion of the moon illuminated. I used these same shutter speeds with the plus-x film and I quickened the shutter to $(\frac{1}{4}, \frac{1}{8}, \frac{1}{15})$ for the roll of tri-x. I shot the upper part of the moon and also about $\frac{1}{3}$ of the way from the bottom. In (plus x) Oh yeah, didn't ruin any film today.

Jim:

Please be more careful to put telescope away properly.

11/21/77 JWM (~~2100~~ - 2400)

help Tonia Huber w/ SAO charts.

JWM

11/26 - J. Duffy & Alvin Hasegawa

Cold & pt. cldy.

Moon 7.5. Shooting in suburbs

M42, M34, 1 X Per.

Wind ~ 30 mph. Cal. seeing

11/27/77 P. DUFFY & REX YUNG

TAUGHT REX ABOUT DOME TELESCOPE
RT. ANOTHER COLD NIGHT.

11-28-77 Rex Yung

checking out the general instructions for lunar photography
@: Don't they have heating up here??? Sorry, Rex!

11/28/77 P. DUFFY

TELESCOPE INSTRUCTION CLASS

11-28-77 9:30pm Rex Yung shoot for the moon.

11/28/77

1:25 AM ~~Jim~~ Jim Rosenfeld. took two roll of
film. One with red filter, other with green. Was pretty
hazy around moon, hope they turn out ok. yeah,
it was cold!

11/29/77 + 1^{hr} 36^{min}

(Who???) Steve Mank

7:40 - 5:00 A.M.

SAURN, JUPITER & URANUS
PLUS X

11/30/77 JWM (2015-0130)

discussed A&E project w/ Kevin Johnson

+ 1:30 constructed Kevin Johnson

Brad Artson

Gregg Lachow

Jeffrey Vinnik

Jim Rosenfeld for films

the darkroom was a mess!

Jessica Krash
for films

12/2/77 JWM (1745-1830)

Taida called w/ problem - i.e.
the new dec slow motion motor
noise was caught in the
drive gears on the RA wheel.

removed by disconnect drive shaft,
partly cloudy - no hopes of look for comet

12/4/77 JWM Open House (2030-0215)

finally cleaned up (sort of)

Jupiter - pretty good, M31, Jupiter

parted clouds - steady seeing

Orion (repeats) Mars (Jup. & Orion repeats)

M31, Saturn, Moon (closed about 0115)

about 70 people

12/2/77 → 12/3/77 Rex Yung 11:45pm → 5:15am photograph the moon
Jupiter

12/3/77 JWM (1530-1700)

addendum to 12/2/77

lost night discovered:

- 1) Nikon's mirror had been cracked
- 2) Nikon cable release destroyed
- 3) Miranda Camera jammed

Steve Month reports that he saw the dome open at ~8pm Thursday (12/1) - no log entry appears? Why?

12/4/77 Tania Huber (1700-1830)

took plate of comet ^(1977m) according to Sky + Telescope coordinates. Could not locate it visually. No chemicals so did not develop plate.

12/4/77

7145-8145

Harry Ferguson

Observed FG Sge 9.2

12/4/77 JWM (1930-2140, 2200-2215)

loaded film cassettes (10 Trix, 5 Plus X)
worked by Kevin Johnson (A-8)

Viewed Algol & surrounding stars - Kevin Johnson (20:00-22:40)

12/5 200-400

STEVE MONTH

SATURN PICTURES

& CLEANED UP

12/7 1700-1830

Tanica Huber Comet 1977m 1 plate.

High turbulence + comet very low above dome.

Sky + Telescope coordinates

12/7 1930-2030

Barry Wald. Sighted Vega. Attempted
to sight M13, M31, without success.

9:00 11:45 Dan Kuley
photograph M-42

12/8 - STEVE

12/7/77 JWM (~~2300~~ off afternoon)

worked on darkroom, mixer near D19
helped Tama Huber 5-6pm

+1 ~~telephoto~~ hour on telescope

+1 TH Dunkley for pics

+1 Nancy Pfitter 2 pictures

+2 ³⁰ Brian Galvin, 11, 12 repeated
looked at tel:

over & return

12/7/77 STEVE MONTH

1-2:45

SEEING

WAS NO GOOD

12-8-77 Rex Viny 3:20 am → 6:30 am (Yawn!)
(Dawn!)

~~Big~~ Morning

~~None~~ Much air turbulence

! eod!

12/8/77 JWM (2100 - 2240)

instructed Kevin Johnson on

³⁰ cameras (+ chose some asteroids)

thin clouds - observing impossible

Jan 12/8/77

12/2 STEVE MONTH
- TOO CLOUDY

+ 1 hr 12/10 TANIA HUBER + JWM
TOO CLOUDY ON HORIZON

12/10/77 JWM (1930-0410) Open House
Jupiter, Orion, (Rigel), M31, h + X Per

12/10 Kevin Johnson (2400-0400)
repeats (M31, M43, Jupiter)
Open house at local OOSE
(~~50~~ people)

Kevin - plate of Cass region for
2 variable stars - developed
immediately - came out well.

DEC slow doesn't work
Kin Lucas (0130-0445)
Pictures of h + X Per.

12/11 1700h - 1800h Tania Huber
1 plate of comet 1977M way down
on sky - $30^{\circ}50'$ Dec. 3 min exposure.
sky clear but lots of light from city.

12/11/77 JWM (1815-1950)

updated instruction list, worked on Dec star motor

K. Johnson at 1840 to do variable star plate

RM 6 Q. 5 min Cass

Star pad, very fresh

12/11/77 JWM (0010 - 0110)

Kevin Johnson (A-8) helped get him started (JWM)

Ken Lucero (0040 - 1:00) Daniel Shepard

looked for M1

M33

filmed M81

looked at Saturn

12/13/77 JWM +3

12/15/77

Fri. M Rozzoff 6:30

took roll of new quartz moon with plus x

was jumpy in and out a little also developed roll

12-15-77 @ 8:10 → 12:10 pm

~~Star~~ Mooning again

4-1/2 hours 2 decent conditions till
close to horizon ↓

12/15 - STEVE MONTH-
12:00 AM - 1:30
SEEING - ROTTED
TOOK 3 ROLLS
MANS, SATURN
JUPITER

12/16 10:00-10:50, checked plates & compared
to SAO chart. Plate RM70 looks like it
is 12 hrs. off as far as I can tell John.
What a drag!! I guess we'll just have to
try a little harder after vacation. Merry
Christmas!!

Kevin Johnson

3 Jan 78 New Year

opened 7 pm closed 7:35 pm

looked at M42 and Jupiter.

B. Carvey

1/3/78 JWM (1950 - 2115)

Dan Kiley
Set up to photograph M.
got too cloudy
left at 11:15

1/4/78 5152.5 = 2146.5 Looked for M1 Declination
relay blew out at 11:55.

Henry Ferguson

Brian Galvin

Ed Manning

Reset circuit breaker & closed up
after trying to find it.

1/7/78 P. Duffy General Cleanup &
maintenance.

1/8/78 JWM (1410 - 1540)

helping Jessica Krash (A-8) w/ printing
x:30 (Duffy - the place looks really nice.)
made instruction sheets for printing
and posted on darkroom walls.

1/10/78 Kevin W. Johnson 17:25 - Too cloudy for plates.
13:30 - 3:30 - Plates of Cass Constellation; stars
RZ & SU. Plate didn't come out well because the clock drive ran
telescope into ladder & messed up photography.

+1 1/11/78 P. Duffy & J. Mackenzey (1915-2045)
Sec. Sci 107 observing

Building superintendence has
closed facility due to "wind
damage to dome." We looked
outside, but didn't see any.
Everything looks OK & was working
fine last night. It hasn't been
that windy since then.

1/12/78 Jim Rosefeld 7:30
took role of 1st quarter of moon.
Was quite busy. Hopefully I was able to satisfactorily
get the "patchwork" shots that I was after. Need a 3rd
quarter shot, but time is gone. Have to put the atlas together
as best I can.

1/12/78 P. Duffy
Sec. 21, 107,
ONE student!

1/12/78 Kevin Johnson - 17:15 - Sky is hazy, hopefully it will
clear up. 23:00 - Didn't clear. Oh well, that's the breaks.

1/15 Adam @ 2115

Mars - seems v. sad

Saturn

h, X Perseus: Same - for Mars
moonlight, too much
turbulence
out of 2215

File cabinet found open!

1/16 Ken Lucero - sky bright
looked for M34, 33, 1, 37
no luck → too bright
(0230-0215)

1/16 7:10 PM dome opened Alan Peaceme
open house for SocSci 107. No one
showed but the section leader. Sky
was pretty bright, but we looked
around anyway. Dome closed 9:45 PM

1/18/78 JWM - (1600) dropped by to
check mess. + add hours

1/18/78

1/21/78 P. Duffy

routine inspection
who cleaned up?

1/29 Joe Izer Mars Jupiter Saturn
2100 M42 - Pretty bad - hazy
-2300 & very turbulent.

1/31/78 JUM (1530-1700)
worked on crosshairs

**2/2/78 MICHAEL BROWN (HARVARD)
GEORGE TREMBERGER JR.
(SUNY STONY BROOK)**

**LOOKED AT JUPITER
IMMEDIATELY CLOSED UP!**

2/3/78 Open House & JUM (1830-0030)
Jupiter, Orion, Saturn (rather bad sees - very turbulent)
Mars, M31, many repeats
at one point > 40 people on line
about 100 total - lousy views
enthus crowd

2/4/78 0200

L.T. Bird and
guest Mordk Chassey

viewed Jupiter + 4 moons

out at 0230

Scope looks really good since its paint job!

2/4/78 1:30 PM Phil Kohn

looked at down town Boston, looked at
~~down town~~ photographic equipment

out - 2:30 PM

2/4/78 J. DUFFY
S. MONTH

open house 7 PM to 11 PM

saw M45, Jupiter, Saturn, M42, M31,
M35, M44, M33

2/8/78 H.C. Ferguson

7:30

borrowed Mounta to use on 9"
at CFA

Camera Adapters

2/8 JUN (1980 - 2110)

2/8 23:50 - 24:35

looked at Saturn, Mars, Jupiter
Photographed Saturn, Mars, Jupiter with
High Contrast Copy film and 2.5 mm eyepiece

Returned adaptors

~~2-2/89~~

8:00 - 9:30 Phil Kohn

cloudy -
tried M31

6	40
5	53
<hr/>	
1	47
	40
<hr/>	
2	27

2/9

10:20

Britain G. Linn
Observed Mars, Jupiter, Saturn,
Orion Nebula, and
Prayon. Showed these
objects to four visitors.

7

2/19/78 JWM (1845-0130) checked out
Belinda Martin on
for real list
7:30 Open House w/ Steve
Saturn, Moon, Jupiter, Mars, M35, Orion
about 70-80 people - rather poor seeing
very cold outside

10 Adm (0130-0230)
Jupiter, Saturn, looked for M3-CV.

2/11/78 JWM (1600-1610) changed tape message
OPEN HOUSE & JWM (1845-0015)
w/ Amise!
(Moon, Jupiter, Orion, Saturn, Mars)
about 70 people
clouded up around 23:45

2/12/78 P. Duffly fixed rolling stairs, cleaned up.
Thanks for cleaning darkroom,
whoever did it.

2/14/78 JWM (1940-2210)
instruction for list - 10 people
W3-3634 stayed for extra hour to hear
about cool systems

2/15/78 JWM (1950 - 2130)

Astro 10 + 14 intro meeting

2/16/78

2/16/78 JWM (1900 - 22⁴⁵~~15~~)

+120 checked out B. Lurie, N. Kittredge
Moon, Orion
9 people for 1st lesson

2/17/78 2. A.M. Arthur Goldberg +
Lois Imber. Saturn + Mars. Blah.
Good-by M.T. ...

2/19/78 STEVE
TAUGHT PAUL[?] (ASTRO 10)
(1800 - 2000)
LEARNED TELESCOPE
PUT HIS NAME ON LIST.

2/19/78 Hi Steve

I looked at the moon, Jupiter and Saturn.
Was a little too heavy and bright so the
picture came in and out.

2/20 STEVE
DAUGHTER/ICE RE ESCAPE
PUT ON LIST
1800 - 1920:

2/20 P. Doty Instruction Class

taught:

Elizabeth Kogley
Willis Emmons
Robin Mary Gillespie
Pete Engel
Ben Searof

2/21 JWM (1930 - 2015)

checking out people for lost

looked at Moore.

tacked carpet back onto base
of pier.

2/22 JWM (2000 - 2430)

+30

instructed A10-14 students + Computer (1hr)

2/23/78 JWM (1840 - 0030)

checking people out for lost

2/23/78 M. R. Fisher - individual testing for
telescope 10:40 -

★ checking out people

note: RA clamp loose, needs
adjustment

2/24/78 P. Duffin Fixed R.A. clamp

Thanks Phil, JWM

2/24/78 JWM (1930 - 0040)

+45

Open house Mar, Jup, Sat, Moon

a little hazy

$\delta = +14.2$ $\alpha = 19^h 40^m$ Saturn

clouded up for about 30 min
could not see Saturn

cleared in time for 10pm oval
partly cloudy, rest of evening

closed down 0030 - about 50-60 people

note: noises from dome ground
more ominous; especially:

1) rotation w/ door to WNW

2) lowering door w/ bot piece, pushes
for first 15 feet - lots of noise.

2/25 P. STEKLER telescope
1:00 AM - 1:30 AM

2/26 Phil Duffy & Val Slayton

~~2/27 M Bernstein~~

2/27 P. Duffy & Robin Gillespie
(7:30) Instruction

P. Duffy & Mark Segal
(8:00) Instruction, saw M42, 7.

P. Duffy & Willis Emmons
(9:30) Instruction

The seeing is very good.
Jupiter is beautiful.

Ben Groszof, Walter Hebane, Marshall Kirk
10-11:40 certification; viewing Jupiter, Mars,
M1 - couldn't. Mystery object - planet-like,
at 13^h 31^m ← 55½° (adjusted δ = R.A.)

228 M. Bernstein (00:57) - (01:54)

7:00 - 9:30

2/28 Amiel + Steve

Showed some "frenels" some objects

① SATURN

② ORION WEBB

③ JUPITER fantastic detail on planet surface also happened to look at end of eclipse of one of the moons. (I could see 5 bands)

5 4 3

1 3 6

4 0 7

④ M38

MONTY MARRIA
& FRIENDS

2/28 P. Duffy & P. Engel.

2/28 JWM (2340 - 0015)

+ 1 hr

2/28 Theo MELAS-KYRIAZI Astro 14

10⁴⁵ - 12¹⁵