

① JUPITER

② MARS

③ M35

I used the telescope for the first time. Steve Mouth taught me how to use it and how to find the positions of the stars and planets in the sky. He's a great instructor!

3/1/78 12:28 Rafael Caluya 1:15

The moon should be interesting. Saw a mountain range if it can be called that. Interesting jagged formations. Long shadows on craters.

Could not see Jupiter because it had set. A nice clear night.

Stereo unlocked shall report to John.

3/1/78 1:15

3/1/78 JW M (1915 - 2000)

+1:30 Tony Brown - A10 - intro

3/2/78 JWM (1905 - 2045)

checked out for: Hal Ruthizer

Walter Carlini

Shrin Rajopalan

Duffy: Mike Smart though he was  
to meet you at 7:30 not 8:30,  
he couldn't stay and will  
be in touch - probably later tonight.

3/2/78 P. Duffy & Arnold Lehman  
Instruction.

Very odd.

John: Put Arnold Lehman '80  
on list

3/2/78 Paul Stekler

22:00 - 23:00

~~3/2/78 July~~

3/4/78 Alan (again!) in @ 19:50

## OPEN HOUSE

Jupiter <sup>equatorial (5?)</sup> - bands <sup>clearly</sup> visible

M42 - Trapezium somewhat fuzzy

Saturn

Mars

h, X Pers.

Jupiter - transit of J? Jupiter (Europa?)

(globular) M3 in Ctn - not seen...

maybe 30 people total.

out @ 01:15 (5:2h)

3/5/78 P. Doffy & Val Slayton  
Photography of M42

John IS VAL SLAYTON  
on the list?




3/5/78 RAFAEL CABEZA

12:25

Saw Jupiter, air was very turbulent and so the ~~stripes~~ <sup>stripes</sup> were not too visible. ~~##~~ 3 moons visible

Mars was next on the agenda. It had a slight reddish glow but because of turbulence this was not too apparent.

Saturn so far is the best. With the 6mm eyepiece the rings are very easily seen. 

The R.A. clamp allows a small amount of movement and so object sometimes moves out of field of sight.

Saw Arcturus, a very nice star; it had a beautiful purplish glow in the center.

1:40

3/5/78 JWM (1600-1830)

cleaning darkroom



3/6/78 JWM (1130-1200)

Check out for: John Powelson

Note: to whomever cut the white string off the telescope.

It is necessary to removing lens caps -- just giving the scope a shove is not a very safe practice (especially for beginners.

An easy means of operating the door when working alone is to attach the long emergency hoist to the bottom of the chain and take advantage of its weight to hold the chain down.

If you don't like this, let me know and we can buy some new string.

JWM

John: get a peice of cord from Art Hansen in the shop

3/6/78 P. Doffy & F. Straws  
general instruction

John: Put Francis Straws on list

3/6/78 P. Doffy & John Freymann

Put John Freymann on list

3/6/78 Mark Ravenscroft 11:00-12:00

Saw: 1) Saturn

2) Mars

3) Jupiter - Moons were used

~~3/6/78~~ Rafael Calera

~~9:20 p.m.~~

3/7/78 STEVE & 8-9:30  
U Mark Segal

So photographed Jupiter, Mars, Saturn

3/8/78

STEVEN LEE

PUT ON TEL. LIST

~~Steve~~

3/8/78

Rafael Calera

12:35

We saw Mars again. This time it is much clearer, the red color is easily distinguished. There is what seems to be a far star seen next to Mars.

Saturn is still as beautiful as ever. These objects never seem to stop fascinating me.



I found the Sombrero Galaxy at 25 hr. 41 min. Two stars are very close together and so they are very interesting in the sense that they form like the rim of a hat. Could not see the nebula. declination  $-11.5^{\circ}$

R. M3  
should  
be fairly  
easy unless  
the sky is  
very bright  
try also  
M13 if  
up.  
JWM

Tried to find M3 at R. A. 29 hr. 28 min +  $28^{\circ} 38'$ . No luck. Guess what we miss read R. A. by 3 hr. We shall try again. The magnitude of M3 is 7, we may not be able to pick it up. Well maybe some other day.

I have been looking through some star charts with my friend and we apparently have found M3, M104, M51, M52, + M64 but we were unable to distinguish these from nearby stars.

Weka, we have found d Cor Caroli, a binary star in Comae Venatici.  
R.A. 26.01 + Dec.  $38^{\circ} 35'$

Guard sitting restless. Will leave now. Next time I will supply sugar and creamer. We had coffee. Door to roof is unlocked and cannot

be locked with my keys. Very interesting evening.

5:07 a.m. 3/8/78

3/8/78

P. DUFF

Hey, JWM: There is at least one problem w/ the RA clamp/unclamp mechanism.

- 1) When <sup>un</sup>clamped, it moves more easily one way than the other. I don't know why this is, but have ~~get~~ temporarily corrected for it by moving the counterweights to put the telescope out of balance. I think we should find a better sol'n to this problem.
- 2) There seems to be a little STOP in the mechanism when the telescope is clamped. I don't remember this being there earlier. Maybe it's in the worm & gear.

If you have time, you should look into these problems; or if you have any ideas (but no time) talk to me about them.

Also: Please put

}	John Freymann	Steven Lee
	Francis Straws	Arnold Lehman
	Val Slayton	

} on list

Thanks.



3/9/78 JWM (1910 - 2310)

7:30

ShmR.A10 - Van Stevens - Motru - Ross can  
took plate RM-73 of Cas RZ, SV

Duffy: I spoke w/ John Freymann.

Please get people to log their plates.

Also: where are Kevin Johnson's plates  
and its log now out of sequence?

11:30

J. Freymann says, looked at Jupiter

3/11/78 Amiel 19:00 - 20:30

Cloudy but some observing possible

① JUPITER

② SATURN

● Had to close due to heavy clouds.

A PREVIOUS USER DID NOT  
LOCK ~~DOWN~~ BOTTOM PART  
OF DOME DOOR PROPERLY. LAME  
LOOSE ON CLOSING BUT FORTUNATE  
DID NOT FALL OFF. !!

Note to Amiel: The dome's door is messed  
up. It is very important to check  
that the bottom part is caught after  
raise the door a few inches. - See blackboard  
JWM 3/13



3/9/78 P. Doffy & D. Latham

Work on RA clamp mechanism.

Seems to be OK now.

3/12/78 NOT QUITE - STILL NEEDS SOME WORK

SAW THE MOON (WITH SOME DIFFICULTY DUE TO BAD SEEING + INCOMPETENCE ON PART OF OBSERVER'S ASSISTANT.)

Peter Engel

3/12/78 Mark Segal

Saw Jupiter, Saturn. Almost photographed M42, but horizon hazy & I gave it up.

3/12/78 S. RATAGOPALAN. OBSERVED JUPITER. EXAMINED PLATE RM-73.

3/13/78 JWM (1815 - 1940)

John Powellson A14 - Moon

+30

3/13/78 Mark Segal 9PM - 11:30PM

Take pictures of M42 & M48

3/13/78 JWM (2000 - 0145)

w/ Peter Torvik (A14) - check out

4/1h

looked at M13 - real nice - signs of spring

Note: there will be a class at 10pm Thurs

for new people for telescope list -- spread the word.

MARK SEGAL: Why don't you try to  
photograph M13? Heard you got some  
good pix of Jupiter.

- Phil

3/14/78 P. Duffy - Fixed Dec. Slo-Motion  
motor. (A wire had broken)

3/15/78 Mark Ravenscroft  
Moon, Jupiter, Mars, Venus

WHY IS THERE NO  
FILM DOWNSTAIRS?

10:30 PM, 3/15/78

~~Sorry;~~

3/15 P DUFFY & L. SMOLIN  
Photog. Sawin

3/16/78

JWM (1400)

+1:30

We now have film cassettes  
Please - don't throw them  
away after developing -- put them  
in the can on the shelf in the  
darkroom.

also: there is now a new  
cable release. We have gone  
thru about 6 of these this  
year -- take care of it.

They cost \$5 each.

There are 3 old cable releases in  
the desk whose only problem  
is a missing top -- let's  
keep it tightened!

3/16/78

JWM (2110 - 2420)

+30

loady film w/ Adan

+ instructor class - 4 people

3/17/78

Steve???)



3/18/78 P.J. Stollen - telescope, I used it

JMM (1850 - 0110)

Open House Jup, Sat, Mars, Moon  
tried for Uranus - too many clouds  
started getting cloudy about 9:30  
rather hazy - getting worse  
closed ~ 12:45  
about 50 people

note: RA clamp is loose

3/19/78

MR Eichen - tried to shoot  
Mercury, but broken RA Clamp  
made it impossible

P. Duffy Fixed R.A. Clamp.

Showed Fi Stravs how to load  
plate camera, clouded over before  
we could take plate.

3/19/78

JMM (2200 - 2245)

too windy + cloudy - RA is beautiful  
Skinner Lee 10:00 to 10:45

3/19-20/78 P. Towik (A14)  
with John Mockerty to photograph M13  
1:15-

JWM (0125 - 0415)  
photos of M13  
looked at M57

still rather windy, but from  
behind us - nice transparency

3/20/78 MR Enchaen

Managed to get a few shots of Mercury  
before she set - it had a spectrum,  
apparently caused by the pollution  
in the horizon.

3/20/78 JWM (2100 - 2415)

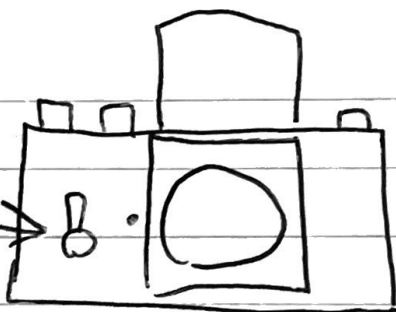
checkout for Carl Murillo  
Andy Fruchter  
Rajiv Bhatta

Stephen Russell  
Tony Brown (A10) - instructor

3/21 (1830-1930) P. STECKLER

took pictures of Jup.

→ camera timed release  
lense and not  
working



P. Steckler: It's fine, learn how to use it.  
(Ask Steve for help if you need it)

3/21 JUNE (1940-2340)

+ 1:30 ~~and reconstruction~~ for Mike Smart  
+ Francis Strauss

3/21 2320-2350

P.D. Stekler

took pictures of Saturn

3/22/- MR Erickson

Managed to get about 30 shots of  
Mercury before it set. The smog  
caused quite a spectrum on it, though.

3/22

T. MELAS KYRIAZI ASTRO 14

20 PICTURES OF JUPITER

+ 4 MOONS



3 22 STEVE

THOUGHT DEAD & TRIED

3/23

Cloudy - no visibility whatsoever. Foolish to have ventured up here in the first place. Better luck next time. - Peter Engel and Michael Stern

3/23

T. Neles Kyriazi (Perseus)

9:30 - 11:20 Jupiter + Saturn + Mars (30 pictures)

11:30 - 12:30 Mole Seal - Messier objects (Various)

3/25/78

Rafael Cabeza

12:00 eas. STA.

Am seeing moon with orange filter but several factors are against me. The moon is full and the filter does not let me see any detail.

The chair was not functioning but it is fixed now.

I had some trouble opening the dome

door, it did not respond to the switch at first but then it worked on the second try.

A green filter improved the moon but not by much.

Saturn is still as beautiful as ever.

12:30 eas. sta.

P.S. John: the plug for the dome door is making a bad connection

25 March 1AM John Pawelau  
Fragging night + too full a moon!

27-28 March 2AM Peter Towil

Waste of a good night's sleep - about 3:00 clouds intermittently to sunrise

Note: yellow wires running up dec. axis caught on RA gear mechanism while turning telescope - may have pulled something loose. (Everything seems to work, though.)

28 March 20:00 - 22:20

P. Stekler, viewed planets

29-30 March 8 PM Peter Tonich

no Tri-X

no Plus X. Loaded

- cause for anger and annoyance  
you don't really want people doing  
it themselves, do you?

(what's more, the object I wanted to photograph  
was too low by the time I had film - M42)

3/29/78 JWM (2215 - 2330)

+ 1:30 Thanks, John,

Photographed M81 - sky seemed pretty good.

PT (out at 2 AM)

3/30 JWM (1215 - 1445) - to darkroom  
darkroom instruction

3/30 8 PM - 10:30<sup>PM</sup> Lee Griffin

3/31/78 JWM (2000 - 2130)  
loaded some film.

3/31/78 JWM



March 30-31 11:30 - 12:45

Dean Dunlavy - Saturn photos.  
Sky was okay, but got hazier. Only  
1 roll of Plus-X was loaded - for  
planetary photography this is better - how  
about some more?

April 2 9:30 : 10:30

Took 2 rolls of film of Saturn  
and Jupiter. Theo Neles Kyni Astrol 14

April 5 Theo Neles Kyni

6:30 - 7:40 : Sky became very  
cloudy. I took 1 film of Jupiter  
and a few shots of Saturn.

4/5/78 JWM (2015-45) check & clean up

Note: Please leave the  
darkroom timer in darkroom  
(at the very least, return it when done)!

(2045-2245)  
4/5 - Adam Loaded Snolls PlusX (25 exp)  
7" TriX (20 exp)  
Plus-X back in bulk-loader.

Why are there only 12 cassettes left out of thirty?? I was lax in not loading film for about 10 days - didn't realize the demand was so great! But -- cassettes must be replaced when done! Furthermore, some of the remaining 12 were bent and damaged. Please be gentle removing the snap-caps. They are designed for multiple uses!

A.

April 5-6 in 12:30 Peter Towick  
M3 - beautiful air for this dismal town  
En - imagine my surprise to look up in the  
midst of an exposure only to see clouds

Right you are, JWM, I blew it again.  
And, of course, I can't do another roll,  
as it clouded over totally.

Out 3:00  
PT

4/6 P. Duffy  
back from Tosc.

6-7 April Peter Towil in at 7:30  
slight clouds - go away, please!  
M42 is the least impressive thing  
I've ever seen, tonight - but still try it

4/6/78 JWM (~~2115~~ - 2240)  
+45 help Arnold Lehman  
Val Slatton

P. Towil (darkroom) out at 12:15  
very hazy now

4/8/78 20:00 - 00:00  
General observations  
Amiel.

4/8 12:30 Val Slatton - hoping  
to have some luck!  
out at 4:30 - clear M39 1T5. x



4/9 JWM (1510 - ~~740~~<sup>40</sup>)  
+ 1:00 fixed up RA clamp

Arnold Lehman  
observation of Jupiter's moons 15:15-1525

Amiel @ 19:00-20:00  
Observations of interesting objects  
for "Friend". (heavenly objects)

4/9/78

19:40

H. Kuthy <sup>(A14)</sup> ~~for~~ + Tony Brown (A10)  
35mm camera, subject M42, Jup

4/9/78 JWM (1940 - 2205)

21:50 - 22:00

Arnold Lehman

2<sup>nd</sup> observation of the Jovian satellites

HB in  
V. 128/10. 7/17

2200 - 0000

Val Slayton  
M-13 Nice Sky.

Still Having trouble locating objects.

4/9/78 VESTA " WALTER CARLINI  
CLEAR SKY

4/9-10/78 JWM (0045 - ~~004~~<sup>0415</sup>)

plate RM-75

dome door wiring shorted  
lots of sparks et al. killed  
main ~~power~~ breaker. I had to  
close door manually.

Note to future ~~un~~unfortunates,  
this requires standing on seat  
ring to get rod attached. If  
you are under 6' forget it.  
It took me about 40 minutes  
to crank door shut, this is  
not easy.

Have put repair request  
on Charles door.

JWM

4/10/78 JWM (1000 - 1100)

problem fixed - B+6 put an  
plug on.

Fixed 4/10/78

4/12/78

THEODOSE DELAS KYRIAZI

Beautiful weather

18:50

Arnold Lehman  
Jupiter

4/12/78

JWM (2020-2050)

+30

Pictures of the Moon, Saturn, Mars,  
Jupiter

4/12

2020 - 2150

Val Slayton  
Photographing M36

Excellent weather.

M37 Too

4/12/13

2300 - 0030

Shrin rajagopalan

took plate - v.s. in UMa.

4/12/23

Sri - next time latch the door

0140 - 0240

supply plug

Val Sla - -Tsi for M29



It was clear then when!  
a cover of clouds moved in after  
2 exposures

Am I disappointed,

I didn't get up at 1:30 to  
have a - - - - - thing like  
this happen.

I hate clouds.

Ode to Clouds

→ Clouds

On a warm summer day

Are Pleasant I think

But when photographing projects for Astsol4  
They stink.

7:00 Friday 4 April John Powellson

1915

4/14/78 JWM (1915 - 2220)

A14/John Powellson - Moon Pics

OPEN HOUSE

Moon, Jup, Sat

~9pm - scattered cloud banks

~10pm - completely clouded up  
closed up 10:15

4/15/78

SR (Shrin Rajagopalan) <sup>(1300-1320)</sup> Examined plate of  
4/12. Looked for UMa TX - Found it!

4/18/78

6<sup>45</sup> P.M.

~~View~~, Noon, ~~Red~~

7<sup>00</sup> P.M.

Ringed Saturn Jupiter

8-9 - Looked + took pictures of Jupiter - A.R.

THE 25mm lens IN THE TOP, RIGHT  
DESK DRAWER ~~was~~ IS CHIPPED.

Why are there 2 25mm lens??

≡ 1. WHY NOT

2. because one is chipped!

4/19/78 JWM (2010 - 2230)  
Larkroan w/ Hal Ruthizer.  
+30

4/20 P. Duffy  
Here for telescope instruction class  
Nobody showed up!!

4/20/78 JWM STEVE

4/21 OPEN HOUSE  
CLOUDS UP 8:45

4/21 Adam - L 2200  
Open House? - Michael sky at first  
puffy clouds.

✓ Note: There are 2 25mm orthoscopes  
because 1 belongs to me.



come down at 2230...  
out @ 2245.

4/22/78 JWM (2115-<sup>2200</sup>) dropped by  
found F. Strauss w/ problem  
RA wire was broken - temporary repair  
made. The problem was that on the  
box on the telescope (termination of  
control & puddle wire) the large  
black cable had been pulled  
to tight and broken ~~ca.~~ wire in the  
box. This wire needs a proper connector  
- at the moment, any further  
pulling on the black cable will  
pull the wire loose again -!

GENERAL WARNING - look out  
when you rotate the telescope about  
the DEC axis - if you go to far  
you will pull on the large black cable  
and break some wires! <sup>If this happens, call</sup>  
John or Phil for repairs.

P. Duffy Open House

Saw Sat, Jup, Mars, Uranus,  
M13, M81

7 Strans 12<sup>30</sup>. (230).

Dec. refused to lock. R.A. wouldn't move -  
seemed almost stuck. Dec. clamp stiffened  
movement considerably but Dec. did not lock. R.A.  
moved only w/ great difficulty - I mean I had to  
yank it. I was afraid to do this so I didn't do  
any observing. What the hell is wrong w/ the  
telescope? If anyone needs a plate one is  
available in 2nd drawer left, wrapped.

Francis  
if it sticks  
rock the  
a few times  
JMM  
NOTE - DISREGARD ABOVE AS R.A. WORKS.  
I don't know what went wrong but everything  
is all right now.

April 23 T. Neles Kyriakos

6:45 Venus, Mars, Jupiter  
2 rolls of film  
Excellent "seeing".

April 23 - Dean Dunlavy

6:40 -

7:00 (Conrad Lehman)

75 Stars 09H

2114 (~~0206 sid. time~~) 5h. 34m. 60.5° d.

1 Car. 3 min.

Steven Lee!

Photographed Saturn, Mars, but  
loaded film wrong. Then photographed  
Neptune? Shared the telescope with  
two others who photographed the moon.  
Had 4 visitors.

9:30 - 3 AM

3 AM - 4 AM Mark Syst. Observed some M-object-  
star clusters.

Steven Lee 4/24/78 6:30 - 8:00

photographed: Venus just as it disappeared  
behind the clouds, Jupiter, Mars. Tried  
Saturn, but entire sky clouded over.

small problem in dismantling camera; had to take ring off also to get lens out



JWM - 4/23 - 2:30 - darkroom + tele  
+30  
4/24 - 1:30 - general tele + A/D

Steven Lee (4/25) 1-3 AM shot a fuzzy Saturn, tried to find Uranus unsuccessfully, took a few pictures of the moon. Constantly plagued by clouds!

Steven Lee (4/25) 4:30-5:15 AM  
Unsuccessfully attempted to find Mercury.

V. Slaydon

Whoever took the Beach Boys Album please let write I have located the owners

Mike Smart (4/26) 1:30 a.m. - 3 a.m.

- Seeing very good, but moon made sky bright
- shot a  $7\frac{1}{2}$  min. plate of M13. It came out.
- cannot find a paper cover for the plate. Where are they? Thank me for not calling the emergency numbers at 3 a.m. to find out.

HAL RUTHER (4/26) 6:45 pm - 8:43 pm

P. Duffy: Telescope Instruction 7-midnight

John: Please Add To List

Jill Warbel '81

Sandro Tombesi '80

4/26/78 JWM (2030-2335)

darbrom Hal, Tony, John P.

more names for list:

Paul Davison '80

Josh Belsky '80

Richard Buck '81

Kathy Lowry '80

Dave Baskerville '81

Michelle Arden '81

4/28/78 7-8:15 PM Steven Lee

Much too cloudy to see anything.

JWM (1915-2135)

A10/14 attempted open house, too  
cloudy, gave up 9:15

4/28/78 Kerty Lowy 12:30.  
moon.

4/29/78 Steven Lee 730 - 11:15

4/29/78 Hal Rutherford 745 -

4/29/78 JWM / 2040

+1:00

observed by  
Amiel open house

Normal stuff i.e. planets.

SL: Photographed Jupiter, Saturn  
Great night - quite clear  
Bands of Jupiter visible. Hal  
photographed its three moons.  
Bands of Saturn also possible  
to observe when one looked extremely  
closely. to 11:15

7HS - 11 PM (2300) photo - of Cas. -  
pretty bad - kept clouding up but got plate.  
'60 50" - 13 h. 50 m. 3 min. 4 min.



11PM -

Mike Segal - showed Saturn to some people who wanted to see something interesting - then photographed M13 -

Apr. 30 2:08 a.m. Mike Smart

- took 1 plate centered at  $14^{\text{h}} 20^{\text{m}}, +37^{\circ}$   
5 minute exposure.

- The plate was fucked before I began. Someone has opened the box marked "~~These plates ruined~~  
April: plates  
in the light.

- took another plate centered at  $14^{\text{h}} 30^{\text{m}} +37^{\circ}$   
3 min. exposure at 3:48 a.m. Apr. 30.

4/30/78 After developing three rolls of film with some good pictures of Jupiter and Saturn, I return 2:45-3:45

Find Uranus. For those who wish to locate it, try to find the pair of stars Zuben Elgenubi  $\alpha_1$  and  $\alpha_2$  of magnitudes 2.9 and 5.3. Uranus should appear in the finder as a third star, slightly dimmer than the 5.3 (it is 5.7). Today, it was separated from the other two by about twice the distance. 4:30-5:30 unsuccessfully tried to spot Mercury. •

The reason for streaky is guide, error in the telescope, the motor is very exact. Generally, dependent upon where the object is pointed, any exposure of more than 3-5 minutes streaks somewhat. JWM

4/30/78 12:30 - 2:30 used darkroom to develop pictures of Uranus. Printed two of Jupiter. Why did the 4 and 8 min exposures of Uranus show a streak? Is the telescope properly clamped? Is the motor working properly?

Steven Lee

4/30/78 7:30 - 9:15 took plate of TX Ursa Major ( $10^{\circ} 42.4$ ,  $45^{\circ} 50$ ) (S.R.)

Steven Lee 4:30 - 6:30 PM printed in darkroom.

Steven Lee 7:30 PM Shot Venus from 8:20 to 8:40 PM. Chromatic aberration quite apparent. Also, atmospheric temperature fluctuations rarely (but occasionally) left a steady image.

Hal Kuttler 8:30

Arnold Lehman 9:30 PM

Steven Lee 2:30 - 4 AM 5/1/78 Shot Uranus 4:15 - 5:15 AM looked for Neptune. Question: does Uranus have any satellites

I don't know for sure,  
but I doubt it very much.  
JWM

visible from here? Does Neptune?

5/1/78 JWM (1930-20~~00~~<sup>30</sup>) dropped by

+1100  
+1100

8:30 Arnold Lehman

recorded positions of Jupiter's moons.

5/1/78

Hal Kuller 7:45-8:45 pm

Great "sweeping" - clear sky with  
4 moons of Jupiter visible.

5/1/78

Shrin Rajagopalan

9:30 - 10:30

took plate of U. Ma. TX.

5/1/78

Steven Lee

arrived at 10:

Shot Mars from 10:45-11:15

Some chromatic aberration on high  
magnification.

Discovered about 15-30 minutes  
later that ring of canister fell off  
in box. Do not as yet know how badly  
exposed the film is. Please be more careful.

5/1-5/2 P Torvik 11:30 done at 12:40  
Photograph M3

5/1-2/78 JWL (0000 - 0030)

+1 hr

Steven Lee 2-3:30 looked for Neptune,  
Shot some pictures in the general  
area.

Mike Smart 10:30 <sup>pm</sup> 4 a.m.

Shot plates of RR Lyrae at 1 a.m., 2 a.m., 4 a.m.

5/2 Shrin Rajagopalan 3:00 - 4:00 AM

Shrin, you  
must wait  
about 2 sec  
before changing  
RA slow motion  
in reaction with  
shut

Shot plate of TX Ursa Major

Right ascension fine tuning is relatively  
useless. I disagree. Steven Lee

5/2/78 4:15-6:15 Steven Lee used darkroom to  
print starfields near and about Neptune. These  
are to be used for faster and more accurate aiming  
for Neptune tonight or soon. Also, if Neptune is  
present, will seek to observe movement across starfield.  
Weather forecast looks good!



5/2 19:55 Arnold Lehman  
opened up - waiting for dark  
Observation of Jupiter 2005  
6:00 - 8:40 Hal Kuller  
Pictures of Jupiter. Clear sky +  
overall good viewing ☺

5/2 9:15 - 10:00  
Shrin Rajagopalan - took plate of TX Ursa Major.

5/2 JWM (2230-45)

+1hr  
+30

5/2 10:00-11:00  
Anthony T. Brown attempted M3 M51. Clear sky  
good viewing

5/2/78 11:00 Steven Lee - 12:00 shot Uranus.  
It has moved noticeably further away from  
~~the~~ Ophiocaus a.a.

5/3/78 12:30 a.m. Mike Smart  
seeing good, not great. I took 1 plate of RR Lyrae  
7mins. The star was no brighter than in last  
night's plates. It must already have erupted.

1 about  
it

1:30 AM 75 Straws fought on a Cas but  
clouded over quickly, saw no plate. Mike  
took too damned long & left me holding  
the bag. — PS — I talk longer all the time 75

Pluto + Neptune behind clouds. Went  
through logbook to record in labbook. Left  
about 5-6 AM. SL SPL 245-4:30

Did some reference work

5/3/78 JMM (1800) ~~darkroom~~ alter  
+1:45 O.K. Folks,

We have yet again a  
new cable release. Please  
see that it receives tender  
loving care. This replaces  
the one purchased 3/16/78.  
That's another \$5.

BE NICE TO THE CABLE  
RELEASE . . . PLEASE!  
— or else!

5/3/78 Steven Lu (SPL) 645-745

945-1145 Developed pictures of Uranus.  
Did some reference work

S.Y. 0140. a Cas  $56^{\circ}16'$  9h. 47m.

Rather poor seeing but no one else here - why? Done 0230. Shut everything up. - How to turn on answering service?

S. S. 78 SR - Came to look for lost pen - not found. Who's the culprit? (2144)

5/5/78

5/5/78 630 PM Who took May 78 Sky + Telescopes?

5/6/78 800 PM Steven Lee

5/6/78 8:30 - 9:45 Hal Butcher  
Beautifully clear sky  $\begin{matrix} \circ \circ \\ \circ \circ \end{matrix}$

SL: photographed Venus, Jupiter  
great night! Where is everyone??  
9:15 pm

4:30 JWM - (2120) where is everyone?

5/6/78 11:00 PM Steven Lee again. Why, on such a great night, am I the only one up here? About 11:10 pm, lights + motor stopped working. Help! MAA

was able to put the lens' caps on:  
RA IS UNCLAMPED. Declination  
is clamped. Will spend about 1 1/2 hours  
downstairs developing film. SPL

[Attention: Lights + Motor NOT Working]

145 telescope not fixed. (lose a great night for  
Neptune, as well as Uranus + Pluto.

Hey Steven: When something like this  
happens, CALL US. All that was wrong  
was that a circuit breaker had tripped. If  
you had called us, you wouldn't have had to miss  
a night's observing.

- Doffy



Attn: JWM, Duffy:

5/7 : 5:30 PM Alarm - ~~flipped~~ flipped circuit breaker #14 back on - everything seems all right now - but problem may recur.

All new chemicals mixed today.

5/7 Arnold Schman - Jupiter, 2005

5/7 Sturm he 7pm found 5 others up here before me

5/7/78 Hal Kutzger - ~~took~~ Took pictures of Jupiter - just beautiful!

5/7/78 Sturm he ~~at~~ 9:30 - 11:00 photographed Uranus, Saturn, Jupiter. When is my replacement? I have to close up & lose the correction factor for Neptune later this evening.

5/7/-78 11:30 p.m. Mike Smart

RR Lyrae plate taken. Seeing v. good. In dk room I put new D-19 into the developer tank from a 1 gallon jug which was there. It developed my plate v. well.

Stem line 1-4 am 5/8/78

Photographed Neptune (hopefully)  
and many surrounding stars to  
help in identification. Batteries of  
one flashlight virtually dead.

Steve  
change  
grey recharge  
batteries with  
those is charged  
on floor  
5 min

Stem line 230-530 pm 5/8/78

Developed 5 rolls of film. Came out  
well. Suggest the following development  
times: Plus-X at 1:3 for 4:00-4:15 min  
Tri-X at 1:3 for 6:00-6:15 min

I believe  
you  
but nothing  
can be  
done  
5/8/78

Attn staff: I have substantial proof  
that the 1/4 second exposure on the 35mm  
actually exposes for less than 1/8 second.

JWM (19003 - 2125)

Note: 1/4 second setting on  
Nikon 35mm camera is not  
working. You'll just have to  
do without it. (I estimate it's  
exposure to be to - 1/5 of a second,  
but don't count on it)

Also, be gentle with the



focus, finder on camera  
and do not remove it  
from the camera body, except  
if it come apart -- call  
me!

JWM

Stem in 900 pm

Actually, the  $\frac{1}{4}$  second exposure  
is approximately  $\frac{1}{30}$  second. Again,  
don't count on it. (There really  
isn't any reason to.)

5. Please, be careful of  
black cable connecting telescope  
to ~~the~~ mount. If you rotate  
too far in DEC so as to  
pull on this cable, you will  
mess it up. Specifically, the  
RA lock will fail. If this happens -  
call me. See also note of 4/22/78.  
DON'T FORCE ROTATION  
IN DEC. READ ABOVE!  
JWM

9L 930 Too cloudy for anything. A few stars, perhaps, but ecliptic terrible.

Steam Lee 310 - 450 pm 5/9/28

Printing. Note: abnormal exit does not lock

Steam Lee 5/10/28 200 am -

Attn Staff: 330 am. Problem of destination clamp misfiring - short circuiting occurred. I flipped circuit-breaker in spite of the slight scent of smoke (?). I would normally hesitate to do so, but tonight I am getting (I believe) confirmation of Neptune, which I need.

Note also: Declination is off by 7°!  
(Almost exactly - give or take 5').

Silo.

7 Stars - prepared plate @ 400. Sky rapidly brightening so didn't do anything.

You can adjust the dec. by just moving the wheel manually. If it's off, fix it! - DUFF

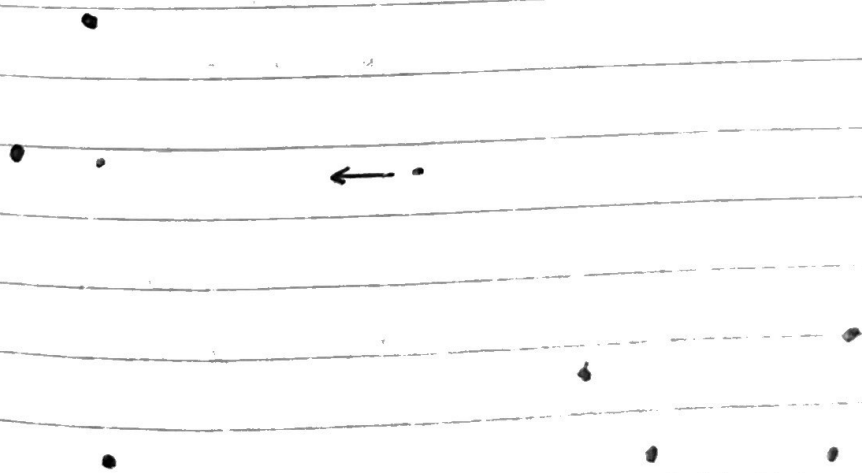


This may be jumping the gun a bit, but I may not be back - or for a while.

So here's the directions to Neptune (which hasn't been confirmed quite yet).

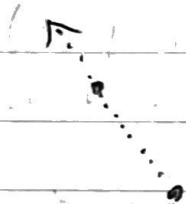
Look up the right ascension + declination in the American Ephemeris. Also,

get the January issue of Sky + Telescope and turn to page 58. Point the telescope in the proper direction, and look in the finder for the following pattern of stars:



This view is about 2 finder diameters across, so you may move the finder a bit. The star with the arrow next to it is (probably) Neptune. The arrow points in its direction of motion.

If you are unsure which star is Neptune still, use the four stars in the right hand corner as a pointer. The "ladle"



"lip" will point in the general direction of a noticeable

star (ie, although its not bright, you don't have to look hard for a very faint star) which will be Neptune.

Hopefully, the above directions will be good for about two weeks.

I looked for Mercury near dawn, but was unable to find it. Perhaps I am looking in the wrong direction. It should at least visible now! (Although possibly not telescopically observable.)

Stevan Lu 6:30 am 5/10/78

(Note staff: I don't believe the answering device works properly). Thanks we know

Stella Lee 200 pm 5/10/78. Picked up pictures of Neptune. Found that there are no film holders left.

Arnold Lehman 8 PM  
Jupiter

0915 Stars

~~5/10/78~~ Jun ( 2115 - <sup>2205</sup>~~45~~ )  
+ 1:30 A10, A14

5/10/78 - Mike Erickson  
Pictures of MARS

5/10/78 Someone left motor lights on. Also, in spite of the disappearance of some Tri-X, no names have logged out film @ 1140 pm.

Could not find Pluto. Got lost in looking for it. There just aren't any bright stars nearby. The closest star of any brightness is of magnitude 5.2.

However, the diagram of what I saw resembles so closely the star charts that I should

have a better <sup>next</sup> time.

5/11/78 (AM. 2:30-4:30) Tried to photograph M<sub>13</sub> -- am I successful? Qui le sait? The good thing is I've finally got a grasp of the technique. From here there is only the rise to the top.

Tried M80 - Sky too bright.

A. Brown

Mercury, Mercury — where are you?  
You're one of the two planets I have  
yet to either see or photograph from here.  
Steven Lee stayed until 2 AM.

5/11/78 6:30 pm Steven Lee  
Shot pictures of Venus. Confirmed  
that Mercury sets early.

5/11/78 7:30 Mike Guinisen  
Got Venus + Mars

5/11/78 8:15 Arnold Lehman  
Came by to check Aurites



Shot pictures of Mars (830) and left.

1130 - Strains - 44 Bootes variable 3 min.  
19° 56" + 47° 51' m.

85/11/2/78 JWM (2340-0045)

THU

fixed dome door - was out  
of track on upper right - was  
necessary to remove wheel and  
re-insert.

A10 instructions

Stum hee 1-3 am looked for Pluto.

Shot some pictures in the general area.

5/12/78 Tony Brown

3:30 - 5:00 Got M33 for sure - not too  
good however because I got it around

3:30 - 4:00 - the sky was pretty bright -  
I'll hope however - They should be nice.

Tomorrow night? - For sure if some ---  
doesn't heat me to the tele.

Tony

530 : Stern Lee

Did I find Mercury — or are my eyes playing tricks on me? At any rate, the sky is much too bright to focus on, much less photograph.

5/11/78 P. Duffy & Mike Hecker's freshman seminar group. Saw Sat, Z, M64, talked

5/13/78 Bryan Lurie - random gazing - 12:30 - hazy + bright

5/13/78 ~~Dark room~~ Dark room  
John Paulsen

5/13/78 430 am Stern Lee

The finder was loose and out of focus, preventing me from locating one of the few stars left in the sky before they were washed out. So I focussed it on the horizon. Correct the finder this evening, whoever is first to use the telescope.

Attn anyone.

Without a correction, and with a moderate amount of clouds at the horizon, my search for Mercury again was fruitless. 5:45 am

~~5/14/78~~ Val Slayton  
Came here at 2:30 PM

To check something

Whoever was here last  
last night left  
the dome open.

Stupidest thing I've ever  
seen.

5/15/78 JWM (1200-030)

A10, repairs (darkroom)

+4:00 A14, A10

Val: Hang around here  
long enough & you'll see stupider

5/15-16/78. Steven Lee

Used Darkroom to finish printing:

10 PM to 8 AM (Yes, that's 10 hours).

5.16.78 Straus. Stopped By,

Thanks for everything & due to bad weather of past 1 wk. used Cas. plates (such as they are) to try for credit.

Have a nice Summer

5.17 - Adam & stopped by at 2200.

cleaned up drum. a bit - will dump all chemicals (except stock) next week sometime.

5/19/78

5/19/78 Steven Lee 9:30 pm

Sky fair; not clear, but visible horizon fogged

Took pictures of Mars and (hopefully) Pluto, till 12:45 am

12:45

Sky Fair - pictures of Moon.

David Eastwille till 1:30



SL Had a large number of visitors —  
5 before 11 pm, 2 between  
1245 and 1145, plus all those  
between 11-12:30

SL 2-4 am took pictures of Pluto  
again, 1 hope. Looked a while for M31

455 AM Found Mercury  
in Finder!

Not visible to naked eye.  
By 520 am, no longer visible  
in Finder.

Left at 630 am

10 PM - 10:45

Hazy - Moon Study

Red right aft when I came in.  
Arrived 830 pm - Steven Lee  
Finished 1045 Showed someone  
the six planets: Venus,  
Jupiter, Mars, Saturn, Uranus, Neptune;  
as well as the moon.

10:05 BRIAN McCARROW, HAL REUTHERS  
TOM RICHARDSON - CLEAR NIGHT,  
looked at Saturn, the moon, and a bright  
blue star (DEC = ~~38~~ RA. = ~~188~~). WHAT  
IS IT?

5/22/78 11:15 MICHAEL GILSON, JOHN SYLLA et Al.  
MOON + OTHER TRIVIA. Sky FAIRLY CLEAR; SOME  
LIGHT HAZE

5-23-78 9:45 Matthew Bernstein - in  
10:30 " " - out

10:30 John Freymann - in  
11:30 - out

5/27/78 8-9 pm used darkroom  
Stumblee 9:30 pm with a friend

two visitors 9:45 pm

~~At~~ watched Venus, terrible  
Jupiter, terrible  
Saturn, fair  
Uranus, good

visitors left 10:30 ✓

two other visitors at 10:35 - 10:45  
left = 10:45 ✓

5/28 Alan Peaceman - just looking  
12:30 - 1AM. The IRA release  
was not working. The file cabinet  
& radio cabinet had been left open.

5/28 1:47:02 a.m. Entry above has wrong date.  
Mike Smart here solely to look at  
the stars. A strange quiet lurks in  
this dome when there is no work to be  
done. Looking over recent entries in  
this log book, the general tenor seems  
to be one of fond farewell, of warm  
visions of observing projects in tear-clouded  
retrospect. It seems such a short while  
ago that there was tooth and nail competi-  
tion for time on this instrument of astro-  
physical surgery. Why only yesterday, it  
seems, a hundred frightened faces strained  
murderously toward the seated observer  
asking if two hours wasn't a trifle long  
to monopolize the tube. Have we forgotten  
all this in the space of one short exam  
period?

Oh fuck. The sky has ~~clouded~~<sup>fogged</sup> over while



I wrote this.

ALSO, the RA release does indeed not release. As I do not feel like putting about the sky on slo-mo-RA, I will ~~hang it up~~ hang it up here. Have a nice summer, group.

5/28/78 8 PM

Stevie Lee + a friend  
too cloudy. Left

9:00-9:30 pm discovered

RA not unclamping.

Could not determine cause.

5/28/78

Brian Galvin; 4 others observed  
miscellaneous. Cloudy, but observable.



★ NOTE: After the spark incident (see below), all power to scope seems to be off. All circuit breakers are O.K. Will call Mackenta tomorrow (Mon.) morning.

5/28-9: Adam, i @ 0130

2A @ relay broken - fault is between box and pier.

Moon

M13

Wans

Seeing good what 0230 when clouds begin to dissipate.

at 0300.

~~Work @ chemicals tonight.~~

WARNING: Do not try and clamp R.A. manually (by putting screwdriver, fingers... ~~on~~ on relay - pier)

→ Sparks may come at & cause you to look like Cleaning Man "Kelley" in the new movie "Coma".



→ Sparks coming at of eyes. (He's yelling for help, but if Genevieve Bjo/d touches him, she'll fry as well.)

5/29/78 830-930 am Steven Lee

developed film  
will there be any glsines  
by 10PM tonight? If not, forget it  
for this year.

Have a halcyon summer, all.

June 2, 1978  
P. Duffy.

June 4, 1978  
Jeffrey Potash  
Rich Hawley  
Stein Rafter

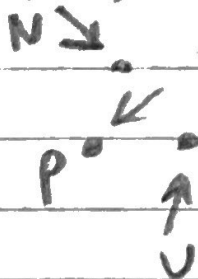
saw "double" effect of Mars & Saturn.

6/5 - Adam - thought Mars-Saturn  
"conjunction" was tonight not last morning. By  
now they are  $22^\circ$  apart. Can't those planets get  
their sh-t together?

~~Adam is a cretin!!!~~  
in @ 2100 - out 2135.

6/6 X-MAN,

SAW NEPTUNE - URANUS.  
PLUTO CONJUNCTION. VERY  
FAR OUT (HAVE PICTURES TO  
PROVE IT)



6/8 Derek Bok:

"I trained the scope  
One fine dark night  
To see a fine and wonderful sight

My wife and South Africa clutching tight  
But being an impotent Harvardite  
I sat on the fender,  
whispering: what the hell,  
its alright..."

6/11/78

P. Duffy

Fixed RA clamp - a wiring  
problem, as usual.

6/11/78 JWM (2000) just dropped by  
my summer phone is 8-7927

6/12/78 JWM (2310 - 2350)  
worked on cross hairs  
need a different pot

6/13/78 JWM + Duffy  
general work (~Mow)



6/15/78 JUM 2130 - 2330  
w/ Bill Crim - just observing  
for fun - - for a change  
Saturn, Moon, M13, M57

6/21/78 JUM + Duffy  
fixed dome door bars  
& patched telephone answering machine

6/22/78 JUM  
finished finder crosshair  
lights

6/26/78 - Wiring - Leon Narrocki  
JUM 1100 - 1230 1530 - 1715

6/27/78 Wiring - Leon Narrocki  
9:00 - 12:00 1:00 - 6:00

6/28/78 Wiring - Leon Narrocki  
10:00 - 5:00

6/28/78 JUM S-S observing  
~20 people + Stan  
Mars, Venus, Sat, Uranus  
M57 M13

custome Helay + Janie

6/29/78 Wiring Leon Narrocki  
9:00

6/29/79 JWM first done door  
finally got answers  
machine working - note  
the wire must be unplugged