

11/2 Arthur Goldberg 6:30-8:30 5 people.
Inducted Neil Tyson. Removed
1/4" eyepiece" holder, to allow
use of wide angle. (old Fesker)
eyepiece.

Moons - there's clouds. ~~is.~~
To put in eyepiece use chrome ring
Don't press radio on-off switch too hard!

Harry Ferguson Nova Vul. 1976 5.8 9:16
Please don't use the phone recorder
as a tape player!

11/4 6:30 - 7:15
Harry Ferguson Nova Vulpeculae 1976
6:52 8^m2

11/5 7:25 - 9:30
Harry Ferguson Nova Vul. 1976
8:00 8^m5
Two visitors saw Moon, Jupiter.

11/3/76 Phil Doffy Here for Astro 8 & W.S. 9
Open 7:20 Hazy (very)
Closed 9:00 very hazy

11/6/1976 Alain Pater showed telescope to friend
around 11-12 AM local time

Addendum to entry of Oct 26 Dr. Marsden says
Steve O'Meara also observed θ , Ori. A with the
telescope on Garden St. and got negative results.
Period of θ , presently a matter for conjecture.

Note from Harry Ferguson: I think Peter Collins observed an eclipse after 3:00 AM.

11/8/76

Sten Odenwald, with student from NA Sci 9.
Venus was AN interesting object at 5 PM
but only to the degree that it demonstrates
the action of meteorological turbulence.
Returned at 6 without student to
see if seeing had improved. EXAMINED
Jupiter for 10 min after dome
equalized. While standing near
the domes entrance to remove
cap, I spotted a UFO which
streaked through pegasus and cass
on a very erratic trajectory. Its
angular velocity was estimated at
45°/sec. Probably an erratic meteor from
orionid stream.

11/8/76 Harry Ferguson 7:15 - 10:55

Mira Val 1976

7:35 8.1

7:59 8.1

8:15 8.1

Photographed with 35 mm on finder (out of focus)
with Plus-x to look for fluctuations of short duration.

11/9/76 - Steve Odenwald
Observed Venus, Jupiter ~ 6: PM
Clouded out by 7 PM

11/10/76 Harry Ferguson

6:00 -

Mira Val 1976 7:11 7.9

7:45 7.9

Ring nebula, E Lyrae

Alan Peacemen - Open House 7:30 - 9:30
no one showed up!
too much snow
Good Hot Coffee, though
Home Closed 9:30

11/11/76
12.

Neil D. Tyson

1:45 AM → 2:45 AM.

couldn't sleep so I came in to get
more acquainted with the telescope.

SAW SATURN, PLEIDES, JUPITER, SIRIUS.

Became familiar with operations of camera.

Objects were a little fuzzy

from small sky haze, else observations OK.

11/11/76 Harry Ferguson 6:00 - 9:00

Nova Vul 6:20 7.8

Photographed Nova, Jupiter Prime focus and
eyepiece projection.

11-11. Jeff Potash Astro 8 8:45 - 9:20
Rich Rowley

Saturn, Moon, Nova.

11/12/76 Neil D. Tyson 1:20^{AM} → 2:40 AM

Brought friend - SAW SATURN

JUPITER - Pesses double cluster, Moon (waning Gib)

GOT A LITTLE HAZY. BY 2:00



Dome Opened 7:45
Open House - Alan Peaceman
24 guests
Jupiter, Pleiades, Andromeda
& Cassiopeia
Dome closed 11: PM

Arthur Goldberg open house
Open 8:30 Closed 11:45
~~2:15 - 9:45 =~~
2^h 15^m - 0^h 40^m = 1^h 35^m
18 visitors
Excellent seeing.

14 Nov 76 open 0100 hrs Peter Minkler
2 visitors Moon

11/14 Sten Odenwald + NAT Sci, 9 student
working on observing project:
5 PM - 7 PM

11/14 7:00 - 7:35 Hazy - Cloudy
Nova Vul. 7.9 7:20

11/15/76

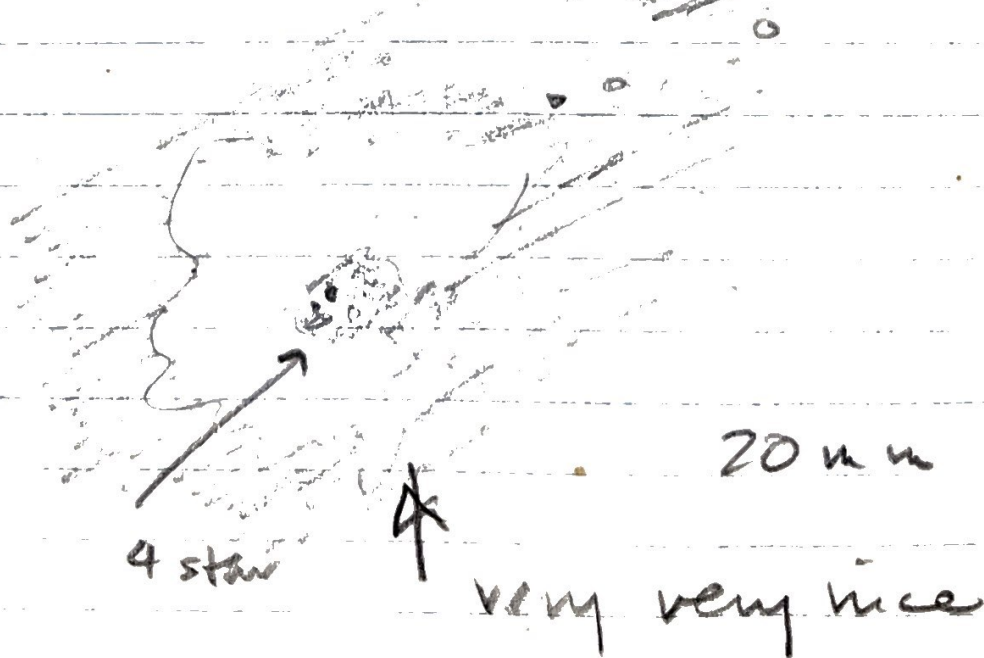
11:25 EST

Gloria Wu, John Toury
Herbert Hui, Snobca Kekakula

Jupiter & its 4 moons
abit easy seeing

M42

very striking 20mm eyepiece
The nebula looks slightly greenish
but 4 stars inside are so clear,
Cuz some atmospheric haze, slight
probably because Cambridge
weather. Very beautiful.



Closed up 12:50 EST

11/16/76 6:30 - 10:15

Harry Ferguson

Nova Vul. 7:40 7.8

Arthur Goldberg 7:00

2 visitors

11/17/76 6:30 - 7:05

Harry Ferguson

Nova Vul. 6:50 7.4

NOTE: R.A. Stuck (Again!)

11/17/76 9 - 10

LARRY S. LIEBOVITCH

R.A. STILL STUCK!

11/18/76 11:00 A.M. R.A. FIXED A. GOLDBERG.

11/18/76 6:30 - 7:00 partly cloudy

Nova Vul 6:49 7.7

11/18/76 Dome Opened 7:00 for Astro 8 & U.S. 9
Phil Dufly Seeing is horrendous!

11/19/74 Open House
9-11 Cleared up by 9 PM

Alan Peaceman
9 guests Jupiter, Nova, Pleides
Dome Closed 11 PM

11/20

| | R.A. | Dec. |
|------------|-----------------------|--------------|
| Aldebaran. | $4^h 32^m$ | +16.5 |
| Hyades | 345 | 24.0 |
| | <u>47^m</u> | <u>-7.5°</u> |

7662 $4^h 23^m 23.5$ $42.14'$
040.0

Arthur Goldberg $1^h 16^m 5$

6:15 - 11:45 \sim 25 people.

\$35^{mm} Tri-X Jup 18^{mm} inside
1/20, 1/60, X, 1/30, 1/8, ~1 sec

1/2 12:15 AM
OPENHOUSE ALAN PERKEMAN

2 Guests

Saw Jupiter }
Saturn } seeing
good
but light caused
air from inside
heat waves

D.C. 1:30 AM James Powell

Arthur Goldberg 4:45 - 5:20

Venus EFL = $(\frac{50}{9} - 1) 15 \sim 75$

9 mm inside.

Venus ($\frac{1}{2}$) $\frac{1}{8}$, moved $\frac{1}{15}$ + various others

Sign. 10 sec to $\frac{1}{8}$ sec.

PLS X

Jerry Poter 5:30 - 6:45

One plate taken of Nova (Astro 8 print) ^{6:00}

One naked eye.

11/2 7:20-4:10

seeing - 100%

Harry Ferguson

Nov 11 1975

7:40

8.3

Used star spectroscopy on Sirius and other stars.

11-22 0830 -

John W. Mackenty

+ 2 others

looked at Jup for 2nd visit (5-6 bands visible)

Then: Orion Neb photo's TRI-X ASA 1200/400

5, 10, 20, 40, 60, 90, 120, ~~180~~, 240 sec

w/eyeprism projection

→ Please Note: this eyeprism holder (w/o bolt)
is highly unsatisfactory - required use of
diagonal mirror to hold Nikkormat w/o falling.

11-22 8:15-11:15

John F. Stark

Took a plate of 5k Pleides. P₁ & P₂ were
one and the same.

Need to test plate & print with film.

11-24 (Thanksgiving eve) Owen Gingerich
& 4 friends. Jupiter, Pleides.

Seeing: poor, but night quite clear.
Probably "chimney" problems with dome.

11/27 Arthur Goldberg and family (3 people)
Jup, Pleiades, Orion nebula, Moon.

11/30
11/30 7:30 Arthur Who left the dome open?! Instructed John Gorkovson

Sten Odenwald; NAT Sci, 9 student - class project - photo of M42, and search for Asteroid Vesta - mag +6.3

Dome left open for ventilation from 1800h on. We experienced problems with IAO plates, evidently the box containing about 4 plates has been opened to light.

New box opened and fresh plate used for 5 min photo of M42 - good images, no new problems. The suspect box with bad plates is marked in fridge

- Bad to leave dome open, someone else may want

12/1 Harry Ferguson 5:45 - to use it and wait know if they can.
Venus
Nova Vul 6:14 8.5
Rain comes suddenly in Boston.

ARTHUR GOLDBERG ASTRO 8 15 FOLKS
7:30 - 9:00. TAKEN OVER BY LARRY
SLIERWITCH Then talk - by 8 - 9 1/2 PM

Greg Farrell NS 9 project
plate of Vesta (hopefully) 9:30 - 10:30
Some clouds forced me to leave.

12/3/76 P. Duthy & A. Goldberg
Open house: 6:45 - 10:00
very cold
~~most~~ never seen such poor seeing!
clarity 10 PM

12/5/76 Meryl Justh NS 2 project
Observe moons of Jupiter 7:30 - 8:20

Leaving scope uncapped, will return
9:00 to continue observation

To the next person here - what is magnification
on lens now in place?

8:55 - back again
9:10 - out

GREG FARRELL NS9 proj: ASTEROIDS
931 - Meryl → I don't recognize lens!

1:00 AM - Meryl photo. log out what observation

3:17 Greg Farrell - out
took 5 plates between
10:00 pm & 3:00 AM DEC 5-6

12/6/76 Jean Turner and Ross Cohen

Arthur 12/7

7:00 - 8:00 Instructed.

Ed Hayworth, Robert Sullivan, Dorothy
Walkers.

Dec 8 1976 Alain ~~Porter~~ and Ross
Lipman Photographed M42
UT 4:00 - 6:00

Seeing awful

THE PADDLEBOARD IS STILL LOOSE
We know, a complete replacement
is on the way.

Dec. 9 5:00³⁰ Jeff Petak attempted to photograph M42.

Please Turn off the dome when you
leave!!!

12/9/76 P. Duffly
for Astro 8 opened 7:30
Heavy seeing - very cold

11/4 - Mery Justin closed up. 8:31 83

DID ANYONE USE THE TELESCOPE,
AFTER MERYL, LATE THURSDAY
PM 11:00?

12/10/76
Greg Farrell NS 9
Venus unclear w 25mm

12-10-76

Jeff Poter
500x picture of Mars at 19²⁰

For paddle bracket clamp does not lock
telescope.

Arthur Opened for Observing 6:30 12/10/76

No visitors by 8:00!

Played around.

H VII 42 Cassiopeiae +58.03 01 06.0

Circles read +58 30 01 41.

H IV 18 Andromedae +42 12 23 23.4

Try +42 39 23 58 4

Nope, too foggy I suppose.

Y Arietis 19 03 01 50.4

No go, only Jup. exists

Zodiac 51 1/2" x 1 1/2" x 2 1/2" Piece on ladder back.

Cancer 1 Mira. R Piscium 02 37 01 28.1

Leo 2 Closed up. 9:00. pm. Only 1 guest

Virgo 3

Libra 4

Scorpi^{us} 5

Sagittarius 6

Capricorn 7

Aquarius 8

Pisces 9

Aries 10

Taurus 11

Gemini 12

Arthur - I think I did leave the scope
on - had to make slight adjustment to get
finder scope lens cap on right before I left &
probably opened it up again, after closing it once.
So sorry. O.K. no damage done.

Meryl

11:10 - In to look at moons of Jupiter
had trouble with the ringnet holds
camera - couldn't get it to stay on target, even
when I jigged it a little as Phil suggested. How?

12:30 - Sign out - only got drawings

12/11/76 P. Dolly Open/Close 8:00 - (11:00)

John W. MacKenty 23:10 - 0240

just looking w/ Robert Homer

Alain Paten 23:30 - 2:30

took 2 photographs of Orion area in
preparation for asteroid program

MARK LIPSON / JOHN BOBT

9:45

COLLUMD.

Examined Jupiter w/ moons

Problems with R.A. Cook

Phil 2706

Arthur 12/14 7:00 P.M. Found
Handle broken on paddle board,
did amateur tape job. R.A. in
bad shape Instructed W. Hoover.

8:40 Greg Farrell NS 9 project (Vesta)
Good Slide: Showed some people K Gem.
+ Jup + M42

10:10
10:00-11:45 Alain Pater, worked in darkroom,
1 exposure of a Orionis

12/15 8:00-10:30 - Jan Witek - Astro & observers

Pleides, Jupiter,

M.Justin - taking photos of Jupiter's moon ↑ Jan forget to
sign - Clouds clearing up, seeing better than early evening
which was impossible

~~At~~

12/17 Maryl Justin 8:00 Very cloudy, only
can see Jupiter - Hope I can get pictures.
Shot 2 rolls film
11:30 - paper out

12/18 Maryl Justin 8:00 Cold clear
be back soon
Sign out 10:00
12:00 - good seeing & photos

RECHARGE FLASHLIGHT BATTERIES
HAPPY CHANUKA, MERRY CHRISTMAS - HAPPY NEW YEAR.

Dec 21 Greg Farnell + Cliff Pulis NS9
9:00 pm
took plates of Jup, Vesta, M42

12 mid. check out CAP?

A. Goldberg + P. Duffy. 12/22/76

Calculate S.T.

~~S.T. at Oh U.T. 12/22/76 $6^h 02^m 42^s$~~

~~1:20 EST =~~

~~4:20 p.m. EST = 6:20 a.m. U.T.~~

S.T. 1:25 pm EST 12/22/76

= $6:25$ U.T. 12/22

ST = $6^h 02^m 42^s + 6^h 25^m + 1^m$

= $12^h 28^m 42^s$

ST. Cambridge = $12^h 28^m 42^s - 444^m 31^s$
444 31

ST 1:25 pm 12/22 = $7^h 44^m 11^s$

W Dec 24 12:00 NOON - 12:50
Greg Farrell NS 9

picked up my slides } found them
up here, TNX for covers fr. Observatory

JAN 3 4:35
Dorothy Watkins

JAN 4 ARTHUR

Instructed: ABRAHAM MORGENTHAUER
SHEILA CHAPMAN
RHONDA SIMPSON
RUBY HOLLOWAY

JAN 6 4:35

Dorothy Watkins

JAN 6 7:45 - 10:00 INSTRUCTED
RON WENDEL PAUL COTRAN
DOROTHY ON CAMERA.

JAN 8 7:10 Rhonda Simpson & Ruby Holloway

JAN 8 8:00. Win Hoover came up to
look at Jupiter + satellites

Jan 8 @ 100 Dorothy Watkins
to 10:00 Looked at Jupiter
10:00 - out w/ Hoover

10/9/77 P. Duffy A. Peaceman
Electrical Problems open house 10 visitors
1) Short circuit in control puddle 20°F
2) Short circuit in 4 prong socket on wall

DO NOT USE TELESCOPE
UNTIL THESE PROBLEMS ARE
FIXED!!

Jan 11, 1977

5:30 Dorothy Watkins
Supt EM

6:30 R. Holloway & R. Simpson
- Jupiter

January 11, 1977 w/ Hoover - Jupiter

JAN 11 ARTHUR 6-10
20 STUDENTS @ N.S.I

JAN 11 Abraham Morgenthaler

Eclipse of Jupiter's satellite 10:00

Jan 11 - Win Hoover left at 11:30
made plate of Jupiter and satellite
Unfortunately it is perfectly dead - no
exposure - perhaps I put it in backwards?
left it hanging in rack.

January 12. ARTHUR 7-10

REPAIRED FALLING PLATE HOLDER
AND LOOSE R.A. CLAMP (PARTLY)
MIXED CHEMICALS.

Jan 12 Dorothy

Jan 12

8:20 to plate

10:00

8:00 Win Hoover Jupiter

~~10~~

12:00 R Simpson after following

3:00 out. Jupiter

JAN 12 11:20 A. Morgenthal

Trying to catch an eclipse
of Jupiter's moons again!

LEFT AT 2:15 A.M. Attend to P. Cotran - Jupiter

Jan. 12 5:37 Showing the telescope to
a guest,

to Neil Tyson

Jan 13 6:20 Dorothy Watkins
6:40 Jupiter

1:30 P. Simpson & Robert King
Jupiter

10:00 Attend Jupiter
P. Cotran

Jan 15 7:55 Dorothy Watkins
Attempt to look at Jupiter
Attend same

Jan 15 John Mackenty 2120
slit inoperative, not even a sound.
dome rotation works normally.

Jan 15 Win Hoover 2345
slit fine. Look at Jupiter - late photo
w/ Fass camera

→ slit works but ... there was
but a short in the wire leading to
the plug - sparks come out and motor
stops - seems rather dangerous!
I placed the wire over the socket

Jan 15/16 0100-0130 John W. Mackenty
wires were loose in plug for slit,
have been repaired by me.

Re placement of plug strongly recommended.
Possibility of dangerous shorts + consequent
shocks still remains.

Win Howes out 1:25

Arthur delivers the New
1977 Ephemeris. 1-18

Jan 18 Ron Hendel - cloudy
P Cotran but visible (Jupiter)

JAN 19 P Cotran, check on Ganymede occultation
7.15

Jan 20 ~~RHend~~ - just looking

Jan 22 John W. Mackenty
1840-1920 Bad Seeing, had
hoped for pics, Trapezium in Orion
barely (at times) resolvable.

5 um

Jan 22 9-10³⁰
off track Jupiter & Saturn both ~~seen~~
hazy.

Jan 22 Ron Hendel
Jupiter & Saturn
beautiful

JAN 25 Paul Citar - just having
a nice look.

Astro 10, 14, 111
N.S. 9

Feb. 10 - Eric Feigelson & Dave Latham with
NS9 section. ~~They~~ Looked at spectra
of Sirius, Betelgeuse, & Procyon (?)

Feb 14. A Goldberg.
Orion Nebula, Giant Planets.
Taught Amiel Sternberg

Feb 15 P. Doffy & friends. Saw Views

I'm here to teach, but no one
is here to learn. A. 7-7:30.

~~Fix-eyepiece~~ Fixed eyepiece holder.

Feb 16 NAT Sci 9 7:30-9:30
Nice - Spectroscopy work
Time on Views, Saturn
(Steven Odenwald T.F.)

Feb 17 10:45-11:30 Amiel Sternberg
Saturn Orion Nebula etc.

Feb 18 Open House 28°F
7-11 pm

13 guests
looked at Venus, Jupiter, Saturn
Alan Peaceman - host
I took a speaker wire.

19 Only 5 visitors
Need ads.

Cold. Tape deck gets
hungry, eats Holst.
Motor leaking oil, lens holder
screw needs repair.
Arthur

Hazy - closed at 10:20

22 A. Taught Charlene Cuniffte

22 Jeff Potash & Paul Lewis 78°

Looked at Venus, & Jupiter. Couldn't find Saturn.

Took a roll of Tri-X of the Moon.

Feb 26 Dome Opened 12:40 AM
just curious. Looked at Saturn
Clouds cleared for me. Nice.
Alan Peacens

How about an eyepiece lenscap?

Feb 27 8-9 Arthur
Plenty of people for general
observing, but more clouds
Took ~~to~~ batteries

+
Took for repair

- 1) Eyepiece holder
- 2) Battery case + light for
finder.

Feb 28

J Toung, G Wu.

Viewed Venus, Jupiter Saturn. Usual Cambridge
bumpy sky, but fairly clear. Some good
quick views. What is the matter with
the RA clamp?

2/28 T. Doffy
Instructed Chris Vejlumun & Jim Busutil

2/28 ~~visited~~
Photographed Mars on Trin-X.

3/1 * HAPPY MARCH EVERYONE. *
7:25 AM

Just looked at the catalogue and
did my physics homework. *ofel Tyson*

7: P.M. Telescope class:
Philip Kohny, David Horlby
Anson Wright

AR35
RA^m Dec
M35 6 05.8 +24 21
Jup 3 21.7 +18 09
2 44.1

Arthur.

Glamour planets
Venus at maximum brilliancy.

Arthur: -

3/3/77 Astro 14. students taught:
Robert Tillman ^{Jonathan} ~~John~~ Currier
Hector Taraza Mike Gerring
Larry Bird
Larry S. Liebitch

3/2-3/3 10:00 PM - 1:30 AM
Phil Kohn - looked at Saturn, ...

3/3 6:00 PM - 7:30 PM
Phil Kohn

Venus 1.4 min 60. sec 186,000 mi/sec

186
84

744
14880

15,624

15 million miles

Arthur Goldberg with Monte Merrier's
Bible class. Jupiter, Venus, Moon
and Saturn

3/3/77 P. Duffy. Twilight. Jovetta

3/4/77

6:30 → SUNRISE.

It got cloudy at sunrise.

So I looked at the catalogues, 1977 ephemeris
and maps.

Neil D. Tyson

— 3/4/77.

7:00 → 9:00

~~CL~~

CLOUDED OUT

Neil D. Tyson

3/5/77 P. Duffy. Open House

7:05 - 11:05

3/5/77 Phil Kohn — cloudy night —
looked at moon and Saturn.

12:00 — 2:00

3/8/77 Arthur.

Looked at Venus, Saturn + Jupiter
35^{mm} pros of Saturn + Jup

P. Dofly 3/9/77
came & found telescope pointed at
stars, nobody here, nobody logged in.

BEFORE YOU LEAVE, LOG IN
AND PUT THE TELESCOPE AWAY
PROPERLY!!

Sten Odenskjold + N.S 9 :

I appreciate your concern
but I had intended to log in
at the close of the N.S 9
observing session!

Looked at Jupiter, Saturn, Pleiades

3/9/77 Phil Kohn - cloudy again.
10:00 - 11:30

~~Had~~

3/10/77 Eric Keepehan with Nat Sci 9 - Maria Petruca
& John Fort. Justo; Mr. Basser.
Looked at Saturn - gorgeous. Partly cloudy.

(*) \Rightarrow Cross-hair light seems to spill into field.
if this happens, turn the intensity down! - Phil

3/10/77 - Mike Brown, Joe Keller, Liz, Schied
Saturn - beautiful!

Mar 11 Open House 7 - 11:00 AM

Alan Peaceman $T = 8^{\circ}\text{C}$

23 guests.
Looked at Venus, Jupiter, Saturn

~~20~~

8 37.2

+20 10

529.

3 8.2

1 hr 35 min

4 hr 43 min

Arthur. 3/15 Mixed all new chemicals.
cloudy, no telescope students.

Sten Odenwald 7/16 7:30
Equipment set up for Nat Sci 9
observing session at 9:00 PM

3/16/77 8:15
P. Daffy w/astro 16 people & J. Busutill
took 1 roll Jupiter

3/16 NAT. sci. 9 students, Sten Odenwald
in charge.

3/16/77
P. Daffy, E Feigelson, J. Busutill,
Jwetta & WS 9 folks
took 1 roll of Saturn

3/19/77

Astro photography - took pictures of: Saturn

Neil D. Tyson
D/T

19 March - 12-2 AM

L. J. Bird (Astro 141)

general observing + photography
shot a roll of Saturn.

Taught George Letsou

Arthur Saturn, Jupiter, Pleiades

3/21

3/21 9:30 PM Jo Ann Bijanowski

observing Saturn, whatever else is visible
atmosphere is pretty bright

found M3 11:15 out

Jo Ann: clump telescope before you leave

3/23 P. Doffy & John Crumpler

3/25 Phil Duffly & John Crumpler
cladded at.

| | | |
|--------|--------------------------------|--------------------|
| Saturn | 8 ^h 51 ^m | +18° 38' |
| M44 | 8 ^h 37 | +20° 10' |
| | <u>0^h 14</u> | <u>-1° 45'</u> |
| | | +1° 38' |
| | | 1° 32' |

~~M65~~

| | | |
|--------|-------------------------------------|---------------|
| Saturn | 8 ^h 51 ^m | +18° 38' |
| M65 | 11 ^h 17 ^m | +13° 17' |
| | <u>2^h 26^m</u> | <u>5° 21'</u> |

| | | |
|---------|---------------------------------|---------------|
| Regulus | 10 ^h 06 ^m | 12° 13' |
| M65 | 11 16 | 13° 23' |
| | 1 ^h 10 ^m | <u>1° 10'</u> |

| | | |
|---------|---------------------------------|---------------|
| Acturus | 14 ^h 12 ^m | 19° 00' |
| M3 | 13 40 | 28° 30' |
| | <u>32^m</u> | <u>9° 30'</u> |

Open House 7-11:30
Arthur-

Attempted repair of paddle board. N-S ske mo and Dec clamp. Need José:

John W. Mackenty

3/26 - 3/27

23:50 →

helped Arthur until he + visitors left

also present until 0120 - Bill Poland

looked for M-13

note: error in S setting circle

M-13 is at 36.33 , but tele read $+29.4$

Becky Chaplan

~~3/27~~ -27 / 03:05

couldn't sleep & came to look around.

Douglas Wright ↓

3/27/77 0300

0315

↓
0355

M-13 on Miranda Camera - TRI-X (plane focus)

times 30s, 1^m, 1.5^m, 2^m, ~~1.8^m~~ 3, 5, 10^m

then 10°, 20°, 30°, 45°

ideal condits: seeing very good, almost at zenith

(only about 3°-5° from zenith)

Good merit: 0405

Arthur.

3/28/77.

Repaired paddle board.

Switched S-N slow motions.

Raining.

Taught James Thomas.

Chris Agee

3/28/77

Taught Melissa March

Raining (still)

Jim Thomas

3/30/77

Looked at Jupiter, moon, Orion

March 30 - Nat Sci 9 students -
Sten Odenwald in charge.

Moon, Saturn, ~~Praesepe~~

Praesepe (M-45) Cloud cover
got quite bad.

3/31/77

P.O. 8:00

Janey Rosefield

beautiful Jupiter/4 moons
in western sky

turned over to Arthur Goldberg
8:25

Arthur 8:15 - 9:30

David Herlihy + I photographed
the moon. At 9 it clouded over.

4/1/77

9:30 - 12:30

John Garberson + guest

Spent 2 hours figuring out how to adapt my
Om-1 to the telescope, only to have it cloud over.

-4/2/77

3:00

THOUGHT IT WAS CLEARING
BUT WAS FOOLED.

Jim Thomas

Arthur 3/3/77 9 - 12:45

Lunar eclipse (partial) 9:05 - 1:32

Exp Time 11:19 - maximum

1-6 10:45

11:20

Hazy. Eclipse became visible at 10:30
Photography with Chris Agee.

Other assorted friends came up,
including Anne and friends (Alana) and
David Herlihy.

Eclipse lasted until 12.

4/6/77 John Garberson + guest 11:20

Took many photos of moon. Tried
Saturn too, but was too low! Closed up at 11:15

4-

4/9/77

David Herdby - I took photos
of Saturn, brought several friends
by, 3 visitors came by

4/10/77

Christopher R. Age

2 visitors - room in mess when
we arrived → dean - looked at
Saturn, Apitz

John Mackaty dropped by: 2130 - 2205

4/10 - 4/11

11:00 PM - 1:00 AM

Phil Kohn

Tried to find M13

You left the door unlatched - please
make sure it closes all the way
next time

| | R. A. | DEC. |
|---------|-----------------------------------|---------------------------|
| M 66 | 11 17 ^m .6 | +13° 17 ^m |
| Regulus | <u>10 05^m.7</u> | <u>12° 13^m</u> |
| | 1 ^h 11. ^m 9 | 1° 04 ^m |
| | west | north |

Arthur Goldberg 4/11/77 7-10 p.m.
 Reset Dec circle, but can't clamp tight.
 Instructed: Diana Carpenter
 Phil Tegeler

Left the room with David Herlihy
 { Room was in ~~an~~ a mess, new
 cable release destroyed, since Saturday.

DH left at midnight
 photo Saturn

4/13/77 P. Duffy arrived 1 PM
 and found stereo on.

I'M PISSED!! Please take
 better care of
 this equipment!! [over]

more complaints:

- 1) You left an eyepiece in the scope
- 2) 25^{MM} eyepiece not put away properly

GET IT TOGETHER!!

D.H. 8:30-10:20

photos Saturn - Stan and a student came by for 1/2 hour 9:15 (2)

Arthur 4/14 2 pm. Returned cable release - repaired.

John Campbell, Jim B, & P Duffy
Murray, Jurotta

Left w/ Dave Kelton 11:40

25.85 $\frac{8}{5}$
 $\frac{3}{3}$

12 39.3

4 0

18 151.8
 $\frac{37.2}{3}$
10-14.6

4/15

Open House - Alan
I found the desk little on
PLEASE CARE FOR THE EQUIPMENT,
even if it is just lamps & lights.
Looked at Saturn, Uranus, Beehive
22 guests 51°F - 11°C

4/15-4/16

Philip Kohn 11:00-2:15AM

Saw M13, saturn (for late guests)
looked for M104, no luck.
broke flash light (it fell off the latter)
it still works but the front glass is
shattered - sorry.

4/16/77

P. Doffy 7PM - 11PM
Open House

4/17

Phil Kohn 10:00 - 11:30 PM

~~radio suddenly~~
Radio suddenly stopped
working, so we turned
it off.

4/17 7:10 → 10:30

JOHN CRUMPLER

| | | RA | DEC |
|---------|-----|---------------|----------------|
| Mercury | 219 | - 243 36 | -1858 08 |
| Jupiter | 242 | <u>403 59</u> | <u>2010 42</u> |
| | | 1 20 23 | 1 12 36 |

VIEWS JUPITER, MERCURY!!, PHOTOGRAPHED
MERCURY, SATURN

Jay Segarra

Christopher Ryan

4/18 PHIL TEGGELER

CHECKED OUT SOUTHERN
SKY - COULDN'T FIND MUCH -
NEED PRACTICE OR A
LESSON.

4/17

C. Agee

11:00 pm to observe

and photograph, but all but Saturn
had set —

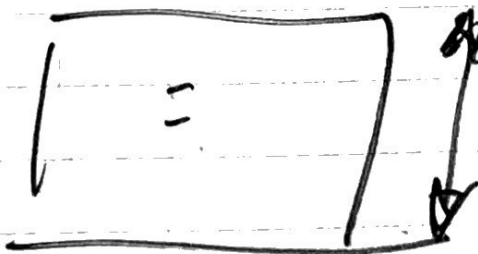
$$A = 15 \left(\frac{50 \text{ mm}}{18} - 1 \right) \approx 33$$

$$A = \frac{8.64}{33} \approx \frac{16}{8} \text{ minutes.}$$

19"

1
1

$\frac{1}{3}$



min

To C. Agee:

When you use the telescope
put the eyepieces away & look
the (in cabinet, & turn off the stereo

FOLLOW LIST OF CLOSING

PROCEDURES POSTED ON

TELESCOPE !!

— P. Dofly 8-2706

4/19/77 - 9:00 - 9:50

JOHN CRUMPLER - VIEWED SATURN
AND MOONS - C. Agee - 9:00 - 11:00

Arthur & Juretta
Plate of Ceres

| | R.A. | DEC |
|--------|-----------------------------------|-----------------------------|
| Uranus | $14^{\text{h}} 32^{\text{m}}$ | $-14^{\circ} 27^{\text{m}}$ |
| Spica | $13^{\text{h}} 24$ | $-19^{\circ} 45$ |
| | $1^{\text{h}} 08^{\text{m}}$ east | $3^{\circ} 42$ south |

9:00 - 12:30 - Juretta Heckscher
with the help of Arthur Goldberg
- Ross Camera, good plate
for NS. 9 project of asteroid
Ceres. Good plate.

4/20/77

C. Agee and Anson Wright -)
7:00 - 8:00

Cloudy!

4/20/77 8:45 - 9:45 J. CRUMPLER
LEARNED ABOUT SETTING
CIRCLES

$$\frac{15 \times 5 \text{ cm}}{2.5} = 1$$

5 30 Venus

4-21

10²⁰ - 1¹⁰

Philip + Rick + Betsy

Took a look at Saturn.

Took a plate of Pearl of Galaxis . 19 mi. exposure.

Took a plate of Big Dipper Handle 4 min.

4/22/77

10:30 h. J. Bird (Astro 14)

+ guests:

Betsy Lepine

Nancy Ashworth

Pam Swan

Jeff Bird

Rick Webster

4/25/77

Arthur

Instructed: Jon Polonsky
Richard Stessel

Cloudy.

4/27/76

David H. visited hoping to
find Jupiter at 9:00
gave up 9:15

A
4/27/77

Jurretta Heckscher came in @ 9:00,
took a plate w/ 12e Ross - it
turned out pretty well.
P.A.) Dec

| | | |
|---------|----------------------------------|----------|
| Acturus | -14 ^h 13 ^m | +19° 27' |
| M 13 | 16 40 | +36 53 |
| | <hr/> | <hr/> |
| | 2 ^h 37 ^m | +17° 06' |

10PM Geo. 12 class w/ P. Dufly, Art,
J. Mackenty & Adam Finkel

| | | |
|-----------------|---------------------------------|--|
| Uranus. | R.A. | Dec |
| Azimech (Spica) | 14 ^h 31 | -14 21 |
| | <u>13^h 23</u> | <u>-10° 54</u> |
| Spica → Uranus | +1 ^h 08 ^m | 3^h 27^m -3° 27 ^m |

Adam Kinkel : 10³⁰-12³⁰
 Moon (esp. Clavius)
 Uranus
 Saturn

unsuccessful hunt for M13
 John W. Mackenty
 2200 → 0030 EDT 4/27-8
 all of above

ANSON - 362B

Arthur 10130
 to 1 am.
 Cleaned eyepieces
 Found Uranus.
 Recorded tape:
 open house 8-12 - 5.00
 ing planets
 tel. box

Arthur + John - Open House 4/29-30
Moon, Saturn, Uranus
about 30+ people

JWM 8 - 12:50 (2000 → 0050)
4/29 4/30

Arthur left dome with John Crumpler at 1:20

JOHN CRUMPLER : 11:30 - 3:00 AM

PHOTOGRAPHED URANUS, LOOKED AT
MOON, SATURN; LOOKED FOR NEPTUNE
BUT WAS UNSUCCESSFUL.

* NOTE - ARTHUR TOOK KEYS, SO I
COULDN'T GET TO THE STEREO TO TURN
IT OFF → SO I UNPLUGGED IT.

~~ALSO~~ - OUTSIDE DOOR WOULD
NOT LOCK ⇒ GOT HELP FROM A
SECURITY POLICEMAN, STILL WOULDN'T
WORK → ?

10PM Geo. 12: John: to lock door, put key in
lock from inside and turn
counter clockwise till it clicks.

J. Mackent In the future CALL ME if
you have any problems!!
Please!

P. Duffy 4/30/77 Open House
fairly cloudy

Saw Jupiter, Moon, Saturn, M45, looked
for M44, but no luck (shit!!)

MAY 1

4/30/77 (31) 4:00 AM
red lights on! Here to find Mercury
and Venus rise. This better
pay off!!

LEFT 5:30

David Aordy

THINK I FOUND URANUS!

5/1/77 - 10:45 - 2:15 JOHN CRUMPLER:
TOOK TWO ROLLS OF SATURN - TRIED
TO FIND URANUS BUT IT HAD BECOME HAZY
AND WAS UNABLE TO DO SO. A FRIEND
CAME UP (GREG SMITH) AT 1:30 AND WE
LOOKED AT THE MOON.

5/2/77 no luck finding planets
right button (RA) control box
gets stuck

4:00 - 5:00

David Jf

Life's Note: R.A. switch sticks. Be sure to push it back after you use it. We'll try to fix it soon.
- P. Duffy

| | RA | Dec |
|---------|--------------------------------|-----------------------|
| Jupiter | 4 ^h 18 ^m | 20° 48.5 ^m |
| Capella | 5 ^h 13 ^m | 45° 57 ^m |

Broken. Art.

May 7, 1977 Open House - John Mackenty & Adam

2000 EDT - the place was a mess,

2045 - Jupiter - not very good

2110 - Saturn - fairly good

2145 - Uranus - shows disk -

✓ 2230 Beehive! (Praesepe) - nice field

2300 Back to Saturn

2330 Back to Uranus } new guests

~35 people - good night!

Adam out @ 0020 hr.

Open house over 1220.

5/7-9/77 JWM - - 0045 (exposed at)

Jurretta Heckler (N.S. 9) -

Took plate of Geres for observing project.

Notes:
RA-lock
jammed -
the solenoid
had come
unscrewed
again

5/7-8/77 Phil Kohn & Chris Sorensen

12:30 - 2:00

looked at M3, M8

~~10~~ 00.7
- 09 51.5

1 09

69° 18 sec

Jim Colberg 1:10-1:20

looking for M81

JWM - OUT 0130

Dec = 28² & 38⁹

| | |
|--------|------|
| 13 | 39.9 |
| 12 | 53.6 |
| <hr/> | |
| + 46.3 | |

5/8/77

C. Azen

~~11/8~~

~~11/3~~

Photographed Xena, Venus

2:30 - 6:00

5-11-77

Jeff Toland

7³⁰ - 12³⁰

Arcturus

19.7°

13²⁷

45^{min}

15°

α Bootes $+19.5^\circ$ $14^h 12^{m}$
~~area~~

T Virgo -13° $14^h 16$
 32.5° 4^{mhr}
then 14° east

or

Arct 19.5° $14^h 12^{m}$
 α Librae 15.5° 14^{48}
T. Virgo.

Looked for Uranus. Tried a plate of the area.
Saturn was beautiful.

Had 5 insights over the course of the evening.

RA locks temporarily.

JAY SEBARRA in 12:30
out 2:00 a.m.

Please: Stow telescope vertically!! - P.D.

MORNING MAY 13 S=10

David Herby
found Venus attempted to fly

Morning May 13

\$100

Tried to find Mars - too light
C. Agee

P. Duffy 5/13/77 NOTICE:

the CONTROL PADDLE and the WALL SOCKET
are both in need of repair. We are aware
of these problems & steps are being taken to ameliorate
them. Meanwhile please treat the paddle
and socket with care! Thanks
Phil

OPEN HOUSE 5/13/77 JWM

- 0945 (Warning, the RA clamp switch sticks,
if left down it may burn out!)
- 2030 Saturn - not bad, a few clouds
- 2045 Jupiter - ~~too~~ not very good
- 2100 Saturn - pretty good w/ 18mm
(lots of people)
- 2315 M-13 - real clear

We had about 70-80 people through
here tonight. Good Night!

OPEN HOUSE CLOSED
0045 - ~~JWM~~
Friends

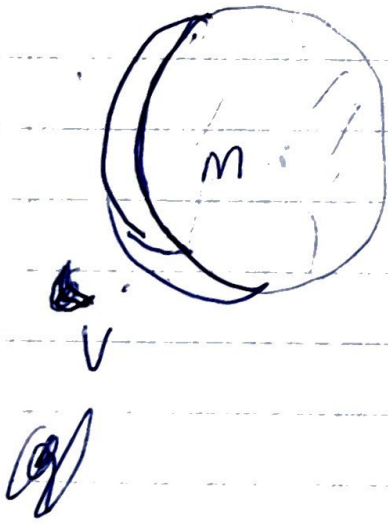
JWM 0100

David Herlihy

came 9:00 left 3:00

observed Uranus

John Galley
SNORE



M

5/14/77 Pibilly 29000002

1144 1113

Uranus Started exp. 15⁴⁵9 David Herlihy
partial focus 15⁴⁵9

30 min. end exposure 1:10

Anthony 1:10^S - 1:13^E 3 min. exposure

David 1:15 - 1:18 3 min. exposure

One Minute Exposures: 2

David - 1:19 - 1:20 a.m. 120 - 121 a.m.

30 second exposures: 2 123 - 124

15 sec / 2 exp.

10 sec / 2 exp

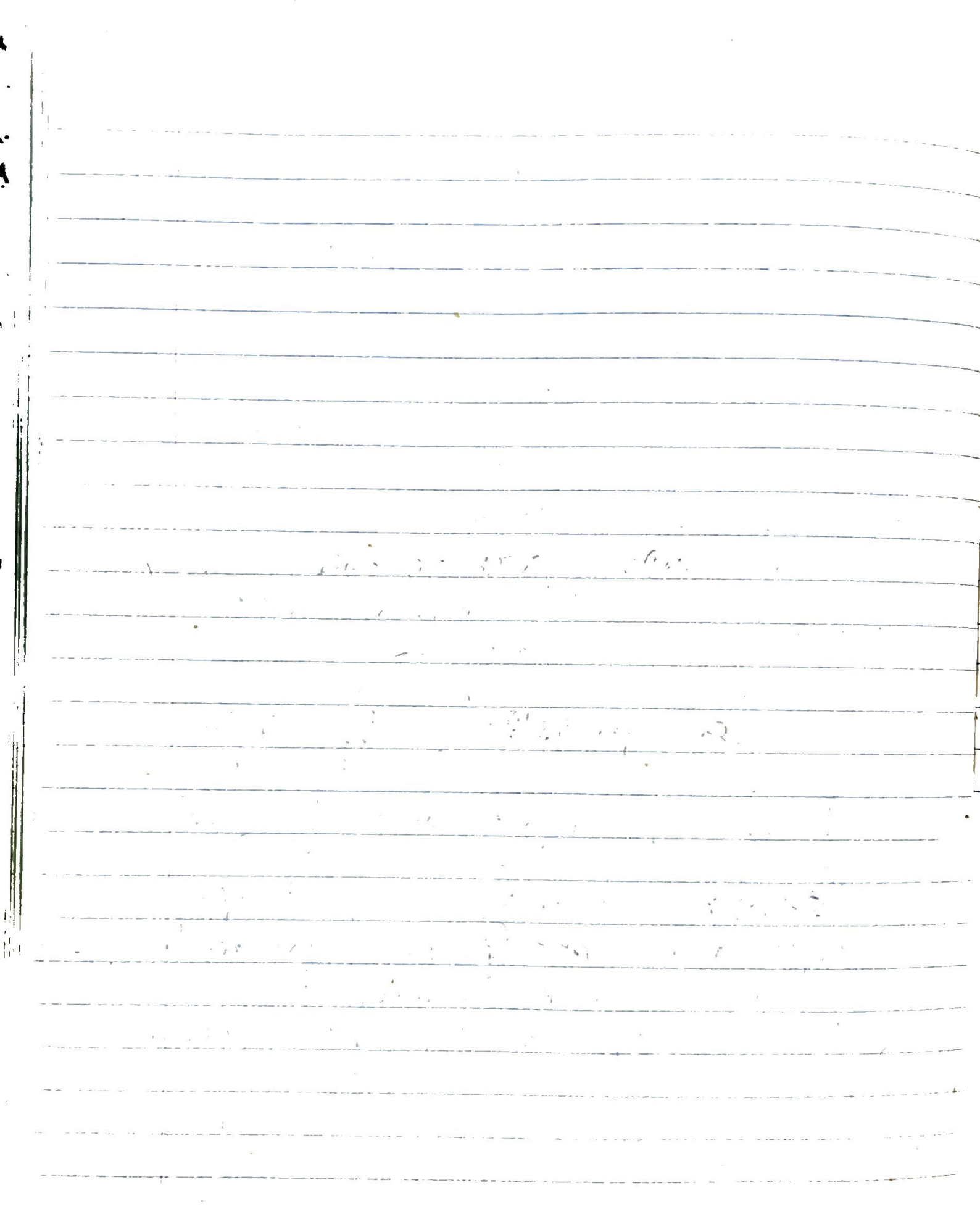
5 / sec / 2.

2 / 2 sec.

David: You left the file cabinet unlocked
You didn't clean up the coffee you spilled
on the desk. You forgot to put the lenscap
back on the ~~finder~~ Ross camera.
Please: CLEAN UP BEFORE YOU LEAVE and

FOLLOW THE LIST OF CLOSING PROCEDURES
POSTED ON THE DOOR

-Phi



5/15 C. Agee

8:00 — 12:00

Tried to find Jupiter - no luck.
Photos of Saturn —

5/16 5:15 a.m. Venus
half-moon shape


)

5/16 2:00 - Adam - checked in for 1 hr -
helped photographers to Saturn
out at 2:30

| | | |
|--------|--------------------|---|
| Spica | R.A. $13^h 22.6^m$ | dec: $-10^{\circ} 54'$ (11 $^{\circ}$) |
| Uranus | RA $14^h 27.3^m$ | dec: $-14^{\circ} 06'$ |
| | $\sim 55^m$ | $3^{\circ} 12'$ |

Log DATE

5-16-77

Lincoln — Sherman — photos of Saturn → 

CAMERA MIRROR often gets stuck. over and out,

May 17 11:00 AM - 4:30

looked for Neptune

David L

18 MAY '77 D.P. SORENSEN

4.30 — 5.30

VENUS ~~+~~ SUNRISE

~~S~~ STEREO CABINET UNLOCKED, LEFT AS IS (NO KEY.)

17 May 2130 Adam ~~2130~~

Saturn — much haze — not ~~had~~ seen
JUN 2145

| | | |
|----------|---------------------|-------------------------|
| X M13 | $\alpha: 16^h 40^m$ | $\delta: +36^\circ 33'$ |
| ✓ Saturn | $\alpha: 8^h 55^m$ | $\delta: 18^\circ 23'$ |
| | $+7^h 45^m$ | |

| | | |
|----------------|---------------------|-------------------------|
| X M57 | $\alpha: 18^h 52^m$ | $\delta: +32^\circ 58'$ |
| M57 | | |
| | out 2300 | |

2:30 AM - 1:30 AM looked at
Alan Peacema

Arthur Goldberg 5-18-77
Taught Jim Longstaff.

18 May - Jf Bur

Raining like Hell, came up to
study astrophotography pamphlet
11 - 11:50 PM

20 MAY DC SORENSEN 12:10 - 1:10
DOUBLE STARS - ALIOTH, ALCOR ETC.

8:30 PM - 14 03 Alan Peacema

14 26
8 56
5 30

Open House - Saturn,
Uranus, Moon

Only 6 guests
Real Hazy

m
us
be
hin

12:30 AM - 1:30 AM looked at
Alan Peacema
Wranus

Arthur Goldberg 5-18-77
Taught Jim Longstaff.

18 May - Jf Bur

Raining like Hell, came up to
Study astrophotography pamphlet
11 - 11:50 PM

20 MAY DC SORENSEN 12:10 - 1:10
DOUBLE STARS - ALIOTH, ALCOR ETC.

8:30 PM - 14 03
U 14 26
S 8 56
5 30
Alan Peacema
Open House - Saturn,
Wranus, Moon
Only 6 guests
Real Hazy

looked for M104

Alan left about 2230

JWM 2045-2100 dropped in } during Alan's
JWM 2210- } open house 5/20

found M-13 - not very good
rather small - hard to distinguish
individual stars.

clouded up 2340

Closed 2355 JWM

May 21 - Open House

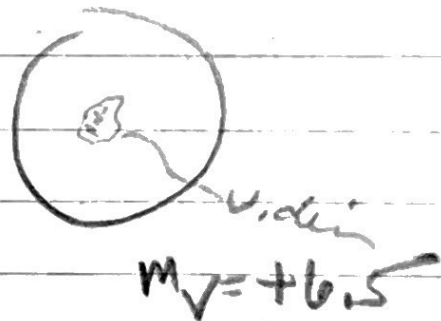
Adam 2130

v. good! Saturn: $\alpha = 8^h 56^m$ $\delta = +18^\circ 19'$
distinctly blue-green Spica: $\alpha = 13^h 22^m$ $\delta = -10^\circ 54'$
2 days old Uranus: $\alpha = 14^h 27^m$ $\delta = -14^\circ 02'$
~30 stars in (MOON) $\alpha \approx 6^h 48^m$ $\delta = +17^\circ 52'$
25 mm field M44 $\alpha \approx 8^h 37^m$ $+19^\circ 52'$
JWM 2230 dropped by until 2315
✓ Arcturus $\alpha = 14^h 13^m$ $\delta = +19^\circ 27'$
M13 $\alpha = 16^h 40^m$ $\delta = +36^\circ 33'$
✗ M57 $\alpha = 18^h 52^m$ $\delta = +32^\circ 58'$
Vega $\alpha = 18^h 35^m$ $\delta = +38^\circ 44'$

20
about ~~10~~ guests total (on drink)
crowd!

~~out at~~

(in Boötes) Arcturus $\alpha = 14^h 15^m$ $\delta = +19^\circ 27'$
M3 (in Canes Venatici) $\alpha = 13^h 40^m$ $\delta = +28^\circ 38'$
Found it - but boring!



Coma cluster
 $\alpha = 12^h 22^m$ $\delta = +26^\circ 24'$

too dim - who am I kidding
out at 0130.

ST

May 22 Aclan: in @ 21³⁰

★ Fixed RA- both spring assembly and
screwoid near dec. wheel - if problem
re-occurs, call me - 8/2367

Moon

Saturn

M13

Uranus

out at 23¹⁵

*

P.S. Stereo cabinet found
open - be careful!

★★

23 May 0300 - Jf Bw

Did some checking around for Saturn
then got some great views of Venus
(now crescent) at sunrise.

Right Ascension clamp seems to be
having some problems (sloppy switching
accompanied by a humming noise)
out at 0515

23 May - 2045 - Adam

✓ Moon - nice waxing crescent
✓ Saturn $\alpha = 8^h 57^m$ $\delta = +19^{\circ} 16'$
✓ Venus $\alpha = 14^h 26^m$ $\delta = -1^{\circ}$

Arcurus

✓ M13 - found it!

Vega $18^h 35^m$ $\delta = 38^{\circ} 44'$
M57 $18^h 52^m$ $\delta = 32^{\circ} 50'$

out at 2300

24 May - Jf Bur 0255
Read astrophotography
pamphlet while waiting for
Venus to rise. Heavy ground
haze and some clouds by
0430. By the time Venus was
in the clear there was far
too much background light for
photography. Lighted sight in
aiming scope not working.
out at 0515

24 MAY

9:20 im Dawn Herby
Looked at the moon. Sky
was somewhat cloudy was not
able to get at the planets.

25 May
Could not figure out how to open top section
of dome as a result viewing M13 was impossible
looked at Prudential B. instead.

Amuel Stenberg

26 May - H.J. Bird

0155

- came up for some casual sightseeing,
but I couldn't uncork the eyepiece, ended
up listening to Mozart and reading "Astronomy"
out at 0304

ARTHUR GOLDBERG

I COME AND I GO.

28 May 1500-1510 JWM

The place was not very neat.

- 1) Please - recharge flashlight batteries.
- 2)? where is the objective cap for
the finder telescope?
- 3) eyepiece cap removed & replaced - empty
35mm film cans work well.

29 May - H.J. Bird

1910

Came up to use Hubble
Atlas. Found the File Cabinet unlocked,
Stereo key removed.

Out at 1940

May 29 2200- JWM

fixed eyepiece projection adapter for
Miranda camera (finally remembered the tools)
scattered clouds - did not bother to ~~use scope~~

May 30

Amuel Stenberg 2100 - 2200

looked at moon, Vega, M-13

Vega - $18^h 36$

JWM 2145 - 2200 dropped by - found M-13

May 30

Adam - 22⁰⁵

(1)

Red light @ dest left on!

(2)

Slit motor left on!!

Uranus, Moon, Lambda Virginis
in same finder field

out @ 23⁰⁰

30-31 May L. J. Bird 2330

Found stereo cabinet locked, but only practically closed, did not find aiming scope objective cover. Viewed moon and took a side of film of terminator features. Only two nights from full, but good contrast in this region.

out at 0145

5/31 P. FEGLER

VIEWS MOON WITH 18" + 6" FOR 10 MINUTES, SHOWED A FRIEND AROUND. MOON IS TOO BRIGHT.

→ ||| THE DOME WOULD NOT
CLOSE — WILL CALL
ARTHUR G. IN MORNING

31 May -
1 June

L. J. Bird 2220

Have to use Hubble Atlas and do other Astro4 reading.

out at 2345

back at 0104

Went to Elsie's, now accompanied by:

Special! small coke, potato chips.

Guests gone by 0115

Finished reading and out at 0335

6/3 JWM 2230 - just dropped by - too many clouds - stereo open → now locked.

6/3 J Toury 11:15 Too many clouds. What is the matter with this telescope? The RA clamp switch was demolished, the telescope couldn't be unclamped in RA. This is too common an occurrence.

6/4 Phil Kohn 10:30-11:00 Some people came (5), but couldn't do much (RA busted).

6/4 2325 JWM - People, please wait for RA unlock sw to be fixed.

6/11 Julie Kohn - I'm here with my 9:30 PM family for my father's 25th reunion and I am very impressed with the telescope. Unfortunately, it is cloudy & raining ... again!

6/11 W. Swirek. Visibility very poor but we believe that we sighted something unusual.

125 1600-1630 Just looking around
O. Kahn

127 10:30-12:30 Arthur
20 students from Don Lovtman's
Astro course.

| | R.A. | Dec |
|------|---------------|----------------|
| Vega | $18^h 35.2^m$ | $38^\circ 44'$ |
| M 13 | $16^h 39.9^m$ | $36^\circ 38'$ |
| | <hr/> | <hr/> |
| | $2^h 55.3^m$ | $2^\circ 11'$ |

South - West

| | R.A. | Dec |
|----------|---------------|----------------|
| Arcturus | $14^h 13.4^m$ | $19^\circ 27'$ |
| M 13 | $16^h 39.9^m$ | $36^\circ 38'$ |
| | <hr/> | <hr/> |
| | $2^h 26.5^m$ | $17^\circ 06'$ |

6/28/77

David Pearson

10: - 10:45

David Shepard

Kenneth Chun

Jessica Krabow Krakow

Sharon Silverstein

Robert Dorman

V.V. Kohlhas, Jr.

Joseph Cannard

Jerry King

Taught these people how to use
the telescope. Arthur.

Michael Wissner

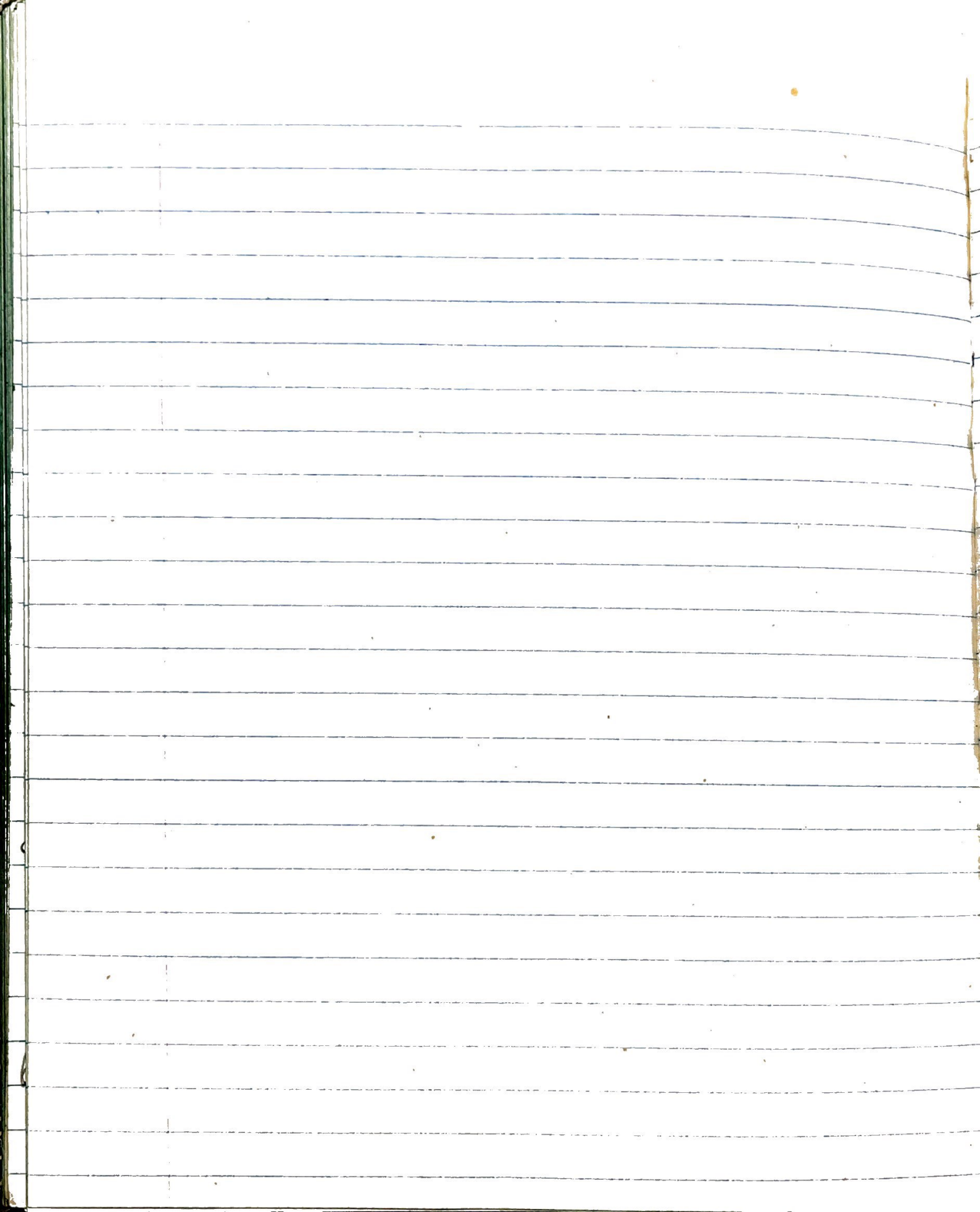
Jim Cypser

Josh Wurman

Karen Fortier

Charles Lewis

~~Charles Lewis~~
6/30/77



35-mm Photography

Quality

| Object | R. A. | Dec | Sky | Exposure | Film Type | ASA | Date | Quality | Observer |
|----------------------------------|---------|---------|---------------|---|-----------|-----|---------|---|--------------------------|
| M 13 | 16h 39m | +33° | Good | 30, 60, 120, 120, 180, 300 secs. | Plus-X | 125 | 7/22/76 | Barely visible on 30s minute shots | Mike Brown Steve York |
| M 57 | 18h 51m | +33° | Good | 30, 60, 120, 180, 300 secs. | " | " | " | Didn't show up | " |
| NGC 869-884 | 02h 17m | +57° | Good | 30, 60, 120, 180, 300 secs. | " | " | " | Good; slight trail on 5 min exp. | " |
| Jupiter | 19° 40' | | Good | 4 4 2 1 2 4 5 7 10 15 20 30 1 2 | " | " | " | | S.I. |
| Moon (2 nd last full) | | | Good | $\frac{1}{125}$ | Plus-X | 125 | 8/11/76 | $\frac{1}{125}$ & $\frac{1}{60}$ are good | Mike Brown |
| Moon (3 rd last full) | | | Smog | $\frac{1}{125}, \frac{1}{60}, \frac{1}{30}, \frac{1}{15}$ | Pan-X | 32 | 8/12/76 | $\frac{1}{30}$ & $\frac{1}{15}$ are good | Mike Brown |
| NGC 6210 | 16h 42' | 25° 54' | Somewhat hazy | 7 ^m , 3 ^m | Plus-X | 125 | 8/20/76 | | Mike Brown |
| M-13 | 16h 40' | 36° 33' | " | 5 ^m , 7 ^m | " | " | " | | " |
| M-31 | 40' | 41° 00' | " | 5 ^m , 7 ^m | " | " | " | | " |

• Ed Freedman 8-6209 physics
Phil Maloney 8-3782