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see new diary

09 67

SEPTEMBER

1967AN5 Fri. 1/2100-0515/7-F/818+ven/ Little Joe/Cerry,
Ira Wechsler / CN-III, CN-V, art. Sat.

1968MP-2

0535-0537/7-F/818/-1-CN-V

MST

Continued from Log 19. 12 02

125735. Tuesday, December 18/19/1100-1200/10-F/Jarnac/
Mira/-/SS2: 5, 38. Also checked images
from last night's session. ACP2 detected
asteroid 2840 Kallavesi automatically as it
passed between α + β Geminorum.

12574E2. 2300-2315/10-F/Jarnac/-1-1 clear sky.

1258755. Wednesday, December 19/20/1600-1700/10-F/
Jarnac/Echo/Wendee/SS2: 3, 32.

12576E2. 2000 to 2310 110-F but wind from east/
Miranda^{Pegasus} and Little Joe, now called Minerva/
Wendee/CN3h: images. And a view of
Comet Linear, 2000WMI far to the south.
CN3: Catalog object near ϵ Linear -
NGC 7582 in Crux, elongated galaxy.
and CN3.5 min w/Miranda + Pegasus.

12577M35 0445-0730/10-F but windy/Jarnac/
Pegasus/Wendee/CN3fe TU Gw-14.6.

MST

CN3 60m E and SE. Found Centaurus A, NGC 5128, ~~etc~~ close to horizon where it looked very much like a comet. Combined with the encoder (the N-S encoder) not being accurate, it had me going for about 20 minutes before I realized that the encoder was in error. By this time it was too bright to recheck the object. Wendee suggested that I try to find the area on an atlas. Even with no way to see the object, I found the field of NGC 5128 to be totally consistent with what I saw. So that ended it. J Sco 1.7.

12578SE Thursday, December 20/21/1630-1730/
3-F/Jarnac/Wendee/Mira/SS2:0,0.
Sun barely visible through clouds.

12579S Friday December 21/22/4:45-5:15 /10-F/
Jarnac/Miral-1SS2. 5,43.

12580E2. 1800-2330 int. /10-F/Jarnac/Miranda/
-1CN3h. 2 pics.

12581M3 0440-0630/10-F/Jarnac/Miranda,
Miranda-1CN3 45^mE. CN3e TV Gr (14.8,
CN3h/18pics.

12-01

12582S. Saturday, December 22/23/1630-1715/
10-F/Jarnac/Mira|-/SS2 5, 45.

12583E2 1830 to 2350/10⁻³-F/Jarnac/Minerwa/Wendee/
CN3h 2 sets of films 24 + ~16 which didn't
complete.

12584M3 0430 to 0635/10-F/Jarnac/Minerwa, Miranda/
-|CN3 45^mE. CN3H 24 image set.

12585S. Sunday, December 23/24/1230-1330/11-F/
Starizona/ reflector + refractor/Dean, Wendee/
SS2 9, 180. Much better + seeing than last
2 days (near sunset). Nice prominences.

if

IN MEMORY OF BOB GOFF.

*12586SE2. 1715-2100/10-F/Jarnac/Minerwa, Esther/
Wendee/Sunset, green flash + green halo
right after sunset. Bob enjoyed watching
green flashes.

Then tried to switch CCDs for Minerwa +
Esther. The other system had the same
SC221 problems so I switched them back,
focused Minerwa + took the evening set
of 24 pictures. ^{not completed.} May you rest in peace,
Bob.

MST

12587M3. 0600-0630/10-F/Jarnac/Pegasus/Wendee/
CN3e TVGw C14.6.

12588S. Monday, December 24/1600-1730/10-F/
Jarnac/Mini/-/SS2: 9, 140.

12589E2 1815-1940/10-F/Jarnac/Minerva/Wendee,
Sandy/CN3h - still SC221 problema

12590M3 0430-0610/10-F/Jarnac/Minerva, Miranda/
-/CN3 1h5mE. CN3e TVGw C14.8.
Tuesday, December 25.

12591S 1700-1730/10-F/Jarnac/Mini/-/SS2: 8, 90.

12592E. 1808-2100/7-Fm/Jarnac/Minerva/Sandy/
CN3h finally our set from the 22nd (cf 12583E2)
and last night (12589E2) taken successfully.

12593M2 0445-0620/10-F/Jarnac/Miranda/-/
CN3 1h15m, CN3e TVGw C14.8.

12594E Wednesday, December 26/27/1830-2300/
7-F/Jarnac/CN3 5mW. CN3h 24 pics taken
ok. without incident, 1 suspect rejected.

12595S. Friday, December 28/29/1600-1620/10-F/Jarnac/
SS2 with Uncle Ralph: 9:125.
3-2

12-01

12596M. before 125955. December 26/27/28/2300 to 0400 intermittent / 3-F/Jarnae / - / - / Moon before and after occultation with Saturn.

12597E2 28/29/2150-2210/2-F/Jarnae / - / - / Almost full Moon seen through a thick layer of cirrus; no wind, mild.

12598E. 29/30/1900-2000/3-F/Jarnae / - / Wendee's birthday / Moon.

*12599M2 0240-0400/2-F/Jarnae/Mintaka / - / Penumbral Lunar Eclipse #58. Saros 144, see 6468E for last eclipse in this series. Weather turned bad just after I began observing, in that a large stratus cloud formed. However, the cloud had breaks of lighter cloud through which I could observe the progress of the eclipse. The Earth shadow must have been extremely light, for only at mid-eclipse was I certain that the Moon's south pole was clearly in the penumbral Earth shadow. Enjoyed looking at a slightly darked Crinaldi also, before mid-eclipse.

12600S. December 30/31/1600-1715/10-3-F/Jarnae/Echo/ Lisa + David, Wendee / SS2: 10, 155.

MST

12601E2 December 30/31/ 2300-2340/1-F/Jarnac/Mintaka/
-1 Moon. Observed Gramaldi and Gassendi.

12602S. December 31/32/1200-1300/3-F/Jarnac/Mintaka/
Jarnac, Bill, Wendee, Mom + Dad/SS2: 11, 132.

12603E2. 2100-2230/2-F/Vega house / party
for New Years. / Wendee, Jim + Carol, Gil,
Mr. Galaxy + Mrs. Mr. Galaxy, (the
Johnsons, Wayne + Arlene), Ed + Pat Vega.

*12604M3 0005-0035/7-Fm/Jarnac/-Wendee/
Mintaka/ Jupiter ~~at~~ at the meridian
at midnight on New Year's Eve.

2002. January.

12605S. January 1/2, New Year's Day / 1115-1200/10-
F but humid / Jarnac / Pegasus and Mintaka
-1 SS2 with Pegasus: 7, 40 BUT seeing
within the dome was poor, and I used
projection.
SS2 with Mintaka: 9, 126. Many small spots.

12606E2 2100-2330^{int}/3-F/Jarnac/Minerwa/Git, Wen-
dee / CN3h tests on Minerwa.

01-02

126075 January ~~2~~/3/4, 2002 / (before 126115.) *1600-1630/
3-F/Jarnac/Mintaka?/-/SS2: 13, 124.

12608E2 Jan ^{2/3} 1830 to 1900 / 3-F/Jarnac/Minerwa/Gal/CN3h
test.

12609E3 2000-2130 / 3-F/Jarnac/Minerwa / Bob Denny on
phone / CN3h Maxim 3 installation.

12610M4 0530-0615 / 2-F/Jarnac/Pegasus in dome / -/
CN3 5min NE. Moon.

126115. January 4/5 / 1720-1730 / 10-F/Jarnac/Echol
SS2: 5, 32 with poor seeing near sunset.

12612ER. 2200-0030 / 10-F/Jarnac/Minerwa / - / CN3h:
Many asteroid tests.

126135. Saturday, January 5 / 1425-1440 / 3-F/Jarnac/Echol-/
SS2: 6, 54.

12614M (before 126115). 3/4 / 0550-0605 / 3-F/Jarnac/
Pegasus / - / CN3E TV Cw (#13.3.

12615ER 5/6 / 2200-0130 / 10-F/Jarnac/Minerwa / - /
CN3h. Many asteroid tests. 8 in all 24 pics.

MST
12616S. (also 0710-0745) Sunday, Jan 6/7, 2002.
1030-1700 / 3-F / Jarnae / Wendee, Mom, and Ed /
Echo, Pegasus, Minerva / SS 2.6, 57.

This morning at ~ 7:10 Wendee left the house to walk. Around 7:35, Wendee noticed the domes ^{on Kitt Peak} - two of them glowing in the light of the rising sun. At first she thought the sun had already risen, so then she turned to the southeast. She saw a glow, and then suddenly, seconds later, the sun rose, and Wendee saw an electric green flash, more intense than any other green flash she had ever seen. It made her think of Bob Goff, who also enjoyed green flashes. "It made my day!" she said.

*12617S. Monday, January 7/8 / 1000-1400 / 3 F / Jarnae /
Minerva, Horus, Esther, and Mini / Gil, Bob
Denny over the phone // Horus disassembly.
Getting ACP working on Esther. / SS 2 with Mini:
4, 37.

12618ES. Tuesday, Jan 8/9 / 101315-1325 / 3-F / Jarnae /
Echo / - / SS 2.

12619E2 Mon 7/8 (before 12618) / 2200-0130 / 8-F /
Jarnae / Ophelia-Apollo, Esther, Minerva / - /

01-02

CN3h-images with Esther. 12 images. One contained the trail of a geosynchronous satellite.

12620E2. Tuesday, January 8/9/2000 ~~to~~ 1930-2145/10-F/
Jarnac/Ophelia/Wendee/SS CN3F. 6 pics.

12621EP. Wednesday, January 9/10/19 2230-2240/2-F/
Jarnac/-/Wendee some stars.

12622S. Thursday, January 10/11/11:30-11:45/2-F/Jarnac/
Echo/-/SS2: 7.88.

12623E2 1900-2350 int/10-F(windy)/Jarnac/Esther,
Mirrowal/Wendee/CN3h. TVCw-13.3.

12624S Friday, January 11/12/1300-1415/10-F/Valerie
Vance-Groff's mother's house/-Dean's refractor
and Steve Koerber's H-d refractor, and Cupid/
Wendee, Mom, and many guests, Valerie, Vance
& Groff family / Memorial Service luncheon
for Bob Groff. I was asked to arrange
this sun session in memory of Bob. So I
asked Dean and Steve, and I brought
Cupid. In addition to being the only white
light imager, Cupid was also the centerpiece
at the dining room table, in memory of a man
who loved optics. SS2: 7.72.

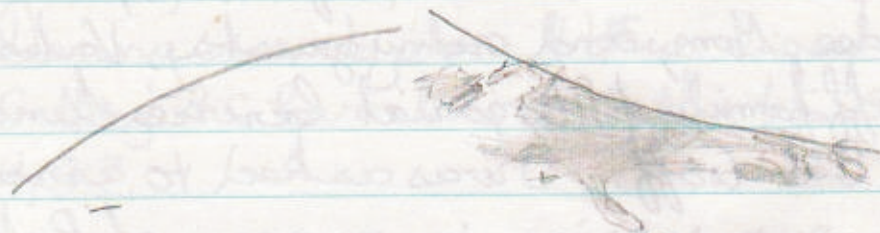
MST

12625EM2 2000-0130/10-3-F/Jamaac/Apollo,
Minerva, Esther/Wendee, Michael, Marilyn/
CN3h. Jupiter, Saturn with incredible
seeing with Apollo. W/Pegaseus CN3eTVGw (13.3)

12626S. Saturday, January 12/13/1530-1630/7-F/
Starzjira/Dean, Wendee/SS2:10,103.
6 prominences.

12627F2 1920-0000/10-3-F/Jamaac/Obadiah, Esther,
Minerva/Wendee/CN3F 6pics. CN3h.w/
Minerva. Esther got too low to finish.

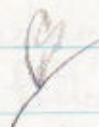
12628M3 0520-0615/10+-F/Jamaac/Miranda/-/
EN3 0^h40^m E. CN3e TVGw (14.6
VSO-I: δ Sco 2.1.



*12629S. Sunday, January 13/14/1100-0430/10-F/Jamaac/
Capella, Mintaka/SS2. Prominences with
newly installed He filter VERY successful.
Sunspots 10, 158. 1 Mother, Wendee saw
the beautiful prominences; Maw saw the spots.

01-02

2630E2. 1800 to 0000 / 10-F / Jarnac / - / Minerva, Esther /
CN3h.


2631M3.  0450-0630 / 10+-F / Jarnac / Miranda /
CN3e TVGW 4.8, CN3 1^h E.
Catalogue object NGC

2632S. Monday, January 14/15 / 1000-1200 / 10-F / Jarnac /
Mother! / Capella, Pollux / SS2. 10, 102. Prominence
see above.

2633EM2. 1900 to 0030 / ~~10~~³-F / Jarnac / - / Esther,
Minerva / CN3h. 150 pics, 75 with Minerva, 75
with Esther, all successful!

2634M3 0440-0525 / ~~10~~²-3-F / Jarnac / Pegasus /
- / CN3e TVGW 13.3. CN3 15min NE.
VSO-1 TGV B 10.2.

2635S. Thursday, January 17/18 / 1700-1720 / 3-F / Jarnac /
Echo / - / SS2: 5, 32.

2636S Friday, Jan. 18/19 / 1630-1700 / 3-F / Jarnac /
Capella, Pollux / - / SS2. 8/1. Several prominences.


MST

12637E2. Friday, Jan 18/19, 2002/1900-2100/7-Fm/Jarnac/
Wendee, Aurbach family 10, Chadash
auction visit / M42, Sirius, Saturn,
Jupiter, Mars, the Moon.

12638M3. 0430-0620/3-2-F/Jarnac/Capella, Pegasus,
Pollux/SS2, 7:71. ~~Some prominences. Miranda~~
- / CN3 1^h25^mE. CN3e TV Gw C14.8.

12639S. Saturday, January 19/20, Wendy's birthday/
1220-1250/3-2-F/Jarnac/Capella, Pollux/
- / SS2 7:71.

12640E2. Saturday, January 19/20/1745-1815/2-F/
Starizona/Dean, others / 8" Celestron, and a
smaller refractor / test for new 35mm
Ultima eyepiece, And Saturn through 8-inch.


12641M3. 0430-0620/10+, F/ Jarnac / ^{Pegasus} Miranda, 1-/
CN3e, TV Gw C14.8; CN3 1^h15^mE.

12642S. Sunday, January 20/1230-1400/10-F/
Jarnac/Capella and Pollux/SS2 7prominences;
9:79.

12643ER. 2100-0120 /7-Fm/Jarnac/Celestron 8, Minerva
and Esther/Scott Tucker, Wendee / test
on CN3h, autocalibration.

01-02

12644M3 0500 to 0625 / 10-F / Jarnac / Pegasus and Miranda /
- / CN3e TV Gw C14.6. CN3 0h 50m E.

12645S. Monday, January 21 / 1230-1600 / 10-F / Jarnac / Capella
and Pollux / Wendee,  / SS2: 8, 9).

12646E2. 1900-0000 / 3-F / Jarnac / Minerva and Esther / - /
CN3h. Autocalibration tests successful; took 75
images but autodark didn't work.

12647M3. 0600-0620 / 10-F / Jarnac / Pegasus / - / CN3e TV Gw
C14.6. CN3 5min. E.

12648S. Tuesday, January 22 / 1700-1745 / 1-F / Mike + Elaine's
house, not on Brian Kent (cf. 1924AN-27). / Tasco binoculars /
Uncle Mike, Aunt Elaine, Mom, and Wendee / SS2 by
projection: 2, 4. One very big spot near sun center.

12649S. Wednesday, January 23 / 1730-1745 / 2-F / Jarnac /
Echo / SS2: 2, 4. Big spot in center.

12650E. 1930 to 2350 / 3-F / Jarnac / Minerva and Esther /
Wendee / CN3h. 75 pictures.

12651M^S2. 0535-0800 / 10-F / Jarnac / Miranda / Wendee / CN3e
TV Gw C14.6 CN3 35min E. Then, E walk with
Wendee and sunrise.

MST

12652S. Thursday, January 24/25/1530-1630/10^F/Jarnac/
Wendee/Capella, Pollux/SS2: 5, 39. The sky was
extremely clear. Wendee said of her view of
the Moon: "The Moon [as seen with the naked eye.]
looked like it was painted on a blue velvet
background. Only the white part needed to be
painted because the darker parts of the Moon
were the color of the sky."

12653EM2 1900-0030 17^F/Jarnac (-Esther and
Minerva/Wendee/CN3h. again, successful.
right. 150pics.

12654S. Friday, Jan. 25/26/10^F/Jarnac/Capella, Pollux/
SS2: 8, 68, + prominences.

12655EM2 1718-0215/10^F/Jarnac + Miraval Resort, Jarnac/
E Minerva, 6" refractor, 8" Celestron / Dean, Larry,
Magazine editors / Starparty at resort / Jupiter,
Saturn, Moon, Sirius, Owl cluster.

12656S. Sat 26/27/1400-1430/3^F/~~Jarnac~~ Starizona/
6" refractor, 4" reflector / SS2: 8, 68, 13 prominences

12657EM2. 2000 to 0208 / 2^F / Jarnac / Wendee, Dean /
Ophelia, Apollo / focusing attempt on
Ophelia 2.

01-02

- 12658S. Sunday, 27/28/1605-1650/2-F/Jarmac/Echo/-/
SS2: 5, 71.
- 12659S. Tuesday, 29/30/1:15-1:30/2-F/Jarmac/Echo/-/
~~SS2~~: 7, 53.
- 12660E. Wednesday, 30/31/2200-2230/7-Fm/Jarmac/
Wendee/Clear, cold, moonlit night with snow
on ground and in trees. Moon in NE, almost
full. Beautiful night.
- 12661S. Thursday, January 31/32/0800-0815/10-Fm/Jarmac/
Wendee/SS2 9:79 with Pollux. Temperature 21° in
observatory. Pictures taken of snow-covered
landscape and Moon.
- 12662SER. 17 00-0010 /10+-F/Jarmac/Wendee/
CN3 30min W. Cat. obj. NGC 246 wide P.N.
in cluster. CN3h with Munira, CN3 with
Miranda.
- 12663S. Friday, February 1, 2002/0850-0905/3-F, windy/
Echo/-/SS2: 7, 79.
- P ST.
- 12664E2. 2115-0000/3-F/Pasadena Synagogue/Cupid/
Wendee, Steve Edberg/Jupiter. Later, Moonrise
seen through the spaghetti of highway interchange.

PST

12665S. Saturday, February 2 / 0915-0945 / 3-F /
Holiday Inn Express, Indio, California /
Cupid / Wendee / SS2:

12666^SE2 1900-1730-2230 / 2-F / Jarmac, Starizona /
MST. - / Wendee, Starizona people / Magnificent
sunset in cloudy sky, rainbow in east,
red clouds in west. Clouds at Starizona.

12667EM. Monday, February 4, 2002 / 2100-0350 /
3-F, cold but very humid / Dean, Wendee /
CN3F. Collimation attempts with Ophelia
2. We're close.

12668S. Tuesday, Feb. 5 / 1800-1830 / 10-3-F / Jarmac /
Echo / SS2: This was actually after 12669.

12669^SE2. 1800 to 0000 / 10-F / Jarmac / Minerva, Esther,
Obadiah, Ophelia 1, 2, Moira / Bob Denny,
Carolyn, Wenda / installation of new version
of ACP, then CN3F on the 3 telescopes - 2
Ophelia + Obadiah, CN3h on Minerva +
Esther. CN3e TV Gr C14.6.

12670S. Wednesday, Feb. 6 / 1500-1730 / 10-F / Jarmac /
/ Carolyn, Wenda / SS2: 8, 93.

02-02

- 12671E2. 1900 to 0000 / ~~1900~~ 10-F / Jarnac / Minerva, Eather, Obadiah, and Ophelia / Mira / Wendee, Carolyn / CN3h 72+75 pics. CN3F 20 pics.
- 12672S. Thursday, February 7 / 1500 to 1730 / 10-F / Jarnac / Wendee, Carolyn / Sitting at table, then SS2.
- 12673EM2. 1900 to 0200 / 10-F / Jarnac / - Minerva, Eather, Obadiah, Ophelia / - Wendee, Carolyn / SSCN3h 72+75 pics; CN3F 20 pics. CN3e, C14.6.
- 12674S. Friday, February 8 / 1100-1130 / 10-F / Jarnac / Pegasus / Carolyn / SS2: 5, 43.
- 12675EM2. 2100 to 0230 / 10-F / Jarnac / Obadiah, Miranda, Mintaka, Eather, Minerva / Larry. from New Zealand, Wendee / We sat on the floor looking at Jupiter high overhead, watching the planet rotate, seeing moons as disks. Obadiah performed brilliantly at 5mm power, really well. He loved Miranda too, seeing M81+82, 51, 42. And saw analysis of tonight's images.
- Saturday.
- 12676S. 1300-1500 / 10-F / Jarnac / Wendee / installing rope lights outdoors. SS2 with Echo: 8, 45.

MST.

12677S2 Saturday, February 9, 2002/1620-1635/10-F/
Jarnac/Echo/SS2 second time today, 8:57.

12678E 2000 to 2300/10-F/Jarnac/Minerva/-/CN3h:
~60 pictures from -30 to -38.

12679S. Sunday, February 10/1500-1650/7-F/Las
Cruces/

12680S. Monday, February 11/12:30-13:00/9-F/Patsy's
house/Cupid/Wendee, Patsy/SS2, 6:56.

12681E2. 1900-0000/10-F but windy/Wendee, Scott Tucker,
Linda M./Minerva, Esther, 14" Celestron/
CN3h. 75 pics with Minerva, [with Esther/
-CN3e TVCw C14.6. at Jarnac.

*12682M3. 0500-0600/10-F, windy/Miranda/-/CN3 1^hE.
Star chain :- at 19^h34^m.3, +02 09.

12683E. Tuesday, February 12/1900-2330/10⁻³F/Jarnac/
Minerva, Esther/Wendee/CN3h.

12684M2 0520-0615/3F/Jarnac/Miranda/
-/CN3 40^mE. Pegasus: CN3e TVCw

126859E. Wed, Feb 13/1500-2350/3-F/Jarnac/Echo, Min-

02-02.

erwa, Esther/Wendee/SS2: 3, 29. CN3h, instal-
lation of rope lighting in the observatory.

12686M2. 0440-0615/10-3-F/Jarnac/Pegasus, Miranda/
-|CN3eTVGr C14.6. CN3 1h E.

12687S. Thursday, Valentine's Day/1530 to 1700/3-F/
Jarnac/Capella, Pollux/Wendee/SS2: 8 prom-
inences, 3 groups, 29 spots. Speaker repair.

12688E2. 1900 to 0000/3-F/Jarnac/Mirera, Esther/
CN3h.

*12689SE. Sunday, Feb 17/1400 to 0000/2-1-F/Jarnac/
Capella, Pollux, Miranda, several other
telescopes/Wendee, ~35 Project Astro
Workshop people, Dean, Ken Crown, others./
Project Astro activities, lecture, dinner.
SS2: 4 prominences; 3, 30.

12690S. Monday, Feb 18/1300-1330/2-F/Jarnac/Echo/
-|SS2: 3, 30.

12691E2. 1900-2300/3-F/Jarnac/Minerva, Esther/-/
CN3h. - CN3eTVGr C12.4.

12692M3. 0540-0615/10-F/Jarnac/Pegasus/-/
CN3eTVGr C14.6.

MST

12693E. 1945-0000 / Tuesday, February 19/7-Fm / U of A,
then Jarnac / Minerva, Esther / Wendee /
Walk to + from library, then CN3h. With
Miranda, CN3e TV Gr (4.6.

12694S Wednesday, February ²⁰ ~~19~~, 2001. /
3-F / Jarnac / Echo / SS2:

12695E2 1900-0000. H 7-F / Jarnac / Miranda,
Minerva, Esther / CN3h. CN3e TV Gr (4.6. ¹³³?

12696M3. 0430 to 0620 / 10-F / Jarnac / Miranda / - /
CN3 1^h 20^m E.

*12697S. Thursday, February 21 / 1400-1630 / 10-F / Jarnac /
Cupid / Wendee / SS2. 3, 39. Installation
of Cupid onto Ophelia.

12698E2. 1900-2300 / H 7-F / Jarnac / Minerva,
Esther, Cupid - Ophelia / Wendee / CN3h.
Moon, Saturn, M42 with Cupid.

12699M3. 0430 to 0615 / 10-F / Jarnac / Very strong
winds / Miranda, Pegasus / - / CN3e TV Gr
(4.6. CN3 30m E, 15w / Miranda, 15w / Pegasus
after wind forced shutdown of Miranda.

02-02

12700S. Friday, February 22/1250-1305/10-F/breezy/
Jarnac/Echo/-/SS2; 4, 42.

12701E2. 1830 to 2300 /10-F but smoke from fires to
the east / Minerva and Esther / CN3h / Wendee
and I looked at the Moon within a degree of
Jupiter. No need for go-to: Everything's in 1 spot.

12702M3. 0600-0615/3-F/Jarnac/-/-/VSO-1: S Sco.
2.1

12703S. Saturday, February 23/1430-1450/3-F/Echo/
-/SS2: 4, 37.

#12704E2. 1830 to 2230/2-F/Jarnac/Cupid-Ophelia/Wendee/
First use with guiding eyepiece. Also we began
by sitting at our table.

12705M3. 0000 to 0030/3-F (clearing) / Jarnac / Moon, Jupiter...

12705MS4. 0500 to 0830/10-3-F/Jarnac/Miranda,
Pallux, and Capella / CN3e TV Gr 14.8. CN3 40mE
Found Mercury with Pallux / SS2: 6, 52, 10 proma.

12707EM Sun, 24/25 11-F Int J / Dean, W, Scott / ^{Cupid-Ophelia, Esther, Minerva} Miranda / CN3h. Focusing Opt 2.

12707S. Monday, Feb. 24/1230-1330/10-F/Echo/-/SS2:
8, 78.

12709EK2 1915-0320 /10-F/Jarnac/Cupid-Ophelia, Esther,
Minerva, Miranda / Dean, Wendee / CN3h, CN3e opt 2
almost focused.

MST

12710S. Tuesday, February 26, 2002 / 1630-1645 / 3-F /
Jarnac / Echo 1- / SS2: 6, 53.

12711E2 1900-2300 / 7-Fm / Jarnac / Minerva, Esther,
Cupid - Optelia / Wendee / The Moon is visibly
bigger tonight as it reaches perigee at
full phase.

12712E. Wednesday, February 27 / 2340-2355 /
2-F / Jarnac / Echo 1- / Moon.

12713S. Thursday, February 28 / 1400-1420 /
3-F / Jarnac / Echo 1- / SS2: 3, 52.

12714E2M. 2000 to 0010 17-Fm / Jarnac / Miranda,
Minerva, Esther / CN3h. CN3e TVCw (13,3).
CCDs + computers on Min + Est. swapped.

12715S Friday, March 1, 2002 / ~~2230-2:1030~~ to
11:00 / 10²F / Jarnac / Capella and Pollux / Wendee /
SS2: 3, 42. 3 prominences, including this
"Mr. Brontosaurus."



MST.

127209. Monday, March 4/10-F/Jarnac/Capella,
Pallus 1-Carolyn, Wendee/SS2: 4, 48.

12721E2 1900-0000/10-F/Jarnac/Wendee, Carolyn/
Obadiah, Cupid-Ophelia, Miranda, Esther/
CN3F, picture of Comet Ikeya-Zhang, 17
pictures. CN3h, 90 pictures. CN3e TVCw-U4.6

12721E2M. Tuesday, March 5/1900 to 0130/10-F/Jarnac/
Obadiah, Miranda, Esther/CN3F, 9 pictures
CN3e TVCw-i C14.6.

12722S. Wednesday, March 6/1245-1300/~~10~~³F/Jarnac/
Echo 1-SS2: 3, 41.

12723E2 1830-1908/~~10~~F/Jarnac/~~Esther~~ -/Wendee,
The Beagle/walk with our new dog.

12724E3 2230-2300/1-F/Jarnac/The Beagle/Clouds

12725E Thursday, March 7/2200-2300/1-F/Jarnac/
The Beagle.

12726E. Friday, March 8/~~2030~~-1830 to 2330/10-F,
Jarnac/Minerva, Esther, Cupid/Wendee/
Wendee, The Beagle/1-CN3F 30 pics w/
Minerva, 2 with Esther.

(27.)

03-02

127285. Saturday, March 9/1330-1400/10-F/Jarnac/Wendal
SS2: 4, 28, 4 prominences/



1272952. 1630-1715/10-F/Jarnac/Obadiah/Wendee,
Reporter for channel 9, The Beagle/SC Report and
interview on light pollution.

12730E3. ~~2~~ 1830 to 2330/7-10-F/Jarnac/Staryjona,
lecture house/Dean, others, Larry/
1) 6" ? refractor at Staryjona / Jupiter. beautiful
2) 2 8" reflectors at lecture house. M79, Jupiter
3) Pegasus. TV Gw-C13.83.

1274315. Sunday, March 10/5:30-6pm/7-F/Echo/-/
SS2: 4, 24.

12732E2 1030-1200pm/9-F/Jarnac/Pegasus/-/
-1CN3e TV Gw-C13.3. also 120 Covy walk.
with The Beagle.

12733M2. 0450-0530/10-F/Jarnac/Miranda/-/
CN3 35^m E.

127345. Monday, March 11/3:50-4:05pm/10-F/Jarnac/
Echo/-/SS2: 5, 22.

MST.

12735E2. 1900 to 2350 / 10-F / Jarnac / CN3R with
Minerva + Esther. CN3e with Pegasus
TVGw-C14.6. Also 120 Carey walk with
The Beagle.

12736M3. 0430-0550 / 10-F / Jarnac / Miranda / - Beagle
CN3 0h35m. "Independent discovery"
of Comet Snyder-Murakami. I knew about where it
was and let telescope sweep til it found
the comet. Independent discovery a
few minutes later of C/2000 WM1 - Linear -
7th mag. with 2° tail.

12737S Tues. March 12 / 540-6pm / 10-F / Jarnac /
Echo / -ISS 2: 4, 28.

12738E2M. 1900-0150 / 10-F / Jarnac / Minerva +
Esther, ^{Miranda} ~~Pegasus~~, refractors / David
Scott + Tucker / CN3h. CN3e TVGw C14.6.
Comet Ikeya-Zhang.

12739M3. 0430-0615 / 10-F / Jarnac / Miranda /
- / CN3 0h50m E. @

12740S. Wednesday, March 13 / 1610-1640 / 3-F / Jarnac /
Mira / - / ISS 2: 4, 28.

12741E2. 1830-0200 / 10-3-F / Jarnac, 120 Carey /

03-02

Miranda, Pegasus, Minerva, Esther / Ken
Grawest/ refractors / CN3e TVGw - (13-14.6).

12742SE. Thursday, March 14/15 / 1730-2340 /
10-F / Jarnac, Art + Jeff's house / Pegasus,
Art's ETX / Comet Ikeya-Zhang, naked eye
+ with telescope. CN3e TVGw - (14.6).

12743MS. Friday, March 15/16 / 1720-1740 / 10-F /
Jarnac / Echo1 - / SS2: 7, 45.

12744EM2. 1900 to 0215 / 10-F / Jarnac / Minerva, Esther,
Pegasus / The Beagle / Long walk from 120 Carey
to South side, old starting place for CN3e,
and back. Once home at Jarnac, I got
CN3e TVGw - (14.6). Nice session.

12745S. Sat March 16/17 / 1500-1530 / 3-F / Echo1 - /
SS2: 5, 33. windy.

12746E2. 1830-1930 / 3-F / Jarnac / Echo1 - Peter /
Comet Ikeya-Zhang. Peter had called to
say he had just seen it.

12747EM3 2230-0215 / 3-F / Jarnac, earlier 120 Carey walk /
The Beagle / Pegasus / CN3e TVGw - (14.6). Also
live NPR broadcast 1-2 am.

MST

12748M2 Monday, March 18/19/0500-0545/10-F/Jarnac/
Minerva 1-1 & CN3 30^mE.

12749E. before 12748/2300-2330/10-F/Jarnac/Pegasus 1-/
CN3e TVCw U4.6.

12750EM Wednesday, March 20/21/2340-0010/3-F/
Woodstock, Il. 1-1-general observing on town
square.

12751E. Thursday, March 21/22/2000 to 0000/3-F/
Jarnac/Obadiah, Cupid/Wendee. Steve O'Mara
over the phone/1135 occultation by Moon.
Clouds occulted each star successively
before Moon did.

12752S. Friday, March 22/23/1800-1815/10-F/Jarnac/
Mira 1-1 SS2: 7, 41.

*12753E2 2000 to 0000/10-F/Jarnac/Father, Minerva/
Pegasus/CN3h. 45 pics w/Minerva. CN3e
TVCw U4.6.

*12754S. Saturday, March 23/1240-1400/3-F/Organ Pipe
Cactus National Monument/Cupid/Wendee, 2
Canadian cyclists/SS2: 7, 49. Views of both
Natural bridges. OUR 5th ANNIVERSARY.

03-02

12755E2 Saturday, March 23/2100-2340/3-F/Jarnac/
CN3e with Miranda (14.6-14.6) CV3h with Minerva +
Esther 45+45+30 pics.

12756M3 0500-0540/10-3-F/Jarnac/Miranda/-/
Comet Uxtunorruiya. I studied how I could
possibly have missed this one. I went to its
discovery position, or near it, then saw it today.
The comet is bright (-9) with 3' tail. The
reason must be that I ~~skipped~~ skipped over the area
during the mornings I was observing. I could
not possibly have missed the comet. - it was bright -
even if it were 2m fainter I would have seen it.
Also CN3e TV Gw (14.6 again. CV3 5^mE.

12757SE. Sunday, March 24/1700-2300 int/7-Fm/
Jarnac / ~~the~~ Capella, Pollux, Miranda, Esther,
Minerva / SS2: ^{8 prom.} CN3e TV Gw (13.3. CN3h.
Closed back wall over glasses. Lenses okay
but frames need replacing.

12758S. Mon 25/1700-1808/10-3-F/Jarnac/Echo
Pollux / - / SS2: ~~5 prominences~~ 6, 4/

12759E2. 2230-2330/3F/Jarnac/Miranda/-/CN3e TV Gw (13.3

12760S. Tues. 26/0820-0850/3-F/Jarnac/CAPELLA, POLLUX/
- / SS2: 8 prominences. 8, 6.

Comet
Prominences!

MST

- 12761E2. Tuesday, March 26/2245-2330/3-F/Jarnae/
-/The Beagle/Gibbous Moon, bright cirrus.
- 12762S. Wednesday, March 27/1100-1200/3-F/Jarnae/
Wendee, The Beagle/Echo/S. walk. SS2: 7,67
- 12763S. Thursday March 28/0830 to 0845/3-F/Jarnae/
Mira/-/SS2 6,74 just before leaving for
Albuquerque.
- 12764E2. 2000 to 2200/3-2-F/^{M+N home}Jarnae/Cupid/Mark,
Wendee/Jupiter, Saturn, Moon. home + on
golf course.
- 12765S. Friday, March 29/7-F/morning/Mark + Nanette's
house/Cupid/Summer/SS2: 5,69.
- 12766E2. 1930-2100/7-3-F/M+N's house/Cupid/Mark,
Wendee/Comet Ikeya-Zhang. Jupiter + Saturn.
- 12767S. Saturday, March 30/0840-0855/7-F/M+N/Cupid/
Summer, Nanette, Wendee/SS2: 6,78.
- 12768E2. 192 1830-1908/10-F/on way home/Wendee/
beautiful, strong green flash.
- 12769E3. 1940-2208/10-F/Jarnae/Miranda/-/Wendee/CNB

084-02

1 hour W. CN3e TV Crw C14.6.

12770S. Sunday, March 31/afternoon/3-10-F/Jarmac/
Echo/-/SS2 5,85.

12771E2. 1900-2130/10-F/Jarmac/Miranda/-/CN3
1^h W. CN3e TV Crw C14.6.

12772S. Monday, April 1/1700-1815/10³-F/Echo/-/SS2:
5,99.

12773E2. 1900-2200 int/3-F/Jarmac.

12774S. Tuesday, April 2/1800-1830/3-F/Jarmac/
Echo/-/SS2: 10,68.

12775AN2. 1900-0405/3-F/Jarmac/Ophelia 2, Cupid/-Dawn,
Wendel Dawn + I worked on focusing Ophelia 2,
+ got idea for Star Trails. ~~CN3 30m W.~~
We saw Messier 81 with naked eye.

12776S. Wed, April 3/6:15-6:30pm/3-F/Jarmac/Echo/-/
SS2 8,117.

12777E2. 1900-0000 int/10-F/Jarmac/CN3h./Min, Esth.

12778S. Thursday, 4/8:30-8:45/3-F/Jarmac/Echo?/-/SS2: 830

12779E2. 19-23:30/10-F/Jarmac/-/Minerva, Esther/CN3h.

NST

- 12780S. Friday, April 5/1830 to 1845/~~10~~³F/Jarnac/
Echo/-/SS2 7, 25. Lt Clouds over Sun.
- 12781E2. 2000-0000/3-F/Jarnac/Eather, Minerva/
-/CN3h.
- 12782S. Saturday, Apr. 6/1830-1850/10-F/Jarnac/
Echo/-/SS2: 7, 35.
- 12783E2. 2230-2300/3-F/Jarnac/Minerva/-/CN3e
TV on C14.6.
- 12784S. Sunday, April 7/1800-1830/10-F/Jarnac/Echo/
Wendee/SS2 8, 104.
- 12785E2. 2000 to 0000/10-F/Jarnac/E Minerva, Eather/
-/CN3h. CN3e TV on C14.8.
- 12786S. Monday April 8/1800-1830/10-F/Jarnac/
Echo/-/SS2 8, 99.
- 12787E2. 1930-0000/10³-F/Jarnac/Minerva, Eather,
Pegasus/-Beagle, Wendee/CN3h. CN3e TV on C14.6.
- 12788S. Tuesday, April 9/1730-1830/~~10~~3-F/Jarnac/Echo/-/
SS2: 10, 89.

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12789E2. April 9/2200-2315/10-3-F/Jamaica Pegasus/-/
CN3e TV Cw (13.3).


12790S. ~~Tues~~-Wednesday, April 10/1230-1400/3-F/Jamaica
Miri/Wendee, The Beagle/SS2: 10³, 104.

12791M2. 0230-0530/10-F/Jamaica/Miranda,
Pegasus/-/CN3e TV Cw (14.6, CN3 2^h20^mE.
Bright Comet Ikeya-Zhang in NE sky.

12792S. Thursday, April 11/1330-1350/3-F/Jamaica/
Echo/-/SS2: 12, 107.

12793EM Friday, April 12/2000-0100/10-F/Jamaica
Minerva, Esther, ^{Obadiach} Miranda/Tom Glinas
Wendee/CN3e TV Cw (13.8 14.6. CN3h.
Setting up of Tom's new 1K CCD on Obadiach.
~~CN3e~~

12794M2. (before 793.) 0130 to 0530/10-F/Jamaica/
- ~~Planet~~ Miranda/-/CN3 3^h05^mE.

12795S. Sat April 13/~~1300-1500~~ 1000-1100/3-F/
Jamaica/Pollux, Capella/SS2: 9, ¹³⁰6 prominences.
including  Wendee, Tom Glinas.

12796EAS2. 1400-1430/7-F/Stavizora/Tom, other
6^h or 1 prominence.

MST

12797EM3. 2000-0100/10-F/Jarnac/Esther,
Minerva, Miranda/CN3h. Test on
Esther with Tom's new CCD. CN3eTVcr14b

*127985. Sunday, April 14/0900-1100/3-F/inside
Jarnac/Tom Glinas, Wendee/CN3J/
SOHO LASCO C3 Coronagraph in
space/Tom independently discovered
a comet moving through lower left
of image. I noted the presence of a
faint tail. Comet brightened through
the 25 images. Congratulations Tom.

12799S2. 13-1450/10-3-F/Jarnac/Pollux, Mira?
Capella/Tom, Wendee/SS2: 7,40?

12800EB ~~2800~~ 1915 to 0130/3-F/Jarnac/
Tom, Dean, Wendee/Ophelia, Esther,
Minerva, Miranda/CN3h. Focus
tests again on Ophelia 2. Om. Cen
CN3eTVcr14.8

12801 ~~12801~~ ~~14~~ ~~14~~ Tuesday, April 16/1930 to 0550/3-F/
Jarnac/Miranda, Obadiah/Tom/
Comet Ikeya-Zhang. CN3 25" E.

12802S. Mon 15/0940-10/3-F/3/Pollux, Capella/Tom/SS2: 7,56,6 pr.

*12803AN ATues 16/17/1930-0550/3-F/5/Ophelia, Mira/
Dean, Wendee/Focus Oph 2 through perfection,
but out the other side. CN3eTVcr13.3:

04-02

CN3.45^m E. Omega Cen, Cen A. It really looked as though we were going to finish the focus this night. But...

12804EM. Wed. 17/18/2000 to 0110/3-F/Jarnac/-/
Miranda, Minerva, Esther/CN3h. CN3e TVGw
(14.8).

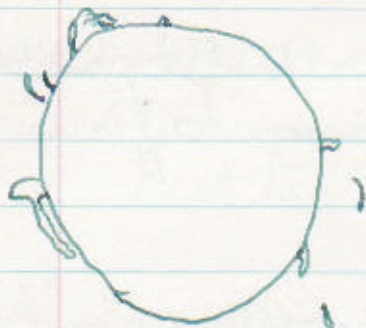
12805S. Thurs, Apr 18/19/1430-1530/10-F/Jarnac/Miria/-/
CATSS2: 7,52.

12806SER. 1715-0030/10-F/Jarnac, then Turnegue Verde School, then Jarnac again / Fifth grade Star party people, Marilyn Selwyn, Sharon Plaisted, then Dean, Scott + others at Starizona pad / -CN3e TVGw (14.8). CN3h. with Esther and Minerva. M42 with one of the Skyworks scopes. Nice clear, calm night.

12807M3 0330 to 0500/10-F/Jarnac/Miranda /
CN3 1^h E. Clear, calm morning.

12808SE. April 19/20/1400-2330/7-F, mildly breezy /
Sabino Canyon / Telescopes for Teletton
John Kalas: 130^{mm} Starfire.
Dean - 6" refractor.

MST



Dean's Scope: 10 prominences.

The total forecast for today was winds gusting to 40 mph.

George Barker 8" LX 10

SS2: 6, 74.

They were wrong! Light to moderate breezes were all we got.

John Kalas' scope 6, 104.

George & David's telescope 64 prominences

All together, there were about 50 scopes. A good time was had by all. The Moon, Mercury, Mars, Jupiter, Saturn, and M42 were among the objects viewed. I am very proud of Wendee for the work that was done and the success in raising funds for MDA. Combined with Tim's Four + Dean's donations, our total is approaching \$2000.

12809M2. 0000-0030 / 7-F / Jarnac / Miranda / CN3e TV Gr (14.6).

12810S. Saturday April 20 / 1430-1600 / 10-F / Jarnac / Wendee / Capella, Pollux / -SS2: 9, 81, 6 prom.

→ Flare?

(date uncertain of these #s. not season, but numbers)

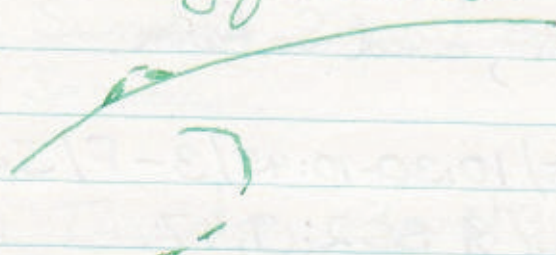
12811E2. 1945-0000 / 7-10-F / Hilton hotel /

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Obadiah, Miranda, Mintaka, Pegasus / MDA evening. CN3h with Minerva and Esther / at hotel, view of Mercury, Venus, Mars, Jupiter, & Saturn, then at Jarnac Mars, Jupiter, Saturn, & Leo, M42, M81, M13, M51. CN3e TVGw (14.6).

12812M. 0400-0510 / 10-9-F / Jarnac / Obadiah, Miranda / -1 CN3 30m E.

12813S Sunday, April 21 / 1200 to 1430 / 3-F / Jarnac / Capella and Pollux / -1 SS 2:5, 60. 11 prominences plus 1 long filament.



*12814FA/2. 1830-0550 / 3-10-F / Jarnac / Miranda, Esther, Minerva, Obadiah, Pegasus / Wendea, Michael Magee, Dean Koenig, Ken Grauer, Valerie Goff, plus the cast and orchestra of Phantom of the Opera. / Mercury, Venus, Mars, Jupiter, Saturn, Om. Cen, M42, M13, Moon, Comet Ikeya-Zhang at ~4m. The main crowd was here from H. 2300 to 0130am. Very enjoyable night. CN3h, interrupted by clouds. CN3e TVGw (13.3) * CN3 1h 5m E.

*AAUSO submitted to this date.

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12815S. Monday, April 22/1200-1300/10-F, Very warm,
Jarnac / Capella, Pollux / Betsy Weston from
MDA / SS2 5, 50 + 1 prominence.

12816E2. 2200-2230/3-F/Jarnac/~~3-F/Jarnac~~/
Observatory.

12817SE Tues April 23/24/1900-2100/3-F/
Jarnac / Echo, then Obadiah, Cupid /
SS2 with Summer. # 1, 2. just at sunset.
Green flash? Later, Summer, Nanette,
Matthew + Wendee looked at Mercury,
Venus, Jupiter, and Saturn.

12818S. Wed Apr 24/25/10:30-10:45/3-F/Jarnac/
Echo? / Summer / # SS2: 9, 47.

12819S. Thurs April 25/26/1700-1715/Echo / Summer /
SS2 5, 25.

EM2
*12820A# 1900 to 0800/3-F/Jarnac/Ophelia 2,
Miranda; Cupid / Dean, Wendee /
Attempt to focus At Ophelia 2 more
successful this time despite full Moon +
some clouds. ~~EM2~~

12821EP3 Fri 26/27/1900-1910/7-F-windy / Swira, Vesta / Wendee /
Moonrise. comae after 1282

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12822S. ~~Friday~~ ^{26/} Saturday, April 27/28/1050-1130/3-F/Jarnac/
Pollux, Capella. SS2.5, 32? 20 beautiful
prominence.

12823S2. 1400-1430/3-F/Sturizona/6"rr, 4"rr/
SS2: beautiful prominence still.

12824S. Saturday, April 27/28/1050-1110/10-F/
Jarnac/Capella, Pollux/Marilyn Unruh,
Wendee/SS2: 10, 46 + ~20 prominences
including yesterday's big one, still active.

12825E Sunday, April 28/29/2200-2300/10-F/
Jarnac.

12826EM Tuesday, April 30/2000-0300/10³-F/
Jarnac/Miranda, Minerva, Esther,
Ophelia, Cupid/Wendee, Dean, Donna/
-EN3F 2 pics w/Ophelia 2. CV3h but
stopped for clouds. Dean, Donna,
Wendee + The Beagle placed pipe +
cord from office to dome, installed
pipe junction box at dome, then pipe +
cord from dome into observatory.

12827S. Wed ~~April~~ May 1/ 12-F/Jarnac/
Pollux/SS2:

MST

12828E2 Wednesday, May 1/1900-2115/1-F | Jarnac | - | Dean |
filling in trench + completing pipe attachment
to Jarnac Observatory.

12829SEM Thursday, May 2/3/1815 to 0130/10-3-10-F |
Jarnac | Wendie | Echo, Ophelia 2, Cupid,
Minerva, Esther, Miranda. SS2: 8, 45.
CN3e TV Cw C14.8
CN3 30m W.
CN3h 90 pics.
CN3F 2 pics.

12830E Friday, May 3/4/1900-1915/7-F | ~~Jarnac~~
↳ Flandrau/TAAA, Michael Terenzoni + others

12831E2 2140-2230/7-F | Flandrau/TAAA, Michael
Magee, Dean + Vicky Kerkelam, winner of the
Bart + Priscilla Bok award, others |
6" reflector | Jupiter.

12832E13 2300-0000-0/10-F | Jarnac | Pegasus | - |
CN3e TV Cw C14.6.

12833S Saturday, May 4/5/1115-1130/10-F | Jarnac | - |
Echo | SS2: 13, 114.

12834MR 0115-0145/10-F | Jarnac | Pegasus | - | CN3e TV
Cw C14.6 ♂ Sco 1.8 walk with Beagle.

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128355. Sunday, May 5/6/1465-1510/3-F but windy / Echo /
- / SS2 12, 58. Wind made count difficult.

12836E2A 2000 to 0100/10-F / Jarnac / ~~Est~~ Esther, Minerva,
Obadiah / Wendee, Edwin + Steve over phone /
CN3e TVCw (14.6, CN3h, CN3 1405^m W).

128375. Monday, May 6/7/1400-1420/3-F / Jarnac /
Echo / Wendee / SS2: 11, 90. 1 group naked eye.

12838S2 1530-1620/3-F / Jarnac / Capella / Wendee /
SS-2: 9 prominences including



#12839AN2 1900 to 0440/10-F / Jarnac / Ophelia - Cupid,
Obadiah, Esther, Minerva, Miranda, Pegasus /
Wendee, Stuart Goldman, Sky & Telescope
Arizona Tour / Mercury, Venus, Mars, Jupiter,
Saturn (Mars, Venus, Saturn in close
conjunction) and Comet Ikeya-Zhang.
M81, M82, 65, 66, 51... A very interesting
evening. ~~After~~ During this time, Scott
Tucker aligned Ophelia on the North.
He said it would have been faster but

MST

he was enjoying looking at Cupid's images. Then after everyone left we cleaned up. Wendee did a beautiful job tonight.

CN3e: TVCr 14.6.

CN3F: Alignment of Ophelia 2 on pole.

CN3h: 90 pics

CN3 3^h E. Cat. obj. NGC 7177.

7177: Mag 11.2

plus

22 00.6 +17 44

12840S. Tuesday May 7/ 1300-1315/ 10-3-7-F/ Jarnae/ Mira /SS2! 9,54 (I think.)

*12841EM2. 1900 to 0100/ 10-F/ Jarnae/ Ophelia and Cupid, ^{Cordelia} Miranda/ Wendee, Carolyn / CN3F, 20 pics; CN3h, 90 pics; CN3e TVCr 14.8: Prep of Saturn, Venus, Mars ^{plus planet in conjunction}

12842S. Wed May 8/9/ 1350-1500/ 10-F but windy/ Echo/ Wendee, Carolyn /SS2 8,55.

12843ER 1930-0130/ 10-F/ Jarnae/ Cupid - Ophelia, Esther, Minerva, Miranda, Obadiah / -Wendee, Carolyn, the Wynne / CN3e TVCr 14.8, CN3F 8 pics w/ Obadiah, 20 w/ Ophelia, CN3h 90, 145 each w/ Esther + Minerva). Very flustering session with Ophelia, out of alignment & out of balance, but I managed

05-02

to repair both problems on the fly. Despite this, it was an enjoyable session. Jeff's good humor + fun made this a very special session, along with Carolyn + Wendee's good flow of humour.

12844S. Thursday, May 9/10/3-F/Jarnac/Echo/Wendee,
Carolyn | 1300-1330/SS2: ~~6,59~~ 9,54.

12845ER. 1930-0030/10-F/Jarnac/Obadiah, Cupid -
Ophelia, Miranda, Esther, Minerva | -Wendee +
Carolyn | CN3e TV Crw (14,8, CN3A 45 pics
with Esther, 45 with Minerva, CN3F 6 pics with
Obadiah, 16 with Esther, ~~etc~~ plus pics of
Mars + Venus with Obadiah refractor, in
same field.

- Venus and Mars are alright tonight -

12846S. Friday, May 10/11/1120-1135/3-F/Jarnac/Echo/-/
SS2: 6,59.

12847E2 2230-2300/10-F/Jarnac/Wendee/Pegasus/
CN3e TV Crw - (14.6).

12848S. Saturday, May 11/12/0900-0920/10-3-F/Jarnac/
Echo | -Wendee | SS2: 9,78. Reading grabbed
just before leaving to the airport to go to Montreal
via Albany.

MST

- 12849M2. 0130-0145/1-F/Wallach home, Vt/Cupid/Howie/distant buildings.
- *12850S. Sunday, May 12/13/1330-1400/0-F/Twin Lake Camp/Cupid/-/See sessions and, Log, observing log. Here was the site of my first meteor, my first dark sky sessions. I walked along the camp road behind Junior row - all that is left are some rusted hinges, some pipes and the remains of the sign, and a light pole. I walked past the place near the social hall where I saw my first meteor, and past the place where I saw my first view of unknown constellations in a sky I would learn to love & know so well.
- *12851S. Monday, May 13/14/1330-1405/0-F/19-I, Amherst-view, N White, & Loyalist Park/Cupid/. views through Cupid at observing sites I used to frequent when I was living in Kingston.
- 12852AS. Tuesday, May 14/15/11:15-12:00/0-F/Oso Observatory/Leo Enright/14", Cupid/Study of grease damage on mirror of 14". Nice visit to Leo's Oso Observatory.
- 12853S2. 1630-1715/0-F/Rolf Meier Observatory near Ottawa/17.5" sl, 6" sl, Cupid/Rolf, Linda, Matt/View of Rolf's telescopes.

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* 12854E3. 2/45-2205/1-F/Jarnac/Cupid/first view/
View through Cupid of trees across the lake,
telescope mounted on the balcony fence. It
was good to bring Cupid to Jarnac. The trees
are more filled now, so even though the sky
was very dark, there is less sky visible.
As Gerry said from his visit last week, going
to Jarnac was like going into a time warp.
There was virtually no change since the last
time we locked the gate. This time ~~we~~ I made
sure the gate was locked when I left, walked
down the darkened Jarnac road to the car,
and resumed my trip to Montreal.

* 12855SE/4. 0030-0130/1-F/4902, and 818/Cupid/1-/
first view ever through a telescope in
front of the place from which I first saw
the night sky. Then observed from the driveway
at 818 with Cupid.

12856SE. Wednesday, May 15/16/1800-0000/3-F/McGill,
later Summit with Mom, later still 818 with
Mom, later still summit with Carl/Cupid/
At McGill, CN-5 around Sun. At Summit much
later (2115-2130) Mother & I observed Venus, Mars,
Jupiter, and the Moon. Mother said the view of the
Moon ^{+ craters} was much clearer than she had ever seen.

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it before. Then, a look through Cupid at the Moon from 818. Later still, at the Summit (west) again, Carl Jorgensen & I looked at the Moon.

Alan Shaver, Dean of Science, at McGill, this afternoon studied the contents of this log and commented favorably on it & its use of ink instead of pencil. With ink you cannot fudge results, he said. A single crossout identifies a mistake. Later, Carl saw the two parts of this particular log.

12857EM Thursday, May 16/17/ 2030 to 0115/1-F/RASC/
-1/GA attendees at the observatory, Roy, ^{Bishop} Carl
Jorgensen, Constantine, Brent Archinal

*12858EM Friday, May 17/18/ 2200 to 0145/3-1-F/McGill,
RASC. 4" refractor that once belonged to DeLisle
Grimeau / Roy Bishop, Constantine, Brent, Carl/
a large crowd at the observatory for the
RASC General Assembly.

#12859SE Saturday, May 18/19/ 1700-2200/1-2-F/1) site
near where I saw Comet West in 1976 & observed in 80s;
2) Adirondack Science Camp Gate and vicinity /
CUPID/at Rest area near ASC, the Sun came
out and I managed to observe it. SS2: 9,54.
The seeing was ABSOLUTELY EXCEPTIONAL.

05-02

*12860S. Sunday, May 19/20/1330-1900/7-3-F/Rockland
Community College/Northeast astronomy forum,
Edwin + Imelda, many others from the conference/
Cupid, other telescopes but the some of the people
didn't want me to look through them.

SS2: 6, 45 at 13:55

SS2: 6, 52 at 19:00.

Seeing good though not as good as in ASC area.

Monday May 20/21

12861M~~1~~. 2130-2230/10-7-F/Jarnac/Miranda/
-1^a CN3e TV Gr (13,3).

12862S. Tuesday, May ^{21/22}20/21/1900-1945/3-F/Jarnac/
Echo/-1 SS2: 46, 23 + green flash at
sunset.

12863E2 2230-2330/10-F/Jarnac/Ether,
Munira, Miranda/CN3e TV Gr (13,3).
CN3h.

12864M3 0315-0430/10-F/Jarnac/Miranda/
-1 CN3 30^m E. Will the sky be too
bright to see the eclipse on Sunday
morning?

12865E Wednesday, May 22/2045-2130/3-F/Jar-
nac/Miranda/-1 CN3e TV Gr (13,3).

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12866S. Thursday, May 23/24/1800-1830/3-F/
Jarmac|-/SS2 8, 87.

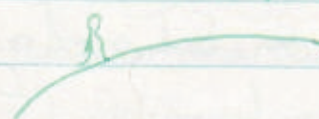
12867E2 M2. before 12866. May 22/23/0315-0500/
10-F/Jarmac/Miranda|-/CN3 1^h00^mE.

12868E2 Thu. 23/2045-2130/3-F/Jarmac. CU3h.
Miranda, Esther, Mneiva|-/CN3eTV6w-UB.3.

12869S Friday May 24/1815-1830/3-F/Jarmac/
Echo/Tom, Wendee/SS2: 9, 95.

*12870EM2 2300 to 0200/3-Fm/Jarmac|-/Wendee,
Tom, Colinas, Dean, Donna/ installation
of fiber optic cable below ground.
We wheeled it in, very slowly.

12871S. Saturday, May 25. /1000-1600 int/
3-F/Jarmac/Tom, Wendee, neighbors.
Discussion - very successful, about
their dusk-saving garage lights.
SS2 with Echo 9, 79. at 1330
with Pollux 10, 74 at 1500.


 4 prominences w. Capella

12872E2. 2000-2030/3-F/Scottsdale/Suzanne
Fraund/Venus and Jupiter getting
ever closer in the evening sky.

05-02

#1287313 0415 to 0715 / 3-F / Jarmac / Cupid, ~~Miranda~~ Miranda, Mira / Tom Glinae / Eclipse No. 59:
Penumbral Eclipse of the Moon.

When the alarm woke us up this morning, I saw the ~~to~~ sky in the east already brightening. Could I have missed the eclipse? No, time was right. I woke Tom and then set up Cupid + Miranda. At 4:35, with 90% of the Moon covered by the penumbra, I suspected a darkening at the S. edge. At 4:40, with 90% covered, there was absolutely no question about it. The shadow was faint ~~to~~ indistinct so it was most obvious in Miranda + its 31mm eyepiece. It was also great in Cupid + Cupid's finder. At maximum eclipse, about 50% of the Moon was covered. Even though it was ~ 1/2 hr to sunrise the eclipse was obvious.

Strange effect, probably not related to the eclipse: The sky adjacent to the eclipsed part of the Moon was darker than the sky on other parts of the Moon.  We could see the eclipse until the S. part set.

Then SS2: at 5:50 in the morning, 7, 61.

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12874EM Sunday, May 26/27/ 2000-0100/3-Fm/
Jarnac/Wendee/ & CN3h, Minerva & Esther.

12875S. Monday, May 27/28/ 1400-1500/7-F/Jarnac/
Echo/-/SS2 4, 36.

12876EM 2000 to 0100/3-Fm/Jarnac/Minerva, Esther,
Miranda/Bob Summerfield, Lisa, Wendee/
CN3e TVGw (14.8, CN3h 90+40 pics.

12877S. Tue May 28/29/1# 1300-1330/3-F/Jarnac/
Echo/Bob/SS2. & 7, 39.

12878EM2. 2000-0230/7-Fm/Jarnac/Minerva, Cupid and
Ophelia, Minerva, Esther/Bob + Lisa Summer-
field, Scott Tucker, Wendee/Realignment on
pole of Cupid - Ophelia, CN3 30 min. LW.
CN3e TVGw (14.8, ^(0400 UT) CN3h. 90+45 pics Bob's
Bizarro on Moon, + Bullock fire in Catalinae

12879S. TWed May 29/30/1800-1830/7-F/Jarnac/
Echo/-/SS2: 8, 36.

**12880EM2 2030 to 0200/10-7Fm/Jarnac/Miranda, Esther,
& Minerva/Wendee, Bob + Lisa/CN3e TVGw
2100 (0400 UT) 12.8. It was great to
see this star in outburst at last this
season. CN3 1^h W. CN3Ftg.

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12881B. Thursday May 30/31/1500-1600/3-F/Jarnac/
Echo, Bob's prominence Tebura telescope/
Bob/SS2: 5, 46 and several prominences.

12882 E2. 2100 to 2200/~~12~~3-F/David + Jerry's
home, Reddington Pass Road / David + Jerry,
Wendee, Bob + Lisa / view of stars, planets,
+ fire.

12883 E2 2300-0015/3-F/Jarnac/Pegasus/B-/
CN3e TV Cw ~~12~~ 12.8.

12884 E.M. Fri May 31/32/~~12~~3-F/A 2330-0145/
table / Bob Summerfield.

12885S. Saturday, June 1/2/1300-1510/3-F/Jarnac/
Mira, Capella, Echo / -1 SS2 4 prominences.
8, 50 with Mira; 8, 50 with Echo but windy.

* 12886 E.M. 1900 to 0300/10-7-F/Jarnac/Miranda,
Cupid, Pegasus, other telescopes / Wendee,
TAA + others / Telescopes for Tebthon.
Thank you party. Wonderful event.
Wendee was wonderful! Also CN3e
TV Cw with Pegasus 12.8. CN3e h
with Minerva + Esther. 180 images.

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12887^SEM. Sunday, June 2¹³ / 1600 to 0200 / 10-3-7-F /
Jarnac / Echo, Miranda, Miriwa, Esther,
Cupid-Ophelia / Wendea and Carolyn /
CN3e TVGw ~~12.8~~. CN3F ~~180~~ ~~pics~~ 26
pics, CN3h 180pics. Wonderful but
breezy night. also Echo, SS 2.

12888^S. Monday, June 3 / 1300-1500 / 10-F / Jarnac /
Mira, Capella / Wendea, Carolyn, and
Laura Wright / SS 2: several prominences.
5, 60?

12889^SEM. 2000 to 0200 / 3-F / Jarnac / Carolyn,
Wendea, and Mark Diko / Miranda,
Miriwa + Esther, Cupid and Ophelia and
Obadiah / CN3e TVGw 13.0. CN3F
26 pics. CN3h 180pics. Some clouds;
excellent session.

12890^S. Tues June 4 / 3-F / Jarnac. SS2 with
Mira 8, 66?

12891^SEM2. 1900 to 0100 / 10-F / Jarnac / Wendea,
Carolyn, and Rajiv Gupta / Miranda
Cupid-Ophelia, Miriwa + Esther, Obadiah /
CN3e TVGw ~~13.0~~. CN3F 26pics, CN3h
180pics.

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128925. Wednesday, June 5/1145-1130/10-F/Jarnac/
Mira 1-1552 7,64.

*12893AN2. 1915 to 0445/10-F/MDA Camp, Heber, Az,
drive home, then Jarnac/Cupid, 6" refractor
by Astrophysics, Miranda, and Rajiv's
Astrophysics/Wendee, Dean & Donna,
Rajiv Gupta, MDA campers + staff at
Camp Shadow Pine. Jupiter, Venus,
M51, M57, M13. A boy named Steve wanted
to view α Hydrae so I showed it to him.

We had a very nice discussion.

At 11:15 on the way back we stopped on
87 to see the dark sky. Then at 2:00 am
Dean saw a bright meteor; I saw the
blue flash.

At home, I joined Rajiv Gupta
who was observing with Miranda. He
said that Miranda is a landmark
telescope. CN3 $0^h 50^m E$.

Rajiv took 2 p several pieces of the
 α Sco region as part of a test of observing
sites throughout Arizona.

This was a very nice night. The trip
with Wendee, Dean, & Donna was
great fun. And it was a further honor to
work with Rajiv tonight.

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12894E Thursday, June 6 / 2345-0000 / 2-F / Jarnac /
- / Wendee, Joan-ellen + Philip / cloude,
a few stars.

12895EM Friday, June 7 / 2030 - 0130 19-F / Jarnac /
Pegasus, Minerva, Esther / Wendee / CN3e
TV Corvi 14.4 with Pegasus. Moving of
Pegasus to the main building. / CN3h.

12896EM Saturday, June 8 / 1950 to 0200 / 10-F /
Jarnac / Miranda, Cupid - Esther Ophelia,
Esther, Minerva ^{Oberon} / Wendee, Joan-ellen,
Philip, and Steve Ashe over the phone +
Clyde-Rae Ashe over the phone / CN3e
TV Corvi 14.5. CN3h 180 pictures.
CN3F 10 pictures.

12897S Sunday, June 9 / 2:15 - 2:40 / 10-F / Jarnac /
Ecto / Philip / SS 2: ~~2~~ 3 6, 33.

*12898AN2 1730 to 0415 / 10-F / Jarnac, Mount Biglow /
Dean, Michael, Don McCarthy + Astronomy
Camp / This session began at Jarnac
with extreme doubts that we'd make it
to the Mountain top. The road was still
closed from the fire. As we waited for
Dean, at the corner of Tangua Verde and

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CN3 catalogue: NGC 772 Aries Round gal.
 7664 o: 7723 x.
 270 Cetus

Catalina Highway, we saw a faint naked eye sunspot. Then, at the Pima County Sheriff's Department's mobile command centre at the base of Mt. Lemmon, the first guy said he couldn't let us up. But he called for a deputy, and the deputy turned things around. He even recognized S-L 9. Once up there I gave my presentation. Then we used the 61 to look at M51 and M63. M51 was spectacular, a true "Starry Night" mélange of spiral arms, H-2 regions and maybe some globular clusters. Then home where I met the Starrying group Larry + Scott at the Pool, then comet hunted for the rest of the night. So: EA Telescopes: Cupid, Bart Bok's Quarters, 61" + 10" at Bigelow. 2 14" Celestrons, Cupid, + Miranda here. A little CN3 with the two Quarters + the 10 at Bigelow (5') and with Miranda here. (3') Very dark night at Jarnac. Total CN3 3h 05^m Nord E.

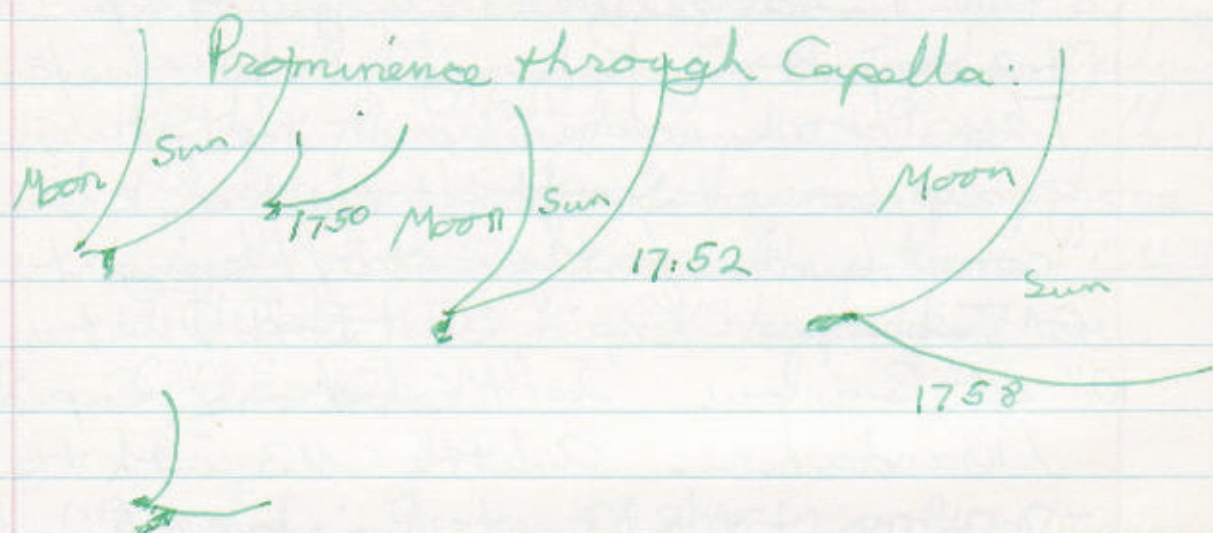
12899 SEM. Monday, June 10/16 30-0130/10f / Jarnac / Cupid, Mira, Capella, Echo, Suzanne's telescope / Ross + Suzanne family, Magee family, our neighbors + friends / Eclipse No. 60: Partial Eclipse of the Sun. At maximum, the sky was an azure blue, and the vast area south of us was softly lit as if

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by special effect lighting. Caught (sort of) first, & last contact, & the latter minutes before sunset. I didn't realize that so many of the hard lighting features around totality would be visible during this 73% eclipse.

SS2: with Cupid 4, 20.

With Capella 2 prominences, several more small ones appeared during the eclipse.



This is without a doubt the most interesting partial eclipse I've seen.

GA: Green flash at sunset.

CV3h 175r pictures using Minerva and Esther.

129005. Two Jura 11/11-11:15/10-F/Barnac/
Mira 1-1 SS2: 5, 23.

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12901^SE2 1900 to 0000 / 10-3-F / Jarnae / Minerva,
Eather / Wendea, Decm, Donna, Steven /
CN3eh pice. some difficulty due to clouds.

12902MP3 0255-0305 / 2-F / Jarnae / closing obs.

12903E Wed June 12 / 2015 to 2300 / 10-F / Jarnae /
Minerva, Eather, / - / CN3h. ~170 pice.

12904M2 0235-0415 / 10-F / Jarnae / Minerva / - /
CN3 1^h 25^m E. Catalogue NGC 524, Prices
M74. NGC 772 448 Psc elongated galaxy.

*12905E Thursday, June 13 / 1700-1730 / 10-F / Jarnae /
Echo, SOHO / SS2: 3, 15. CN3J. First session
specifically joining Echo + SOHO C2 + C3.

12906E2. 2030 to ~~0000~~²¹ / 10-F / Jarnae / Minerva, Eather,
Miranda / ^{Wendea, Scott T.} CN3e TV Gr (14.6. CN3h ~175 pice.

12907M3. 0000 to 0035 / 10-F / Jarnae / Scott Tucker / 6" st / pr /
Discussion of Zeta Ophiuchi faint, large neb.

12908M4 0230 to 0415 / 10-F / Jarnae / Obadiiah, Miranda /
Scott Tucker / CN3 1^h 05^m E.

12909E Fri, June 14 / 1915-2200 / 8-F / ^{Soleng Tom} ~~Jarnae~~ Elementary

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School/darry from Starizona + group, ~20 children, Wendee / Moon, Jupiter, Venus, Naming stars for MDA T4T. M57.

12910S. Saturday June 15/0900-1300 int / 10-3-F / Jarnae / Cupid / Wendee / SS2 3, 20. Pictures of me in 42" wide by 36" deep pit. CN3T.

12911EM2 1915 to 0100 / 8-9 (10 at Jarnae) - F / Barn on the Old Spanish Trail, then Jarnae / 7" re, from Dean, re from Celebration of Dick's, etc. / Dick Buchroeder, Elizabeth B., Dean, Al others / - Star party. ζ 2816 + 19, Mu Cep, Moon. installation of M&C Maxon Pegasus.

12912M3 0255-0420 / 10-F / Jarnae / Pegasus / - / CN3 50" E. Difficulty finding setup stars in east this hour + time of year.

12913E. Sunday, June 16 / 17 / 2030-0000 / 10-F / Jarnae / Esther, Minerva / Wendee / CN3h.

12914M2 0345-0410 / 10-F / Jarnae / Miranda / - / CN3 15" E

12915E Mon 17 / 2045 to 0000 / 7-Fm / Jarnae / Minerva, Esther / CN3e with CCD TV Grw (Minerva) 15.5: CN3h.

12916MP2 0400-0405 / Dawn, 10-F / Jarnae / closing obs.

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129175. Tuesday, June 18 / Anniversary of the 1962 Canadian election. ⁰⁸⁰⁰⁻¹⁰³⁰ ~~12-15~~ East / 10-F / Jarnac / Mira / Wendee, Dean + Donna, Steven Koenig / Pouring of concrete for Dome + telescope. SS2: 3, 10. 2 big ones.

12918 E2 2030 to 0000 / 10-7-Fm / Jarnac / Esther, Minerva / - / CV3h. Esther did well; Minerva only a few pics.

12919 M3 make-up session since I slept through yesterday morning; see 12916 MP2. 0235-0430 / 10-F. BEAUTIFUL MORNING. / Jarnac / Miranda / - / CV3 1^h 10^m East. Catalogue object NGC 246, The Cetus Ring. Nebulosity and Stars.

129208. Wednesday, June 19 / 12-15 Int / 3-F / Jarnac / ~~Mira~~ Echo / SS2: 4, 10. 2 big spots.

12921 E2 2100 to 0000 / 10-7-Fm / Jarnac / ~~Esther~~ Minerva, Esther / - / Wendee / CV3h. Both scopes did very well.

12922 M3 0240-0500 / 10+-F / Jarnac / Miranda / - / Wendee / CV3 1^h East. ^{NGC 898 Very elongated, faint} Catalogue object. Very distinct shadow at 0515 5° above west horizon.

- 1) Clemence Pot
- 2) 120 Carey

12923 AN Thursday, June 20 / 2030-0500 / 10-F / Jarnac / Obadiah, Miranda / Dean / 1) Swim under the Moon and Venus. Then Dean and I focused

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Obadiah + aligned the ~~max~~ lens of the refractor,
or at least tried to. A diagnostic challenge.

Then, a walk to my old observing site at 120
William Carey Street. Finally, with Miranda
CN3 1^h E.

12924E. Friday, June 21/2000 - ~~00~~ 2300 / 10-7 Fm / Jarmac /
Miranda, Minerva, Esther / - / CN3 h. TV Gov. USA.

12925M2 0350 to 0415 / 10-F, dawn / Jarmac / Miranda /
- / CN3 0^h 10^m E.

12926S. Saturday, June 22 / 1800-1815 - / 10-3-F / Jarmac /
Echo / - / SS2 3, 16.

12927EM2. 2000 to 0200 / ^{7-Fm} 10-F / Jarmac / ^{+120 Carey} Miranda /
CN3 h. / Barry Simon / A pleasant
evening with a New Orleans friend; after
that ended, Beagle went for a short walk
on Carey Street.

12928M2 before 12925M3 / Fri June 21 / 0030-0130 /
7-Fm / 120 Carey St / - / - / South walk.

12929S Sunday, June 23 / 17-1715 / 3-F / Jarmac /
Echo / - / SS2 3, 14.

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12930S. Monday, June 24/25/1900-1915/3-F/Jarmae/Echo/1
SS2: 3, 18.

12931E2 should be before 12930S. / Sunday, June 23/24/
2100 to 0200/3-Fm/Jarmae/OBADIAH/Dean,
Wendee / Focusing on Obadiah plus work on
her lens. O ring seems loose in lens cell.

12932S. Tuesday, June 25/26/0900-1030/3-F/Jarmae/
Mira/Wendee/Observatory work. also
SS2: 5, 35 with Echo.

12933S. Wednesday, June 26/27/1300-1330/3-F/
Jarmae/Mira/- Eddie, from C+W Environ-
mental, + Patrick, + Virgil / SS2 3, 8. one
large spot.

12934E2. 2000-2020/3-F/Jarmae/Wendee/1-1
Saying hello to Venus in the west.

12935S. Thursday, June 27/28/1800-1820/3-F/Jarmae/
~~E~~ SS2 4, 10. CN3J SoHO C2 & C3.

12936E2. 2000 to 2300/3-F/Jarmae/Wendee/Miranda/
Friday June 28/29.
CN3 1400m W.


12937EM↑ 2130 to 0300/10-F/Jarmae/Miranda, Pegasus,
Obadiah/Dean/Wendee/successful new computer
installed for Esther AND encoders repaired Miranda/Pegasus.

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129385. Saturday, June 29/30/1900-1915/3-F/Jarnac/
Echo/Wendee/SS 2: 4, 20. CN3J. C2 only.

129399. Sunday, June 30/31/1730-1800/10-3-F/Jarnac/
~~Echo~~ ^{Mira} / -/SS 2 5, 36.

*129405E2 1920-0000/3-F/Jarnac/Miranda/Wendee/
Beautiful sunset through haze.

 Very sharply
defined borders to Sun.

CN3 45^m West. Wendee saw slow ^{Scorpius} meteor in
Summer of 2002.

129415. Monday, July 1, 2002/1500-1800/3-F/Jarnac/
Echo/Wendee/SS 2 5, 25. CN3J C2 + C3.

*12942E2. 2245-2330/3-F/Jarnac/Mintaka/-/
listening to Beethoven's Moonlight Sonata
(cf. October 27, 1971: "It was an experience of
peaceful magnificence, especially when, in
the middle of it, a fog enveloped almost
everything but me and some stars. University
Hall seemed to hang from the sky.")
Tonight there was no fog but there was a layer
of cloud + haze through which I could
use Mintaka to view some stars. A slow moving
meteor came NE-SW through Scorpius.
Wendee saw a similar one last night;

06-02.

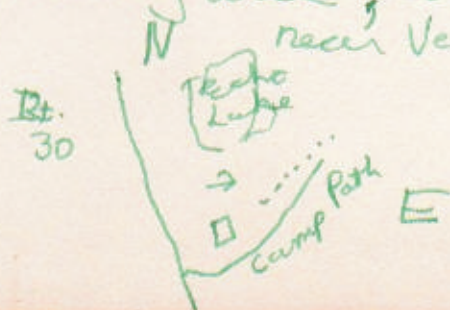
(3 of 12940SE2) and here was faint + short, + went across stem of Scorpis from NE to SW. These 2 meteors were similar to the meteor I saw at Twin Lake Camp (cf. session B) almost overhead, slow moving, July 4, probably 1956. (cf. 12850S.) Either α Draconids (?) or sporadic meteors happening to all be faint + slow. Even through the cloud and haze, the Milky Way in Scorpis was very nice. A good session with which to end Log 3.

Continued on in Log 20.

Further thoughts on the 3 meteors.

The two slow ones could not have been α Draconids. However, the July 4 one probably was ^(+ probably it was 1958) and my memory of the meteor near Vega is likely correct.

Session B: See Log 1.



□ Social Hall
→ meaning I was facing East NE.