

MONTH — NOVEMBER YEAR 1981

DATE	VIEWING HOURS	VIEWING CONDITIONS	MOON	PLANETS	STARS
MON. 2	20.00H	SOME CLOUD. HAZY	NEAR FIRST QUARTER	—	ANDROMEDA, PLEIADES
TUES. 3	21.00H	CLEAR, BUT SUBTLY OBSCURED BY AGING MOON	FULL FIRST QUARTER	—	ANDROMEDA, PLEIADES
WED. 4	22:45 H.	CLEAR. CITY LIGHTS ANNOYING.	NEARING HALF.	—	ANDROMEDA, HYADES, ORION, PLEIADES,
MON 30	20:00 H.	PARTLY CLOUDY	NEW	—	PLEIADES ORION

GENERAL OBSERVATIONS - NOVEMBER 1921

MONDAY,
NOV. 2ND.

Used home-made finder for the first time. It will be a tremendous help in locating various objects. Pleiades especially clear in this finder. Moon was sharp & clear, despite advancing cloud & haze.

TUESDAY,
NOV. 3RD.

Home-made finder easily picked up Andromeda. But overall conditions obscured by city lights, which seemed brighter than usual tonight.

WEDNESDAY,
NOV. 4TH.

Used only binoculars & finder tonight. I could see Andromeda & the Hyades clearly enough, but was unsuccessful in my search for M33, near Triangulum. I might have found it with more care & by using the telescope. I only glanced at Orion, which was not high enough in the sky to escape street lights.

MONDAY,
NOV. 30TH.

We have had a long succession of poor nights for astronomical observation, & there also been laid up with an ankle injury. I have looked at the sky with binoculars for brief moments now & again.

Orion is at 140° at 23:00 HRS. just now. Andromeda is directly overhead at 20:00 hrs.

My newly built objective scope should be very satisfying when it is finally mounted on the Celestron. It can magnify up to $\times 57$ with the 250 mm. eyepiece.

MONTH - DECEMBER - YEAR 1981

DATE	VIEWING HOURS	VIEWING CONDITIONS	MOON	PLANETS	STARS
<p>ALMOST ENTIRE MONTH WAS DULL & OVERCAST</p>					

GENERAL OBSERVATIONS - DECEMBER/12

I did not make any observations in December. This was mostly due to the fact that we had practically no clear nights on which to view the sky. December was an exceptionally dull month, astronomically speaking.

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In early January I was on a cruise in the Gulf of Mexico & had a chance to scan the skies from the decks of the S.S. Vera Cruz, sailing out of Tampa Florida for Cancun & Cozumel, Mexico. It was interesting to note that although we were around 21° to 22° latitude, practically the same stars were observable as we see at home. Orion was clearly visible every night, & on morning early I saw the Big Dipper & the North Star. I had no accurate means of measuring anything, but I thought that the Dipper & the North Star were lower in the sky than they would be here. The Pleiades & Cassiopeia were clear, despite the strength of a practically full moon. Sunrise & sunset were spectacular every day & I took a number of photographs of this phenomenon. The ship was brilliantly lit at all times, making really good observation rather difficult. I could minimize this a little by retreating into a dark corner near the bow or either side of the vessel, but it was not entirely satisfactory by any means.

At Key West I wandered into a book store & purchased two very interesting astronomy textbooks. ① "A Complete Manual of Amateur Astronomy", by P. Clay Sherrill, and ② "Amateur Astronomer's Handbook", by J. B. Sedgwick. The former has some exciting projects

for various measurements in our solar system
which should provide great interest for a long time - It
also has valuable information of different types of
telescopes. The second volume has a very
detailed account of various measurements, telescope
statistics, & the like.

The weather in January & February has been poor
for observation. There hasn't been more than 3 or 4 nights
altogether that would be advantageous for viewing.

GENERAL OBSERVATIONS. - JANUARY/82.

MONDAY,
JAN. 25/82.

Viewed Orion nebula with X125 + Barlow. Clear, sharp.



Used upright right angle viewing diagonal.

Must pursue this more closely in following nights.

January, like December, has been a poor viewing period. Clouds, snow, even fog, have obscured viewing night after night.

MONTH — FEBRUARY — YEAR, 1982

DATE	VIEWING HOURS	VIEWING CONDITIONS	MOON	PLANETS	STARS
MON 1	8 P.M. - 9 P.M.	Very clear. Very cold -8°C.	<p>← (17 days) 1ST. QUARTER. SAW ARZACHEL, ALPHONSUS, AND PTOLEMAEUS. ALSO CLEARLY SAW STRAIGHT WALL.</p>	<p>COULD ALSO SEE CRATER BIRT, WHICH IS WEST OF STRAIGHT WALL. <u>NO PLANETS.</u></p>	<p>SAW AND SKETCHED ORION NEBULA. * ORION IS IN SOUTH SKY AT 8:30 P.M.</p>
					<p>↓ MINTAKA FEB. 20, RAS. 29.5 ALNILAM ALNITAK</p>
SAT. 27	8 P.M. - 10 P.M.	Very clear. Very cold. -4°C.	4 days old. nearing 1st. quarter.	No Planets.	Viewed Orion Nebula. Very clear. Could not locate Horse Nebula.
SUN. 28	7 P.M. - 8 P.M.	Relatively clear. a bit windy. -4°C.	4 or 5 days old. I believe I saw Theophilus, Cyrillus, & Catharina just on the edge of the western light.	no planets.	Studied Orion again. Also looked at Aldabaran & the Pleiades. Still can't locate the Horse Nebula.

GENERAL OBSERVATIONS - FEBRUARY 1982.

MON. FEB. 1/82.

Yesterday we had a very heavy snow storm, but when it passed, the air turned extraordinarily clear & crisp, making viewing tonight most favorable. If only I could get out into the country! But I did manage to see the face of the straight wall on the moon, the best I have seen since I began viewing. Orion was clear, but somewhat dimmed by the moon.

I am sure that I could see a lot more of Orion in a dark sky, but as long as I am compelled to view it in the environs of Mississauga & Metropolitan Toronto, I'll never appreciate fully its true beauty.

The weather throughout February has been poor for viewing the heavens. I cannot remember a worse winter for astronomical observation.

I was given a copy of Carl Sagan's Cosmos for my birthday. I have already had some enjoyable evenings pouring through its pages.

Sat. Feb. 27/82

1480
125/235000
125
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a very cold night. Snow on the ground unfortunately reflecting city lights, so actual conditions not as good as should be. I just could not find the Horse Nebula. Probably could if the sky was darker.

Sunday, Feb. 28/82

Still cool, & a bit windy. ~~Too~~ Too much light from city & from reflected snow for truly good viewing.

I have been trying hard to locate the Horse Nebula, but just can't seem to do it. It should be within range of my instrument.

I must try to see the planets early one morning next week as they will be in line. Early morning viewing can be spectacular.

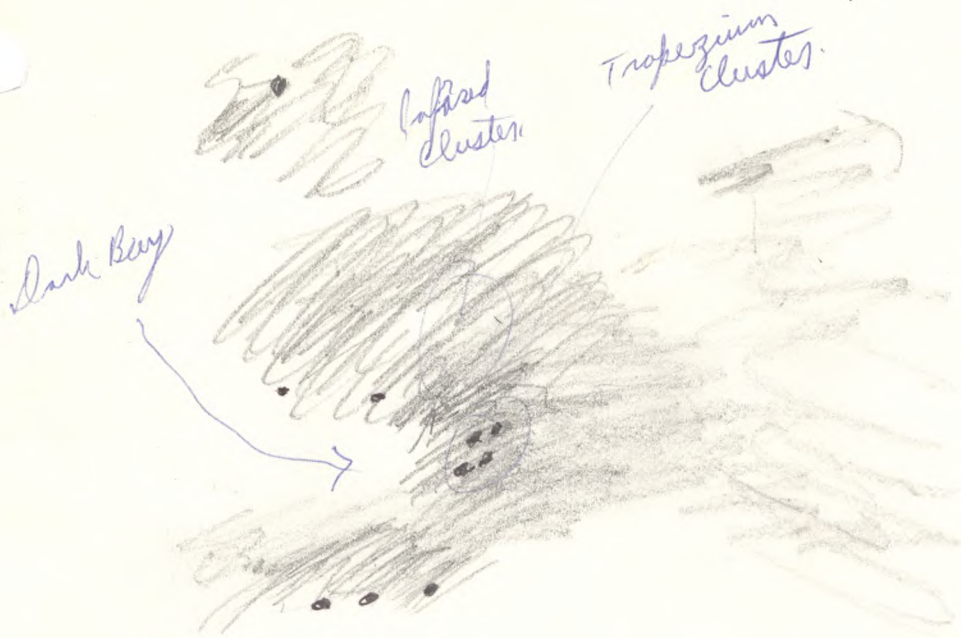
I was given a copy of Carl Sagan's Cosmos for my birthday. I have already had some enjoyable evenings poring through the pages.

Feb. 5/75

Feb. 5/75

STAR DIAGONAL -- STRAIGHT THROUGH.

Feb. 1 / 84



~~372~~

$$\begin{array}{r}
 1983 \\
 1625 \\
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 358
 \end{array}$$

$$\begin{array}{r}
 3.262 \\
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1 Parsec = 3.262 light years.

1625 light years from earth. (500 Parsecs + pc.)

STAR DIAGONAL -- REVERSED.

Feb. 1 / 84



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MONTH — MARCH — YEAR, 1982.

DATE	VIEWING HOURS	VIEWING CONDITIONS	MOON	PLANETS	STARS
WED. 3	7:30 P.M.	QUITE CLEAR. VERY COLD - 10°C.	EXCELLENT VIEW OF THE CENTRAL AREAS OF THE MOON, WHICH IS ONE DAY PAST FIRST QUARTER.	NONE.	ORION WAS NOT WELL DEFINED BECAUSE OF ITS PROXIMITY TO THE MOON AT THIS TIME OF NIGHT.
FRID. 5	8 P.M.	CLEAR AT TIMES. BUT INCLINED TO BE HAZY & UNCERTAIN	GOOD VIEWS OF CENTRAL AREAS. JURA MTS. & STRAIGHT RANGE WERE VERY CLEAR. STRAIGHT WALL & ITS ENVIRONS WERE A BIT GLARY.	NONE	DID NOT TRY TO VIEW. BADLY OBSCURED BY CLOUDS.
MON 22	8-9:30 P.M.	VERY CLEAR. COLD.	NIL.	MARS. VERY UNEXPECTED! MARS IS AT OPPOSITION. MUST TAKE A BETTER LOOK	ORION NEBUCHA WAS VERY CLEAR. I USED THE REVERSE STAR DIAGONAL.
TUES 23	8:30-9:45 P.M.	CLEAR, COLD. BUT SOME HAZE IN THE S.E.	NIL.	MARS AGAIN. BUT BLAZING WHITE, WITH A TOUCH OF ORANGE. NO FEATURES VISIBLE.	ORION WAS NOT AS CLEAR TONIGHT. THE HAZE AND CITY LIGHTS OBSCURED SOME TIMES MORE THAN OTHERS.
SAT. 27	10-11 P.M.	CLEAR, VERY COLD - 8°C.	NIL NEW MOON EARLY IN THE EVENING, BUT IT HAD VANISHED BY THE TIME I WAS OBSERVING.	EXCELLENT VIEWS OF JUPITER, SATURN, & MARS. THEY ARE PLACED IN AN EXTENDED LINE IN THE SOUTH-EASTERN SKY.	DID NOT VIEW.

GENERAL OBSERVATIONS - MARCH 1982.

MARCH 3/82

Viewing of lunar scene was very good. I could not quite see the fura mountains, west of Plato, nor could I see the straight range. Neither was quite out of the shadows. But I could easily make out Ptolemaeus, Alphonsus, Archimedes, the Straight Wall, & other areas nearby. Used X125 + X250 only.

March 5/82

Moon is now 10 days old, & all central areas, including fura mountains, are visible, though Ptolemaeus & the Straight Wall area are pretty gray. X125 + X250 are best, although I tried X142 + X190 as well, & even used the barlow with the X250, which was, of course, very dark & very restricted. I think that from now until last quarter (March 17th), viewing of the moon will be difficult. That is also the day when the moon will be at apogee (404,300 km).

March 10/82



Today all of the planets of our Solar System will be lined up together opposite the Sun. The astrologers are having a field day predicting all sorts of disasters for Earth, presumably due to excessive gravitational pull on the Sun, creating massive sun bursts that will cause earthquakes here. However, astronomers assure everyone that the combined effect could not exceed a single milligram of pull.

I got up early this morning (3:30) trying to align the telescope on the planets but, alas, clouds had kept over the sky during the night to obscure everything. Only a faint full moon could be seen.

March 19/82 Another series of cloudy evenings here precluded any sky observations.
Spring comes to us at 4 minutes to 11 P.M. tomorrow.
Heavy rain is scheduled for the entire day.

March 22/82 a very good night for viewing. Orion nebula was exceptionally clear. I was frustrated by neighbors putting on their yard lights, so had to view some areas without the clock drive. I'll use my long cord another time.
Mars was unaffected. It seemed too large & too bright, but it has to be Mars. It's in Virgo, as indicated in the Almanac. I'll use some filters in my next viewing.

March 23/82 I am totally frustrated with Mars. It is large - large as Jupiter last year - but I cannot make out any surface features. It is white, except for some fringes of orange. I tried using an orange filter with the 16 mm ocular & a green filter with the 20 mm ocular (the rifle), but nothing was resolved either way. Perhaps the opposition position of the planet makes viewing difficult. I must try to study it further.

March 24/82 Tonight would have been great for viewing, but we had overnight guests, so I couldn't take advantage of the conditions. Mars looked extraordinarily clear and bright, but the problems encountered earlier might still have plagued me.

March 27/82 Late viewing made it possible to see Jupiter, Saturn, & Mars, all in a line from E.S.E. to South-East. The disks

were sharp & clear, but Pettitt could not see much on Mars. According to my text on the subject, Mars needs eyepiece magnification of 400x, but perhaps air turbulence upset that, for I found blurring & fuzziness at that power.

March 28/82

Viewing was a bit better tonight. I also had the experience of the previous night to help me. I could definitely see land features on Mars, though very faint, & I could make out similar features on Jupiter & Saturn. I couldn't see the Red Spot on Jupiter, but I'm going to try again with a filter. Apparently a blue filter will help.

MONTH — APRIL — YEAR, 1982

DATE	VIEWING HOURS	VIEWING CONDITIONS	MOON	PLANETS	STARS
1 THURS.	8:20-8:50 P.M.	VERY CLEAR & COLD, BUT MUCH TOO WINDY.	7 DAYS OLD. COULD BARELY MAKE OUT STRAIGHT WALL & COULD SEE BIRT BY REFLECTION. PTOLEMAEUS & NEIGHBORS WERE VERY CLEAR.	TOO WINDY TO VIEW. GOT TOO BLUSTERY AFTER AWHILE.	SAW ORION NEBULA, BUT A BIT CLOSE TO THE MOON. GOT TOO WINDY FOR STEADY VIEWING.
2 FRID.	8:15-9 P.M.	SPORADIC CLOUDS. BUT VERY CLEAR MOST OF THE TIME. COLD & A BIT WINDY.	8 DAYS OLD. COULD SEE STRAIGHT WALL CLEARLY. STRAIGHT RANGIE IS ONLY SEEN AT ITS EASTERN EXTREMITY. PTOLEMAEUS & NEIGHBORS WERE A BIT DAZZLING.	SAW MARS CLEARLY. COULD ACTUALLY MAKE OUT THE NORTH POLAR CAP, ESPECIALLY WITH THE OLD BINOCULAR EYEPIECE. ALSO SAW SATURN CLEARLY.	DID NOT TRY TO SEE. CLOUDS COMING UP BY 9 P.M.
14 WED.	9:30-11 P.M.	CLEAR, CHILLY. A BIT OF HAZE IN THE SOUTH AND EAST.	NOT UP AT THIS TIME OF NIGHT.	SAW MARS, BUT NOT ANY OF ITS FEATURES. SATURN & JUPITER WERE EXCEPTIONALLY CLEAR. TRIED HARD TO SEE URANUS.	SAW FAINT STARS IN THE VICINITY OF ANTARIES, BUT TOO EARLY FOR CLEAR VIEW.
15 THURS	10:00-11:15 P.M.	RATHER HAZY, PARTICULARLY IN THE SOUTH-EAST.	NOT UP NOW.	SAW ALL PLANETS, USING FILTERS. BUT BY 10:30 THE SEEING WAS NOT VERY GOOD.	TRIED TO SEE ANTARIES AND COMPANIONS, BUT THEY WERE COMPLETELY OBSCURED.
18 SUN.	9:30-11:15 P.M.	QUITE COOL & CLEAR.	NOT UP UNTIL EARLY MORNING.	GOOD VIEWS OF PLANETS.	CONCENTRATED ON PLANETS.

MONTH - APRIL, YEAR - 1982

DATE	VIEWING HOURS	VIEWING CONDITIONS	MOON	PLANETS	STARS
21 WED.	9:30-11 P.M.	QUITE CLEAR, BUT BECAME VERY HAZY LATER	—	FAIR- DISAPPOINTING LATER AS HAZE BLURRED SIGHTINGS. DID NOT SEE FEATURES OF MARS.	—
22 THURS.	9:00-10:30 P.M.	CLEAR, COOL, QUITE BRIGHT IN EASTERN SKY.	—	MUCH BETTER THAN LAST NIGHT. INTERESTING VIEW OF ONE OF JUPITER'S DISAPPEARING MOONS. SATURN WAS EXCELLENT	SAW A NUMBER OF CONSTELLATIONS.
27 TUES	9:06-10 P.M.	STARTED OUT CLEAR, BUT SOON BECAME HOPELESSLY HAZY	—	FRUSTRATING VIEWING DEVELOPED. JUPITER WAS FAIRLY CLEAR, AS WAS SATURN. BUT MARS WAS VERY DISAPPOINTING	—
29 THURS	9:00 - 10:45 P.M.	CLEAR, A BIT CHILLY. HAZY ON SOUTH-WEST HORIZON	MOON IS 7 DAYS OLD. CLEAR VIEWS ALONG SHADOW EDGE.	FAIR, ALTHOUGH BY LATER HAZE BEGAN TO OBSCURE FEATURES ON MARS & JUPITER.	—
30 FRID	8 P.M. - 11:15 P.M.	EXCELLENT VIEWING ALL EVENING.	MOON VIEWS WERE JUST GREAT. SHOULD SEE CENTRAL AREAS BY TOMORROW 1ST QUARTER TODAY. FORWARD	VERY GOOD VIEWS, USED VARIOUS FILTERS TO DRAW OUT JUPITER. BLUE FILTER IS BEST.	—

GENERAL OBSERVATIONS - APRIL 1982

April 1/82 Strong winds made it impossible to keep on viewing. Straight wall on the moon was interesting. Really couldn't see it, but could see Burt by reflection, so knew what the deep shadow to its east meant. By tomorrow night, it should be great. So will the Janis Mts. + the Straight Range. (Other views as described on monthly sheet.)

April 2/82

A bit windy again tonight, but that was an advantage for a while because it blew away the clouds for almost half an hour, making viewing very favorable. The moon was extremely clear + interesting. I was particularly intrigued with the clarity of my old binocular eyepiece. It outlasted some of my other eyepieces tonight.

Saturn + Mars were very clear. I couldn't wait for Jupiter as clouds were building upon the horizon. I saw the north polar cap of Mars. It was brilliantly white while the rest of the planet was orange-red.

April 14/82

Weather relatively cool + clear, but hazy in the area where I was searching for Uranus. I was a bit early anyway, I think. The planets were clear, but should have used filters, especially for Mars.

April 15/82

Increasing haze gradually obscured all good viewing, but let me interested for a while. The filters didn't seem to help much.

April 18/82

A good clear night for planet viewing. I could see some surface features on Mars + that very

sharp views of Jupiter & Saturn as well. I have not been able to see the red spot on Jupiter all this season. It must be on the far side of the planet in the evening. Saturn was so sharp that I could make out a division on the rings & had a very faint view of one belt on the planet itself.

April 19/82

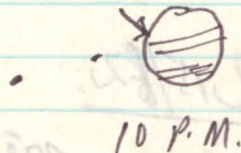
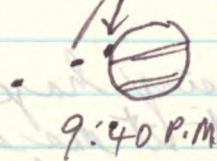
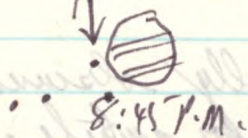
No chance to view anything tonight. We are heading for a storm & the sky is completely clouded over. But this morning I took the telescope into the backyard to experiment with the eyepieces, particularly the Barlow. I used some old diagrams that I had sketched earlier hanging them on the fence 60 feet away. I am now able to control the magnification of my Barlow, which should improve viewing.

April 21/82

This started out as a good night, but became hazy & thus frustrating. Viewing was just mediocre.

April 22/82

Very good viewing tonight. While watching Jupiter over the course of the evening I observed one of its moons disappearing behind the great planet.



Saturn was just phenomenal. I could see the separation of rings & two belts on the planet itself. Titan was sharp & clear all evening. Star views were good, despite much ground light interference.

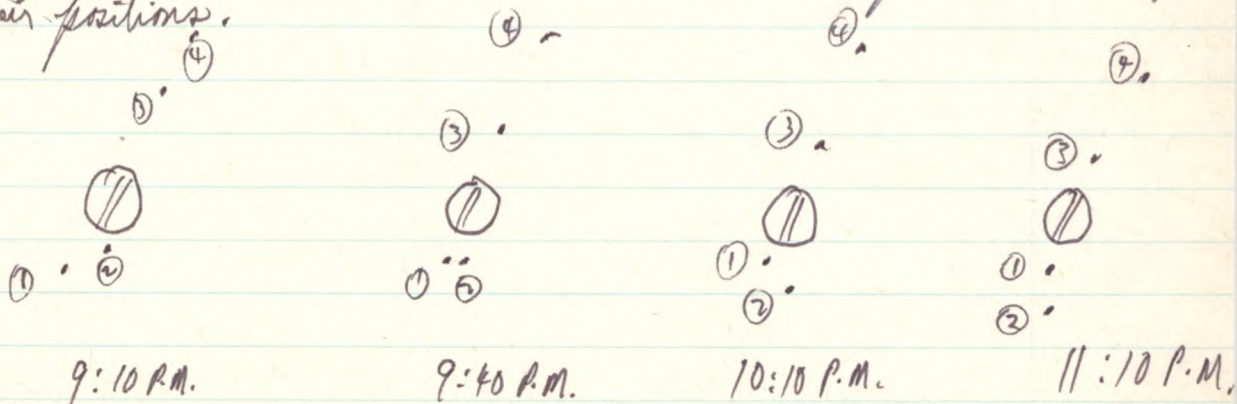
April 27/82 This was one of those nights that start out beautifully but soon become totally frustrating. Haze, even a bit of pure fog, moved in & very soon had to abandon the exercise.

April 28/82 Tonight would have been wonderful, but we had company & I could not go into action.

April 29/82 A disappointing night for planets as haze developed in the south-west. But some views were interesting, particularly ~~the~~ Saturn.

April 30/82 This evening I spent an hour or so on the moon, & then concentrated on the planets. The moon presented very spectacular viewing, & sharply defined shadows made the various craters look absolutely amazing.

I used various filters on Jupiter, & over the period of ~~the~~ ^{two} hours watched the moons close to the planet change their positions.



The Blue filter & to a degree, orange filter, are best for clearing up fuzzy viewing. But I could not see the Red Spot, no matter how I attached the equipment.

MONTH - MAY, YEAR - 1982.

DATE	VIEWING HOURS	VIEWING CONDITIONS	MOON	PLANETS	STARS
1 SAT. * <u>SPECIAL VIEWING.</u>	10:15 P.M. - 10:30 P.M. * USED THE HOME-MADE FINDER SCOPE	VERY CLEAR.	WOULD HAVE HAD GOOD VIEWS OF PLANETS IF THE SCOPE HAD A TRIPOD OR WAS ATTACHED TO THE CELESTRON. FOR USING IT AS A BACKUP FINDER SCOPE WOULD APPEAR TO BE EXCELLENT.	GOOD VIEWS OF	MOON AND STARS
2 SUN. * USED HOMEMADE FINDERSCOPE ATTACHED TO CELESTRON.	8 P.M. - 10:45 P.M.	CLEAR, BUT MOONGLOW VERY BRIGHT.	EXCELLENT VIEWS OF THE MOON SURFACE. I CAN NOW NAME ABOUT 26 FEATURES, CENTRED ROUGHLY IN FIRST QUARTER.	NOT AS CLEAR AS A FEW DAYS AGO BECAUSE MOONGLOW IS TOO BRIGHT. BUT VIEWS OF JUPITER & SATURN WERE STILL INTERESTING.	
18 TUES.	10 P.M. - 10:30 P.M.	STARTED OUT CLEAR, BUT SOON GREW TOO HAZY FOR SATISFACTORY VIEWING.	WELL INTO LAST QUARTER PHASE, SO I DID NOT SEE IT.	GOOD AT FIRST, JUPITER & SATURN IN PARTICULAR WERE SHARP.	
21 AUGUST (SATURDAY)	9 P.M. - 10 P.M. (See notes)	QUITE CLEAR.	NEW. JUST A SLIVER TONIGHT.	JUPITER WAS CLEAR. MOONS IN LINE. ☾	BIG DIPPER COMPLEX. MANY OTHERS COULD ALSO BE SEEN

GENERAL OBSERVATIONS — MAY 182.

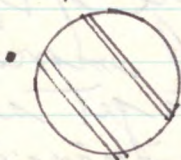
May 1/82.

Used the new homemade finderscope only. Must have a reliable stand or it will never be useful. But propped on a good tripod or on the Celestron's body will make it invaluable.

May 2/82

Tonight I attached the homemade finderscope to the Celestron, & while it is very sharp & clear for the moon, it certainly is not for anything else. The planets can be seen, but are blurred. I'll have to think of a new aperture ocular. The present one just won't do the job.

9:35 P.M.



10:35 P.M.

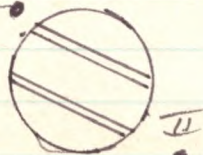


It must have been on the other side of Jupiter, although it might have been on the face & I just couldn't see it for moon glow. But I doubt it. Chart seems to show it as being transitted by Jupiter.

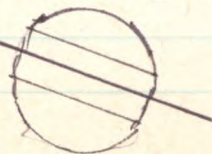
May 18/82

The weather has not been good for viewing for some time, & was only sharp for about half an hour tonight.

10:15 P.M.



Could also see two Saturn satellites.




August 21/82

We have relocated in London, Ontario, & I have just started to study & review the heavens at our new home. However, conditions are much less satisfactory in London, because I am in fierce competition with city lights & have a restricted horizon wherever I look. This is most unfortunate, for London skies are far less polluted than either Toronto or Mississauga & stars are in abundance, but I will have to select a better spot for viewing if ever I am to take advantage of these conditions.

Tonight I had a brief view of Jupiter before it slid beneath the roof line of my house. I also saw the new moon. I moved the telescope everywhere, just to get an idea of what the potential for viewing is, & on a clear cool night there could be a great deal to see. I had a magnificent view of the Big Dipper & the North Star. Mizar is a double star & can easily be identified in my telescope.

(see next page)

MONTH AUGUST, YEAR 1982.

DATE	VIEWING HOURS	VIEWING CONDITIONS	MOON	PLANETS	STARS
21 SATURDAY	9 P.M. - 10 P.M.	CLEAR, QUITE COOL	2 DAYS OLD. SHOULD HAVE GOOD VIEWS BY 29TH OR 30TH.	JUPITER FAR DOWN THE WEST HORIZON. MY LIMITED HORIZON VIEW A DISTINCT DISADVANTAGE	MANY STARS TO SEE - LOOKED AT MIZAR + ALCOR AND NORTH STAR TO GET EXACT LOCATION FOR MY NEW VIEWING AREA.
25 WEDNESDAY	9 P.M. - 10 P.M.	VERY CLEAR, COOL	5 DAYS OLD.	JUPITER WAS SHARP ALL EVENING. 	MANY STARS. SOME VIEWS AS 21ST.
28 SATURDAY	10 P.M. - 10:15 P.M.	CLEAR, COOL. (FIRST FROST OF THE YEAR)	8 DAYS OLD. SAW STRAIGHT WALL & ITS COMPANION CRATERS THOUGH FAINTLY. LIGHT VERY STRONG	DID NOT VIEW	DID NOT VIEW.

GENERAL OBSERVATIONS -- AUGUST, 1952

AUG. 23RD

As indicated on the previous page, we have moved to London, Ontario, & to an entirely new viewing circumstance. I will have some difficulty seeing what I want, despite generally clearer skies.

AUG. 26TH

I must review all my co-ordinates before going out again as my viewing limits are considerably restricted. The north sky & some southern sky will be best from now on.

August 29TH

I only set up for a few minutes, intent on seeing the central areas of the moon. However, the light is strong now on these sections & so I saw them with difficulty.

August 31ST

The remainder of August has been rainy & cloudy, making observations impossible.

MONTH

SEPTEMBER

YEAR

1982.

DATE	VIEWING HOURS	VIEWING CONDITIONS	MOON	PLANETS	STARS
SAT. 18 TH	20:15 - 22:15 hrs.	CLEAR, COOL	JUST BEGINNING, DID NOT VIEW IT.	- NIL -	HAD A GOOD LOOK AT THE DIPPER, PARTICULARLY MEZAR + ALCOR. DOUBLE PHENOMENON VERY CLEAR. TRIED HARD TO SEE SOME NEBULAE, BUT WITHOUT SUCCESS.

GENERAL OBSERVATIONS --- SEPTEMBER, 1982.

Sept. 18/82:


I am still trying to adjust to new conditions. Last Monday evening in astronomy class we were shown the meridian & its key stars, & this helped me tonight in tracing stars such as Vega, Deneb, Altair, & the Big Dipper & polars.

Sept. 20/82

I am not viewing tonight as this is the second in the series of astronomy lectures at Fanchaw College. But I spent all afternoon trying to become completely familiar with the R.A. circles & decl. ring on my telescope. It is not easy to master them, but I must do so in order to handle the instrument in the dark.

OBSERVATIONS FOR:

OCTOBER, 1982.

DATE	VIEWING HOURS	VIEWING CONDITIONS	MOON	PLANETS	STARS
MONDAY 11 th	10:15- 10:30 P.M.	GOOD.	—		PARTICULARLY GOOD VIEW OF ANDROMEDA (M 31). ALSO VIEWED MIZAR & ALCOR, & CAPELLA. VEGA WAS CLEAR. CASSEIOPIA WAS SHARP AS WELL.
SATURDAY 23 rd	7:15- 9:45 P.M.	CLEAR, COLD.	6 DAYS OLD. AT APOGEE (409,400 KM.) EASILY MADE OUT MARIE NECTARUS & ACCOMPANYING MOUNTAINS, SAW APOLLO 12 LANDING SITE.	NOT VISIBLE THIS TIME OF YEAR.	HAD A STRUGGLE TO FIND ANDROMEDA. LENSES STEAMED UP CONSTANTLY. OTHER STARS WERE CLEAR, UNTIL FOGGED UP LENSES ENDED VIEWING.
* Monday, 25 th . *	9 P.M. - 10:30 P.M.	Clear, Cool	8 days old. This viewing was done at a B yrn, Ont. observatory/aspect of my astronomy course at Fanshawe College. Moon views were very generous. (See description of the evening in my notes on the course)	The main re planets are visible only at odd hours & rather poorly at this time of year.	We viewed M13, M.31, Albeiro, the double twins of Lyra, and Andromeda. Some were spectacular.

General Observations -- October, 1952

11th

Have done very little formal observing this month, although I have drawn up a number of charts of the sky & read a great deal from a variety of texts. The weather has not been particularly favorable for observing, & of course, the viewing from my new home is not the best. Tonight I was pleased to have a good view of Andromeda's M. 31. Also saw it through the University of Western Ontario's Physics Building 6-inch refractor on Monday evening, October 4th.

Dr. Harold Vernon - 1950
Dr. Elizabeth Vernon - 1951

23rd.

The weather tonight was clear & cold, but soon fogged up the lenses & after a long battle with this condition I settled for views of the moon & Andromeda. (M 31).

October skies were not generally good for viewing. We have had a lot of rain & ~~cloud~~ cloud, even some snow, & only a few nights have been suitable.

OBSERVATIONS FOR :

NOVEMBER, 1982

DATE	VIEWING HOURS	VIEWING CONDITIONS	MOON	PLANETS	STARS
WED 17 TH	7:45 P.M. 8 P.M.	CLEAR, COOL	NEW. ALREADY PAST THE MY LIMITED HORIZON.	NIL	BIG DIPPER, ANDROMEDA, CASSIOPIA, AND PEGASUS. LINED UP EXACTLY AS MY NEW CHART SHOWS.
<p>↑ ↑</p> <p>* Returned to my viewing area at 10:30 P.M. To see Orion. It was in clear view just over the roof of my house. It is my first view of Orion this fall.</p>					
Tues. 30 th	7 P.M. 8 P.M.	CLEAR AT FIRST, THEN CLOUDY.	Full moon - took 2 photographs with just the camera, no telescope help. 1st picture - 1 minute. 2nd picture - 3 minutes, 10 seconds.		

General Observations - December, 1982

Dec. 30/82 This has been one of the poorest months for viewing that I can ever remember. Night after night has been cloudy or wet or snowing. On one or two occasions when it would have been satisfactory I was either busy or away.

Last week I began making preparations for the December 30th eclipse of the moon, the last full eclipse North America will see until 1989. This morning I awoke early (3 A.M.) to check the sky. Cloudy again. I woke up once more (4:15 A.M.) still cloudy. The last chance I would have to see the full eclipse would be 6 A.M., but the cloud cover never left. Now (11 A.M.) it is perfectly clear & the sun is shining brightly.

12 . 20 . 32 . . 64 . 100 . . 200 . . 400 . .

800 . . 1600

180 1000 640 500 340 250 160 125 80 50 40 25 16

1600 | 1800 | 1400 | 200 | 100 | 64 | 52 | 28 | 12

1600 . . 800 . . 400 . . 200 . . 100 . 64 . . 32 . 20 . 12

~~1600 . . 800 . . 400 . . 200 . . 100 . 64 . .~~

MOON

near lat. quarter. Very sharp along the terminator.



* Sinus - several stars to the west of Sinus. Probably for sketch from its constellation.

Moon is very nearly out of the sky at this time of the month.

PLANETS

No planets visible in the evening at this time of year.

* Viewed from Bill & women is perfectly for the first time. Our excellent location. But no chance to see a power net.

Viewed Venus from Davenport window, contrary to good astronomical practice. Not good eyepiece, however, even with X500. Venus shows yellow & white, & is at full face.

STARS

Orion Nebula - very clear. Viewed from exact position with star diagonal. Did not have access to power, so could not use drive motor.

Ursa Major - Fairly clear, though over London.

Quasar - almost visually overexposed. (SEE SPECIAL SHEET ON DRON) Quasar - (see notes)

Went to Bill & women's lot area tonight. It was very cold & alternately dark & sunny. Was occasionally annoyed by the lights of another car parked nearby.

Orion was clear, but snow reflecting & haze spoiled other views. Ursa Major. * (see notes book for drawing of Orion)

DATE: JAN 19/83

TIME: 8 P.M. - 9:30 P.M.

CONDITIONS: CLEAR, VERY COLD. MOON & SUNSET NAME VIEWING A BIT HAZY

DATE: FEB. 9/83

TIME: 8 P.M.

CONDITIONS: Very cold, clear, star very after 11:00

MOON	PLANETS	STARS
<p>DATE: FEB. 12, 1983. TIME: 9 P.M. - 10 P.M. CONDITIONS: VERY CLEAR + COLD.</p> <p>NOT VISIBLE AT THIS TIME</p>	<p>VIEWED VENUS AGAIN FROM THE BASEMENT WINDOW. IT IS IMPOSSIBLE TO SEE IT FROM MY VANTAGE POINT IN THE FRONT YARD BECAUSE THE ROOFLINE PREVENTS ME. VENUS IS SIMPLY TOO LOW IN THE SKY.</p> <p>I SAW THE PLANET CLEARLY, SHINING FULL-FACE, WHITE WITH A DISTINCTIVE YELLOWISH TINGE.</p> <p>OTHER PLANETS ARE POORLY PLACED JUST NOW OR NOT VISIBLE UNTIL THE PREDAWN HOURS.</p>	<p>I HAD THE BEST VIEWS EVER, RIGHT IN MY OWN FRONT YARD, DESPITE STREET LIGHTS & MY NEIGHBOURS FRONT PORCH LIGHTS.</p> <p>USING ORION AS THE POINTING, I LOOKED AT SIRIUS, POLLUX & CASTOR, CAPPELLA, ELNATH, ALDEBARAN, THE PLEIADES, & PROCYON IN CANIS MINOR.</p> <p>AND I SEARCHED LOW AND HAD FOR THE ORAR</p> <p>NEBULA & ANDROMEDA, BUT SAW NEITHER. I WOULD HAVE TO REPOINT MY OBSERVATIONS MORE ACCURATELY IF I HOPE TO DO THAT. I ALSO LOOKED FOR THE HORSE NEBULA, BUT IN VAIN.</p> <p>STILL, I HAD A GREAT NIGHT.</p>
<p>DATE: scribble TIME: scribble CONDITIONS: scribble</p> <p>* FOR THE FIRST TIME, I SAW THE NEBULA ASSOCIATED WITH SOME OF THE STARS IN THE PLEIADES. CONDITIONS MUST BE VERY GOOD TO SEE THIS, & FEB 12TH WAS SUCH A NIGHT.</p>		

	MOON	PLANETS	STARS
DATE: FEB, 23/73 TIME: 7:15 P.M. 8:35 P.M. CONDITIONS: CLEAR COOL	TOOK SEVERAL PICTURES OF THE 10-DAY OLD MOON. I TRIED A DIFFERENT TIME FRAME FOR EACH SHOT.	NO PLANETS AT THIS TIME OF YEAR EXCEPT VENUS & MARS.	I TOOK 2-15' PICTURES OF ORION, BUT THE MOON IS PRETTY CLOSE & THE NEBULA IS HARDLY VISIBLE TO THE NAKED EYE.
DATE: TIME: CONDITIONS:			

DETAILED OBSERVATION OF ORION NEBULA.

JAN. 19/83.

STRAIGHT UP. STAR
DIAGONAL.



DATE JAN. 19/83 TIME 8 P.M. - 9:30 P.M. SEEING (0-10, 10 BEST) 7

EQUIPMENT REGULAR, BUT WITHOUT POWER. WAS VIEWING
FROM B. GORMAN'S PROPERTY.

MAGNIFICATION X100, X125, X250

COMMENTS HEAVY SNOW REFLECTED LIGHT FROM
QUARTER MOON INTO THE SKY, SO VIEWING WAS A
BIT RESTRICTED. MOON ITSELF IS CLOSE TO
ORION AT THIS TIME. ORION CERTAINLY DOESN'T
LOOK LIKE SPECTACULAR PHOTOGRAPHS IN BOOKS.

PLANET OBSERVATIONS

DATE: APRIL 22/83 TIME: 9:40 P.M.

VIEWING CONDITIONS: GOOD FOR THE
MOST PART. A BIT
PROJECT: CLOUDY NEAR 10 P.M.



EQUIPMENT EMPLOYED:

CELESTRON-8. USED ALL POWERS, INCLUDING BARLOW.

OBSERVATIONS:

VENUS IS VERY SHARP THESE NIGHTS & IS FULL-FACE. IT IS WELL UP IN THE WEST AT SUNSET, & SETS ABOUT THREE HOURS LATER. IT IS MOVING FROM ARIES INTO TAURUS AT THIS TIME. ITS POSITION IS APPROXIMATELY R.A. 3H, 58M, DECL. + 21° 55' AND ITS MAGNIFICATION IS A BRILLIANT -3.5.

PHOTOGRAPH: TIME: 9:50 PM EXPOSURE: ABOUT 5 MIN. FILM USED: DIRA CHROME
PP 110
CAMERA WITH TRIPOD: _____ CAMERA WITH TELESCOPE:

COMMENTS:

I DON'T EXPECT MUCH ON THIS ATTEMPT. CLOUD PARTIALLY OBSCURED THE IMAGE PERIODICALLY AND I ACTUALLY LOST TRACK OF THE EXACT EXPOSURE TIME.

PLANET OBSERVATIONS

DATE: APRIL 25/83 TIME:

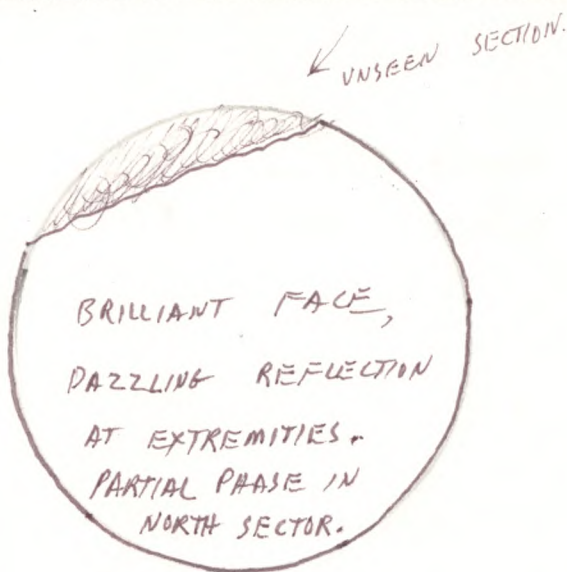
VIEWING CONDITIONS: CLEAR, COOL.

PROJECT:

TRYING TO DETERMINE EXACT PHASE OF VENUS.

EQUIPMENT EMPLOYED:

CELESTRON 8 + VARIOUS EYEPIECES SUPPLEMENTED BY FILTERS + BARLOW LENS.



OBSERVATIONS:

LOWER POWER REVEALED MORE THAN BARLOW-ASSISTED POWER. LATTER PRODUCED FUZZINESS. BY JULY IT WILL APPEAR AS A CRESCENT, + I AM SURE THAT IT IS ALREADY STARTED. I WILL CHECK IT OUT AS OFTEN AS POSSIBLE IN THE DAYS + WEEKS AHEAD.

VENUS WILL DISAPPEAR FROM VIEW IN JULY AND REAPPEAR IN THE MORNING IN SEPTEMBER.

PHOTOGRAPH: TIME: _____ EXPOSURE: _____ FILM USED: _____

CAMERA WITH TRIPOD: _____ CAMERA WITH TELESCOPE: _____

COMMENTS:



- A - SUPERIOR CONJUNCTION (FULL FACE. BRIGHT)
- B - INFERIOR CONJUNCTION (INVISIBLE TO US)
- C - BRIGHTEST PHASE.



DEEP SKY OBSERVATIONS



* MAY 11/83
 DATE: * MAY 12/83

TIME: 10.P.M. - 11.P.M.
 BOTH NIGHTS

VIEWING
 CONDITIONS:

EXCELLENT-

STAR(S) OBSERVED:

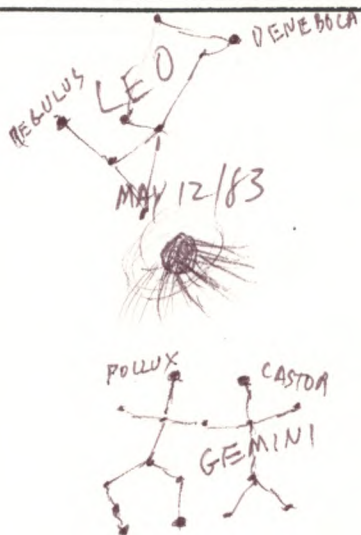
IRAS-IRAKI-ALCOCK COMET

CONSTELLATION (S):

NEAR URSA MAJOR ON MAY 11TH.
 BETWEEN LEO + GEMINI ON MAY 12TH.

OBSERVATIONS

- 1. NAKED EYE
- 2. BINOCULARS
- 3. TELESCOPE
- 4. EYEPIECES 80 X
100 X 125 X
250 X — X
- 5. WITH BARLOW *



MAY 11/83



VISUAL IMPRESSIONS OF INDIVIDUAL OBJECTS:

COMET WAS LARGE (ABOUT MOON'S DIAMETER) AND GLOWED MARKEDLY, PARTICULARLY ON THE DOWNWARD SIDE. THE HEAD WAS CLEARLY VISIBLE, LOOKING STAR-LIKE. THERE WAS NO MOONLIGHT TO DULL THE SPECTACLE. PROBABLY WILL SINK FROM VIEW BY FRIDAY.

PHOTOGRAPH: TIME: _____ EXPOSURE: _____ FILM USED: _____

CAMERA WITH TRIPOD: _____ CAMERA WITH TELESCOPE: _____

COMMENTS:

PLANET OBSERVATIONS

DATE: July 22/83 TIME: 10 P.M.

VIEWING CONDITIONS:

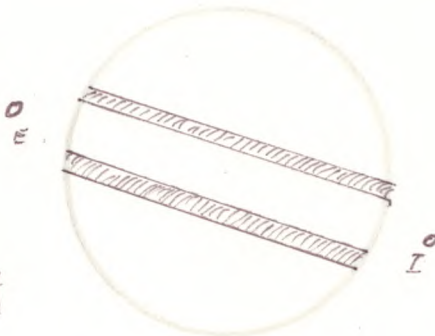
GOOD TO FAIR

PROJECT:

VIEWING PLANETS

EQUIPMENT EMPLOYED:

CS8, 50X, 80X + 100X, with Barlow.



OBSERVATIONS:

A BIT HAZY AT 300X OR OVER. TOO MUCH LIGHT FROM STREET & NEIGHBOUR'S PORCH LIGHTS.

PHOTOGRAPH: TIME: _____ EXPOSURE: _____ FILM USED: _____

CAMERA WITH TRIPOD: _____ CAMERA WITH TELESCOPE: _____

COMMENTS:

PLANET OBSERVATIONS

DATE: JULY 22/83 TIME: 10:15 P.M.

VIEWING CONDITIONS:

GOOD TO FAIR.

PROJECT:

TO LOOK FOR SATURN

EQUIPMENT EMPLOYED:

C.S.B., 50X, 80X, 125X,
BARLOW.



OBSERVATIONS:

EXCELLENT VIEWS OF SATURN AFTER A YEAR OF NO PLANETS, - RELATIVELY SPEAKING. RINGS WERE SHARP AND CLEAR. BEST AT ABOUT 200X-250X.

PHOTOGRAPH: TIME: _____ EXPOSURE: _____ FILM USED: _____

CAMERA WITH TRIPOD: _____ CAMERA WITH TELESCOPE: _____

COMMENTS:

PLANET OBSERVATIONS

DATE: August 6/83 TIME: 10:15-11:30 P.M.

VIEWING CONDITIONS:

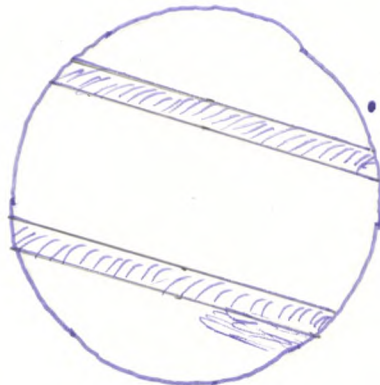
QUITE GOOD. AIR A BIT MUGGY

PROJECT: BECAUSE OF WARM WEATHER.

VIEWING JUPITER

EQUIPMENT EMPLOYED:

CELESTRON "8" WITH BARLOW-ASSISTED
OCULARS. UP TO 200X THE VIEWING
WAS FAIR.



OBSERVATIONS:

MOONS WERE IN AN ODD CONFIGURATION, (SEE DIAGRAM).

I THOUGHT I COULD SEE THE GREAT RED SPOT AT INFREQUENT
INTERVALS, BUT ~~IT~~ CANNOT BE SURE.

PHOTOGRAPH:

TIME: 10:40 PM EXPOSURE: ^{100X, 2 SECS} 1/8 SEC. FILM USED: 100 ASA, DIRA CHROME
(DIRECT FILM CO.)

CAMERA WITH TRIPOD: _____ CAMERA WITH TELESCOPE: ✓

COMMENTS:

I TRIED 3 SHOTS OF JUPITER AT SPEEDS INDICATED
ABOVE. THE TELESCOPE CENTRES BEAUTIFULLY WITH THE
CAMERA ATTACHED.

* N.B. → SATURN WAS UP, BUT TOO FAR BELOW OUR ROOFLINE
TO VIEW.

Friday, August 12/83

Tonight I took my camera + tripod to Bill Gorman's place to view the Perseid meteor shower. I arrived shortly before midnight, set up my equipment, + took a one-hour exposure, sitting at Perseus. From my position in the back lane, Perseus was immediately above the barn.

While allowing the exposure to run its time I viewed the heavens with my binoculars, wishing all the time that I could have brought my telescope. But I have no regular tripod, so if I'm photographing, I cannot use the telescope. The heavens were absolutely magnificent. The Milky Way was spectacular. Thousands of stars were on view in every direction, despite some glow from Gordon lights in the east ~~north east~~ sky. Andromeda was beautiful, + would have looked great in the telescope.

I saw eight distinct meteors, some very dramatic + spectacular, during the hour. I'm sure I missed others, for I was really distracted by the magnificence of the entire sky show. Two of them blazed the entire width of the heavens + ~~sp~~ sputtered out in a special flash + puff of smoke. One possible flaw in the whole affair concerns the camera. When I was dismantling it, I realized the lens was sweating. How long was it like this?? I can only hope it was just at the end of the photographic session. It was frame number 60.

PLANET OBSERVATIONS

DATE: SEPT. 14/83 TIME: 10 P.M.

VIEWING CONDITIONS: CLEAR, COOL.

PROJECT:

OBSERVING JUPITER + LOOKING
FOR URANUS.

EQUIPMENT EMPLOYED:

STANDARD. NO FRILLS.

COULD NOT FIND URANUS.



OBSERVATIONS:

JUPITER WAS RATHER LOW IN THE SKY AND
CONSEQUENTLY HAZY AT POWERS ABOVE X125. I TRIED
ONE PHOTOGRAPH OF IT, NEVERTHELESS

PHOTOGRAPH: TIME: 10:15 P.M. EXPOSURE: 45" FILM USED: 100 ASA - SLIDE

CAMERA WITH TRIPOD: _____ CAMERA WITH TELESCOPE:

COMMENTS:

GUESSED AT EXPOSURE.

DEEP SKY OBSERVATIONS

DATE: SEPT. 15/83 TIME: 10 P.M.

VIEWING CONDITIONS: CLEAR, COOL.

STAR(S) OBSERVED:

OPIUCHUS, SERPENS, URSA MAJOR, CASSIOPIA, ANDROMEDA.

CONSTELLATION (S):

OBSERVATIONS

- 1. NAKED EYE _____
- 2. BINOCULARS _____
- 3. TELESCOPE _____
- 4. EYEPIECES _____ X
 _____ X _____ X
 _____ X _____ X
- 5. WITH BARLOW _____ *

VISUAL IMPRESSIONS OF INDIVIDUAL OBJECTS:

PHOTOGRAPH: TIME: _____ EXPOSURE: _____ FILM USED: _____

CAMERA WITH TRIPOD: _____ CAMERA WITH TELESCOPE: _____

COMMENTS:

DEEP SKY OBSERVATIONS

DATE: SEPT. 15/83 TIME: 10 P.M.

VIEWING CONDITIONS: CLEAR, COOL.

STAR(S) OBSERVED:

VARIOUS.

CONSTELLATION (S):

ORION, SERPENS, URSA MAJOR, CASSIOPIA, ANDROMEDA.

OBSERVATIONS

- 1. NAKED EYE
- 2. BINOCULARS
- 3. TELESCOPE
- 4. EYEPIECES 50 X
100 X 125 X
 X X
- 5. WITH BARLOW *

TRIED ONE PHOTOGRAPH OF ANDROMEDA. I COULDN'T ACTUALLY SEE IT THROUGH MY TELESCOPE, BUT HAD DONE SO EASILY WITH BINOCULARS & THUS KNEW WHERE TO AIM.

VISUAL IMPRESSIONS OF INDIVIDUAL OBJECTS:

PHOTOGRAPH: TIME: 10:30 P.M. EXPOSURE: 10/11 MINUTES FILM USED: ASA 100 - SLIDES

CAMERA WITH TRIPOD: _____ CAMERA WITH TELESCOPE:

COMMENTS:

DEEP SKY OBSERVATIONS

DATE: FEB. 22/84 TIME: 9P.M. - 10P.M. VIEWING CONDITIONS: VERY GOOD. WEATHER CLEAR & CRISP. ABOUT 0°-2° C.

STAR(S) OBSERVED: PRIMARILY ORION & ITS GREAT NEBULA.
ALSO VIEWED THE PLEIADES & SIRIUS.

CONSTELLATION (S):

OBSERVATIONS

- 1. NAKED EYE _____
- 2. BINOCULARS ✓
- 3. TELESCOPE ✓
- 4. EYEPIECES 40 X
80 X 100 X
- 125 X 250 X
- 5. WITH BARLOW ✓ *

THE ORION NEBULA WAS BEAUTIFULLY CLEAR.



VISUAL IMPRESSIONS OF INDIVIDUAL OBJECTS:

PHOTOGRAPH: TIME: _____ EXPOSURE: _____ FILM USED: _____
CAMERA WITH TRIPOD: _____ CAMERA WITH TELESCOPE: _____

COMMENTS:

DEEP SKY OBSERVATIONS

DATE: May 20/84 TIME: 10:30 P.M.
11:45 P.M. VIEWING CONDITIONS: Very good.

STAR(S) OBSERVED: M 81, 82, 57, Coma Berenices, M 13.

CONSTELLATION (S): also looked at Mars in opposition as well as Saturn

OBSERVATIONS

- 1. NAKED EYE
- 2. BINOCULARS
- 3. TELESCOPE
- 4. EYEPIECES X
- X X
- X X
- 5. WITH BARLOW *

} other people's telescopes. Part of a general viewing by members of the London Centre, RASC, at Elginfield.

VISUAL IMPRESSIONS OF INDIVIDUAL OBJECTS:

Beautiful resolutions of all stars & planets listed above.

PHOTOGRAPH: TIME: _____ EXPOSURE: _____ FILM USED: _____

CAMERA WITH TRIPOD: _____ CAMERA WITH TELESCOPE: _____

COMMENTS:

May, 1984, Viewing

Sunday, May 20th, 1984 — Elginfield area.

The London Centre of the RASC had an observing session near Elginfield tonight. Seven carloads of observers were there with a wide variety of telescopes + binoculars. The weather was clear + cool + the viewing magnificent. We looked at the following:

Mars + Saturn

M 81 + M 82

M 57 — Whirlpool Galaxy.

Coma Berenices

M 13 — Hercules Cluster.

Wednesday, May 23/84 — Home.

Tonight I set up my telescope on the patio + painstakingly dived it up on the Pole Star. Then I had good views of Mars + Saturn, + took photographs of both planets. My drive gas + slow motions control appear to work well.

PLANET OBSERVATIONS

DATE: June 24/84 TIME: 9:30 P.M.
TO
MIDNIGHT

VIEWING CONDITIONS: Excellent. Best so far this year.

PROJECT: To see Mars, Jupiter & Saturn.

EQUIPMENT EMPLOYED:

Regular equipment.

OBSERVATIONS:

Beautiful views of all three planets. Showed them to David Gorman & his two sons, Harry & Scott. They were enthralled! Was able to use high power eyepieces with Mars & Saturn, & thus could see the rings of Saturn very clearly. I should have used filters on Mars, for it was too bright to see surface features. Jupiter looked great in blue light.

PHOTOGRAPH: TIME: _____ EXPOSURE: _____ FILM USED: _____

CAMERA WITH TRIPOD: _____ CAMERA WITH TELESCOPE: _____

COMMENTS:

DEEP SKY OBSERVATIONS

DATE: June 24/84 TIME: 9:30 P.M.
 TO
MIDNIGHT VIEWING CONDITIONS: Superb! Best of the season.

STAR(S) OBSERVED: - no special stars.

CONSTELLATION (S): Ursa Major, ~~and~~ Scorpius, Sagittarius.

OBSERVATIONS

- 1. NAKED EYE _____
- 2. BINOCULARS _____
- 3. TELESCOPE ✓
- 4. EYEPIECES 100 X
165 X 250 X
142 X 190 X
- 5. WITH BARLOW *

An unusually clear, crisp evening. Used Gorman's site & power outlet. Showed various stars & planets to David Gorman & his two boys, Harry & Scott.

At 11 P.M., just east of Jupiter, I picked up some nebula or galaxy. Had a bit uncertain of its identity, but it was in Sagittarius & could be M8, M20, or M21. Even M23 or M17+M18. Just not sure.

* It was somewhat like M16, but I don't think it was that particular object. It would be too far north.

VISUAL IMPRESSIONS OF INDIVIDUAL OBJECTS:

I was able to use high power optics because of the clear night. My newly constructed dew-cap worked beautifully. Occasionally an eyepiece would become foggy, but never the telescope's objective.

PHOTOGRAPH: _____ TIME: _____ EXPOSURE: _____ FILM USED: _____
 CAMERA WITH TRIPOD: _____ CAMERA WITH TELESCOPE: _____

COMMENTS:

* according to Jack Newton's chart, and trying it with the Observer's Handbook - 1984 on the position of Jupiter, I believe I viewed M25. Its location is closest to the object I saw. Jupiter + M25 were all in the same view.

DEEP SKY OBSERVATIONS

DATE: August 24/84 TIME: 9:30^{P.M.} - 11:30^{P.M.} VIEWING CONDITIONS: Excellent.

STAR(S) OBSERVED:

M6, M7, M8, Andromeda (M31).

CONSTELLATION (S):

as above.

OBSERVATIONS

- 1. NAKED EYE
- 2. BINOCULARS
- 3. TELESCOPE
- 4. EYEPIECES 100 X
125 X 165 X
 X X
- 5. WITH BARLOW *

M6, M7 & M8 were all quite clear. Had been able to take photographs (might have had some very good shots).

VISUAL IMPRESSIONS OF INDIVIDUAL OBJECTS:

Andromeda was rather hazy, which is likely because city lights obscure the sky at that point.

PHOTOGRAPH: _____ TIME: _____ EXPOSURE: _____ FILM USED: _____
CAMERA WITH TRIPOD: _____ CAMERA WITH TELESCOPE: _____

COMMENTS:

DEEP SKY OBSERVATIONS

DATE: DEC. 30/84 TIME: 7:30^{P.M.} - 8:40^{P.M.} VIEWING CONDITIONS: FAIR. FIRST-QUARTER
MOON DULLED VIEW.

STAR(S) OBSERVED:

GREAT NEBULA OF ORION. Also PLIADIES,

CONSTELLATION (S):

ORION

OBSERVATIONS

- 1. NAKED EYE
- 2. BINOCULARS
- 3. TELESCOPE
- 4. EYEPIECES 125 X
160 X
 X
- 5. WITH BARLOW *

Orion was disappointing because of the moon's phase, but it was my first view of the season. We have had a terrible November + December, with just a bare handful of clear nights.

VISUAL IMPRESSIONS OF INDIVIDUAL OBJECTS:

PHOTOGRAPH: TIME: _____ EXPOSURE: _____ FILM USED: _____

CAMERA WITH TRIPOD: _____ CAMERA WITH TELESCOPE: _____

COMMENTS:

DEEP SKY OBSERVATIONS

DATE: MARCH 18/85 TIME: 8:30 P.M. VIEWING CONDITIONS: GOOD. VERY COLD + CLEAR.

STAR(S) OBSERVED:

SIRIUS, ORION NEBULA, URSA MAJOR, PLEIADES.

CONSTELLATION (S):

OBSERVATIONS

- 1. NAKED EYE
- 2. BINOCULARS
- 3. TELESCOPE
- 4. EYEPIECES 50 X
- 100 X 125 X
- 165 X X
- 5. WITH BARLOW *



VISUAL IMPRESSIONS OF INDIVIDUAL OBJECTS:

ORION WAS PARTICULARLY SHARP. THE GREAT NEBULA WAS CLEAR + CRISP, OUTLINES WERE PRECISE. URSA MAJOR IS IN SERIOUS COMPETITION WITH CITY LIGHTS AT THIS TIME OF YEAR.

PHOTOGRAPH: TIME: _____ EXPOSURE: _____ FILM USED: _____
CAMERA WITH TRIPOD: _____ CAMERA WITH TELESCOPE: _____

COMMENTS:

DEEP SKY OBSERVATIONS

DATE: MARCH 31/86 TIME: 10 P.M. VIEWING CONDITIONS: FAIR TO GOOD.

STAR(S) OBSERVED: ORION NEBULA, SIRIUS, GEMINI TWINS, BETELGEUSE, BELLATRIX, ALCOR & MIZAR.

CONSTELLATION (S): ORION & GEMINI.

OBSERVATIONS

- 1. NAKED EYE
- 2. BINOCULARS
- 3. TELESCOPE
- 4. EYEPIECES 50 X
80 X 125 X
 X X
- 5. WITH BARLOW *

ORION IS TURNED ON ITS SIDE NOW.
NEBULA APPEARED AS SHOWN BELOW.



BEST VIEW WAS WITH X80 + X100. BLURRED WITH BARLOW, INDICATING HAZY CONDITIONS.

VISUAL IMPRESSIONS OF INDIVIDUAL OBJECTS:

FOR THE FIRST TIME I MADE USE OF MY NEW FINDERSCOPE. IT WORKED BEAUTIFULLY. EASILY ADJUSTED AND ALIGNED TO THE TELESCOPE.

PHOTOGRAPH: TIME: _____ EXPOSURE: _____ FILM USED: _____
CAMERA WITH TRIPOD: _____ CAMERA WITH TELESCOPE: _____

COMMENTS:

DEEP SKY OBSERVATIONS

DATE: SEPT. 23/87 TIME: 9:30 P.M. VIEWING CONDITIONS: FAIR. TOO MUCH LIGHT FROM STREET AND CITY.

STAR(S) OBSERVED:

ANDROMEDA, URSA MAJOR GROUP, ARCTURUS, MILKY WAY.

CONSTELLATION (S):

URSA MAJOR, CASSIOPIA.

OBSERVATIONS

- 1. NAKED EYE _____
- 2. BINOCULARS
- 3. TELESCOPE
- 4. EYEPIECES 100 X
125 X 185 X
80 X _____ X
- 5. WITH BARLOW *

ANDROMEDA CENTRED (WITH DIFFICULTY). JUST A BLUR, BUT ANDROMEDA NEVERTHELESS.



VISUAL IMPRESSIONS OF INDIVIDUAL OBJECTS:

PHOTOGRAPH: _____ TIME: _____ EXPOSURE: _____ FILM USED: _____
CAMERA WITH TRIPOD: _____ CAMERA WITH TELESCOPE: _____

COMMENTS:

DEEP SKY OBSERVATIONS

DATE: SEPT. 12/90 TIME: 9 P.M. - 10:20^{P.M.}

VIEWING CONDITIONS: Excellent, though observations made in the yard. Street lights & neighbour's lights made viewing somewhat difficult.

STAR(S) OBSERVED:

denab, Altair, Vega, Arcturus,

CONSTELLATION (S): *Mizar, Alcor.*

Pegasus, Aquarius, Cygnus, Aquila.

OBSERVATIONS

- 1. NAKED EYE _____
- 2. BINOCULARS _____
- 3. TELESCOPE _____
- 4. EYEPIECES _____ X
- _____ X _____ X
- _____ X _____ X
- 5. WITH BARLOW _____ *

7.4 Plossel did an outstanding job of separating Mizar into its double image. Looked like this:

Plossel was too strong for other stars. The 16" Kōryū, 16.3. Criterion, 20" Erfle, 12.5 Meade & the 25~~mm~~ Celestron all gave satisfactory views. The Erfle & Celestron eyepieces were helped by the Barlow.

VISUAL IMPRESSIONS OF INDIVIDUAL OBJECTS:

I was looking for some globular & open clusters among the constellations listed above, but the home conditions are just not conducive to such viewing.

PHOTOGRAPH: TIME: _____ EXPOSURE: _____ FILM USED: _____

CAMERA WITH TRIPOD: _____ CAMERA WITH TELESCOPE: _____

COMMENTS:

February 8/91

Unusually clear + mild weather. Temperature around 10°C .

Took a few pictures of Orion Nebula at about 8:15 P.M. Tried the following times: instant - 10" - 15" - 20".
Also took two pictures of Jupiter - instant - 10".

North - up.

December 20/94

Very clear, crisp night. Light from street & surrounding houses very bad. Made seeing a disappointment.

1. Looked at Orion Nebula at about 8:45 P.M.



Could not separate the
Central star area into
its 4 components.

2. Looked at Pleiades. Not very sharp.

3. Could not find the Crab Nebula

4. Watched the rising full moon, very bright.