

**Volume**

**26**

**March 16, 2006  
to  
October 12, 2006**

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26

- Heavyweight paper
- Papier épais

*Leo Enright  
Observing Log*

*Mar. 16, 2006 - Oct. 12, 2006*

# 80

Pages

26.7 x 20.3 cm

# MATHS/SCIENCES



13220

0 65800 13220 7

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Oct. 13

Since Sept. 8:

18 entries: 5 solar. few spots  
5 Ho <sup>#23, 14, 0</sup>  
8-night

Oct. 9 - field 10'clock

Oct. 12 - 11-7 11 o'clock

Oct. 21 ~~22~~ several  
Key List objects

Oct. 27

# Observing Log

Code:

Year Day Date Time

Place

Sky Conditions:  
S=Seeing T=Transparency

Instruments

Time:

UT = Universal Time

Places:

oo = Oso Observatory  
nd = north deck  
sd = south deck  
sh = shoreline of lake  
ss = solar station  
t = table at solar station  
in = indoors  
r = roof of house  
ice = ice on lake  
y = yard  
ta = laneway by = backyard  
FL = Florida pl = pool

Instruments:

C-14 = Celestron 14 - 35.5 cm SCT

C-8 = Celestron 8 - 20 cm SCT

Ast = Astroscan 2001 - 10.5 cm RFT

12 1/2" = Denise's 32 cm Meade Dobsonian

20x100b = Celestron 20x100 binoculars

11x80b = 11x80 binoculars

9x63b = 9x63 binoculars

7x35b = 7x35 binoculars

18x501sb = Canon 18x50 IMAGE STABILIZED binoculars

P.S.T. = Coronado Personal Solar Telescope

32 = 32 mm ocular

32-2 = 32 mm 2" ocular

K = Kellner

O = Orthoscopic

Ko = König

WA = Wide Angle

P = Plössl

ph = photography

P/b = piggyback

a/a = off axis

Ba = Barlow

A.P.F. = Astrophysics Solar Filter

T.O.F. = Thousand Oaks Solar Filter

Objects:

PN = Planetary Nebula

GC = Globular Cluster

OC = Open Cluster

SG = Spiral Galaxy

EG = Elliptical Galaxy

DS = Double Star

LPV = Long Period Variable

Atlases:

U = Uranometria 2000.0

U210 = Uranometria 2000.0 Chart 210

AAVSO = AAVSO Variable Star Atlas

Cam = Cambridge Star Atlas (2000.0)

MSA = Millennium Star Atlas

Observing Log  
 25th Oct 1971  
 2000-2100 hrs  
 Observing Time

Time: 20.00  
 Alt = 1000m  
 Az = 100°  
 Dist = 1000m  
 Obs = 1000m  
 Ref = 1000m  
 Obj = 1000m

Objects:  
 M1 = Messier 1  
 G1 = Globular Cluster  
 S1 = Spiral Galaxy

Alt = 1000m  
 Az = 100°  
 Dist = 1000m  
 Obs = 1000m  
 Ref = 1000m  
 Obj = 1000m

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 Az = 100°  
 Dist = 1000m  
 Obs = 1000m  
 Ref = 1000m  
 Obj = 1000m

Observing Log  
 25th Oct 1971  
 2000-2100 hrs  
 Observing Time

Time: 20.00  
 Alt = 1000m  
 Az = 100°  
 Dist = 1000m  
 Obs = 1000m  
 Ref = 1000m  
 Obj = 1000m

Objects:  
 M1 = Messier 1  
 G1 = Globular Cluster  
 S1 = Spiral Galaxy

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 Az = 100°  
 Dist = 1000m  
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 Obj = 1000m

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 Ref = 1000m  
 Obj = 1000m

2006 M-T. Mar 15-16 AM. 5:11-5:40 a.m. E.S.T. 18x50ISb  
10-11-10:40 UT FL: outside lanai S?T5 (1/p; gml) ne;  $\wedge$   
ne: brilliant Venus in the E.; Jupiter very high in the SE;  
the very bright gibbous moon about 30° above the  
SE horizon, the Summer Triangle in the NE.

18x50ISb: Venus, Jupiter and 2 or 3 of its moons,  $\alpha$  Her  
& Oph, IC4665,  $\beta$  Oph, the "Taurus Poutrowski"  
asterism, the triangle of stars containing  $\delta$  Her,  
 $\gamma$  Oph, the area of RS Oph which I examined  
carefully and may have seen ~~it~~, though the  
nova, but was not absolutely certain of seeing  
it, though I may have seen the star closest to it  
as shown on the AAUSO Map 1744-06 (b). I  
observed the comet C/2006 A1 (Pojmanski)  
which was approximately at R.A.: 21h 46.5m;  
Dec.: +28° 55'. (See Charts 65 and 47  
of Uranometria 2000.0 DSA.) It was  
probably at about mag. 7.7. I was not sure of  
seeing any tail on the comet, with the  
light pollution and the bright moonlight in  
the sky.

- not sure of seeing  
the nova

Comet  
C/2006 A1  
(Pojmanski)  
(mag. 7.7?)  
(14)

Th.-F. Mar 23-24 03:20-03:25 UT place in Cicero, N.Y. ne; 7x36  
Bill & Mary Lou Rice's S?T6 (1/p)  $\wedge$   
ne: While in the Syracuse area following the death  
of Denise's mother, I observed briefly seeing  
the bright stars of winter, or some of them  
in the SW sky, as well as Mars and  
Saturn.

7x35b: With a pair of binoculars, I observed M44  
and some other areas of the sky.

M.-T. Mar 27-28 m. 5:11-5:21 a.m. E.S.T.  
10:11-10:21 UT FL: outside lanai twl ne; 18x50ISb  
ne: With conditions somewhat unfavourable for serious

no: With conditions somewhat unfavorable for service  
M.T. Mar 27-28 m. 10:11-10:21  
211-5:400 m. 10:21-10:31

R330: With part of pressure, I observed 100  
and some other stars at the sky

no: While in the pressure was 20 mm Hg  
of pressure rather I observed directly seeing  
the bright stars of winter or some other  
in the sky, as well as Mars and

at 10:00 m. 10:00-10:10  
probably a faint mag. 7.7. I was out one of  
of 1000 stars 8000.0. I.A. It was  
Dec: 10:00 (See charts 62 and 47  
which were approximately R.A. 10:00  
observed the comet (see M. B. 10:00)  
at 10:00 m. 10:00-10:10  
it, though I may have seen the comet for  
now, but not absolutely certain of seeing  
comet, and may have seen the comet for

no: The area of R.A. 10:00 which I observed  
the triangle of stars containing 8 for  
X 10, 10:00, 10:00, the "Taurus buttons"  
observed 5 or 6 of its moons after  
25: 10:00, the summer triangles in the sky

no: brilliant stars in the sky, I observed 100  
the very bright dipole was about 30" above the  
25: 10:00, the summer triangles in the sky

211-5:400 m. 10:21-10:31  
M.T. Mar 27-28 m. 10:11-10:21

no: With conditions somewhat unfavorable for service  
M.T. Mar 27-28 m. 10:11-10:21  
211-5:400 m. 10:21-10:31

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which were approximately R.A. 10:00

observed the comet (see M. B. 10:00)

at 10:00 m. 10:00-10:10

it, though I may have seen the comet for

now, but not absolutely certain of seeing

comet, and may have seen the comet for

2006

observing, I observed or tried to observe, the E. sky. There seemed to be a haze or prevalence of "misty clouds" in that part of the sky. I was able to see brilliant Venus, and in the NE sky the Summer Triangle of stars.

18X50ISb: Venus and certain areas of the sky, including some, or most, of the bright stars of the constellation Delphinus. I observed the area E and slightly NE of the star Deneb, but did not knowingly see C/2006A1 (Pojmanski). Also I did not see the nova RS Ophiuchi.

W-TH Mar 29-30<sup>m</sup> 5:10-5:20 a.m. E.S.T  
10:10-10:20 UT FL: outside lanai twl ne; 18X50ISb  
ne: Shortly after the beginning of astronomical twilight, I observed the E sky with considerable misty cirrus cloud making it difficult to see fainter stars. I saw brilliant Venus and the stars of the Summer Triangle.

18X50ISb: I saw the bright stars of the constellation Delphinus. I briefly searched some of the area NE of the star Deneb, but did not knowingly see the comet.

Th.-F. Mar. 30-31 00:25-00:30 UT FL: la twl ne  
-I observed the thin lunar crescent about 38 hours 15 minutes old - low in the W, about  $10^{\circ}$ - $12^{\circ}$  above the horizon and slightly above the roof of the house across the street. Earthshine was very obvious on the moon. It had been the New Moon of the Total Solar Eclipse seen in the Eastern



observing I observed or tried to observe the E sky. There seemed to be clouds or haze of water clouds in that part of the sky. I was able to see brilliant stars in the NE sky the summer triangle of stars.

185215: There are certain areas of the sky including some or most of the bright stars of the constellation Cygnus. I observed the stars E and slightly N of the star Deneb, but did not identify any.

185215: I saw the bright stars of the constellation Cygnus. I saw the star Deneb, but did not identify any. I saw the star Deneb, but did not identify any.

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2006

Mediterranean Sea. I also observed the bright stars of Orion high in the S. and Sirius, Procyon and Saturn almost in a row high in the ESE with Saturn slightly E of the zenith, and Castor and Pollux quite near the zenith.

02:30 - 03:20 UT FL: la S(?) T5 (1/p) ne; 18x5015b  
ne: stars of winter in the SW; Mars about  $3^\circ$  from  $\beta$  Tauri in the W.; Saturn near the zenith.

18x5015b: Saturn and M44, M67, M41, M42, NGC 2244 and area; Plaskett's Star, Christmas Tree asterism and S Mon, R Leonis ~~very~~ very bright compared the last time I had seen it - probably near maximum.

5:27 - 5:35 a.m. E.S.T.  
M. 10:27 - 10:35 UT FL: outside lanai twl ne; 18x5015b  
ne: During early twilight, I observed brilliant Venus in the E, and the Summer Triangle in the NE.

18x5015b: Venus; the area of RS Oph, but I was not sure of seeing the nova which by now had faded considerably; the bright stars of the constellation Delphinus; the area NE of the star Deneb, but I was not sure of seeing the comet.

S.-S. Apr. 1-2 00:45 - 01:50 UT FL: la S? T5 (1/p; cml) ne; 18x5015b  
ne: bright stars of Orion in the S.; Mars in the W.; Saturn very high and near the zenith.  
18x5015b: M41, M42, M35, M36, M37, M38, R Leonis very bright and near its Maximum (i.e.,

Notes: Saturn in the W. Saturn near the  
ac stars of water in the SW. Mars about 3.  
03:30 - 03:50 UT. Field 2712 (top) reversed

Notes: Saturn near the  
slightly E of the center, and Saturn and Pollux  
about a few days in the ESE with Saturn  
Orion high in the S. and Sirius, Procyon and Betelgeuse  
Notes: Saturn near the  
ac stars of water in the W. Saturn near the

Notes: Saturn and M47, M48, M54, M55,  
NGC 2571, NGC 2572, NGC 2573, NGC 2574  
Christine L. has obtained the last time I had  
Notes: Saturn near maximum.  
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Notes: Saturn near maximum.

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2006

Lunar Occultation  
of stars of the  
Pleiades.

"near-graze" of  
Alcyone ( $\eta$  Tau)

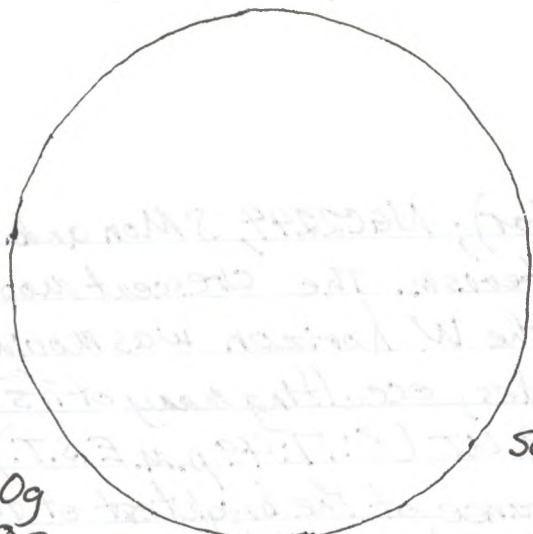
bright for this star); NGC2244, S Mon and the Christmas Tree asterism. The crescent moon, about  $25^\circ$  above the W. horizon was moving through the Pleiades, occulting many of its stars. At about 1:17:49 UT (8:17:49 p.m. E.S.T.) I saw the disappearance of the brightest of the 3 stars in the little triangle of stars near Eta Tauri (Alcyone), the brightest of the Pleiades. Eta Tauri itself, from this latitude was extremely close to being a graze. For about 4 minutes I watched it move among the bright dots from the mountaintops whose peaks reached into the sunlit area near the moon's South Pole. Then at 01:32:14 UT (8:32:14 p.m. E.S.T.) I thought I saw it disappear, but it had reappeared by about 01:38:59 UT (8:38:59 p.m. E.S.T.). The stars Pleione and Atlas had not been occulted by the time I ended the observing session.

S.-M. Apr. 2-3 03:20 - 03:25 UT FL: Ia SPT6 (1p; cul) ne  
- crescent moon about  $15^\circ$  above the W. horizon,  
Mars about  $10^\circ$  above, and slightly to the left  
from, the moon; Saturn about  $20^\circ$  WSW  
from the zenith; Regulus about  $10^\circ$  E. of  
the zenith; Arcturus and Spica well up in  
the E sky

m. 5:56 - 5:58 a.m. E.D.T  
9:56 - 9:58 UT FL: outside lanai twl(?) ne

At about the beginning of astronomical twilight,  
I observed brilliant Venus in the E. and the  
Summer Triangle of stars in the NE, and some

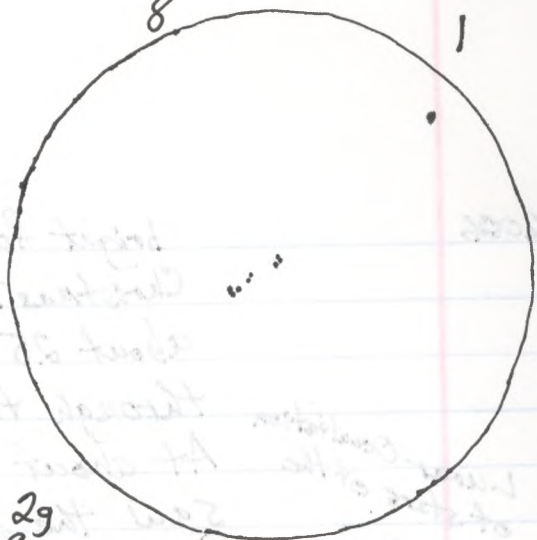
0g  
05  
RSN0



sc

Apr. 8  
18:55-19:00 UT

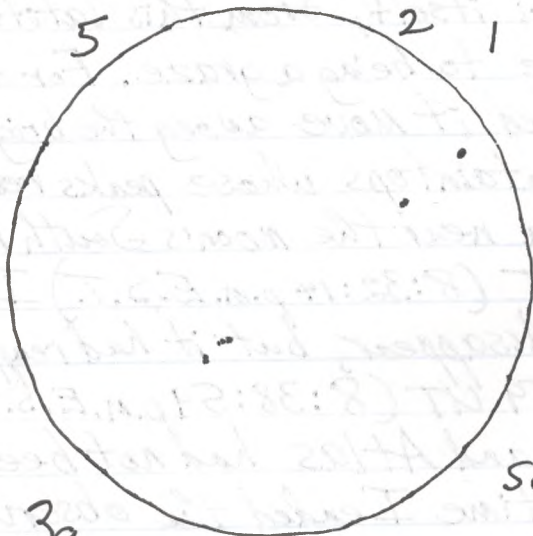
2g  
95  
RSN29



sc

Apr. 9.  
19:25-19:30 UT

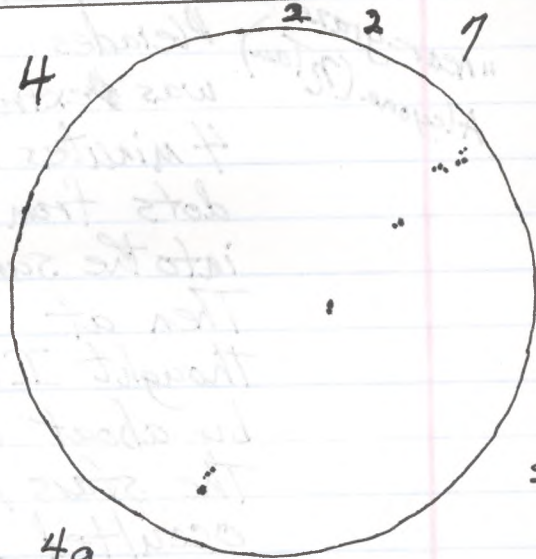
3g  
85  
RSN38



sc

Apr. 10  
17:20-17:25 UT

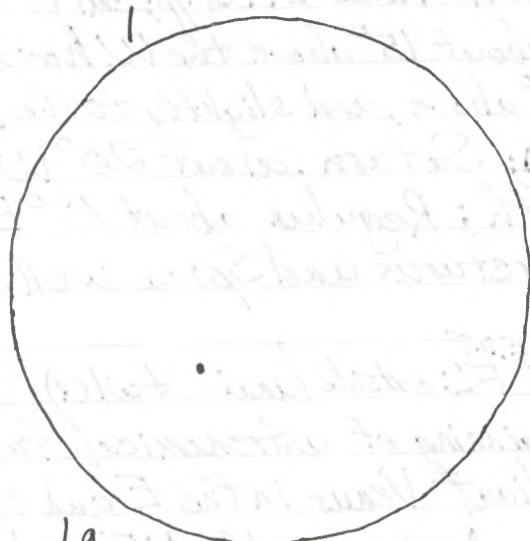
4g  
155  
RSN55



sc.

Apr. 11  
18:00-18:05 UT

1g  
15  
RSN11



sc

Apr. 16  
16:50-15:55 UT

2006

of the bright stars of Cygnus.

Sa. Apr. 8 18:55-19:00 UT t C-8, 32, 28, 20, 15.5  
Sun O<sub>9</sub> O<sub>5</sub> RSN0 T.O.F.

Sa. Apr. 8 19:05-19:10 UT nd P.S.T., 20, 20E, 15.5  
Sun in H $\alpha$  - no obvious prominences seen.

Su. Apr. 9 19:25-19:30 UT t C-8, 32, 28, 20, 15.5  
Sun 2g 9s RSN29 T.O.F.

Su. Apr. 9 19:35-19:40 UT nd P.S.T., 20, 28, 20E, 15.5  
Sun in H $\alpha$  - no obvious prominences, but perhaps "hints" of such.

M. Apr. 10. 17:20-17:25 UT t C-8, 32, 28, 20, 15.5  
Sun 3g 8s RSN38 T.O.F.

M. Apr. 10 17:35-17:40 UT nd P.S.T., 20, 28, 20E, 16.5  
Sun in H $\alpha$  - no obvious prominences; some "hints" only.

Tu. Apr. 11 18:00-18:05 UT t C-8, 32, 28, 20, 15.5  
Sun 4g 15s RSN55 T.O.F.

Tu. Apr. 11 18:10-18:15 UT P.S.T., 20, 28, 20E, 15.5  
Sun in H $\alpha$  - no obvious prominences, but "hints" of such.

Su. Apr. 16 16:50-16:55 UT C-8, 32, 28, 20, 15.5  
Sun 1g 1s RSN11 T.O.F.

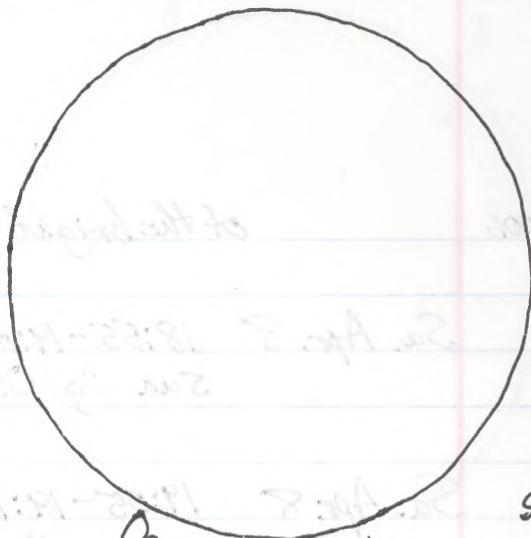
Su. Apr. 16 17:00-17:05 UT P.S.T., 20, 28, 20E, 15.5  
Sun in H $\alpha$  - no obvious prominences, but "hints" of such



Og  
Os  
RSNO

Apr. 17  
17:30-17:35 UT

sc



Og  
Os  
RSNO

Apr. 18  
19:30-19:35 UT

sc

2006 M. Apr. 17 17:30-17:35 UT t  
Sun. Og Os RSNO

C-8, 32, 28, 20, 15.5  
T. O. F.

M. Apr. 17 17:40-17:45 UT nd P.S.T., 20, 28, 20E, 15.5  
Sun in H $\alpha$  - no obvious prominences, but hints of prominences  
on the right limb in the image.

M.-T. Apr. 17-18 03:55-04:10 UT nd S6T8.5 ne  
- Under clear skies I observed the stars of spring in  
the S. with Gemini in the NW and Saturn in Cancer,  
and the Big Dipper near the zenith.

Tu. Apr. 18 19:30-19:35 UT t  
Sun Og Os RSNO

C-8, 32, 28, 20, 15.5  
T. O. F.

Tu. Apr. 18 19:40-19:45 UT nd P.S.T., 20, 28, 20E, 15.5  
Sun in H $\alpha$  - no obvious prominences, but some hints of prominences

T.-W. Apr. 18-19 02:45-03:45 UT y S-6T8 (later cloudy) ne; 18X5015b  
ne: stars of spring; Saturn in the WNW; near the end of the  
session Jupiter was seen in the SE.

18X5015b: R Leonis at about maximum brightness  
at about mag. 5.8; M65 and M66;

Comet 73P/Schwassmann-Wachmann 3 only  
3 degrees from Alphecca ( $\times$  Cor Bor) in a SW  
direction from that star. It was easily seen  
at about mag. 7.0. It was reported to have  
split into over 20 pieces, and this piece was  
the one designated Component C.; also R Cor Bor  
and T Cor Bor; Alcor and Mizar. After  
observing for about a  $\frac{1}{2}$  hour, I noticed

Comet 73P/  
Schwassmann-Wachmann 3  
(Component C)  
(1)

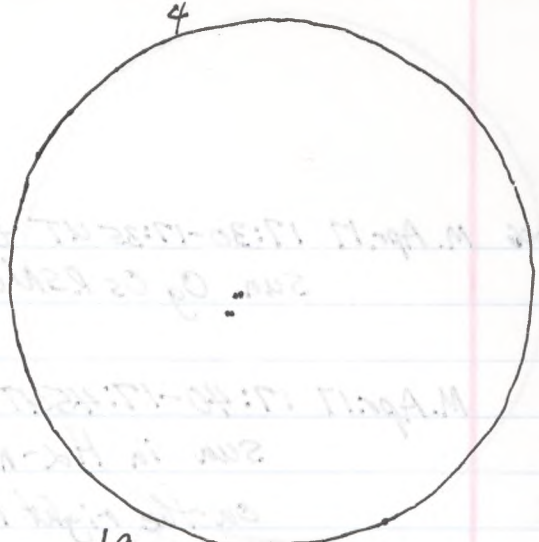




09  
03  
RSNO

Apr. 19  
17:50-17:55 UT

SC



19  
46  
RSN14

4  
Apr. 20  
18:50-18:55 UT

SC

Count 737  
Solomon Islands  
Caribbean  
(1)

2006

that the sky was beginning to become clouded. I later observed Jupiter and two of its moons, low in the SE. Earlier I had observed Saturn and M44 nearby.

W. Apr. 19 17:50-17:55 UT  $\pm$   
sun O<sub>9</sub> O<sub>5</sub> RSNO

C-8, 32, 28, 20, 15.5  
T.O.F.

w. Apr. 19 18:00-18:05 UT nd

sun in H $\alpha$  - no obvious prominences, but some "hints" of such

P.S.T., 20, 28, 20E, 15.5

W.-Th. Apr. 19-20 02:00-05:45 UT 00 SBT9

ne; 18x5015b; 20x100b; C-14, 19, 32

ne: stars of spring and early summer; Saturn in Cancer and Jupiter in Libra; several meteors in the S.

18x5015b: R Leonis near, or at, maximum, M65 and M66 and area, Comet 73P (Schwassman-Wachmann 3) within about 1° of Alphecca ( $\alpha$  Cor Bor) and at about mag. 6.9, Jupiter.

20x100b: R Leonis, M65 and M66 and area, Comet 73P, M35, M36, M37, M38.

Comet 73P-C  
(2)

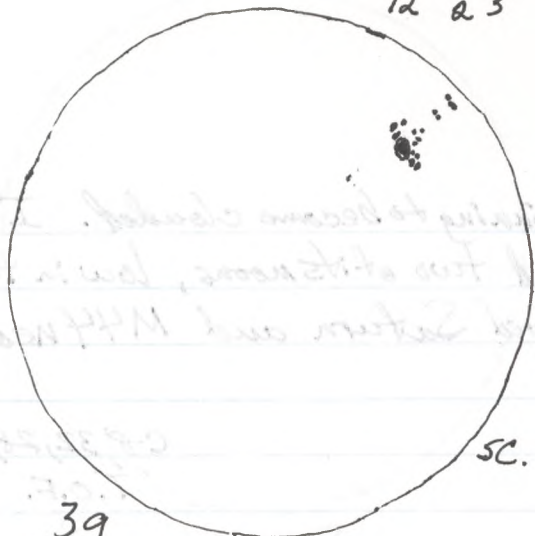
C-14: Saturn and 3 or more of its moons, M44, Jupiter and 4 moons, Comet 73P which was a beautiful sight with the tail stretching completely across the field of the 32mm König eyepiece. It was Component C of the Comet which was seen.

ph.: -photographed the area of the comet near the star Alphecca ( $\alpha$  Cor Bor), and also the area of R Leonis and of Alcor and Mizar.

Th. Apr. 20 18:50-18:55 UT  $\pm$   
sua 1g4s RSNI4

C-8, 32, 28, 20, 15.5  
T.O.F.

12 & 3



SC.

39  
175  
RSN 47

Apr. 25  
19:20-19:25 UT

2006 Th. Apr 20 19:00-19:05 UT nd

P.S.T., 20, 28, 20E, 15.S.

Sun in H $\alpha$  - no obvious prominences, but some "hints" of such

Th.-F. Apr. 20-21 02:40-06:00 UT 00 58 (T) 7-9 (hazy times) ne; 18X5015b, R  
20X100b; C-14  
ne: stars of spring and early summer; Saturn in the W; Jupiter  
in the SE and later in the S.

18X5015b: M65, M66, R Leonis, Comet 73P (SW3) within  
about 1° of Alphecca ( $\alpha$  Cor Bor) M13, M92, M15.

20X100b: M65, M66, R Leonis at, or near, max., Comet 73P  
(Schwassmann-Wachmann 3) Fragment C, M44  
and Saturn.

Comet 73P - C  
(3)

C-14, 32: Comet 73P (S.-W3) Fragment C which  
appeared bright and with a tail that almost  
spanned the width of the field of the eyepiece.

ph: photographed area of the comet in Corona Borealis  
hoping, in one or more of the photographs, to record  
Fragment B which was supposed to be somewhat  
to the W. of Fragment C, though I had not  
knowingly observed Fragment B, though I had  
looked for it with the binoculars. - also  
photographed other areas of the sky.

Tu. Apr. 25 19:20-19:25 UT t  
Sun 3g 17s RSN 47

C-8, 32, 28, 20, 15.S  
T.O.F.

Tu. Apr. 25 19:40-19:45 UT nd

P.S.T., 20, 28, 20E, 15.S

Sun in H $\alpha$  - no obvious prominences, but possibly hints of such.

T.-W. Apr. 25-26 02:15-05:15 UT 00 58 T 9-9.5 (!) ne; 20X100b

ne: stars of spring; Jupiter very bright in the SE;  
Saturn in the W almost in line with Castor and

16 7 5



SC

39  
285  
RSN 58

Apr. 27  
19:00-19:05 UT

2006

02:32-02:34 UT

Pollux, and near M44, 155 passages twice, 00:58-01-02 and

20x00b: Jupiter and 3 of its moons; Saturn, M44, area of Corona Borealis, including R Cor Bor and T Cor Bor while looking for fragments of the Comet 73P/Schwassmann-Wachmann 3 which had split into almost 40 fragments according to a recent report. I very easily saw one bright "cometlet" not far from E Cor Bor at about RA:  $16^h 14^m$ ; Dec:  $+29^\circ 38'$ . It was unmistakably a comet, with a very distinct tail visible. I took it to be what had been known as Fragment C. However, I was puzzled that the information I had from a website indicated that the position of Fragment C was: RA:  $15^h 47.4$ ; Declination:  $+30^\circ 22'$ . I also saw Fragment B, as indicated at R.A.:  $15^h 30.5$ ; Dec.:  $+31^\circ 27'$  near <sup>of Cor Bor (141132)</sup>. I also observed M5

Comet 73P C+B  
(4)

ph: I photographed part of the area of Corona Borealis, hoping to record the positions of several of the fragments of the comet.

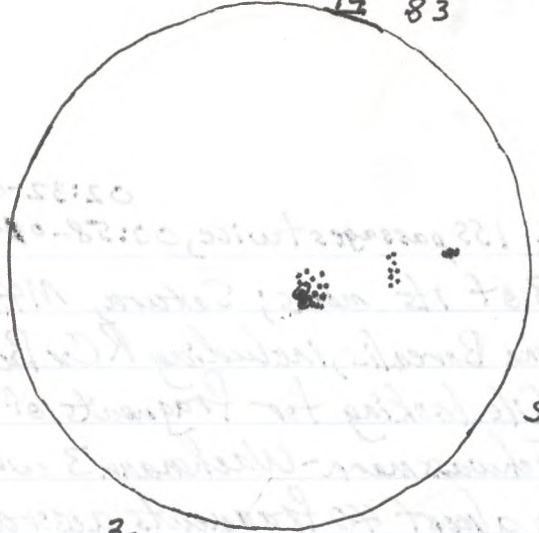
Th. Apr. 27. 19:00-19:05 UT t  
sun 3g 28s RSN 58

C-8, 32, 28, 20, 15.5  
T.O.F.

Thu. Apr. 27 19:15-19:20 UT: nd  
sun in H<sub>2</sub> - no obvious prominences, but hints of such.

P.S.T., 20, 28, 20E, 15.5

Th.-F. Apr. 27-28 03:20-05:25 UT 00 SRT 9-9.5(L) ne; 18x0015b; 20x0006; C-14, 32  
ne: After returning from a North Fraterae Little Theatre production of South Pacific at Sherbot Lake High School, I observed in the observatory whose



sc

3g  
255  
RSN55

Apr. 28  
16:30-16:35 UT

1977  
2

2006

roof I had opened before going to the production. I saw the stars of spring and early summer and brilliant Jupiter in the SE and Saturn and Mars in the W. During most of the session there was a noticeable auroral glow in the N.

18X5015b: Jupiter and several moons, Comet 73P(SW3) Fragment C which was easily seen, Saturn and M44.

Comet 73P - C+B

(5)

20X100b: Jupiter and several moons, M44 and Saturn nearby, Comet 73P(S-W3) Fragment C which was at R.A.  $16^h 18^m$ ; Dec.:  $30^\circ 45'$  (U113 and 114) - W. of  $\epsilon$  Cor Bor and quite bright and showing a very definite tail and Fragment B at R.A.:  $15^h 44^m$ ; Dec.:  $33^\circ 00'$  (U112) but much less defined and more nebulous in the binoculars; also M5

C-14: Jupiter and the 4 Galilean moons, with the bands, or several of them, clearly defined.

ph: photographed areas of the constellation Corona Borealis, to try to show both Fragment C and Fragment B of Comet 73P(S-W3)

F. Apr. 28 16:30-16:35 UT t  
Sun 3g 25s RSN55

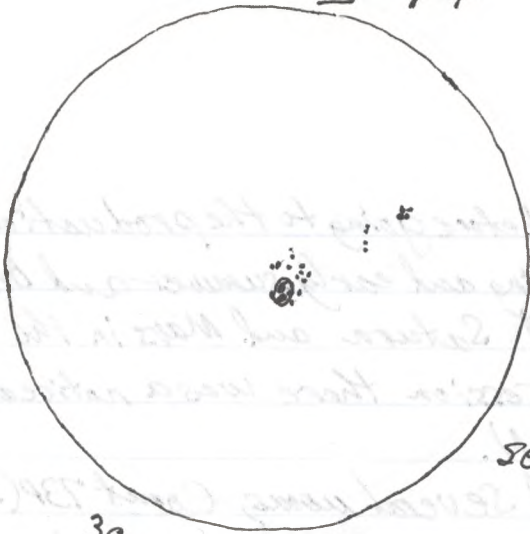
C-8, 20, 28, 20E, 15.5  
T.O.F.

F. Apr. 28 16:45-16:50 UT nd  
Sun in H $\alpha$  - no obvious prominences, but "hints" of such.

P.S.T., 20, 28, 20E, 15.5

F.-S. Apr. 28-29 02:35-05:45 UT 00583T 8-9.5 viewed ne; 18X5015b; 20X100b; C-14  
se: stars of spring and early summer; Saturn in the W;  
Jupiter in the SE.





3g  
245  
RSN54  
Apr. 29  
17:55-1800 UT

Faint mirrored text from the reverse side of the page, including words like "Dipteris" and "Fragment C".

Faint mirrored text from the reverse side of the page, including words like "Dipteris" and "Fragment B".

Faint mirrored text from the reverse side of the page, including words like "Dipteris" and "Fragment A".

Faint text on the right side of the page, including the word "Dipteris".

Faint text on the right side of the page, including the word "Dipteris".

Faint text on the right side of the page, including the word "Dipteris".

2006

18x5015b: Jupiter and 3 of its moons, Saturn and M44, M13, M92, M5, T Cor Bor, R Cor Bor, Comet 73P (S-W3) whose 2 fragments, Fragment C and Fragment B were seen in Corona Borealis, R Leonis at, or very near, its maximum brightness.

Comet 73P C+B  
(6)

20x100b: Jupiter and 3 of its moons, Saturn and M44 nearby, Fragment C and Fragment B of Comet 73P (S-W3). Fragment C was located at R.A.:  $15^h 46^m$ , Dec.:  $34^{\circ} 20'$  (See U113), NE of the star  $\pi$  Cor Bor. Fragment B was at approximately R.A.:  $16^h 26^m$ , Dec.:  $31^{\circ} 05'$  (See U114), E of the star  $\epsilon$  Cor Bor. Fragment C was considerably brighter than Fragment B. Also observed were T Cor Bor and R Cor Bor.

C14, 32: Comet 73P (S-W3) Fragment B. It was "comet-like" with a distinct tail readily visible.

ph: photographed areas of the sky ~~to~~ hoping to include the two fragments, B and C, of the Comet, 73P.

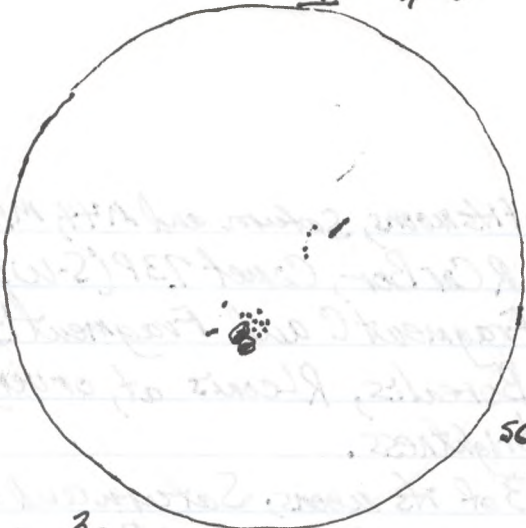
Sa. Apr. 29 17:55-18:00 UT t  
Sun 3g 24s RSN/54

C-8, 32, 28, 20, 15.5  
T.O.F.

Sa. Apr. 29 18:05-18:10 UT ad  
Sun in H $\alpha$  - no obvious prominences, but hints of prominences. P.S.T., 20, 28, 20E, 15.5

Sa:Su. Apr. 29-30 02:10-05:10 UT 00 S8(?) T8-9 (varied) ne: 18x5015b; 20x100b; C-14, 32  
ne: stars of late spring and early summer; Mars and Saturn in the W; Jupiter very bright in the SE + S.  
18x5015b: M65 and M66, R Leonis very bright for that star and

14 4 3



5C

39  
215  
RSN51  
Apr. 30  
18:20-18:25 UT

BOOK

*[Faint, mirrored bleed-through text from the reverse side of the page, including words like 'fragment', 'star', and 'orbit']*

*[Faint, mirrored bleed-through text from the reverse side of the page, including words like 'star', 'fragment', and 'orbit']*

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*[Faint, mirrored bleed-through text from the reverse side of the page, including words like 'star', 'fragment', and 'orbit']*

2006

at, or near its maximum, M44 and Saturn nearby, Jupiter and 3 of its moons, Comet 73P (S-W3) Fragment C and Fragment B, M35, M36, M37, M38, Alcor and Mizar, M5.

Comet 73P: C+B  
(7)

20x100b: M44 and Saturn nearby, Jupiter and 3 of its moons, Comet 73P (S-W3) Fragment C at R.A.:  $16^h 37^m$ ; Dec.:  $31^{\circ} 40' - 1^{\circ} W$  of  $\epsilon$  Her (U.114) and Fragment B at R.A.:  $15^h 57.5m$ ; Dec.  $34^{\circ} 20'$  (U.113) between  $11 \times$  Cor Bor and  $15 \times$  Cor Bor, M5, M13, M92.

C-14, 32: Comet 73P (S-W3) Fragment C which appeared bright and with a very well defined tail that completely covered the width of the eyepiece  
ph: photographed the areas of the two fragments, C and B in their respective areas in Hercules and in Corona Borealis.

Su. Apr. 30 18:20-18:25 UT  $\epsilon$   
Sun  $39 \times 21s$  RSN51

C-8, 32, 28, 20, 15.5  
T.O.F.

Su. Apr. 30 18:35-18:40 UT

sun in H $\alpha$  - no obvious prominences, but "hints" of prominences

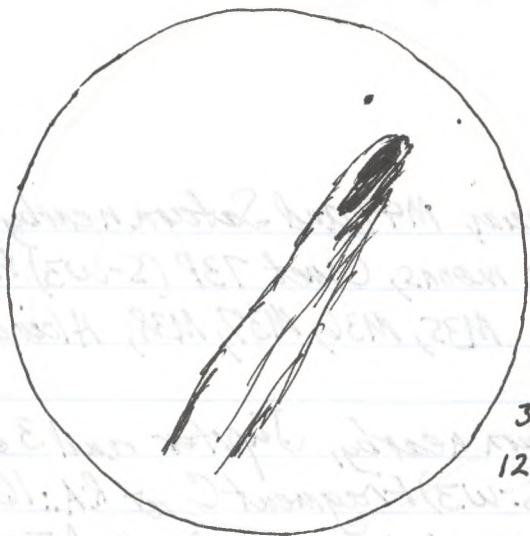
P.S.T., 20, 28, 20E, 15.5

S.-M. Apr. 30-May 1 02:20-05:45 UT 00 S8P (T 8-9 (varied) ne;  $18 \times 501sb$ ;  $20 \times 100b$ ; <sup>C-14</sup>

ne: stars of spring and early summer; Saturn and Mars in the W; Jupiter brilliant in the SE and S.

$18 \times 501sb$ : Jupiter and 3 moons, Saturn and nearby M44, Mars, M36 and M37, M65 and M66, M13, M92, Comet 73P (S-W3) Fragment C in the keystone of Hercules, Fragment B within Corona Borealis

$20 \times 100b$ : M65, M66, Jupiter and 3 of its moons, Saturn and nearby M44, R Leonis - very bright for this



32mm oc  
122.2X

2006 May 1, 05:00 UT: Viewed in the C-14  
of Comet T3P(S-W3) Fragment C - about mag 7.



8 2 2 2  
49  
145  
RSN54  
May 1  
17:35-17:40 UT

SC

2006

Comet 73P C+B  
(8)

star-at, or near, its maximum; Comet 73P (S.-W.3)  
Fragment C at R.A.:  $16^h 47.7^m$ ; Dec.:  $32^\circ 20'$  (U114),  
about  $1.9^\circ$  ENE of  $\epsilon$  Her.; Fragment B at  $15^h 06.0^m$ ;  
Dec.:  $35^\circ 15'$  (U113) about  $7.5^\circ$  SW of  $16 \tau$  Cor Bor  
or about  $2.1^\circ$  NE of  $16 \epsilon$  Cor Bor. Fragment C  
was the brighter of the two, being probably about  
mag. 7; also M13 and  $\beta$  Cyg

c-14, 32: Comet 73P (S.-W.3) Fragment C which was very  
beautiful in the eyepiece, spreading almost completely  
across the field of view. (See diagram.)

ph.: photographed the areas of both Fragment C and  
Fragment B of the comet.

M. May 1 17:35-17:40 UT  $\pm$   
Sun 4g 145 RSN54

C-8, 32, 28, 20, 15.5  
T.O.F.

M. May 1 17:50-17:55 UT nd

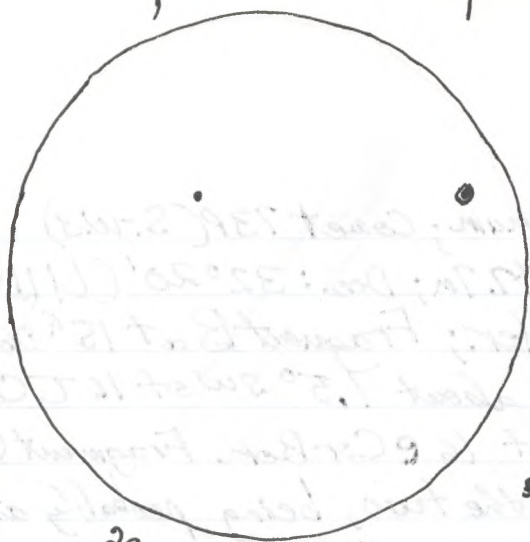
P.S.T., 20, 28, 20E, 15.5

Sun in Hx - no obvious prominences, but "hairs" of such.

M.-T. May 1-2 02:50-05:15 UT y S8(?) T7.5<sup>9.5 after moonset</sup> with moon; ne; 18x5015b  
ne: stars of late spring and early summer; brilliant Jupiter  
in the SE; Saturn and Mars in the W. with the  
crescent moon about  $6^\circ$  from Mars; one meteor.

18x5015b: Jupiter and the 4 Galilean moons, M5, M80,  
Comet 73P (Schwassmann - Wachmann 3) Fragment  
C at R.A.:  $16^h 58.0^m$ ; Dec.  $32^\circ 50'$  (U114)  
within the Keystone of Hercules about  $2^\circ$   
NNW of  $\epsilon$  Her, and Fragment B at  
R.A.:  $16^h 15.1^m$ ; Dec.:  $35^\circ 55'$  (U113)  
about  $2^\circ$  ESE of  $16 \tau$  Cor Bor. Fragment C  
remained considerably brighter.

Comet 73P  
(9)



29  
25  
RSN22

May 5  
17:30-17:35 UT

SC

F.S. May 5-6 02:50-03:05 UT y  
 5:7.5  $\rightarrow$  0 (some cloud  $\rightarrow$  overcast) ne; <sup>sky</sup> ~~light~~  
 ne; <sup>bright</sup> start, Jupiter in the SSE  
 18x50usb: Jupiter and 4 moons;  
 Comet 93P (SW3): Fragment C  
 about 5-7.6 degrees  $\swarrow$ WSW  
 of Vega.

2006 W-Th. May 3-4 04:05-04:10 UT nd S(?)T6 (fgml) ne

I observed briefly with a bright First Quarter Moon in the NW. It was about  $4^\circ$  to the right of Saturn and about  $8^\circ$  to the left and a bit upward from Pollux. Brilliant Jupiter was in the S. The bright stars of late spring and early summer were also seen.

Th.-F. May 4-5 03:25-04:35 UT y S(?)T6 (fgml) ne; 18x50 15b

ne: stars of late spring and early summer; brilliant Jupiter in the SSE (within 15 hours, or less, from time of Jupiter's opposition, since it was listed as being on May 4<sup>th</sup> at 15<sup>h</sup> UT); Saturn in the WNW with the bright moon very near First Quarter (which was listed as being on May 5<sup>th</sup> at 5<sup>h</sup> 13<sup>m</sup> UT.) only about  $10^\circ$  up and to the left from Saturn.

18x50 15b: Jupiter and several of its moons, M5, M10, M12, M13, M92, M27, M57, areas of  $\alpha$  Her,  $\alpha$  Oph,  $\beta$  Oph,  $\gamma$  Oph, and the Taurids Pontowski asterism, Barnard's Star and its area. Comet 73P (Schwassmann-Wachmann 3) easily found between the stars  $\xi$  Herculis and  $\beta$  Lyrae. (See map on page 61 of the May 2006 issue of Sky and Telescope.) It was Fragment C which I saw, and I did not knowingly see any other of the fragments.

Comet 73P - C.  
(10)

F. May 5 17:30-17:35 UT t  
Sun 2g 2s RSN22

C8, 32, 28, 20, 15.5  
T.O.F.

F. May 5 17:45-17:50 UT nd

P.S.T. 20, 28, 20E, 15.5

sun in H $\alpha$  - no obvious prominences, but "hints" of such.  
F.-S. May 5-6: - see opposite page.





4g  
18s  
RSN58

May 8  
17:10-17:15 UT

After returning home

18x50156:

Collect 73P Fragment B.

(11)

\*  
2006 M. May 8 17:10-17:15 UT z  
Sun 4g 18s RSN58

C-8, 32, 28, 20, 15.5  
T.O.F.

M. May 8 17:30-17:35 UT nd P.S.T., 20, 28, 20E, 15.5  
Sun in Hd - no obvious prominences, but 'hints' of such

\* S.-S. May 6-7 00:50-01:50 UT <sup>Conservation Area, N. of Kingston</sup> Little Cataraqui Creek <sup>Ast</sup> twl; gml; cloud ne; 20x100<sup>b</sup>  
ne: After the afternoon display at the Isabel Turner Branch<sup>n</sup> of the Kingston Public Library and after dinner with 6 other members of the Kingston Centre at the Swiss Chalet, we set up equipment at the Little Cataraqui Conservation area about 2km N. of Hwy 401 just W. of Division Street. There was scattered cloud and a bright 8-day-old moon, but Saturn and Jupiter and bright stars such as Castor and Pollux and later Vega in the E. could be seen. A mother and daughter who had a small refractor were there and wanted to know how to use the new instrument. I helped them set it up on a picnic table and we had "first light" on craters on the moon. Later I found Saturn with it but it was very small, of course. I attended a "Power Point" presentation by Hank Bartlett on the "History of Astronomy" in the main building. After that presentation there was a short session for observing, but "dewing" was a problem.

20x100b: Jupiter and lunar craters, but dewing was a problem.

Ast: lunar craters, but dewing was a problem.

M.-T. May 8-9 03:15-04:35 UT y 58(?) T4 (gml) ne; 18x50 15b  
ne: brightest of the stars of spring and early



SC

2g  
145  
RSN34

May 9  
17:40-17:45 UT

\* 2002 M. May 8 17:10-17:12 UT  
Sun 4g 185 RSN 78

M. May 8 17:50-17:52 UT  
Sun in HD - no

\* 2-2 May 2-7 20:20-21:20 UT  
no: After the

at the function table library and at the library with  
I then visited at the function library at the library  
Chief, we set up equipment at the library  
Construction was about 30m M. at May 8. Just M.  
of Division 2. There was scattered cloud and  
a bright 2-3 day-old moon, but rather and  
Jupiter and bright stars were visible in the  
blue and later blue in the E. sky as seen. A  
father and daughter who had a small telescope  
were there and wanted to find had to use the  
new instrument. I helped them set up on a new  
table and we had a lot of fun on other tables  
here. I for the night.

of the function table library and at the library with  
I then visited at the function library at the library  
Chief, we set up equipment at the library  
Construction was about 30m M. at May 8. Just M.  
of Division 2. There was scattered cloud and  
a bright 2-3 day-old moon, but rather and  
Jupiter and bright stars were visible in the  
blue and later blue in the E. sky as seen. A  
father and daughter who had a small telescope  
were there and wanted to find had to use the  
new instrument. I helped them set up on a new  
table and we had a lot of fun on other tables  
here. I for the night.

I attended a "four day" workshop  
by Hank Ford at the "theory of astronomy" in  
the main building. After the presentation there  
was a short session for observing and "doing" was  
a problem.  
Jupiter and four other stars, but during  
was a problem.  
Ast: James Carter but during was a problem.

I attended a "four day" workshop  
by Hank Ford at the "theory of astronomy" in  
the main building. After the presentation there  
was a short session for observing and "doing" was  
a problem.  
Jupiter and four other stars, but during  
was a problem.  
Ast: James Carter but during was a problem.

M. 7 May 8-9 03:15-03:17 UT  
no: Brightest of the stars of spring only

M. 7 May 8-9 03:15-03:17 UT  
no: Brightest of the stars of spring only

2006

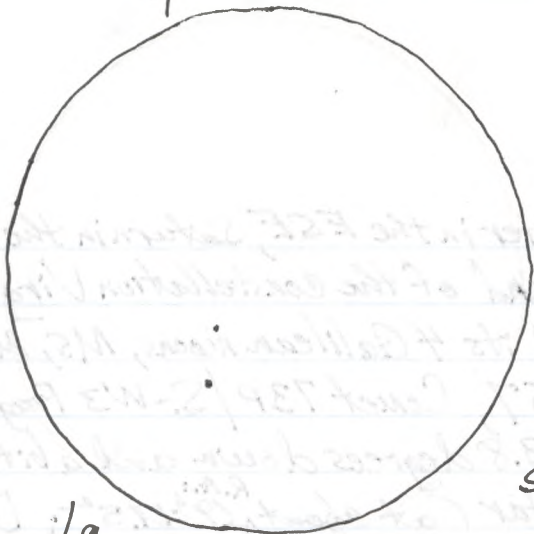
summer; brilliant Jupiter in the ESE, Saturn in the W; bright moon in the W. end of the constellation Virgo.  
 18X50 ISB: Jupiter and its 4 Galilean moons, M5, M13, M92, area of M57, Comet 73P/S-W3 Fragment C easily seen about 3.8 degrees down and a bit to the left from the star (at about <sup>R.A.:</sup>  $19^h 17.5^m$ ; Dec.:  $33^\circ 30'$ ) or about 4 degrees to the upper left from  $\beta$  Cygni (Albireo) (later I was ascertain about the above stated coordinates, which probably should have been: R.A.:  $19^h 19.5^m$ ; Dec.:  $32^\circ 15'$ )  
 Fragment B was also easily seen and about  $3.7^\circ$  up from Vega in the E. sky.

Comet 73P C+B  
 (17)

Tu. May 9 17:40-17:45 UT t C-8, 32, 28, 20, 156.  
 Sun 2g 14s RSN34 T.O.F.

Tu. May 9 17:55-18:00 UT nd  
 Sun in Hx - several excellent prominences, including 3 near the South Pole and a definite plage in the lower rt. quad.

T.W. May. 9-10 01:00-02:30 UT Gould Lake, Conservation Area 9 mi S?T4 (some cloud in) 6" Dobsonian ne: After giving a guided tour of the Hallett Crater for Dieter Braeckner's class of high school students, I accompanied them to Gould Lake Conservation Area for observing. They set up about 4 or 5 "Stargazer Steve" 6" Dobsonian telescopes and we observed several objects. I tried for a while to observe Comet 73P, but had better luck with finding and observing Saturn, M44, Jupiter and its 4 Galilean moons and  $\epsilon$  Lyrae. Dieter found M81 and



SC

19  
15  
May 11  
RSN 11 17:33-17:38 UT

2008

Cont: 731 C-8

(1)

about the observed coordinates (which probably should have been: RA:  $17^h 32^m 32.5^s$ ; Dec:  $33^{\circ} 30'$ ) or about the times suggested for up from Vega in the E. sky.

Fragment B was not only seen and about 3.7' up from Vega in the E. sky.

After giving a quick tour of the fold-out data for Dieter Brackner's class at high school students, I accompanied him to Goodall's Conservatory for an evening. They set up about 4 or 5 "Hologram Stars" (L'Abbeville telescope and his observed second object. I tried for a while to observe Comet 119 but had better luck with the original observing station, Mr. L'Abbeville's 8" telescope. Dieter found 119 and means and changes.

Mr. May 9 17:52-18:00 UT and saw in HK - several faint stars including E near the South Pole and a fainter one in the background.

2006

M82 and I observed them. To the naked-eye, Saturn, Mars, Jupiter, the bright moon, Vega, Arcturus, Spica, Castor and Pollux, and the Big Dipper were readily seen.

\*Stargazer Steve 6" Dobsonian Telescopes;  $\epsilon$  Lyrae as a "double double"; Saturn, ~~Mars~~ Jupiter and the 4 Galilean moons, lunar craters.

05:10-05:20 UT rd. 5 (?) T<sup>th</sup> (gml) ne; 18X50ISb

ne: After returning home from Coould Lake, I observed for a while. Bright moonlight continued to flood the sky

18X50ISb: Comet 73P/S-W.3 Fragment C about 4 degrees "to the left and slightly down from

Comet 73P(S-W.3)  
Fragments C and B.

(11) ||

B Cygni (Albirea), and brighter than it, Fragment B about 3.5 degrees to the left and slightly down from  $\alpha$  Lyrae (Vega).

It was also slightly to the left and down from  $\epsilon$  Lyrae.

W.-Th. May 10-11 03:10-03:50 UT y 58<sup>cloud</sup> T<sup>3</sup> (gml; considerable) ne; 18X50ISb

ne: very bright gibbous moon in the S., Vega in the E, Jupiter in the SSE, Spica about 2° NW of the moon

18X50ISb: areas of Lyra, Comet 73P (S.W.3)

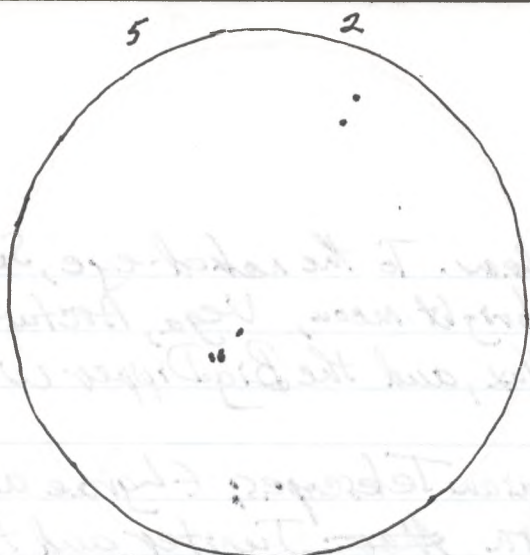
Comet 73P (S-W.3)  
Fragment B.

(13)

Fragment B - seen about 5° down and to the left from Vega. It was quite bright and easy to recognize, in spite of the bright moonlight, some stars in Ophiuchus, the double star  $\alpha$  Librae.

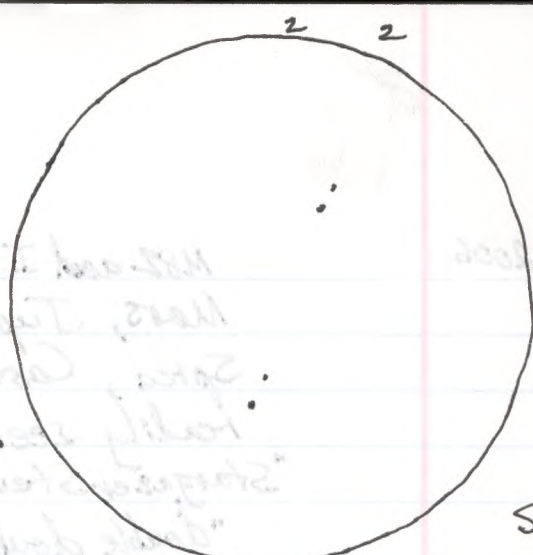
Th. May 11 17:33-17:38 UT  $\epsilon$   
sun lg ls RSN 11

C-8, 32, 28, 20, 15.5  
T.O.F.



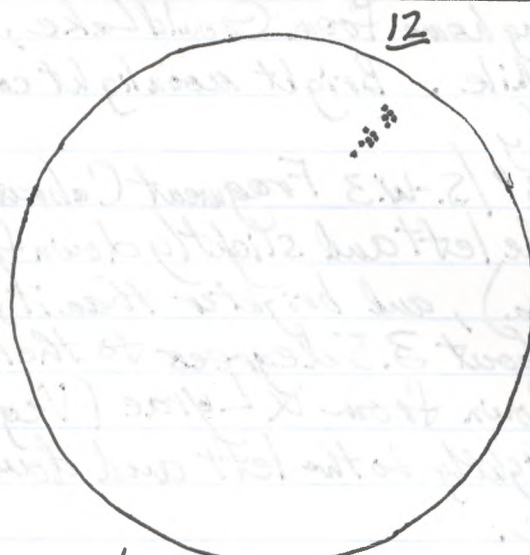
sc

29  
75  
RSN27 May 24  
18:20-18:25 UT



SC

29  
25  
RSN22 May 25  
19:00-19:05 UT



sc

19  
125  
RSN22 June 5  
18:10-18:15 UT

2006 Th. May 11 17:55-1800 nd P.S.T., 20, 28, 20E, 15.5.  
sun in H $\alpha$  - several prominences, especially one very large one near  
the area of the South Pole in the "eyepiece view"

W. May 24 18:20-18:25 UT  $\pm$  C-8, 32, 28, 20, 15.5  
sun 2g 7s RSN 27 T.O.F.

W. May 24 18:40-18:45 UT nd P.S.T., 20, 28, 20E, 15.5  
sun in H $\alpha$  - several prominences including one fairly long sharp one  
in the area of the South Pole.

w.-Th. May 24-25 03:45-04:45 UT ynd s8T8.5-9 (good to very good) ne; 18X5015b  
ne: stars of spring; Jupiter very bright in Libra in the S.; two  
or three fairly bright meteors.

18X5015b: Taurus Poutrowsky asterism, Barnard's Star, M10,  
M12, M5, M4, M80, M13, M92, M57, Jupiter and  
3 of its moons.

Th. May 25 19:00-19:05 UT  $\pm$  C-8, 32, 28, 20, 15.5  
sun 2g 2s RSN 22 T.O.F.

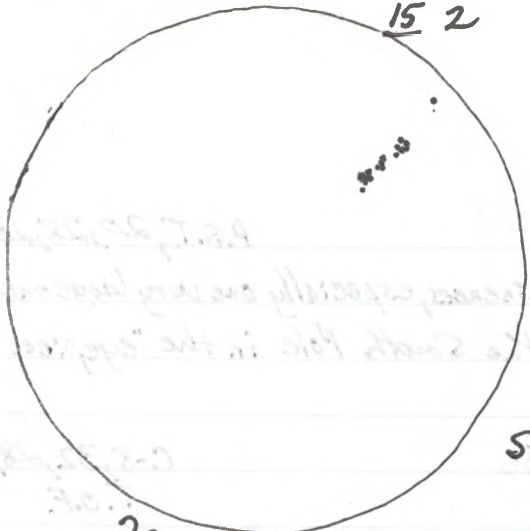
Th. May 25 19:20-19:25 UT P.S.T., 20, 28, 20E, 15.5  
sun in H $\alpha$  - several prominences, especially a large one on the right side"

Th.-F. June 1-2 06:20-06:30 UT nd s8T8 ne  
-observed the Summer Milky Way in the E. part of  
the sky and the stars of late spring and early  
summer, including the Summer Triangle.

M. June 5 18:10-18:15 UT  $\pm$  C-8, 32, 28, 20, 15.5  
sun 1g 12s RSN 22 T.O.F.



15 2



SC

29 June 6  
195 RSN/37 19:55-20:00 UT

M. Jones 18:10-18:20 UT  
Sun 19 15 15/52

observed the Sun with field of view  
the sky and the Sun in the  
Sun, including the Sun's  
- observed the Sun with field of view

M. Jones 18:00-18:10 UT  
Sun 19 15 15/52

M. Jones 17:50-18:00 UT  
Sun 19 15 15/52

M. Jones 17:40-17:50 UT  
Sun 19 15 15/52

M. Jones 17:30-17:40 UT  
Sun 19 15 15/52

2006 M. June 5 18:30-18:50 UT nd 15.5.  
P.S.T., 20, 28, 20E, 1A  
Sun in H $\alpha$  - very distinct prominence on the left side  
as viewed in the eyepiece

Tu. June 6 19:55-20:00 UT t C-8, 32, 28, 20, 15.5  
T. O. F.  
Sun 2g 17s RSN 37

Tu. June 6 20:10-20:15 UT nd P.S.T., 20, 28, 20E, 15.5  
Sun in H $\alpha$  - distinctive prominence on the left side  
as viewed in the eyepiece.

S.-M. June 11-12 03:50-03:55 UT nd ty 58E) T45 ne  
- With a very bright Full Moon in the S., and with generally  
clear skies (except for a bit of cloud in the W.) I  
observed briefly, seeing the Summer Triangle high  
in the E, the Big Dipper (though Megrez was seen  
with some difficulty, Polaris and Kochab in the N,  
Arcturus and Spica in the SW and Jupiter in  
the SW also. Clear nights have not been frequent  
of late, with a lot of rainy and cloudy weather.

W.-Th. June 14-15 03:30-04:20 UT y 57 T8-9 ne; 18X50 IS b  
ne: I observed before moonrise at 03:57 UT and  
for a while after, with the sky brightening in  
the SE. I observed the Summer Triangle and  
other stars of Summer, and Jupiter in  
the SSW in Libra.

18X50 IS b: Jupiter and at least 2 of its moons,  
 $\beta$  Cyg, M27, M57, M11, M16, M17, M18, M23,  
M24, M8, M20, M21, M5, M4, M80, M13,  
M92, area of  $\alpha$  Her and  $\alpha$  Oph, IC 4665,



09  
03  
RSNO  
June 15  
19:10-19:15 UT

sc

12.2

12.2, 40, 130, 140

as viewed in the sky

12.2, 40, 130, 140

as viewed in the sky

as viewed in the sky

as viewed in the sky

as viewed in the sky

as viewed in the sky

as viewed in the sky

as viewed in the sky

as viewed in the sky

as viewed in the sky

as viewed in the sky

as viewed in the sky

as viewed in the sky

12.2, 40, 130, 140

as viewed in the sky

as viewed in the sky

as viewed in the sky

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as viewed in the sky

as viewed in the sky

as viewed in the sky

as viewed in the sky

as viewed in the sky

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as viewed in the sky

as viewed in the sky

as viewed in the sky

as viewed in the sky

2006

Barnard's star and area, Taurus Poutiowski asterism, T Cor Bor, R Cor Bor, area of Pluto in the  $\epsilon$  Serpentis area, area near  $\nu$  Librae which contained a star that was to be occulted by an asteroid on June 22-23. Naked-eye variable star estimate:  $\beta$  Hyrae  $\approx 3.6$ .

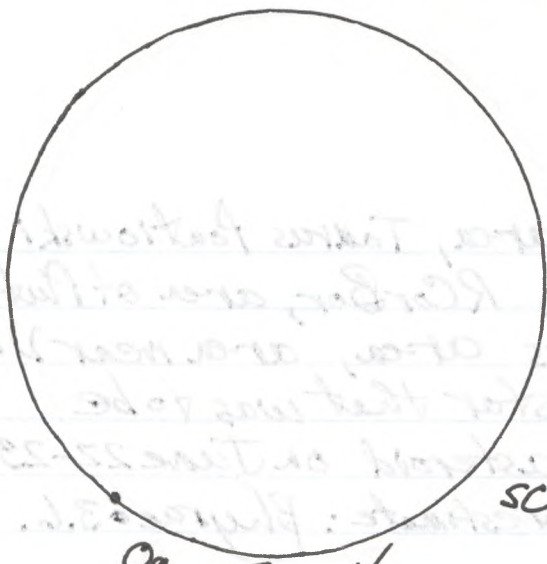
Th. June 15 19:10-19:15 UT t C-8, 32, 28, 20, 15.5  
Sun @ 9:05 RSN0 T.O.F.

Th. June 15 19:30-19:35 UT nd P.S.T., 20, 28, 20E, 15.5  
Sun in Hx - just a few "hats" of small prominences.

Th. F. June 15-16 02:40-04:40 UT 00 S8(?) T8-9 ne; 20x100b; C-14

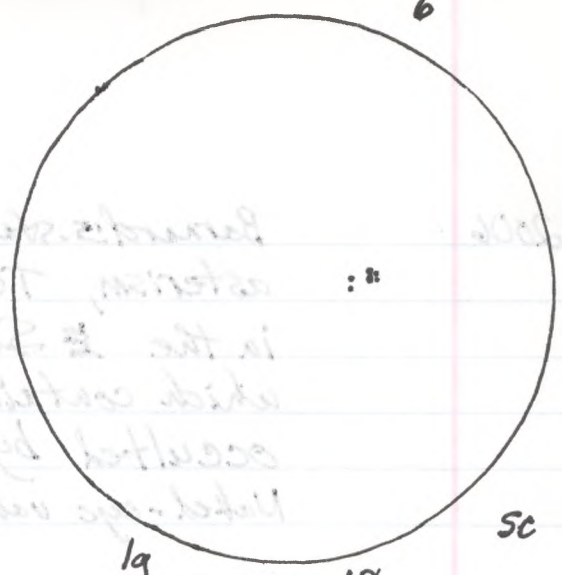
ne: stars of late spring and summer; Jupiter in the S and SSW; two fairly bright meteors  
20x100b: Jupiter and 2 Galilean moons, M16, M17, M18, M8, M20, M21, M23, M24, M25, M4, M80, a careful examination of the area NNW of the star  $\nu$  Librae since it contained a star predicted to be occulted in the following week by the asteroid 196 Philomela. The star at mag. 12.0 was found to be a severe challenge for the binoculars.

C-14: Using the 19mm eyepiece, at 205.8X, I examined Jupiter hoping to have a good view of the Great Red Spot, but it was not a great view, even using a filter. I also examined the area ESE of the star  $\epsilon$  Ser hoping in the coming weeks to be able to see the planet Pluto. I did recognize some of the stars from the star maps; I was using the



SC

Og  
05/ RSN0 June 16  
18:35-18:40 UT



SC

lg  
65 RSN16 June 18  
18:00-18:05 UT

2006

maps in The Observer's Handbook and in Sky and Telescope Magazine.

Naked-eye variable star estimate:  $\beta$  Lyrae: 3.5

F. June 16 18:35-18:40 UT t  
Sun Og Os RSN/O

C-8, 32, 28, 20, 15.5  
T.O.F.

F. June 16 18:50-18:55 UT nd  
Sun in Hx - only hints of slight prominences

P.S.T., 20, 28, 20E, 15.5

S.-S. June 17-18 03:50-05:05 UT y S8T8 ne; 18X5015b  
ne: stars of late spring and early summer; Jupiter  
in the SW.

18X5015b: area near  $\nu$  Librae (area of the star  
involved in the upcoming occultation by the asteroid  
Philomela), area near  $\epsilon$  Serpentis (area of  
Pluto), M16, M17, M18, M11, M8, M20, M21, M22,  
M23, M24, M25, M28, M4, M80, M5, M13, M92.  
Naked-eye variable star estimate:  $\beta$  Lyrae: 3.3

Su. June 18 18:00-18:05 UT t  
Sun lg 6s RSN/16

C-8, 32, 28, 20, 15.5  
T.O.F.

Su. June 18 18:10-18:15 UT

Sun in Hx - one well defined prominence on the S and  
several small ones on the "right-hand" side.

T.-W. June 20-21 04:35-04:50 UT nd S8T9 ne; 18X5015b  
ne: stars of early summer; Jupiter seen through the trees  
in the SW; one faint meteor  
18X5015b: M5, M13, M92, M11 and RScuti, M16, M17, M18,



09  
05  
RSNO

June 21

18:00-18:05 UT(?)

sc

2006

M23, M24, M4, M80, R Cor Bor, T Cor Bor.

W. June 21 18:00-18:05 UT<sup>(?)</sup> Sharbot Lake Beach  
Sun Og Os RSN0

C-8, 32, 78, 20, 15.5  
T.O.F

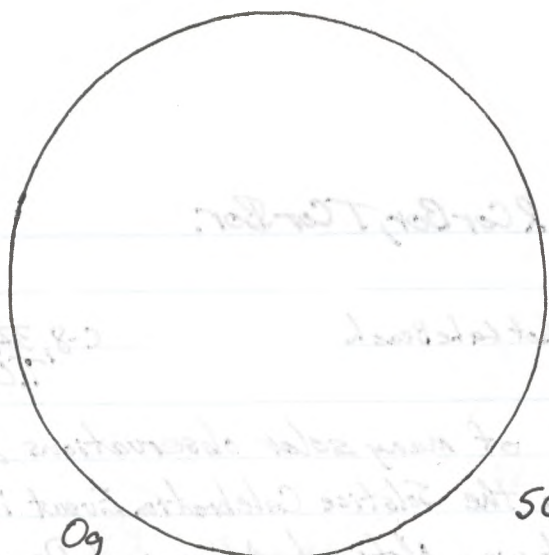
This observation was one of many solar observations done at Sharbot Lake Beach during the Solstice Celebration Event in which I participated. Since it was National Aboriginal Day, the event was sponsored by the local First Nations. I also assisted the students from the Grade 5-6 class from Sharbot Lake Public School in demonstrating a model of the solar system based on the one I explained in The Beginner's Observing Guide and a second one using the "planets" they had made to show their arrangement very roughly on this day according to their heliocentric longitude.

W. June 21 18:20-18:25 UT (?) Sharbot Lake Beach PST, 20  
Sun in H $\alpha$  - no obvious prominences, though there may have been a few very small "hints" of such.

This observation was also one of many H $\alpha$  solar observations done at the beach as part of the event mentioned above. A good number of people enjoyed the chance to see the sun in H $\alpha$ .

Th-F. June 22-23 03:50-04:45 UT nd + y 58? T 2-7 (varied) ne;  $\wedge$  18x501sb  
ne: Thinking that the prospects were poor for seeing the predicted occultation of a 12th mag. star in Libra near Nu Librae by the asteroid Philomela, I went out to observe under generally cloudy skies. However, the clearing in the North moved southward and the sky very slowly





09  
05  
RSNO

June 24  
17:35-17:40UT

5C

W. June 21 18:20-18:52 NT (1) Skatit Lake Basin 40720  
Sun is the - a sphere prominent, though there  
may have been a few very small "stars".

This observation was also one of many the solar  
phenomena. The sun is the  
most prominent. A number of people enjoyed the  
chance to see the sun in the.

Th-F. June 22 03:00-03:15 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31)  
Thinking that the observations were for the seeing  
the predicted occultation of a star was for  
in like near. The predicted occultation of a star was for  
I went out to observe under generally cloudy  
skies. However the clearing in the north  
allowed some light and the sky very cloudy

2006

"Missed"  
observing  
an occultation  
of a 12th mag.  
star in  
Libra.

started to clear. The time for the event was to be 04:32 and the predicted drop in mag. was to be 0.5 mag. and for 24.8 seconds. At the predicted time, I was not able to see the relevant area very clearly but by only 2 minutes later I could see the general area much better (at least in the binoculars). The clearing skies had not arrived in time to make a fair effort to see the event with the C-8, which I had put on the table.

18X50ISB: I observed the area near the star that was to have been occulted - in the constellation Libra, near the star Nu Librae. I also observed R Cor Bor and T Cor Bor.

F-S. June 23-24 04:20-05:25 UT y 58T9 ne; 18X50ISB

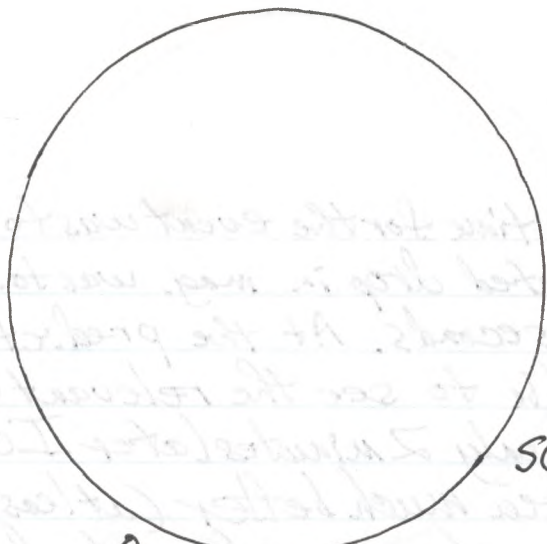
ne: stars of summer, Jupiter in the SW among the trees

18X50ISB: M4, M80, M6, M11 and R Scuti, M16, M17, M18, M8, M20, M21, M22, M23, M24, M25, M28, M5, M15, M27, M57, M71, M2, IC 4665, Barnard's Star, M10, M12, M13, M92, U Del and E Del, R Cor Bor and T Cor Bor.

Naked-eye variable star estimate:  $\beta$  Lyrae: mag. 3.3  
At the end of the session, the sky started to be cloudy.

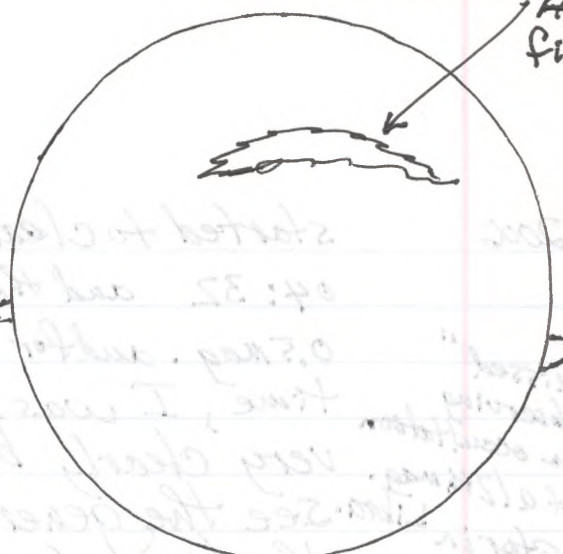
Sa. June 24 17:35-17:40 UT t C-8, 32, 28, 20, 15.5  
sun 0g Os RSN0

Sa. June 24 17:50-17:55 UT nd P.S.T., 20, 28, 20E, 15.5  
sun in H $\alpha$  - one sharp and definite prominence at about the "5-o'clock position" as viewed in the eyepiece



SC

09  
05  
RNO June 25  
17:10-17:15 UT



Flare  
Filament

June 25, 17:30-17:35 UT - View of Solar  
disk showing 2 prominences and ~~Flare~~ Filament

2006 Sat-Su. June 24-25 03:10-04:15 UT 00 S8T7-9 ne; 18X50sb; C-14

ne: stars of early summer; Jupiter in the WSW and  
amid the trees; a bright meteor in Hercules

18X50sb: M10, M12, M13, M93, RCrB, TCrB, M11 and Rscut,  
 $\alpha$  Her,  $\alpha$  Oph, IC 4665, Barnard's Star and its  
area.

C-14, 19: Jupiter and its 4 Galilean moons—  
clearly and distinctly seen.

Su. June 25 17:10-17:15 UT t

C-8, 32, 28, 20, 15.5

Sun Og OS RSNO

Su. June 25 17:30-17:35 UT nd

PST, 20, 28, 20E, 15.5

Sun in HX - a prominence seen on each side of the  
sun, but the amazing sight was a very large flare  
seen in the upper part of the disk. (See diagram.)  
It was my first such view with the PST.

F.-S. June 30-July 1 02:25-02:30 UT nd twl ne

On the evening of the day after my eye surgery  
at Hotel Dieu Hospital in Kingston, I observed  
briefly in the clear twilight seeing the crescent  
moon among the trees in the W. and Jupiter in  
the SSW. The Big Dipper was visible and Arcturus  
and Spica. In the SE, the Summer Triangle  
of stars was visible. Earlier in the day Peter  
had driven me to Kingston so that I could  
see the doctor who had performed the surgery  
and have the eye patch removed. Vision in the  
right eye was still very limited.

2017-11-20  
at night water in H-waters  
at night water in H-waters  
at night water in H-waters

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at night water in H-waters

2006 T.-W. July 4-5 03:30-03:40 UT nd S(?) T 6 (gm) ne

- Just slightly after the end of astronomical twilight, and with a bright gibbous moon about 1.5 days after First Quarter visible through the trees to the WSW, I observed briefly, seeing the Big Dipper Polaris and Kochab Arcturus (in the W) and very high in the E, the Summer Triangle of stars with Vega very near the zenith. Jupiter in the SSW was not seen because of trees in that direction.

W.-Th. July 5-6 04:55-05:00 UT nd S(?) T 6-7 (gm) ne

- With a glow in the western sky from the gibbous moon which was behind trees to the WSW, I observed for a brief spell seeing the Big Dipper low in the NW, the Summer Triangle very high with Vega near the zenith, Arcturus in the WNW and some of the stars of Pegasus over the trees in the SE.

Th.-F. July 6-7 03:20-03:25 UT nd S(?) T 4-5 (twl(?) gm) ne

With a fairly bright gibbous moon low in the SSW and about  $140^\circ$  to the lower left from Jupiter which was also above the trees - in the SW. Also seen: 6 of the stars of the Big Dipper, Polaris, the Summer Triangle of stars very high in the E. and Arcturus in the W.

Th.-F. July 13-14 02:35-02:45 UT nd twl ne

Under clear skies and before the end of astronomical twilight I observed the darkening sky, though I still had the effects of the eye surgery.

2002 July 2 - 03:00 - 03:45  
Just slightly after astronomical twilight  
and with a bright ribbon near about 1.2 mag after  
First Quarter seeing the Big Dipper to the NW  
and very high in the E. The Summer  
triangle of stars with Vega very near the zenith.  
Jupiter in the SW was not seen because of trees in that  
direction.

2002 July 2 - 03:00 - 03:45  
With a glow in the western sky from the Big Dipper  
which was behind trees to the WSW. The Summer  
triangle was high in the NW and Vega near the zenith.  
Jupiter in the SW and some of the stars of  
the Big Dipper were in the SW.

2002 July 2 - 03:00 - 03:45  
With a faint bright ribbon near the zenith  
to the WSW. The Summer triangle was high in the  
NW and Vega near the zenith. Jupiter in the SW  
was not seen because of trees in that direction.

2002 July 2 - 03:00 - 03:45  
Labor clear and before the end of  
astronomical twilight I observed the darkening sky  
though I still had the effects of the evening

2002 July 2 - 03:00 - 03:45  
Just slightly after astronomical twilight  
and with a bright ribbon near about 1.2 mag after  
First Quarter seeing the Big Dipper to the NW  
and very high in the E. The Summer  
triangle of stars with Vega very near the zenith.  
Jupiter in the SW was not seen because of trees in that  
direction.

2002 July 2 - 03:00 - 03:45  
With a glow in the western sky from the Big Dipper  
which was behind trees to the WSW. The Summer  
triangle was high in the NW and Vega near the zenith.  
Jupiter in the SW and some of the stars of  
the Big Dipper were in the SW.

2002 July 2 - 03:00 - 03:45  
With a faint bright ribbon near the zenith  
to the WSW. The Summer triangle was high in the  
NW and Vega near the zenith. Jupiter in the SW  
was not seen because of trees in that direction.

2002 July 2 - 03:00 - 03:45  
Labor clear and before the end of  
astronomical twilight I observed the darkening sky  
though I still had the effects of the evening

2006

two weeks before. I saw the Summer Triangle of stars very high in the E, Cassiopeia in the NE, the Big Dipper in the NNW, Jupiter above the trees in the SW, Scorpius, or part of it above the trees in the S. with Ophiuchus higher in the S.

S.-M. July 16-17 01:45 - 03:10 UT y&t twl ne; 18X5015b; Ast, ne: Even though it was only about 2½ weeks since my eye surgery and the right eye was in the process of healing from the surgery, I observed as the sky darkened during the latter parts of astronomical twilight. Astronomical twilight was supposed to end at 03:07 UT. Within about 2 minutes of that time I noticed a general cloudiness developing in the western sky and I stopped observing shortly after that. Naked-eye I saw Jupiter in the SW and many stars of summer.

18X5015b: M4, M8, M20, M21, M22, M28, M16, M17, M18, M23, M24, M25, M11. I easily located the 8.4 mag. star near  $\beta$  Capricorni, the star predicted to be involved in the asteroidal occultation by 558 Carum on July 26.

Ast, 19, 8: Jupiter and its 4 Galilean moons all on one side of the planet.

W.-Th. July 19-20 07:33 - 07:53 UT nd <sup>astronomical twl</sup> early in morning n 18X5015b Under clear skies and early in morning astronomical twilight I observed the waning crescent moon (which was less than 5 days from New Moon) and the



Field of  
18x50 IS  
binoculars

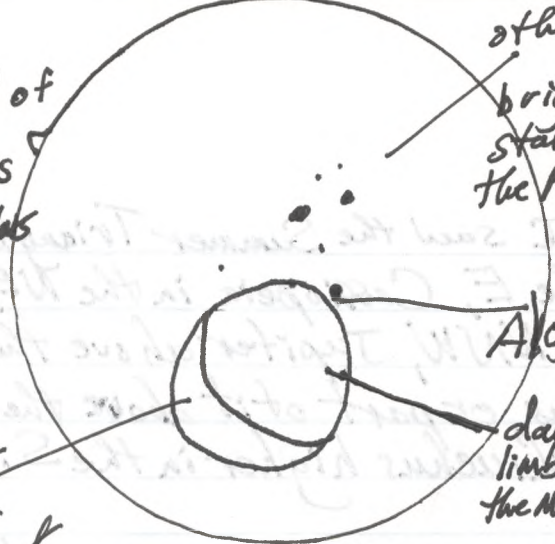
of the  
bright  
stars of  
the Pleiades

Alcyon

dark  
limb of  
the Moon.

bright  
lunar  
Crescent

2006 July 20 07:40 UT: Moon and the Pleiades



2006

Plerades very near, with some of them actually being occulted. The bright star Alcyone was very near the dark 'right-hand' limb of the moon. It was a very interesting sight with contrast enhanced by putting the bright side of the moon just out of the field of view on the bottom of the field. A slight cloud in the area to the left from the Plerades added a touch of beauty to the scene (See the diagram.)

T.-W July 25-26 02:00-03:20 UT y twl; S8T7-8 ne; 18x50 15b; 20x100b.  
ne: After a day of interesting weather I hoped to be able to observe the predicted occultation of the star HIP 100244, a mag. 8.4 star about  $\frac{1}{3}^{\circ}$  SW of  $\beta$  Capricorni, by the asteroid 588 Carmen. Guy Nason had said at the R.A.S.C. - K.C. meeting on July 14<sup>th</sup> that the southern edge of the predicted path of the occultation would be at Sharbot Lake, but a late update of the prediction had the path shifted further northward. We had had heavy rain and thundershowers in the late afternoon and early evening. It did not look promising at about 6:00 p.m. E.D.T. (22:00 UT). At about 9:00 p.m. E.D.T. (01:00 UT) there were signs of clearing in the NW and N.

Would the sky clear up in the S. and in the area of the constellation Capricornus?  
18x50 15b: With the 15 binoculars I saw the area of  $\alpha$  Cap and  $\beta$  Cap in the SE.  
20x100b: I easily located  $\beta$  Cap and the star

Plinius was near with some other actually being  
 occurred. The night star Alcyon was very near  
 the best right hand. One of the new. I think  
 a very interesting sight with constant contrast  
 by putting the bright side of the moon just out of  
 the field of view on the bottom of the field.  
 A slight cloud in the area to the left from the  
 Plinius appeared a faint of light to the same  
 (See the drawing)

20:00  
 21:00  
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 59:00  
 60:00

Thunderbolts in the late afternoon and  
 early evening. It did not look promising at  
 about 6:00 P.M. E.D.T. (23:00 U.T.). At  
 about 7:00 P.M. E.D.T. (5:00 U.T.) there were  
 signs of lightning in the NW and N.  
 Would the sky clear up in the 2. and in  
 the area of the constellation Capricornus?  
 18:00: With the 12 binoculars I saw the  
 Area of Cap and Pleiades in the SE.  
 20:00: I easily located Cap and the star

2006

Possible  
occultation  
by 588 Carmen  
of 8.4 mag.  
star in Cap.  
seen as a  
"MISS".

HIP 100244 and the two fainter stars nearby and other nearby stars. I watched the star very intensely for over 10 minutes — from 10:51:18 (2:51:18 UT) to 11:01:58 pm EDT (3:01:58 UT) and detected NO drop in magnitude for the star. It was not too surprising that from my location it would be recorded as a "miss".

Guy Nason later reported a "miss" as seen from the "Nirvana" site.

I later, i.e., about 10 to 15 minutes after attempting to see the "Carmen event", thought I observed a "flashing star" a few arc-minutes ESE of the "event star". The "flashing star" was probably seen for about 2 minutes or so. I was not sure what the object was. It may have been about Mag. 9 to 10.

T.-W. Aug. 8-9 03:30-04:10 UT nd 5? T3-4 (fml) ne

Thinking that I might possibly see one or more bright Perseids, I spent about 40 minutes observing a sky that was clear but very bright because of the light of the Full Moon. My eye had still not completely recovered from the surgery I had had on June 29th. I thought I might have seen one meteor, but was not sure of it. The Summer Triangle of stars was very high in the sky with Vega near the zenith. Arcturus was visible in the W. until it disappeared behind trees. Some of the bright stars of the Big Dipper and of Cassiopeia were visible in the NNW and NNE.

Book

possible  
location  
of 588  
Cannon  
of 8. mag.  
Star  
Cap.  
2000  
"M12"

11:00 AM and the two fainter stars nearby  
and other nearby stars. I watched the  
star very carefully for over 10 minutes -  
from 10:51 AM (21:18 UT) to 11:01:28 AM  
EDT (3:01:28 UT) and detected M12  
drop in magnitude for the star. It was  
not too surprising that from my location it  
would be recorded as a "miss".

Guy Lasser later reported a "miss" as well  
from the "M12" site.  
I later in about 10 to 15 minutes after  
attempting to see the "Cannon event" thought  
I observed a "flashing star" - I  
was within 1.5E of the "event star". The  
"flashing star" was probably seen for about  
2 minutes or so. I was not sure what the  
object was. It may have been about  
mag. 9 to 10.

T.W. Aug 8-9 03:30-04:00 P-8  
Thinking that I might see a "flashing star"  
periods I spent about 30 minutes observing and  
that was clear but very bright because of the  
light of the full moon. The sky was not clear  
completely recovered from the survey. I had had  
on Jan 28th. I thought I might have seen one  
before, but was not sure of it. The survey  
thought of stars was very high in the sky  
with very low for zenith. Asteroids were visible  
in the W. until it disappeared behind trees.  
Some of the bright stars of the E. horizon and  
of Cassiopeia were visible in the NW and SW.

2006 W.-Th. Aug. 9-10 03:10-03:50 UT nd 5? T3-4 (fml) ne

As I had done the previous evening, I spent about 40 minutes observing a very bright sky, thinking that I might see one or more bright Perseids. My eye had not yet completely recovered from the surgery. The Summer Triangle was very high and Arcturus was visible in the W. Some of the bright stars of the Big Dipper and of Cassiopeia were visible. I was not sure of seeing any meteors during the session.

Th.-F. Aug. 10-11 03:30-04:20 UT nd 5(?) T4 (gml) ne; 18X5015b

ne: Once again I spent some time observing, thinking I might see one or more Perseid meteors. I saw what I thought was a fast-moving Perseid in the NW. sky. 6 of the stars of the Big Dipper were visible to the naked-eye, in spite of the bright moonlight. Polaris and Kochab and most of the bright stars of Cassiopeia were also visible naked-eye.

18X5015b: With the binoculars I observed the LPU Chi Cygni which was near maximum and which I had seen on the Sky and Telescope website was at a very bright maximum. In fact, John Bortle had said that it was at the brightest maximum in 148 years. I thought that it was at about the same brightness as  $\gamma$  Cyg and estimated Chi Cyg as being at magnitude 3.9. I also observed Kenble's Cascade, and R Cor Bor, and Akor and Mizar.

$\chi$  Cyg at  
about mag. 3.9.

W-Tu. Aug 1-10 03:00-03:30 (Faint)  
As I lay down the previous evening I spot about  
40 minutes observing a very bright sky. Thinking  
I might see one or two bright meteors. My eye  
had not yet completely recovered from the surgery.  
The summer Triangle was very high and the stars  
was visible in the W. Some of the bright stars  
of the Big Dipper and of Cassiopeia were

visible. I was not sure of seeing any  
meteors during the session.

W-Tu. Aug 10-11 03:30-04:00 (Faint)  
Once again I spent some time observing.  
Thinking I might see one or two bright meteors.  
I saw what I thought was a faint meteor  
faint in the W. sky. Some of the stars of the  
Big Dipper were visible to the westward. In  
spite of the bright twilight. There was a faint  
and not of the bright stars of Cassiopeia were  
also visible to the westward.

W-Tu. Aug 11-12 04:00-04:30 (Faint)  
I had seen a very bright meteor. In fact  
John Lattin had said that it was of the  
brightest maximum in 179 years. I thought  
that it was at about the same distance  
as the up and scattered Orion as being  
seen by 3.9. I also observed the meteor  
and R. Carter and A. B. and Miss...

W-Tu. Aug 1-10 03:00-03:30 (Faint)  
As I lay down the previous evening I spot about  
40 minutes observing a very bright sky. Thinking  
I might see one or two bright meteors. My eye  
had not yet completely recovered from the surgery.  
The summer Triangle was very high and the stars  
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of the Big Dipper and of Cassiopeia were  
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Once again I spent some time observing.  
Thinking I might see one or two bright meteors.  
I saw what I thought was a faint meteor  
faint in the W. sky. Some of the stars of the  
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spite of the bright twilight. There was a faint  
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John Lattin had said that it was of the  
brightest maximum in 179 years. I thought  
that it was at about the same distance  
as the up and scattered Orion as being  
seen by 3.9. I also observed the meteor  
and R. Carter and A. B. and Miss...

Up of  
about 3.9

2006 F.-S. Aug. 11-12 01:25-03:00 UT nd twl and S<sup>7</sup>T<sup>5</sup>(gml) ne; 18x50LSb  
ne: I observed during twilight and after its end, hoping  
to see a few Perseid Meteors. The bright gibbous  
moon rose during twilight. Moonrise was at 01:37 UT  
and astronomical twilight ended at 02:15 UT. I was  
facing mainly northward while observing to avoid  
the brighter part of the sky after moonrise. I saw  
one definite Perseid in the constellation Cassiopeia.

1 Perseid

18x50LSb: area of Kemble's Cascade in Camelopardalis;  
Alcor and Mizar and area; the area of Cygnus  
near the star Chi Cygni ( $\chi$  Cyg) which was  
at or near its maximum. It appeared  
quite orangish-red in colour. I estimated it  
at mag. 3.8. It was reported to be at an  
unusually bright maximum.

$\chi$  Cyg:  
mag. 3.8

Sa.-Su. Aug 12. <sup>some cloud</sup> 02:00-03:40 UT nd twl; S<sup>8</sup>T<sup>4-5</sup>(gml;  $\lambda$ ) ne; 18x50LSb  
ne: On the night nearest the peak of the Perseid  
Meteor Shower (listed in the Observer's Handbook  
as being at 23h on Aug. 12, 3 hours before  
the beginning of the observing session) I  
observed for about 1 hour and 40 minutes  
but saw few Perseids since the moon rose  
~~soon~~ <sup>about the time</sup> after I began observing and there was  
some cloud in the sky. Moonrise time was listed  
as 21:58 E.D.T. (01:58 UT), just 2 minutes or  
so before I began observing and the end of  
astronomical twilight was at 22:13 E.D.T. (02:13 UT.)  
I 2 meteors that were definitely Perseids, one  
that was definitely not (but may possibly have been  
a S.  $\delta$  Aquarid), and one that may possibly

2, possibly 3  
Perseids.



2008 Feb 14 03:00-04:00  
 No: I observed 4 very bright and stationary objects  
 to see a few faint stars, the bright ones  
 were very dimly visible. I saw a faint  
 and stationary faint star at 03:15. I saw  
 faint star in front while observing towards  
 the bright part of the sky at the moment. I saw  
 the definite faint in the center of the image.

Point

2008 Feb 14 03:00-04:00  
 No: I observed 4 very bright and stationary objects  
 to see a few faint stars, the bright ones  
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 and stationary faint star at 03:15. I saw  
 faint star in front while observing towards  
 the bright part of the sky at the moment. I saw  
 the definite faint in the center of the image.

2006.

have been a Perseid, in fact, one that may have been close to a "point meteor" since it appeared in Cas. not too far from the radiant of the Perseids.

$\chi$  Cyg:  
mag. 3.8.

18x50isb: I observed  $\chi$  Cyg and the surrounding area and estimated that star as being at mag. 3.8.

S.-M. Aug. 13-14 02:30-03:40 UT nd 58 TS (gal; <sup>some cloud</sup> ne; 18x50isb)

3 Perseids  
seen.

ne: I observed for over an hour hoping to see some Perseid Meteors on the night that was a bit more than 24 hours after the listed peak of the shower. I saw 3 Perseids and 1 meteor that was not a Perseid. The bright gibbous moon throughout the session may have been a factor in seeing so few. Clouds increased in the latter part of the session.

$\chi$  Cyg:  
mag. 3.7

18x50isb: I observed  $\chi$  Cyg at about mag. 3.7; also Keablers Cascade, R Cor Bor, Alcor and Mizar, M81 and M82.

W.-Th. Aug. 16-17 02:30-04:15 UT nd  $\chi$  Cyg 58 TS (9.5!) ne; 18x50isb.

ne: stars of late summer; 2 fairly bright Perseid meteors in the E. sky about 1 minute apart.

Chi Cyg was seen naked-eye, as was a "comparison" star  $\eta$  Cyg. I estimated Chi Cyg as being at mag. 3.8.

Chi Cyg  
mag. 3.8.

18x50isb: Chi Cyg and the nearby areas of Cygnus,  $\beta$  Cyg. easily split in the binoculars; M11, M16, M17, M18, M23, M24, M25, M26, M8, M20, M21, M22, M15, Col. 399 (also called Brooch's Cluster or Al Sufi's Cluster),

8000

have been a blood in fact one that may have been  
close to a "young water" since it appeared in 1925.  
not too far from the outlet of the branch.  
18X2015: I observed 2 eggs and the surrounding area  
and estimated that there is 1 egg per 50.

2 eggs:  
May 31

2-11-17 Aug 13-17 02:50-03:40 PM  
me; I looked for water on the right side of  
some forest. Water was in a light blue on  
a bit more than 500 ft from the  
left side of the stream. I saw 3  
eggs and 1 meter that was not a track.  
The right side of the stream was  
250 ft from the left side of the stream.  
of the stream.

3 tracks  
seen

18X2015: I observed 2 eggs and 1 meter  
me; I looked for water on the right side of  
some forest. Water was in a light blue on  
a bit more than 500 ft from the  
left side of the stream. I saw 3  
eggs and 1 meter that was not a track.  
The right side of the stream was  
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May 31

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a bit more than 500 ft from the  
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eggs and 1 meter that was not a track.  
The right side of the stream was  
250 ft from the left side of the stream.  
of the stream.

2006,

Perseus Double Cluster and Stock 2, M31, M32, M110, M33, Keable 2, R Cor Bor, T Cor Bor, M13, M92, area of  $\alpha$  Her and  $\alpha$  Oph, Taurus Pontowski area, Barnard's Star and its area,  $\alpha$  Persei Cluster, M2, M57, areas of the constellation Sagittarius and Capricornus. The moon rose at 03:47 UT and after that, of course, the sky transparency was not so superb.

S.-M. Aug. 20-21 03:20-03:35 UT nd 51(?) T 78 ne; 18x501sb  
ne: stars of late summer

18x501sb: M11 and R Scuti, M26, M16, M17, M18, M23, M24, M25.

Clouds moved in from the E. and NE during the latter part of the observing session.

M.-T. Aug. 21-22 02:15-04:00 UT y 58(?) T 9 ne; 18x501sb  
ne: stars of summer; one bright, but short meteor in the S.

18x501sb: M11 and R Scuti, M26, M16, M17, M18, M23, M24, M25, M8, M20, M21, M22, M28, M15, M13, M92, Uranus in Aquarius E. of  $\epsilon$ , Neptune in Capricornus E of 29 Cap, Keable 2, Double Cluster in Perseus, Stock 2,  $\alpha$  Her and  $\alpha$  Oph area, IC 4665, Barnard's Star and area, Taurus Pontowski, M31, M32, M110, M33, R Cor Bor, T Cor Bor,  $\chi$  Cyg - estimated to be at mag. 4.0, Co 1399 (also known as The Coat Hanger, or Broechi's Cluster or Al Suti's Cluster). This latter cluster was also seen naked eye, M55, M71.

$\chi$  Cyg at  
mag. 4.0

T.-W. Aug. 22-23 03:00-03:30 UT y 58? T 8 ne; 18x501sb  
ne: stars of summer; one meteor possibly a late Perseid.



2006

$\chi$  Cyg  
mag. 4.0

18x5015b: Uranus in Aquarius, Neptune in Capricornus, M1 and R Scuti area, M26, M16, M17, M18, M24, M25, M15, M55, M22, M28,  $\beta$  Cyg,  $\chi$  Cyg at an estimated magnitude of 4.0, Col 399

During the last 10 minutes of the observing session, the clouds moved in and before too long the sky was completely, or almost completely, overcast.

T.-W Aug. 29-30 05:30-05:35 UT nd 57-8T8 ne

I briefly observed under clear skies, that, however, had less than perfect transparency. The Summer Triangle was in the W., and the stars of Auriga and the Pleiades were in the E.

W.-Th. Aug 30-31 03:40-04:50 UT y 58(?) T9 ne; 18x5015b

ne: stars of late summer; M31 and Col 399 seen naked-eye

18x5015b: M2, M15, Uranus, Neptune, M13, M92, M31, M32, M10, M33, Kemble's Cascade, Kemble 2, Double Cluster and Stock 2,  $\alpha$  Persei Cluster, Pleiades, Barnard's Star, IC 4665.

I looked in the area of the "lozenge" in Draco for Comet 177P/Barnard 2. I was not

certain of seeing it, but I saw an area of

"nebulous brightness" at, or near RA 17<sup>h</sup> 04<sup>m</sup> Dec. +56° 54'. Later Ken Kingdon confirmed that the comet was at those coordinates

possible sighting of  
Comet 177P/Barnard 2  
(later confirmed)

Th.-F. Aug 31-Sept. 1 03:30-04:50 UT y 58T9.5! ne; 18x5015b

ne: stars of late summer; M31 and Col 399 seen naked-eye.

Recd

2009  
Aug 20

18x20: 10:00 AM in Agri...  
Miss M...  
estimated...  
during the last 10 minutes of the evening...  
the clouds... and before...  
completely or... completely...

18x20: 10:00 AM in Agri...  
I briefly...  
was in the...  
Members were in the...

18x20: 10:00 AM in Agri...  
Miss M...  
Members were in the...

18x20: 10:00 AM in Agri...  
for...  
certain...  
later...  
that the...

18x20: 10:00 AM in Agri...  
Miss M...  
Members were in the...

2006

18X5015b: Uranus, Neptune, M2, M15, M31, M32, M10,  
M33, Double Cluster, Stock 2, NGC 7789,  
& Persei Cluster, Kemble's Cascade, Kemble 2,  
looked for the comet I had seen the  
previous night but was not sure of seeing it,  
& Her and Oph area, M13, M92, T Car Bor,  
R Car Bor, M81, M82, M101, M27, M57,  
area of Cyg, area of the North America  
Nebula, M77, Col 399.

S.-M. Sept. 17-18 03:05-03:10 UT nd S8T8 ne

I briefly observed with the Milky Way very clear  
overhead and with excellent transparency in some, but  
not all, parts of the sky. The Summer Triangle of  
stars was prominent overhead with Deneb near  
the zenith.

T.-W. Sept 19-20 02:05-03:25 UT y <sup>(cloud-free)</sup> S8T8 (when r) ne; 18X5015b

ne; Thinking that I might have a good night for  
observing, I found the sky mainly cloudy for the  
first while - until about 02:20 UT. Then it was  
good for a while and I observed the stars of  
late summer/early autumn. Then it started to  
cloud over again at about 02:50 and became  
about 90% overcast. I continued to wait  
for clearing until about 03:25 UT.

18X5015b: Uranus, Neptune, EU and U Del,  
M31, M32, M10, M33, M2, M15, M57,  
Kemble's Cascade, M39, & Persei Cluster,  
Pleiades.



18250ish: Various lightness, M3, M2, M1, M0, M-1  
 M33, M32, M31, M30, M29, M28, M27, M26, M25, M24, M23, M22, M21, M20, M19, M18, M17, M16, M15, M14, M13, M12, M11, M10, M9, M8, M7, M6, M5, M4, M3, M2, M1, M0, M-1  
 looked for the count I had seen the  
 previous night but was not sure of the count  
 of the stars of the group. M3, M2, M1, M0, M-1  
 M31, M30, M29, M28, M27, M26, M25, M24, M23, M22, M21, M20, M19, M18, M17, M16, M15, M14, M13, M12, M11, M10, M9, M8, M7, M6, M5, M4, M3, M2, M1, M0, M-1

2-9-Sept 1999 (2000-2001) out of 2878  
 I mostly observed with the Milky Way very clear  
 overhead and with excellent transparency in some but  
 not all parts of the sky. The summer Triangle of  
 stars was prominent overhead with Deneb near  
 the zenith.

2-11-Sept 1999 03:05-04:00 (2000-2001) as observed  
 as observed (blank for)  
 as; Thinking that I might have a good night for  
 observing, I found the sky very dark for the  
 first time in about 10 years.

good for a while and I observed the stars of  
 late summer/early autumn. The stars of the  
 cloud were visible at about 03:00 and became  
 about 04:00. I continued to wait  
 for clearing until about 03:50NT.  
 18250ish: Various lightness, E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E20, E21, E22, E23, E24, E25, E26, E27, E28, E29, E30, E31, E32, E33, E34, E35, E36, E37, E38, E39, E40, E41, E42, E43, E44, E45, E46, E47, E48, E49, E50, E51, E52, E53, E54, E55, E56, E57, E58, E59, E60, E61, E62, E63, E64, E65, E66, E67, E68, E69, E70, E71, E72, E73, E74, E75, E76, E77, E78, E79, E80, E81, E82, E83, E84, E85, E86, E87, E88, E89, E90, E91, E92, E93, E94, E95, E96, E97, E98, E99, E100, E101, E102, E103, E104, E105, E106, E107, E108, E109, E110, E111, E112, E113, E114, E115, E116, E117, E118, E119, E120, E121, E122, E123, E124, E125, E126, E127, E128, E129, E130, E131, E132, E133, E134, E135, E136, E137, E138, E139, E140, E141, E142, E143, E144, E145, E146, E147, E148, E149, E150, E151, E152, E153, E154, E155, E156, E157, E158, E159, E160, E161, E162, E163, E164, E165, E166, E167, E168, E169, E170, E171, E172, E173, E174, E175, E176, E177, E178, E179, E180, E181, E182, E183, E184, E185, E186, E187, E188, E189, E190, E191, E192, E193, E194, E195, E196, E197, E198, E199, E200, E201, E202, E203, E204, E205, E206, E207, E208, E209, E210, E211, E212, E213, E214, E215, E216, E217, E218, E219, E220, E221, E222, E223, E224, E225, E226, E227, E228, E229, E230, E231, E232, E233, E234, E235, E236, E237, E238, E239, E240, E241, E242, E243, E244, E245, E246, E247, E248, E249, E250, E251, E252, E253, E254, E255, E256, E257, E258, E259, E260, E261, E262, E263, E264, E265, E266, E267, E268, E269, E270, E271, E272, E273, E274, E275, E276, E277, E278, E279, E280, E281, E282, E283, E284, E285, E286, E287, E288, E289, E290, E291, E292, E293, E294, E295, E296, E297, E298, E299, E300, E301, E302, E303, E304, E305, E306, E307, E308, E309, E310, E311, E312, E313, E314, E315, E316, E317, E318, E319, E320, E321, E322, E323, E324, E325, E326, E327, E328, E329, E330, E331, E332, E333, E334, E335, E336, E337, E338, E339, E340, E341, E342, E343, E344, E345, E346, E347, E348, E349, E350, E351, E352, E353, E354, E355, E356, E357, E358, E359, E360, E361, E362, E363, E364, E365, E366, E367, E368, E369, E370, E371, E372, E373, E374, E375, E376, E377, E378, E379, E380, E381, E382, E383, E384, E385, E386, E387, E388, E389, E390, E391, E392, E393, E394, E395, E396, E397, E398, E399, E400, E401, E402, E403, E404, E405, E406, E407, E408, E409, E410, E411, E412, E413, E414, E415, E416, E417, E418, E419, E420, E421, E422, E423, E424, E425, E426, E427, E428, E429, E430, E431, E432, E433, E434, E435, E436, E437, E438, E439, E440, E441, E442, E443, E444, E445, E446, E447, E448, E449, E450, E451, E452, E453, E454, E455, E456, E457, E458, E459, E460, E461, E462, E463, E464, E465, E466, E467, E468, E469, E470, E471, E472, E473, E474, E475, E476, E477, E478, E479, E480, E481, E482, E483, E484, E485, E486, E487, E488, E489, E490, E491, E492, E493, E494, E495, E496, E497, E498, E499, E500, E501, E502, E503, E504, E505, E506, E507, E508, E509, E510, E511, 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2006 W.-Th. Sept. 20-21 03:10-04:30 UT y59T9 ne; 18x501sb  
ne: On a night of excellent seeing AND excellent transparency, I observed the stars of late summer and autumn and saw a couple of meteors also

18x501sb: Uranus near  $\lambda$  Aquarii and Neptune in Capricornus, M2, M15, M45, M13, M92, Kemble's Cascade, Kemble 2 in Draco, Double Cluster, Stock 2,  $\alpha$  Persei Cluster, M57,  $\epsilon$  Lyrae,  $\beta$  Cygni, M27, M31, M32, M110, M33, NGC 7789.

Th.-F. Sept. 21-22 01:30-04:35 UT 00 S8T8-9 (Varied) ne; 18x50; 20x100<sup>C-14,32</sup>  
ne: stars of late summer and autumn; 4 meteors in different parts of the sky

18x501sb: Uranus, Neptune, M2, M15, M11 and R Scuti, Col 299, M26, M27, M57, M13, M92, M71,  $\alpha$  Oph and  $\alpha$  Her area, Barnard's Star and area, M31, M32, M110, M33, area of  $\beta$  Andromedae.

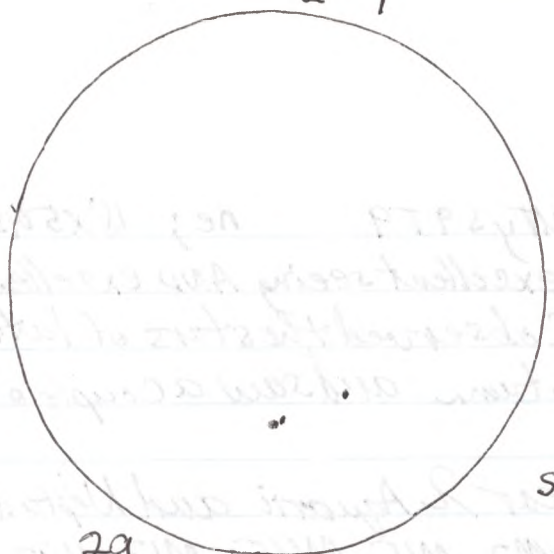
20x100b: Uranus, Neptune, tried to observe Levy 64 (NGC 404) near  $\beta$  Andromedae but found it too faint to see easily, Levy 277 (NGC 7184) not far from M30 and seen faintly, M30, NGC 7180 seen faintly near Levy 277 (NGC 7184); tried to see Levy 276 (NGC 7814) near  $\gamma$  Peg but was not sure of seeing it. I accidentally broke the Manfrotto tripod.

~~Levy 64~~

Levy 277  
NGC 7180

Levy 64  
Levy 263

C-14,32: Levy 64 (NGC 404) near  $\beta$  Andromedae; Levy 263 (NGC 7006),  $\sigma$  in Delphinus.



sc

29  
35  
RSN23

Oct. 2  
18:10-18:15 UT

Low 23  
Low 24  
Low 180  
Low 27

2006 T.-W. Sept 26-27 02:00-03:45 UT y S80T8.5-9 ne; 20X100b  
ne: stars of autumn.

18X50ISb: Uranus, Neptune, M1 and R. Scuti; M31, M32, M110, M33, M2, M15, Double Cluster and Stock 2, & Persei Cluster, Kempler's Cascade, M71, M27, M57, Col 299, BCygn, M39, area of NGC 7664 (Levy 55) but not sure of seeing it (U169), the star HIP 115725 - the star associated with an upcoming asteroidal occultation (U169), the area of NGC 7753 (Levy 38) U89, but not sure of seeing it, NGC 7789

M. Oct. 2 18:10-18:15 UT t  
sun 2g 3s RSN23

C-8, 32, 28, 20, 15.5  
T.O.F.

M. Oct. 2 18:20-18:25 UT nd

P.S.T., 20, 28, 20E, 15.5  
sun in H $\alpha$  - just some "hints" of prominences

M.-T. Oct. 2-3 00:40-01:05 UT y S?T6(gml) ne; 18X50ISb

ne: some stars in a brightly moonlit sky with a gibbous moon of about 10 days old in the SE sky. I wanted to observe a predicted occultation of the star HIP 115725 by the asteroid 25 Phocaea - predicted to be at about 00:51 to 00:52 UT. The 8.8 mag. star was within the Square of Pegasus. The event was predicted to have a possible maximum time of 6.3 seconds.

18X50ISb: Since the clamp on my Manfratto tripod had broken and I found it unsatisfactory to use the 20X100 binoculars on the

# Asteroidal Occultation

Prediction:

Time: 2006, Oct. 3, 00:51 - 00:52 <sup>UT</sup>

Duration: 6.3 sec. Maximum

Asteroid: 25 Phocaea mag. 10.1

Size: 75 km

Star: HIP 115725 mag. 8.8

R.A.: 23h 26m 43.8818s

Dec.: +19° 50' 26.769"

- in Square of Pegasus  
(Uranometria 169)

C/2006 T1 (Levy)

discovered by David Levy

visually on Oct. 2 at 4:10 local Arizona time

T: 2006 Oct. 9.226 TT

q: 1.07182 AU.

Peri.: 181.745

Node: 284.416 (2000.0)

Incl.: 19° 11'

e: 1.0

Oct. 2, 50061

R.A.: 9h 37m 29.47s

Dec.: +15° 52' 43.1"

2006

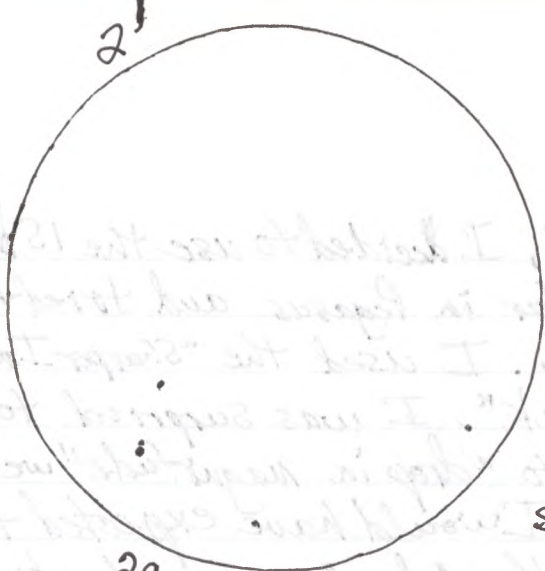
25 Phocaea  
occultation  
of HIP 115725.  
possibly seen  
at 00:47:55 UT

other smaller tripod, I decided to use the 15 binoculars. I located the star in Pegasus and tried to observe it carefully. I used the "Sharper Image" digital "atomic clock". I was surprised to see the star appear to "drop in magnitude" well before the time I would have expected the drop. I thought the "drop" occurred at 00:47:55 UT or thereabouts and lasted for about 3 seconds, i.e., about 4 minutes before the time when I would have predicted the event to occur. I was puzzled about being "off" possibly by that much from the predicted time for the event.

4:45 - 5:05 a.m. E.D.T. (gnd for a while)  
W.-Th. Oct. 4-5 08:45 - 09:05 UT y 5-7-8 ne; 18x50sb  
ne: stars of autumn and winter with Orion high in the SE. The moon set at 09:01 UT and the beginning of astronomical twilight did not occur until 09:32 UT.

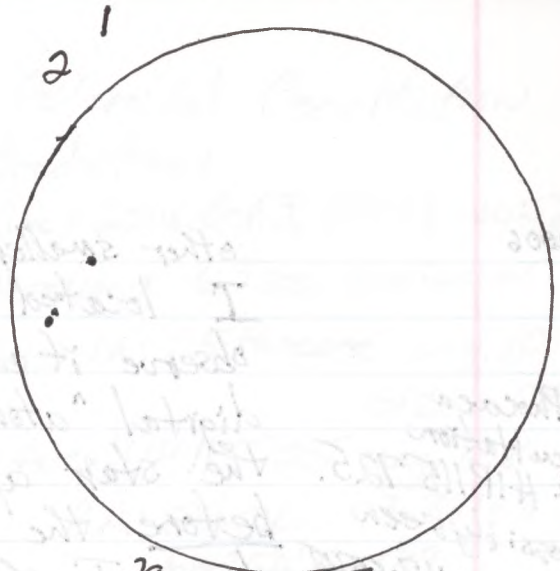
-looked for  
Comet Levy  
(C/2006 T1)

18x50 15b: Hoping to see the recently-discovered Comet Levy (C/2006 T1) I scanned near Saturn where it had been discovered. I did not claim to see it, using the aperture of the binoculars, but was almost certainly in the area and may have had it in the field as an extremely faint and unrecognized 'spot' of light. For 0<sup>h</sup> UT on Oct. 5<sup>th</sup>, its coordinates were listed as: R. A.: 9<sup>h</sup> 47.33<sup>m</sup>. Dec.: +14° 15.2'. I had e-mailed David to congratulate him and received a "Thank you" reply. In the fields I explored were the



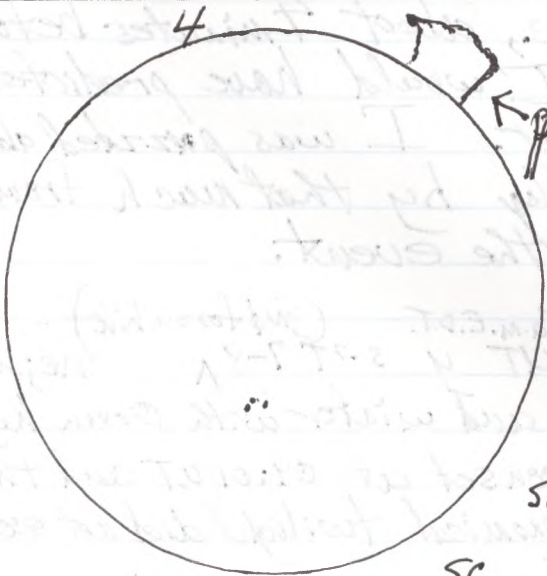
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29  
3s  
RSN23 Oct. 6  
18:10-18:15 UT



SC

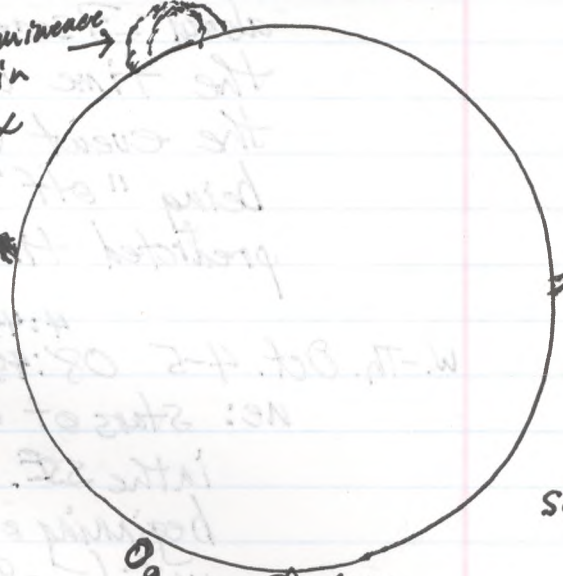
29  
3s  
RSN23 Oct. 7  
17:20-17:25 UT



Prominence  
in  
H $\alpha$

SC

19  
4s  
RSN14 Oct. 9  
18:10-18:15 UT



prominence  
in  
H $\alpha$

SC

09  
0s  
RSN0 Oct. 12  
18:30-18:35 UT

2006

planet Saturn and R Leonis which was faint and not well seen in the binoculars. I also observed M42, M43 (barely, if possibly seen) and M44, and R Lep which was easily seen at about mag. 8 to 8.5. I was glad to have at least some clear skies to try to find "David's comet".

F. Oct. 6 18:10-18:15 UT t C-8, 32, 28, 20, 15.5  
Sun 2g 3s RSN 23 T.O.F.

F. Oct 6 18:20-18:25 UT nd P.S.T., 20, 28, 20E, 15.5  
Sun in H $\alpha$  - numerous "hairs" of prominences

S. Oct. 7 17:10-17:15 UT t C-8, 32, 28, 20, 15.5  
Sun 2g 3s RSN 23 T.O.F.

S. Oct. 7 17:20-17:25 UT nd P.S.T., 20, 28, 20E, 15.5  
Sun in H $\alpha$  - "teepee-like" prominence at 1 o'clock position

M. Oct. 9 18:00-18:05 UT t C-8, 32, 28, 20, 15.5  
Sun 1g 4s RSN 14 T.O.F.

M. Oct. 9 18:10-18:15 UT nd P.S.T. 20, 28, 20E, 15.5  
Sun in H $\alpha$  - one excellent large prominence in the 1-2 o'clock position as viewed in the field. It was one of the best I had seen. (See diagram.)

Th. Oct. 12 18:30-18:35 UT t C-8, 32, 28, 20, 15.5  
Sun 0g 0s RSN 0 T.O.F.

Th. Oct. 12 18:40-18:45 UT nd P.S.T., 20, 28, 20E, 15.5  
Sun in H $\alpha$  - one "loop-like" prominence at 11 o'clock and other small ones at 9 o'clock and 3 o'clock positions.



plant between and flowers which was first a flat  
well seen in the distance. I also observed 11/12  
MFB (dark) (at 10:30) and MFB (at 11:00) and RFB  
which were easily seen at about 100 yds. I  
was glad to find at least some clear sites to  
try to find "Dunbar's coast"

10 Oct 6 18:10-18:15 UT  
Sun in the distance

11 Oct 6 18:30-18:35 UT  
Sun in the distance - numerous "dots" of prominence

12 Oct 6 17:10-17:15 UT  
Sun in the distance

13 Oct 6 17:30-17:35 UT  
Sun in the distance - "hook-like" prominence at 10:00 UT

14 Oct 6 18:00-18:05 UT  
Sun in the distance

15 Oct 6 18:10-18:15 UT  
Sun in the distance - excellent high prominence in the E  
black portion of prominence at 10:00 UT. I was  
the best I have seen. (See diagram)

16 Oct 6 18:30-18:35 UT  
Sun in the distance

17 Oct 6 18:40-18:45 UT  
Sun in the distance - one hook-like prominence at 10:00 UT and other  
small ones at 10:00 and 3 black portions

# Relative Seaspot Numbers

Date: My  
2006 Observation

Apr. 8 0

9 29

10 38

11 55

16 11

2450

17 0

18 0

19 0

20 14

25 47

27 58

28 55

29 54

30 51

May 1 54

5 22

8 58

9 34

11 11

24 27

25 22

June 5 22

6 37

15 0

16 0

2470

18 16

21 0

24 0

25 0

Oct. 2 23

6 23

7 23

9 14

12 0

