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03-04

13864AN2 Monday, the 9th of March 1930 to 0600 / 3-F / Jarnac /
Minerva, Miranda, Clyde / - / CN3 3^h 15^m W (for 15m at
start) and E (for 3 hours), CN3e TVOw C17.3.

13865S. Tuesday, March 16, 2004 / 1500 to 1600 / 3-F / Jarnac /
Wendee, Joanie & Philip. SS2:

13866E2 2100 to 2230 / 3-F / Jarnac / Obadiah / Wendee,
Joanie & Philip / Venus, Mars, Jupiter, Saturn, M42, M51.
CN3e TVOw C17.3, also M51 with Clyde.

13867S Wednesday, March 17 / 1030 to 1230 / 3-F / Jarnac /
Clyde, Apollo, Cupid, Hyperion / Wendee, Joanie &
Phillip / Inscriptions on these telescope
by Joanie. SS2 3, 31.

13868AN2 1930 to 0530 with nap break / 3-0-F / Jarnac /
Minerva, Clyde, Miranda / - / CN3e TVOw C17.3.
CN3 3^h C15^m W with Minerva, 3^h with Miranda
again!

13869E Thursday, Mar 18. / 1930-2330 int / 3-2-F / Jarnac /
Clyde / - / CN3e TVOw C17.3

13870SEM Fri Mar 19 / 1500 to 0100 very intermittent / 3-F /
Jarnac / Clyde, Hyperion, Minerva / - / CN3 10^m W /
Minerva. Also attempt to move Min to E-side failed.
CN3e TVOw C14.8. CN35 eKrentz Search.

13871S Sat Mar 20 / 1145-1200 / 3-f / Jarnac / Pima C. College /
Wendee, John Kelas, others / telescopes / SS2 3, ~20.

13872E2 Sat March 20 / 1930 to 0000 / 3-F / Jarnac / Hyperion,
Clyde / Tom, Wendee / CN3e TV Or - C14.8.
CN35 Kreutz, Search.

13873E Sun March 21 / 1800 to 0000 int, also in daytime / 3-F, windy
Hyperion, Clyde / Tom, Wendee / CN3e TV Or - C14.8
Cassy Underwood visited. We studied Mars, Venus,
Jupiter, Saturn, & Cern, M42 and M65-66.
Clyde also photographed M65-66.

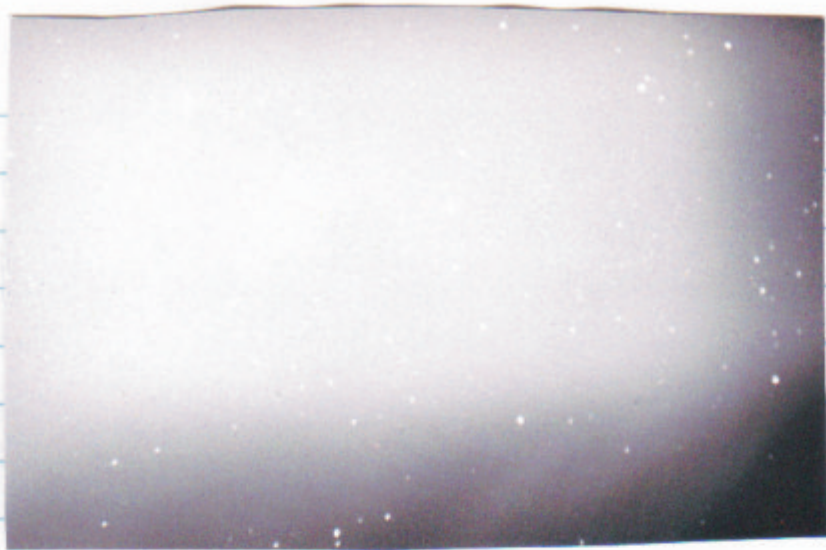
13874M2 before 13873. / 0400 - 0500 / 3-F and very windy /
Pegasus / - / CN3 0h 45m East.

13875S Monday, March 22 / 0900 - 1000 / 3-F, breezy /
Mintaka / - Tom / SS2 3, ~20. Seeing poor.

*13876S2. 1500 - 1630 / 2-F / Jarnac / Vail School District
officials / Observatory Tour, Ecto / Trying to
establish rationale for possibility of an observatory
for the district, to be placed very close to the
old Jarnac observatory site. SS2 3, ~20.

*13877E3 1900 - 0000 / 10-F but windy / Minerva, Clyde,
Hyperion / Tom, Wendee / at first showed
some people in Green Valley Mercury & Venus.
Then CN3; Kreutz search. Then CN3 10m W
with Minerva. Found bright "barium release?"
comet in west moving sidereal rate - quite a
surprise. Comet did dissipate after a few
minutes.

03-04



13878^S Tuesday, March 23, our anniversary / 1000 to 1040 / 3-F / Jarnac / Echo / Wendee, Liz Kalan / SS2 4, 32~. Hedgehog cactus with beautiful anniversary flower.



*13878^S 1800 to 2230 / 7-3-F / ASC Hayden Library / Star-
izona, Larry, Crystal - others, Addy + Denise
Honors grads / - Sky 2: Star party. Venus, Mars,
Jupiter, Saturn, M42, Mizar. Ocean Orocket
body seen at 2030 at 58° in NE sky. I found it!
Eureka!

13880^S. Wednesday, March 24 / 1330 to 1400 / ~~10~~ 3-F /
Jarnac / SS2.

13881^{E2}. 2100 to 2300 / 7-3-F / Jarnac / Minerva /
The Moon and Venus, in the same field as of
Minerva. See photographs overleaf.

13881E2
Cone'd.



Picture with
Canon
Zoom.



Picture through Minerva, afocal
projection, low power eyepiece.

13882E Thursday, March 25 / 1515-0000 / 7-F / Jarnac, ^{KUAT}
Starizona, Westward Look, Jarnac / 1) SS2. ^{1/4}
2) KUAT interview. 3) Starizona. 4) 8" refl. Venus,
Jupiter, M42, open cluster. 5) Home -
CN3e TVGW C17.3.

03-04

*13883SE. Friday, March 26/27/1700 to 0000/7-F but
a breeze / 5 Walmarts: Kohl's + Speedway,
Stone + Wetmore, Foothills Mall, Valencia +
I-19, and (just us), Subarita + I-19.
SS2. Moon, Venus, Jupiter, Saturn. T4T
Telescopes for Teletthon. Then at home CN3e
TV Gw U7.B. Echo was my telescope.

*13884SAN. Saturday, March 27; Daddy's birthday,
1430-0545/7-10-F/Jarmac, UVA Mall, then
Jarmac for SS2, then UVA Mall, then Jarmac/
Apollo was my telescope. Had to return home to
get recorder for Let's Talk Stars, so I used
Cordelia for SS2. Then I returned to the UVA
Mall and we set up for our telescopes for
teletthon event. I set up Apollo and Scott
Cruzman set up his table next to mine since he
had purchased my telescope for the evening.
Apollo was great! It's finder is perfectly
arranged so I can stay seated and keep
objects in view. I found Venus in daylight!
We roused over \$5,000 tonight.

Sky 2: Telescopes for Teletthon. ~ 30 scopes.

SS2: 3, ~25, 5 prominences

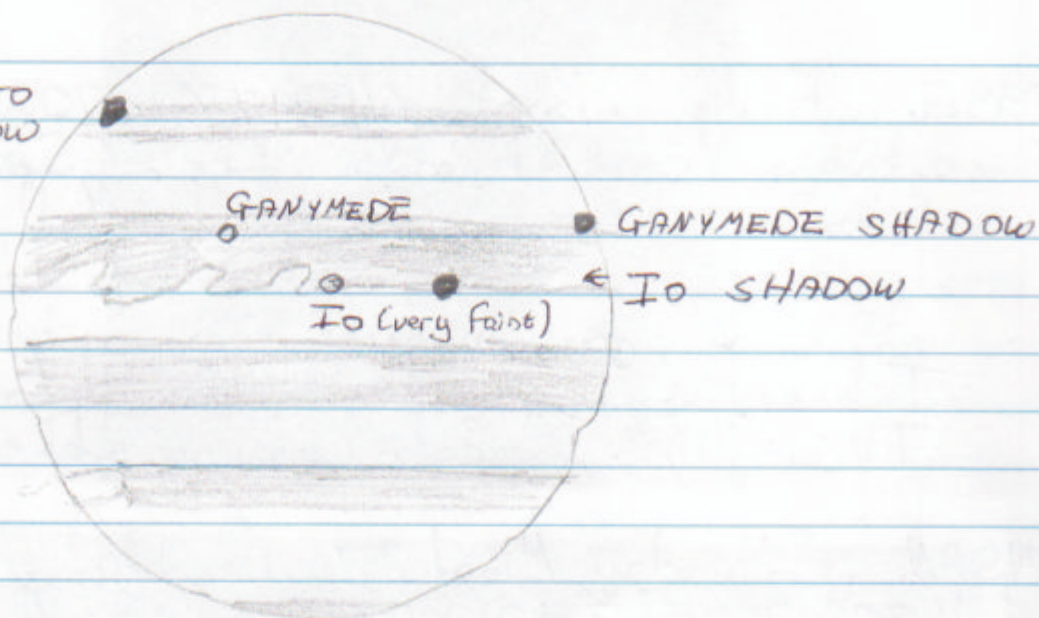
My objects: Venus, Moon, Jupiter.

Then at home we set up Obadiah and Apollo
and looked at Jupiter. At 1am there were 3
lovely ~~trav~~ shadows on the disk AT THE SAME
TIME, as seen in the sketch overleaf.

CN3K11-CM. CN3 3h F. CN3e TV Gw ~~C473~~. 19.0

Congratulations Wendee on T4T. I love you.

*13884 CALLISTO
SAN SHADOW
concd.



CN3c Catalog: 6781 11.6 10.2 Agl P/Urting
6760 9.1 6.3 Agl GC
- Little Gem -

13885 SE Sunday, March 28, 11500 to 2230 / 10-F / Jarnac /
National Geographic filming / Wendee, others /
CN3e TV Grw (17.1)

13886 SE Monday, March 29 / 1730-0000 / 10-F / Jarnac /
- Wendee, 2 reporters from the Tucson Citizen /
CN3e TV Grw (17.3) CN3J Kreefy search
SS2: Cordelia, 5 prominences, 3, 7. / Clyde, Obadiak.
Mars, Venus, Saturn, Jupiter, 142.

13887 M2 0400-0515 / 10-F / Jarnac / Clyde, Miranda /
- CN3 1h 00m E. CN3k11 - CV1.

13888 Tuesday, March 30 / 0915-0930 / 10-F / Jarnac /
Mintaka 1-1 SS2: 3, 30.

13889 S2. ~~1600~~ 1520-1600 / 7-F / ASU / Mira / My class
From Shakespeare to Space - all 5 students plus
others / -1 SS2 3, 31.

04-04

13890E Wed March 31/2200-2300/2-Fin/Jarmac/Mary
clouds after storm. Earlier, Dean repaired the lock
of the dome.

*13891S. Thursday, April 1/0615-0730/2-F/Jarmac/
Echo, Clyde/ Several photographs taken of Clyde.
Found one & printed & framed it. Later I
presented it to Patsy in Las Cruces. I presented
a second, unframed, print of Clyde to the
family via Bill (Annette's husband). Back
during the session this morning I observed
the Sun: SS2 2, 7. through clouds.

13892S2. 1800-1900/1-F/Albuquerque "Star Looker"
or "Telescope Star Looker" as named by Summer/
Summer, Matthew, Nanette, Wendee.

13893S Friday, April 2/0800-0830/1-F/Albuquerque/
"Star Looker" / Summer, Matthew, Nanette &
Wendee/ Summer found highly magnified
raindrops, focused them, and was excited.

13894S2, 1200-1330/2-3-F/Albuquerque - all sessions at
Nanette's home/ Star-Looker / Summer/ viewing
outdoors at mountains and sky, then walk
to Sand Mountain.

13895S. Saturday, April 3/1030-1230/0-F/Albuquerque.
Summer found some raindrops & "Sand Mtn"
with his new telescope. With telescope nearby
later, I read near the end of Moby-Dick.

"Foolish toy! 'Ahab said as he trampled on his quadrant. 'babies' plaything of haughty Admirals, but what after all canst thou do, but tell the poor, pitiful point, where thou thyself happenest to be on this wide planet and the hand that holds thee; no! not one jot more! Thou canst not tell, where one drop of water or one great grain of sand will be to-morrow noon, and yet with thy impotence, thou insultest the sun! Science! Curse thee, thou vain toy; and curse be all things that past man's eyes aloft to that heavens whose live vividness but searches him, as these old eyes are even now scorched with thy light, O sun! ... Curse thee, thou quadrant" dashing it to the deck, "no longer will I guide my earthly way by thee ..."

13896E2 2300-2330 / 3-F / Jarnac at last / Clyde / - / CN3e TV Gw C14.8.

13897S. Sunday, April 4 / 1200 to 1700 int / 10-3-f / Jarnac / Donald Walbrant, and later Jacqueline Garget, + Susan from Cambridge University Press, + Wendell Obadiah, Muntaka / SS2 3:28.

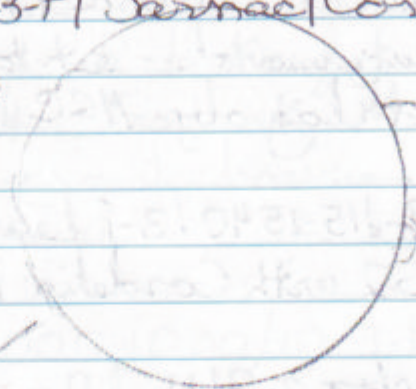
13898E2 2300-2355 / 3-F / Jarnac / Clyde / - / CN3e TV Gw C14.8. After 13899E3.

13899E3 Monday, Sun 04/04/04 / 3-f / Jarnac - Storyline / Deam 7'8" / Moon clearly thru window. Clear window!

04-04

139005. Monday, April 5/1200-1220/3-F/Palma College
pool/Wendal Mira/SS2 2, ~18.

1390152. 1700-1730/3-F/Jarnac/Cordelia/-/SS2
5 prominences, 3 biggest ones.



13902E2. 1800-2100 very intermittent/Rabbi Louchheim's
house/Wendee, Rabbi Louchheim/Mira, his
telescope/teasing + tightening. Venus. Full Moon
clouded over. Seder.

13903M3. 0000-0100 12-f/Jarnac/Clyde/The Beagle/
Walk. Didn't clear for CN3e. Best placement
nevertheless.

13904S. Wed Tuesday, April 6/1815-1830/3-F/Jarome ASU
Twin Palms Hotel/Mira/Tim Hunter/SS2 2, 11.

13905E2. 2030-2200/3-F/JASU/Tim/nice sky so
close to downtown Phoenix.

13906E. Wed April 7/1345-1400/3-F/ASU/Mira/Tim/SS2 1, 13.

13907E2. 2000-2200/12-f/Jarnac/Clyde/-/CN3EJ - Krewy + three
clouds. I tried tonight's set but clouds
prevented most of it.

13908S. Thursday April 8 / 1500-1600 / 2-3-F / Jarnac / Cordelia / Wendee / Walk + SS2: 1, 9, 7 prominences.

*13909E2. 1920-2200 / 10-F / Jarnac / Pegasus, Clyde / - / CN3J, Kreutz search - set too low. CN3 1^h00^m. CN3c Catalog obj NGC 1746 • L273.

13910S. Fri April 9. / 15-1540 / 3-F / Jarnac / Cordelia / Wendee / walk / GS2 with Cordelia 1, 6, 7 prominences.

13911E2. 1940-2000 / ~~#~~ 2-F / U of Amalt / 8" reflector belonging to Carter Smith, 11 yrs. old / Dave Hecht, Ch. 9, Carter Smith / Carter showed me Jupiter, Saturn, and Venus all at high power. Very impressive. The Beagle was there too.

13912E3. 2100-2145 / 1-F / Starizona / another Orion telescope, 8" / . Cloudy though, occasional stars.

13913E. Saturday April 10 / 1830-1930 int / 3-F / near Joanie's house / Wendee, Joanie + Philip / Beautiful Sun pillar and lenticular clouds.

13914E. Monday, April 12 / 2300-2330 / 10-F / Jarnac / Clyde / - / CN3c TVGw (17, 8).

+13915E. Tuesday, April 13 / 2300-0035 int / 7-F / ASU / Mira / Jupiter 2340 .. ● . I described this in class next day and to a big 6th grade presentation.

04-04

13916S. Wed Apr 14 / 1345-1400 / 7-F / Jarnac / Mira / Addy /
SS2, 2, 8.

13917EM2 1930-0130 / 10-F / Jarnac / Hyperion, Apollo,
Clyde, Obadiah / Bill Kaufman, reporter /
Venus, Mo, Jupiter, Saturn, M42, M51.
Actually M51 was much clearer through Apollo
than through Obadiah.

13918S. Thurs Apr 15 / 1000-1030 / 10-3-F / Jarnac /
Obadiah / - / Moon.

13919S2. 1230-1245 / 10-F, breezy / Jarnac / Cordelia / - /
SS2 2, 4, ~~2~~ 4 prominences.

13920E3 + 1930 to 2300 / 10-F / Jarnac / Clyde / - /
CN3K11-CN1 area 71. CN3J attempt.
On this night, in area 65 I picked up what
appeared to be slow-moving object. The images
clearly look real. But on Saturday and
Sunday no one - including Tom on Hyperion -
could confirm this 16.5 object. It remains a
mystery. CN3e TVGw (see below!)

13921M4. 0145-0530 / 10-F / Jarnac / Clyde, Miranda /
- / CN3e TVGw (17.9).

Fri April 16

13922SEM 1800-0130 / 2-3-F / Jarnac / Many Scopes! /
TAAA T4T Star Party with Obadiah, Apollo, and others.
Very nice session despite clouds. Earlier,
Cordelia: SS2 2 prom. 2, ~10.

139235# Saturday, April 17/1700-1715/3-F/Jarnac/
Cordelia/-/SS2 3 prom. 2, ~20.

13924EP2 2200-2210/7-F/windy Tucson/Wendee,
Bob Ross, Jerry Weinberg, Larry + Jackie/
Pollux and Castor.

13925EB 2300-2350/3-F(windy)/~~10-F~~/Jarnac/
Clyde/-/CN3e TV Gw C14.8.

*13926SEM Sunday, Apr 18/1815-0200/10-F/Jarnac/
Cordelia, Apollo, Miranda, Obadiah (Hyperion)
Venus, Mars, Jupiter, . . . Saturn, Sirius,
M44, M51, M4, M42. Carter + Mae Smith,
Dave Hecht + Brian were there. Tom used
Hyperion to do negative confirmation of our
object. SS2 earlier 3 prom, 3, 36.
CN3k11 Pollux-Castor. 2004HO20 Discovered! (Tom)

13927M2 0345-0400/2-F/Jarnac/Apollo/-/
Stars through clouds. Closing up.

13928S Mon, April 19. Happy Birthday Joyce!/
1100-1120/10-F/Jarnac/Miral-1/SS2 2, 21.

13929E2 1900-0000 1/10-F/Jarnac/Hyperion,
Clyde/-/CN3k11-CN1 Area 65 (part)/
CN3e TV Gw 19.0

*13930M3 0400-0530/10-F/Jarnac/Hyperion, Clyde,
Miranda, Miral/Karen Mendenhall and 2 fr
her family, Thom + beta bet. CNP1-Lyrids,
26 meteors. CN3 1^h E. Ind. disc E/2002T7
Linear. in bright dawn. CN3k11-CN1.

04-04

13931S. Tuesday, April 20/1150-1205/3-F/Twin Palms Lat,
ASU/Mira-1/SS2 1, ~13. 1 of the spots is
quite large.

13932E2 2300 to 0000/10-F/Jarmac/Clyde/-/
CN3e TV Gw. H.O.B. Even though I was tired
I enjoyed looking at the field of Clyde's star,
with Clyde.

13933G Wednesday, April 21/0930 to 0950/10-F/
Jarmac/Echol-1/SS2 1, ~11. Big spot with
structure.

13934E2. 1900-2330/7-F/ASU West / 3 telescopes
from Starizona, 1 additional one / Ramsey Eric
Ramsey, Addy, Dean, AND a Jordanian
student named Maha who was at my colloquium
and found all of Song of Honour on the Web
and gave it to me this evening. I was pleased.
Venus, Jupiter, Saturn, Mars. Very
successful star party.

13935S Thursday, April 22/1120-1135/7-F but windy/
ASU/Mira/SS2 1, ~11. 1 big spot.

*13936AN2. 1905-0520/10-F/Jarmac/Hyperion, Clyde,
Miranda, Munira / Karen Mendenhall, Jagui
& Ayla, Thom & Toila Park / CNP-1-Lyrical. 26
meters by group. Wendee and I were the only ones
to see 15th mag meteor.
CN1; CN3R11, CN3 One hour E. 5th mag.
CN3e TV Gw. 18.5

*13937S. Friday, April 23/1400 - 1500/~~10~~ 7-F/
Shaarei Shalom Cemetery / Wendee / Our
choice of plots for Eternity. We chose
34+35 in Row 26. Mira / SS2 1, 7.

13938S2. 1850-1910/10-F / Jarnac / Cordelia / - /
SS2 1, 6 + 1 huge prominence.

13939E3 2300 to 2330/10-F / Jarnac / Clyde / - / CN3e
TV Cw. 18.5

13940S Saturday, April 24/0815-0845 / Miranda and
Mintaka / - Wendee / SS2 2, 27. Very clear and
seeing superb. Wendee and I found a better
place for the Telrad on Miranda, atop Constan-
tine's finder.

*13941S2 1030-1530/10-F / Kitt Peak the National Observatory /
several telescopes, 16" Meade the biggest /
The Sun. VENUS! Wendee found Venus
almost overhead today! Then I found
Venus too.

13942EM3 2900 to 0130/10-F / after moonset / ~~10~~ Jarnac /
Wendee, Peter, and Tom / Hyperion, Merope,
Miranda, Apollo, CN3 with Merope 15mm,
CN3 HF - Hyperion testing.
CN3e TV Cw. 18.5

04-04

13943M4 0345-0540/10-F/Jarnac/Minerva, CLYDE, HYPERION,
MIRANDA, Apollo/Peter/CN3 45^m E.
Saw Comet Linear again, AND Comet Bradfield!

13944EM Sunday Apr 25/A00 to 0130/3-F/Jarnac/
Clyde, Hyperion, Miranda, Minerva, Apollo/Tom,
Peter/CN3K II: CN3HG Hyperion Telescope
painting model.
Minerva. M9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21,
22, 23, 24, 25, 26, 27, 28, 29 ! in about 10
minutes.

13945E Mon 26/2030-0900 12-1-F/Jarnac/Wanda,
Tom, Peter. Waiting for clearing. Tom's scope
isn't tracking well, finding anything right or
anything. CN3e TV Gw with Clyde (14.8).

13946E^S Tues 27/1700 to 2330/7-F/Hayden lawn, and
Twin Palms at ASU/ - Mira, 6" refr. or 14.8"
Celestrons/Peter, Wanda, Dean, Mark Jacobs,
Barbara Barrett, others/Honors College
Observing session, Venus in broad daylight -
Wanda spotted it, as did Addy. Jupiter with
I₀ getting closer and (through Mira) dis-
appearing. Saturn, M3.

13947E Wed 28/1400-1415-F/ASU Twin Palms Hotel/
Mira/Peter/SS 2 2,8.

13948E^R 2345-0030/7-Fm/Jarnac/~~Obs~~ Clyde/
-18CN3e TV Gw (14.8).

13949M3 0300 to 0500/10-3-F/Jarnac/Miranda/
Peter/CN3 0h 30m E. Cat obj
Comets Bradfield and Linear, both barely
naked eye

M31

Bradfield

RAO 0
Dec +0
LINEAR

13950SE Thursday, April 29, 1961. 1800-1930/7-F/
Jarnac/Wendee, Gurt, Pat Balfour/Echo/
SS2 0,0 with finder. Sun setting, no flash.
Hyperion, Clyde studies.

13951E2 2300-2330/7-Fm/Jarnac/Clyde/-/
CN3e TV Grw 18.5

13952S Friday, April 30/1730-1745/10-F/Jarnac/
Echo/-/SS2 1,14.

13953E2 1900 to 0000/7-Fm/Jarnac/The Beagle
Wendee/CN3e TV Grw 14.8. Hyperion best night.

*13954SAN. Sat May 11/7-Fm-10-F/Jarnac/Cordelia,
Hyperion, Minerva, Miranda, Adial, Apollo,
Pallux, Carter, Mira, Capella, Clyde,
Echo/Scott + Addy Rhodes, family + friends,
Giddy from ASU, Elizabeth, Jason, Linda,
Justice, and Stef from ASU class. Steve
Peterson, Wendee, the Beagle/. # SS2.
2 prominence clusters, 1 cluster +
1 prominence. 1,26. Venus, Jupiter

05-04

and Saturn in daylight. At night, Venus, Jupiter, Saturn, M51, NGC 4038, 4039, M83, 81, 82, 84, 86, 87. NGC 6946 [photographic]. Comet Bradfield (vis + ph). Comet linear. Sky 2. CMP-1. Eta AQUARIUS 6 meteors. I saw two nice Eta Aquarids, one going up + straight west through Lyra ~ 3 am, another in SW that Wendell + I both saw ~ 4:15 am in the few mins. of dark sky, through and W. of Milky Way.

139555. Sunday May 2 / 1600-1615 / 10-F / Jarnac / Cordelia / SS 2 1, 2, 3. 1 prominence.

13956 EP2 1900-1910 / 7-Fm / Jarnac / -Wendell in scope: W notes dark plains on Moon look blue in day light.

13957 EP3 2230-2310 / 7-Fm / Jarnac / Hyperion, Clyde - 1 CN 3e. TVCW C14.8.

139585 Monday May 3 / 0600-0625 / 10-F / Jarnac / Echo 1 / SS 2 1, 12. Tom closed J3 after night's work.

*139595 Tuesday May 4 / 1130-1245 / 7-F / New York City, Asia Society Roof / Parade Photographer / CN 5. Somehow he wanted a picture of me looking toward the Sun doing my Sun vicinity check. Before testimony to President's Commission on Implementation of US Space Policy.



This is a picture taken of me doing my CN 5 Sun vicinity reading, from a rooftop in New York.

13960E2. 2015-2 200int / landing in Dallas, then taking off from Dallas 1-1-1 Sunset at altitude - Sun got very oval as it was setting. Brief green flash.

13961E3 2300-0000 / 7-Fm / Jarnac / Hyperion, Clyde (-) CN3e TV Crw - C14.8. Photos of Hyperion in moonlight with film camera.

13962S. May 5 / 1800-1830 / 10-F / Jarnac / Echo / SS2, 2, 7. Measured distance betw. filter wheel + back plate of Hyperion at $8 \frac{5}{16}$ ".

13963E2 2045-0000 / int / 7-Fm / Jarnac / Hyperion, Clyde, Minerva / - / CN3e TV Crw - C14.8. CN3 5^mW.

13964S May 6, Thursday / 0940-1000 / 10-F / Jarnac / Echo / - / SS2 1, 3.

13965S2 2000 to 2015^{EDT} / 3-F / Tampa, Florida / Wendee / Sunset as we landed. (See 13960E2)

13966EM May 8, Saturday / 2300-0030 / 3-4-F / Davis Island, Tampa Bay / Mozart, the 3 1/2 Tampa Quasar, Jupiter, Saturn, M13, - with Emilio Toro, Catherine, and others! I found M13 despite a limiting mag. of 2.5.
May 9, Sunday.

13967E 210-2300 int / 10-F-3 / Jarnac / Clyde, Miranda, Minerva / Dean Kofelton told me about Comet NEAT. So I observed it tonight with Wendee. CN3e TV Crw. 185 CN3 R11 Area 71 windy.

0.5-04

*139689 May 10, Monday / 1710-1830 / 3-F / Jarnac / Echo /
Nanette over phone, later picking up mail /
SS2 1, 3. Big group. In the mail was a
letter from Cathy Phillips that Norman
MacKenzie died March 1. Such sad news. I will
miss him.

139699 ~~9E~~: Tuesday, May 11 / 2100 to 2220 / 7-F / Universal
City / Lee Kravitz, Parade people / Jupiter, Regulus.

139709 Wed May 12 / 10:30-11:30 / 7-F / Universal City / - /
Sun, Moon. CN5 Sun Ven.

13971E2 2130-2200 ~ / 7-F / Universal City / Lee Kravitz,
Parade people / Jupiter, Saturn, Procyon, Regulus.

*13972E Thurs May 13 / 2100-2330 / 10-F / Jarnac / Clyde /
Wendee / CN3e TKw. (14.8. CN3h / Hyperion
Tom, Wendee + I discovered 2004 JN20. B3050-0803.

13973M2 ~~1230~~ 0100-0115 ~ / 10-F / Magnificent night /
the Beagle. Wendee asked me to go out to
check on him. I found the Beagle giggling
& snorting W. of J. So he was okay.
But on the way back to the house I saw a
very big - 1 meter, slow moving.

139749 Friday, May 14 / ~~1700-1715~~ 1600-1635 / 10-F 3-F /
Jarnac / Wendee, Leonard Wickburg / Mintaka /
SS2 3, 43.

13975E2 2000-0000 / 2-3-F / Jarnac / Miranda, Abdiel,

Apollo, Minerva, Mintaka - Wendee, Dean
Ketelson, Mary Ann Jacobson / Comet
NEAT, (Ketelson), Jupiter, Saturn, NGC 5128,
Omega Cen CN3e TVGw C14.8

13976S Sat May 15 / ~~700~~ - 1630 - 1645 / 10-F / Jarnac / Echo /
Wendee, Leonard W. / SS 2 4, 47.

* 13977AN 2 1930 - 0500 / 3-F / Jarnac / Clyde, Miranda, Hyp,
Minerva / Wendee, the Beagle /
CN3 15^m W, then 2^h 45^m E, for a
total of 3^h. CN3e TVGw - 18.5.

Comet NEAT (Ketelson), crossing near M44.

CMP-1 Tau Herculiads - 5 meteors during
night, 2 pretty bright.

CN3e 19^h 4^m NGC 6723, GC 7.3, 11' - NGC 6541 GC 6.6, 12'.
TX Psc Red Vat small but thick center then spreads
out quickly

13978S Sun
May 16 / 1430 - 1600 / 3-F / Jarnac, Wendee /
Obadiak, Echo / Wendee, Roy Tucker /
SS 2, 4, 41. Hazy + clouds. An examination
of how to convert Obadiak to CCD.

13979E 2 2000 to 2030 / 3-F / Jarnac / Clyde, Hyperion /
- / CN3e TVGw - 18.5.

13980S Monday May 17 / 0940 - 1000 / ~~10~~³-F / Jarnac / Echo /
The Beagle / SS 2 4, 31. Seeing not the best.

13981EM 2 2000 - 0030 / ~~10~~ f int / 3-F / Jarnac / Hyperion
Clyde, Miranda / Venus as a thin, thin
crescent. CN3e TVGw - 18.5.

05-04

13982E Tues May 18/2000 - 0000int / 10-3-F / Jarnac /
 CN3e TVGw & 185. CN3h Hyperion.
 CN3k11 - CN1 Area 71.

13983SE Wed 19/1900 - 0000 / 3-F / Jarnac and Veil -
 Acacia School / - TAA A members plus
 principals + teachers and students / several
 telescopes. Earlier, SS2 with Echo; later,
 TVGw with Clyde 185. CN3e. Hyperion's
 CCDadyjusted.

13984AN^s Thursday, 20/22 1900 to 0630 / 0 to 10-F /
 TEXAS STAR PARTY! All good things. ^{See picture}
 1) Mac Donald Obs. with towering clouds ^{new pages}
 2) A1 Set up Apollo and photographed her ^{over}
 with an other towering cloud, then quickly
 we disassembled it just in time for the storm.
 3) Quick view of Comet NEAT (Ketelsen) and
 then a 2nd storm.
 4) Walk through wet field
 5) From 4:45 to 6, we set up Apollo and Minerva
 and: CN3 1h5m.

13985S Friday, 21 May / 1400 to 1700 / 3-F / Texas Star Party /
 SS2: with a Coronado Star Fun Telescope, a few
 tiny prominences. The purpose of the later afternoon
 was to get a big wheel base for Apollo's mount.

* 13986AN2 2100 to 0630 / 10+-F / TSP / Minerva, Apollo, Cave 8"
 f/5, Yardscope, etc. / CN3 2h45m W, N, E. Beautiful
 views of galactic center GSSC through Apollo, NEAT
 W / Apollo & Yscope, Wilt & C. Tirion used Apollo!

13987S. Saturday, May 22, 2004. 1430-1510/10-F/TSP/
Photos and alterations of my new truck
for Apollo.

*13988AN2. 2130-0610 int/10+ F/TSP/Apollo, ^{Munrova} Munrova, pt,
many other scopes + people, Tim, Steve + Amelia
Goldberg/ CN3 4h 30m W, N, + E, +
Milky Way. Failure to find linear, low
in SW, but session was very good + sky was
the clearest I've seen ever at TSP.
Dark lanes in MW bulge very distinct.

13989E. Sunday, 23/2200-0000/3-F/Jarnac/
Munrova, Clyde / Wendy / CN3e TVGw-@ (14.8,
CN3, specific search for linear.

13990EMB Wednesday, 26 May 13-F, some clearing
after days of cloud. CN3e TVGw
Dean + Wendy + I did focus tests on
Clyde's new focuser. This session belongs
after 13993S2. Also, earlier, the
Tunions. Session was from 1930 to 0130.

13991S. Monday, 24 May 1500-1530/2-F/Jarnac/
Peter Ceravolo, and Debra, + Wendy.

13992S. Wednesday, 26 May 1200-1230/2-F/Jarnac/
Bob + Lisa Summerfield.

13993SE. ^{Two parts} 1500-2130/2-f/Jarnac / Tour with the Tunions
through J1 and J3. ~~Picture of~~ At night, return
to Jarnac and pics of Venus + Moon.

05-04

13994M4 0330-0410/10-f at last | Miranda | - | CN3
0h30m E.

13995S Thursday, May 27 | 1450-1505/10-f | Jarnac |
Echo | Wendee, Sue Lemmon | SS2 3, 31.

13996E2 210000000-00000000/7-fm | Jarnac | 7x50-
Genie Pearl binoculars & chair, 4DE, CN3e TVGw. ^{18.5}
Start of learning cycle for Clyde's focuser.

13997M2 ~~0335~~ 0335-0430/10+ -f | Jarnac | Miranda
Hyperion. Clyde. CN3 0h30m E Baade's Window.
Possible Comet near NGC 114. Conclusion of learning
cycle for Clyde's new micro-touch focuser.

13998S Friday, May 28 | 1900-1915/10-f | Jarnac |
Echo | - | SS2 2, ~10.

13999E2 2015 to 0000/10-f 7-fm | Jarnac | Clyde,
Hyperion, Genie-Pearl. | CN3k-11; CN3h.
CN3e - TVGw. ^{18.5} Wendee saw UO sat 12 SS 18
rocket body pass near Wendee's star at 20:47 MST.

*14000M3 0250 to 0500/10+ -f | Jarnac | Clyde,
Hyperion, Miranda. Comet was P/Howell.
CN3 Miranda, 3 Genie-Pearl. 30m E.
CN3h - Hyperion. CN3k11-CVI - Clyde (31)

Sat May 29

14001E 1915-2330/7-fm | Stu Waidenschilling's house,
Jarnac | Wendee, Stu & family | later at
Jarnac; Anna W.'s wedding, then
CN3h - Hyperion. Genie-Pearl binocs moved
to J3 & used there. Wendee & I moved them.
CN3e TVGw - Clyde 18.5

.14002M2 . 0245-0415/10-F - even the Zodiacal
light could be seen all the way to the
Milky Way in Sgr / Jarnac / - /
CN3d Miranda 60 min E.
CN3a Genie-Pearl. VSO-1 TGR CN3K11-CN1 Clyde
CN3bgh Hyperion. RGB 6.0 Area 31.

.14003S Sunday, May 30/10-F / Jarnac / Echol /
SS2 2, 15.

.14004E2 1930-0000 int / 10-F (7-F) / Jarnac /
CN3e TV Gw 18.5. see picture a few pages over -
LPO-1 Venus in ☾ Very thin crescent.

.14005M3 0245-0430/10-F / Jarnac / - /
CN3d Miranda, Ma } 1^h E.
CN3 Minerva
CN3K11-CN1 Area 31. CN3bgh Hyperion.

.14006S Monday, May 31/1000-1200/10-F / Jarnac /
Richard Dougal and Ed Finney, Wendee /
-1 SS2 2, 16.

.14007S2. 1400-1600/10-F / Jarnac / Richard Kowalski
and Roy Tucker / Sun.

.14008E3. 1900-2300 int / 7-Fm / Jarnac /
CN3bgh Hyperion. Genie-Pearl.
CN3e TV Gw 18.5.

.14009E Tuesday, June 1 / Maw's 86th birthday!
CN3bgh Hyperion. CN3e TV Gw. 18.5.

06-04

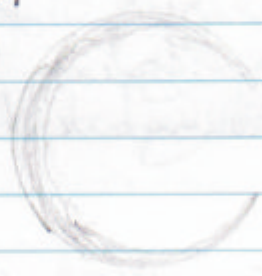
14009 Wednesday, June 2/10-F/Jarnac/Echo/-1
SS2 2, 15

14011E2 2200-2300/10-F/Jarnac/CN3bgh Hyperion
CN3e TVCw-18.5.

CN3bgh Hyperion. Polar alignment.

14012SE Thu June 3/1900-2130/10-F/Jarnac/Mintaka/
-1CA3 SS2 1, 7 Venus as a very

thin crescent. First I saw Venus thru
John Kalous's telescope, then I found
Venus with Cupid. Here is what it looked
like thru telescope just before sunset, I saw
some sunsets. SS2 1, 3. LPO-1 Venus.
Spots!



*14013E2 2300-0045/12-F/Jarnac/
CN3e TVCw-13.8 with Clyde. Outburst
seen despite nearly full Moon and clouds.

14014S Friday, June 4/0900-1000/"Foggy"-F/
Jarnac-Corona Observatory site, Jarnac, and
120 Carey/Wendie, Al Flores from Vail
School District/ Inspection of new observatory
site. f SS2 with Mintaka 1, 8.

14015S2 1700-1715/3-F/Jarnac/Cordelia/

14016E2 2120-2230/10-F/Jarnac/
CN3e - Clyde TVCw 13.5

14017E2. 0500-0600/10-F/Jarnac/
LPO-1 Apollo. The Moon. SS2 Echo 0,0.

14018E. Saturday, June 5/6/2200-2230 EST/3-F/
Westmount Lookout/-Wendee, Carol, Tim/
Examination of prime Transit site. Looks
good!

14019E Sunday, June 6/2130-2330/3-F/Old
Montreal/Tim + Carol, Carl, Wendee, Peter +
Dianne / Arcturus, Jupiter AND these
were seen over Eglise Bonsecours. This
church was being built in 1769, 3 transits
ago.

14020S Monday, June 7/~~1500~~ 1450-1545/3-F/Mt Royal/
Tim, Carol, Wendee / Sunny day, walk by the
Chalet + cross. Promising clear sky for the
transit tomorrow.

14021E2. 2215-2300/1-2-F/WEST MOUNT LOOKOUT/-/
Peter, Dianne / Why has it clouded over so
completely? Clear sky clock shows ~20%
clouds and weather picture shows
a small band of clouds already starting
to dissipate. We went to sleep confident
that by 4 the sky should be clear.

06-04

1402 MS2 Tuesday June 8, 2004/0400 to 0745/1-3-7-F/
WESTMOUNT LOOKOUT/Cupid, 5" reflector, cameras,
filters/Wendee, Tim + Carol, Peter + Dianne, Larry
others/TRANSIT OF VENUS. SS 2, 5, 6 + Venus.

SARAS-1: When we woke at 4:30 was appalled to see &
learn that it was still cloudy. We got our Ford
Minnivan and made an illegal left turn on @
Sherbrooke from Atwater, right into a police car.
Under a cloudy sky. The low point of the day.

But the police car ignored me! We picked up
Tim + Carol & headed to Westmount Lookout.

There were a few small breaks in the clouds. Then
we drove to the N. lookout to see a large
clearing forming to the N. We decided to head
back to the main lookout. Peter + Dianne
arrived - we all tried the N. one, then headed
permanently back a second time to Westmount
Lookout and set up.

The sky was clearing exponentially as the
sun rose. As the sun finally peaked through,
Venus was huggin' in front of it. We saw the
transit virtually uninterrupted until from ~5:20
to 7:20, about 2 hours. Cupid performed
beautifully with her 32mm eyepiece and high
power setting.

Larry arrived at about 6:30. He identified
the black drop effect as the Mach effect
which is similar to one he + Tim encounter often
in radiology. It was great to have this
particular group - Larry, Wendee, Peter, Tim,
Dianne, and Carol. Wendee was "blown away"
by the view of the transit through Cupid.

14022 MS2 ^{cont.} Black Drop

1)

- greyer



2) H-d view.



3)



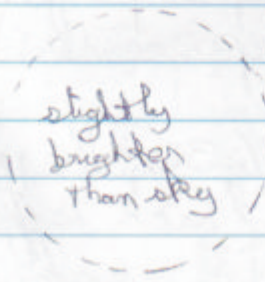
4)



halo

white line = first sign
of Venus' atmos-
phere.

5)



slightly
brighter
than sky

- even w. filter!

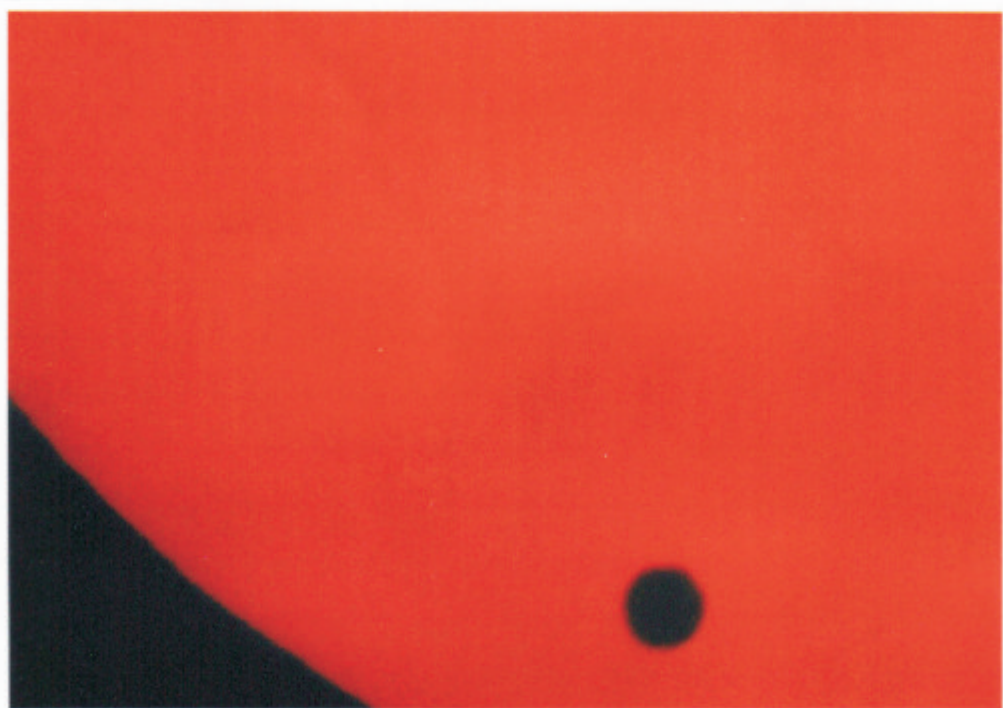
Ring of light effect, or Aureole
Black Venus brighter than back-
ground but seen through white
light filter. Means that Venus
here is almost as bright as \odot .
The aureole is sunlight refracted around
Venus by its upper atmosphere. It
is visible through a solar filter
also, some 19th century observers
reported seeing Venus silhouetted
against \odot inner corona

14022MS2 conc'd.

06-04

At about 6:30 Mom looked out with her glasses and saw absolutely nothing just above the trees except for a large round ball. Upon close observation, ~~found~~ ^{got} a small dot $\sim 1/3$ from the \odot 's center. "I looked ⁷ again 5 mins. later and confirmed that it was there." Mom was at her home.

Constantine couldn't make it because of traffic, but he did devise a projection system for his colleagues at work. Carl overslept, but he did set up his telescope at his home and observed it. As the Sun rose for him, it was so hazy that he could see Venus without a filter for a brief time.



14022 MS2.

Sunrise
just before
we see Venus,
Taken by
Wendee.



a few mins later, taken
by Peter's



Wendee
took this
picture
of the
group
after the
transit

14022MS2

06-04



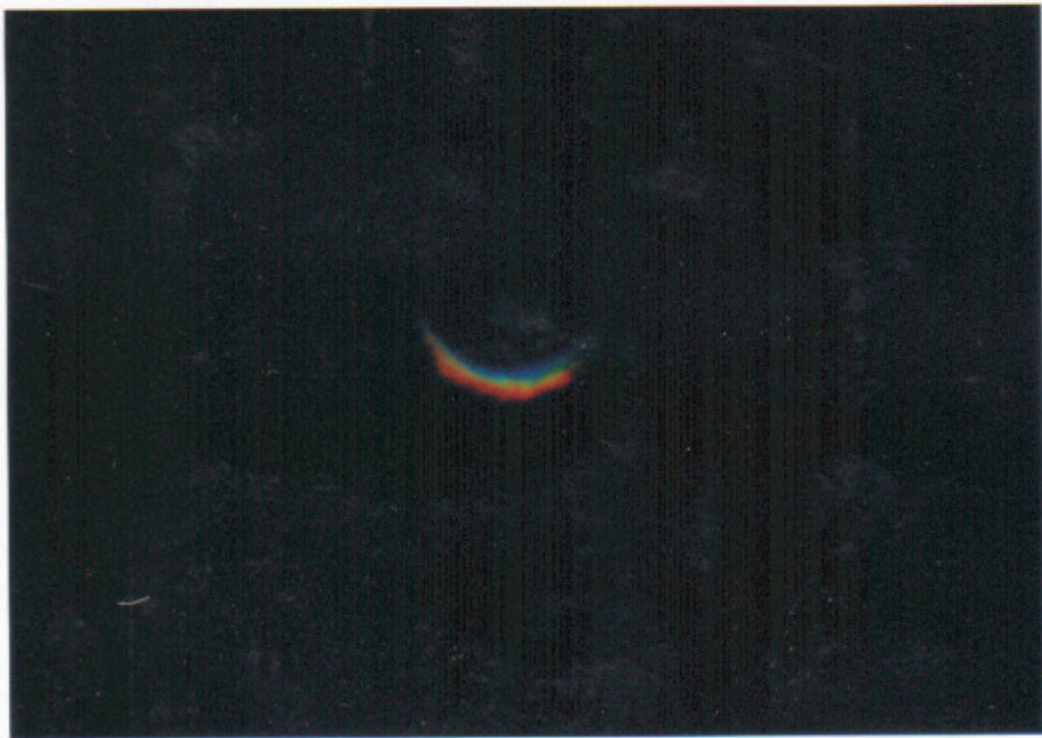
Tim
Wende
+
Cupid



After
transit



139847N.
Apollo
set up
with
growing
thunderstorm.



140047E
Venus.

06-04



13993
SE2.



140209.

14022MS2



06-04

14023S. Thursday, June 10/2020-2045/3-F/over Dallas/
Wendee, Tim, Carol/Sunset. See picture to left, ignore ^{lines}

14024EM2. 2315-0015/10-F/Jarnac/Genie-Pearl, Hyperion,
Clyde, CN3 bgh Hyperion. CN3e Clyde TV Grw 14.7.
Constellations in beautiful sky.

14025S. Fri. June 11/1700-1715/10-F/Jarnac/SS2-Echo 2, 10.

14026E2. 1930-2330/10-F/Mt Bigelow/Dean, Michael, Uwe Fink,
children and staff + visitors of UA Astronomy Camp.
I gave my Venus Transit - to - M51 Speak with
Starlight Nights + some opening.

Sky 2 - 61" with Jupiter. Excellent seeing = 9.
All 4 moons were circles. Exquisite detail around
belts + red spot.

M51 - the majestic swirls of the arms clearly
visible.

M87 possible jet ~ 2:00?

M16, too low. Campbell's hydrogen star.

14027M3 0020 to 0100/10-F/Jarnac/-/
CN3 bgh Hyperion. ~~10.0~~ _{19.8} GUB VSO-1 Genie-Pearl.

14028S. Saturday, June 12/1300-1530/10-F/Jarnac/-/
SS2 Echo 2, 9.

*14029AN2 1910-0500/10-3-F7-Fm/Jarnac/Dean, Wendee/
CN3 Pegasus 1h } - 3h 00m.
CN3d Miranda 2h } CN3e Clyde TV Grw
CN3R//Clyde CN3 bgh Hyperion 14.8
CN3e c+NGC 7814 10.6" 5.3' Peg EG BC near SE in square

14030S. ¹⁷⁵⁰ 1800-1815 / Sunday June 13 / 10-F / Jarmac / - /
SS2 Cordelia 2, 15' 8 prom.

14031E2 1900 1930-0000 / 10-F / Jarmac / - /
CN3 bgh Hyperion CN3k11-CN1 Clyde 14.8
CN3e TVGw Clyde

14032M3 0245-0430 / 10-F / Jarmac / - /
CN3d Miranda 1^h E.

14033S Monday, June 14 / 1900-1915 / 10-F / - /
SS2 Cordelia

14034E2 1955-0000 / 10-F / Jarmac /
CN3k11-CN1 Clyde CN3 bgh Hyperion
CN3e Clyde TVGw. 14.9

14035M3 0245-0435 / 10-F / Jarmac /
CN3d Miranda 1^h E. CN3 bgh Hyperion.

14036S Tuesday, June 15 / ¹⁷⁰⁰⁻¹⁷¹⁵ 1900-1915 / 10-F / Jarmac /
SS2 Cordelia 3, 37.

14037E2. 2030 to 2355 / 10-F / Jarmac / Wendee /
CN3 Pegasus 15m CN3k11 Clyde CN3e TVGw 17.9
Wendee used Miranda, Minerva, and Apollo
to find selected objects Antares, Altair, Vega.

14038M3 0245-0500 / 10-F / Jarmac / - /
Miror Minerva / - / CN3 Minerva 25 minutes.

06-04

14039S Wednesday June 16/1730-1750/10-F/-1
SS2 Cordelia

14040E2. 1930-2355/10-F/Jarmac
CN3 Pegasus Wendee worked with Capella
this evening to find Vega and Altair.
CN3k11-CN1 Clyde CN3e Clyde TVGw
CN3 bgh Hyperion. 18.0

14041M. 0350-0415/10-F/Jarmac-1
CN3 Minerva 15 min. E.

14042S. Thursday, June the 17th / 7-7.15pm/10-F/Jarmac
1-1 SS2 Cordelia 4, 32, 7 prominences.

14043E2 2030 to 2355/10-F/Jarmac
CN3 Minerva 35 min W, N. CN3e Clyde TVGw
CN3k11-CN1 Clyde CN3 bgh Hyperion. 18.0
Wendee used Obadiak to find
Antares, M57, M8, M17, M22, Jupiter

*14044S Friday, June the 18th 0700-0720/10-F/Jarmac/
SS2 Mintaka 4, 56.
Closed Clyde after successful all night CN3k11.
This is a really good way of getting a good night's
sleep (at least) and letting Clyde do his thing.

*14045AN2. 2000-0550/10-F/Jarmac CN3e Clyde TVGw. 18.1
CN3k11-CN1 Clyde. CN3 bgh Hyperion. ~~CN3e bgh Min.~~
CN3e 7184 Aquarius VEG brightest in group 10.8m, 58'
Sky 2: Or Chardash group, + Wendee, using Obadiak
to see γ , M8, M17, M81, M51, + Altair, + M57.

*T4045^{AN2} concluded.

CN3d Miranda $3^h 2^m 40^s E$. (Comet NEAT through Apollo.)

CN3c (see also overleaf)

488 M=10.3 D=5.0 Psc EG brightest in group
of 467 11.9 1.6 Psc Round Gal
470 11.1 Psc

also Discovery again of P/Howell at
14.3 + 3 28. M=12 near these galaxies.

The comet was part of the group.

*772 M=10.3 D=7.1 Aries RGBC.

*T4046^{AN}. Saturday June 19/19¹⁸ 0500 to 0500/10-F/

Jarnac / Vicki Jedicke + Paul, Wendee
SS2 Cordelia 4, 37 + 4 promnices.

Sky 2: Jupiter, M8, 17, 5, 51, Comet NEAT
(using Obadiak and Miranda and Apollo)

CN3 M^h 3^h 5^m Pegasus } = 3^h 05^m E.

CN3d Muirwa M^h 30^m }

CN3c *7721 M=11.6 D=3.4

L280 Agr EG. Soft, long, comet-like.

L281 7727 10.6 4.5

Agr RGBC Seyfert, a blinker.

L282 7314 11.0 4.5

Psc Australia EG-BC looked a bit
like Sh-9.

L240. 157 10.4 4.1

Cetus EG BC. Looks like an Amoeba

The Amoeba galaxy.

L283 Red Variable + blue companion at

03 42.0 + 60 st. in Camelopardalis
62 40

06-04

CN3 bgh Hyperion. CN3k11-CN-1 Clyde.

CN3e Clyde TV Grw 18.0

CN3 had a very busy night tonight. Last night, Dave was the movie accompaniment. Tonight, Titanic was.

14047S Sunday, June 20 / 1100-1200 / 10-F / Jarnac / Maxine Shoemaker Heath and Jim Heath, Wendee + the Beagle / Obadiah / Mountain.

14048S2. 1835-1850 / 10-F / Jarnac / - / SS2 Cordelia 4,35; 2 prominences, ~3 smaller ones.

14049E3 2000 to 0000 int / 10-F / Jarnac / Wendee
CN3 Minerva at Apollo 5 min W
CN3k11-CN1 Clyde CN3e Clyde TV Grw 18.1
Sky 2 - Obadiah Wendee opened J1, set up Obadiah, and observed Jupiter, Mars, M8, M5, and the Moon.
CN3 bgh Hyperion.

14050S Monday, June 21 / 0830 to 1140 / 10-F / Jarnac / Wendee, Rajiv Gupta / SS2 5,81. Muntaka.

14051S2. 1300-1315 / 3-F - some clouds after a long clear spell / - Jarnac / - / SS2 again 5,78 Muntaka.

14052EM. 2330-0015 / ~~10~~ 2-3-10 f / Jarnac / The Beagle / CN3e Clyde TV Grw 18.0: CN3k11 Clyde.

14053S. Tuesday June 22 / 0730 to 0800 / 0 + 3-F /
Jarnac / Mintaka / -SS2 5, 78.

Closing Clyde + Observatory in rain. Just
brief rain but Wenda woke me up so I
could rush out to close the observatory.

14054E 2. 2300-2315 / 2-F / Jarnac.

14054E Wednesday, June 23 / 2300-0000 / 2-F /
Mini / The Beagle / M6 + 7. Walk.

14055S Thu June 24 / 0830-0850 / 3-F / Jarnac / Wenda
SS2 Mintaka 4, 52.

*14056EM 2300-0500 / 10-F / Jarnac / Wenda

CMP-1 June Bootids 3 meteors, 1 of which was
a Bootid from Pons-Winnecke

CN3d Miranda } 11:30 ME. CN3-CN11. Pictures

CN3 Minerva } of MW with

CN3K11-CN1 Clyde area 31. Lethart Kula's

CN3c *NGC 718 11.7 2.2 Psc RG BC faint, low, but still there, ^{camera}

14057S. Fri Jun 25 / 1100-1300 / 3-F / Jarnac / Wenda
SS2 3, 16. Search for missing lens from my
glasses. Unsuccessful.

14058E 2. 1430-1600 / 3-F / Jarnac 1-1

SS2 Mintaka (as before) 3, 10.

Found lens melted under old black
observing chair.

(14059 above.)

06-04

14060EM3. 2100-0330/10-F/Jamaica /
CMP-1 June Botids. Wendee saw 1 sporadic.
CN3e Clyde TVCw- C14.8.

14061S. Saturday June the 26/0830-0900/10-F/Jamaica /
SS2 Mintaka 2, 10.

14062S2. 1445 to 1500/3-F/Patsy's house, Las Cruces /
16" F/10 Clyde Telescope, Mira
SS2 Mira 2, 5. Seeing not as good as this a.m.

14063E3 2130 to 2300/3-F/Jamaica / Patsy, Wendee /
CMP-1 June Botids no meteors.

*14064S. Sunday Gerry's birthday /# 0800-0945/3/
Jamaica / Patsy, Wendee.
Pictures of Patsy and Clyde, at last. Clyde
is a beautiful telescope. The first thing
Patsy did was put her arms around Clyde.
I then got pictures with the Canon, then
with Lothar & Paula's camera. SS2 Echo 1, 2.

~~14065~~^SE2. 1630 to 1930 int/3 / Hwy 10 in NM, then
Patsy's house / Wendee, Patsy / 16" F/10, Mira /
pictures of the telescopes with Lothar & Paula's
wide angle lens.

14066EM3 2350 to 0400/3- / Jamaica / CMP / sporadic
VERY BRIGHT satellite flash, high in west,
-12 at 3:15 a.m.
CN3K11-CN1 Clyde area 65.
CN3d 45 min E.

14067S. Tuesday, June 29/1600-1615/10-F/Jarnac/
SS 2 Echo 1, 2. with Cor & Kandra, Wendee.

14068E2. 1930-2330 17/Jarnac/Wendee, Cor & Kandra)
Sky 2 with Obadiak and Miranda 1-Wendee,
opened building & set up Obadiak, Jupiter,
Moon.

14069S. Wednesday, June 30/ 110-F/Jarnac/
SS 2 Echo 1, 4.

14070EP2 2330-2340 17/Jarnac - Moon, constellations

14071S Thursday, July 1/ 0550-0615/10/Jarnac/
Mintaka Esther SS 3 Mintaka 2, 4.
Attached cable to Focuser for Esther.

14072E2

2015-2100 EDT/3-F/Montreal and on
AirCanada plane / Moon next to
towering Thunderhead from plane just out
of Montreal.

07-04

TRANSIT OF VENUS JUNE 6, 1761.

14073E. Friday July 2 / 2100-2130 / 1-F / Memorial University
St. John's, Newfoundland / In this session the delegates
to the RASC General Assembly gathered round
for the donation of a plaque honoring the 1761
Transit of Venus. John Winthrop
arrived from Harvard University on May 22, 1761
and observed the transit on June 6. It was
fun to imagine being here for the first attempt
to measure the \odot - \oplus distance.

The Art of Teaching is knowing how to
stimulate students to feel the joy of learning.
- Bob G. Garvican, RASC.

Le Gentil stayed away for 12 years, clouded out for
both transits 1761 AND 1769. Returned home to find his
estate was being settled.

December 1882 (in talk by Peter Broughton) next transit
visible from Canada. Charles Carpenter organized
big national effort, though he was clouded out in Toronto.
(in talk by Ray Bishop) May 28 1761 an article in the Hal-
ifax Gazette. Winthrop sailed for Cape Bonavista
to "observe the transit of Venus over the Sun's disk."
(Instead he observed near St. John's). At the time only
2 people had ever observed a transit of Venus. 1639.

1761 transit not visible at all in Boston or Halifax, though
almost visible at Halifax. Cook served Wfld in 1764.

Kepler predicted 1631 transit. Not visible from
England & France. Jeremiah Horrocks, 19 or
20, observed & predicted 1639, & his friend
Wm Crabtree saw it. Horrocks bested Kepler.

14074S. Monday, July the 5/1430-1800 Newfoundland Savings Time 10-11 off the St John's coast, on a boat / RASC: Peter & Dianne, Roy + Gertrude, Rajiv + family, and lots of others + puffin birds, dolphins, and 2 humpback whales at close range. Sun appeared occasionally.

14075E Tuesday night, July the 6/ 2315-2330/3-F/ Jarnac / Wendee.

14076E Wednesday, July 7/2030-2100/3-F/ Jarnac/ Genie Pearl / VSO-1 X Her 6.4.

14077S Friday, July the 9/1900-1915/2-F/ Jarnac/ SS2 Cordelia 3, 15 + 1 small prominence.

14078E Saturday, July the 10th/2200-2245/³¹ on balcony of Salt Lake City Public Library, overlooking govt bldg to the west / others, after my successful Dewey lecture / Sky 2: Spica, Arcturus, Jupiter.

14079S Sunday, July 11/1210-1225/3/ Jarnac/ SS2 Echo 2, 21.

14080E2 Sunday, 11/1955-2015/1-2/ Jarnac/ Wendee, Debbie / clouds + lightning. Observatory check.

14081S Thursday 8 (before 140787) / 1100-1345 / 3-0-F (Jarnac) Dean / removing mirror + refractor from

07-04

Mr. Obadiah in anticipation of installation
of new CCD. A very difficult job to do.

14082S. Monday, July 12/0610-0625/3/Jamaica |-/
SS2 Echo 3, 33. Good seeing this early in the
morning.

14083S 2 1900-1930/3-F/Miami Airport/Transportation
Security Administration lady looked through
Cupid at the window design far off in the airport.
It was fun. Then, another passenger recognized
me. On my way to southern sky.

14084S. Tuesday, July 13/1300-1430/8-F/Tim Johnson +
family's house, Cochabamba, Bolivia/Cupid/
The Moon, thin crescent setting below a flag,
then viewing flowers in his beautiful garden.

14085E2. 2100-2230/7-10/La Paz, then on the way to
Lake Titicaca/other. First view of Southern
Cross and α + β Cen this trip.

Hotel Inca Utama

14086E2M 2300 to 0030/10/Southern Sky Star Party/
22-inch, 10-inch/-about 15-20 other people,
Jen + Vicki Winter|- This is the most beautiful Milky
Way I've ever seen. At this high altitude 3825m, 124'
the galactic center, this late evening high in the
west, was outstandingly bright, very mottled
and sharply bounded. The dark nebulae within the
Scorpius bulge were very distinct. It was very
beautiful. The SMC also bright in SE.

14087A.3. 0415-0610/10+-F/Hotel Inca Utama, SSSP/
10" reflector, 22". / others /

~~CN3a~~ CN3b 1^h 30^m E, SE. As I

was quietly praying shacharis, I got to the
part Mashiv-Haruach Omerim ha'azhem -

Then causes the wind to blow and the rain to
fall. Now this is the time of year when we skip
that line. But as I got to where it would go,

(-L-25) the 10-inch passed by M79, the only big
globular in the winter sky, the sky normally
visible when one would say that line.

Beautiful morning, pristine sky. Hunted
S from Taurus, Orion, Lepus, etc.

14088S. Wednesday, July 14/ 1535-1630/3-/SSSP/Lake Titicaca,
inspection of telescope area.

*14089A.2. 1800 to 0600/10-F/SSSP/about 30 people/
10-inch reflector "Lloyd" 22" Ken Willcox
Cupid, several other beautiful telescopes.

CN3a 1^h 15^m } 4^h 40^m all night. CN3 with Cupid

CN3b 3^h 25^m } CN3b with 10-inch

CN3c NGC 6101

NGC 1365 Magnificent barred spiral

NGC 1360 A beautiful planetary

nebula with a bright star at the center.

I spent more than an hour identifying
this object, first with Terion's S. Sky guide,
then with ^{help with} Sky Atlas 2000, then successful-
ly with the S. Sky guide. With the
altitude (12,450) and the cold,

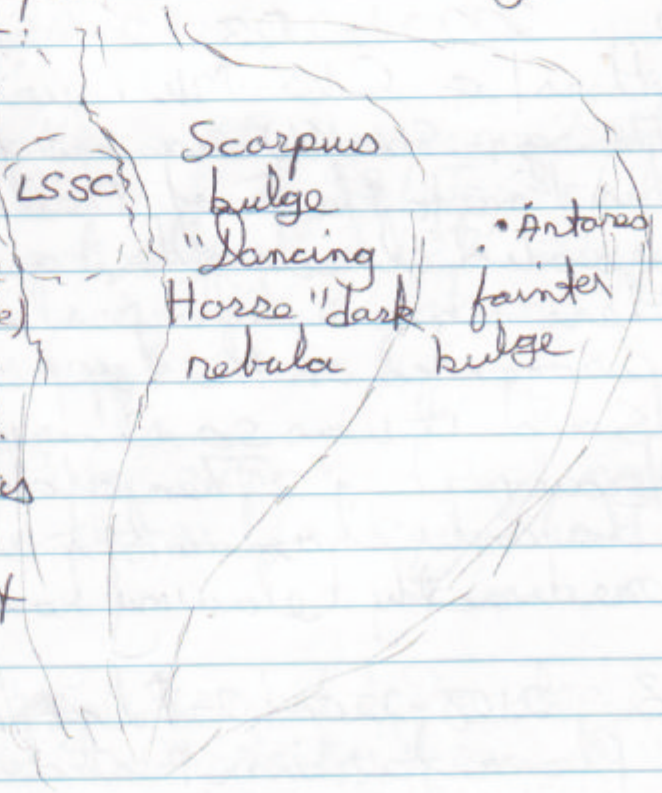
07-04

my brain just wasn't functioning to detect new patterns.

*140905. Thursday, July 15/1525-1830/10-3-F/Titicaca,
J.SSP/ people/ 120mm F15 Orion refractor
SS2 3,30. Some LTG interviews. A
beautiful afternoon observing with, among
others, Cransale, who has observed & charted
☉ for many years. It was an honor to observe
with him this afternoon.

*14091A2. 1930 to 0630/104/SSSP, Lake Titicaca/
10", Cupid, 22", other scopes. CN3, Sky 2, CN5Mw
Milky Way does cast a shadow. We did the
Hot Civic (Mike Reynolds + me) with my hand and
a piece of white paper. The MW in Sgr-Scor was
high in the west:

The light of its
brightest part
(right)
clearly cast a
shadow to
the E of my hand.
Later, when it was
lower the shadow
was further east &
fainter.



CN3a with Cupid 1h 00m } 5h45m
 CN3b with 10" 4h ~~30m~~ 45m }

We saw M7, reflected in Lake Titicaca.
 There were also a number of slow meteors

tonight L288 L289 L290 L291
 CN3 @ NGC 1097 ~~ALC~~ 5148 NGC 1261 NGC 1493
 IC

14092S. Friday July 16.
 10th anniversary of ~~SL9~~ SL9
 first impact.

1330 to 1500 / 10-F / atop mountain near
 Lake Titicaca at site of future observatory
 for 14" & hyperstar. The summit was
 43,500', the site a bit lower. What
 a pristine sky this is. Mike Reynolds,
 Vic & Jen, ^{+ guide} & I were there. After we
 chatted outdoors for a short while.

*14093E2 2000 to 2000 / 2-1-F / Lake Titicaca (-)
 others @ CN5-MW1 with Mike Reynolds.
 The Spr-Sco MW came out for a minute or so,
 this time to the E of the meridian. Surrounded
 by solid clouds it had a sharp border.
 There was a sharp shadow to the west
 projected on this & opposite page. Mike
 said it was so sharp he could have
 drawn it. Then clouds reformed.
 The only shadow left was a very faint
 one directly below my hand.

14094E3 2100-2200 / 2-1-F / Lake Titicaca / Hotel
 Planetarium & sliding roof observatory

07-04

all in 1 room. First they showed us an excellent show on local constellations - available in 6 languages - then the roof opened, showing us the sky. It was a very nice session - I was moved by this simple, elegant facility. They had a small 4", usually the 22+40 was there too.

14095S. July 18, Sunday / 1900 to 1915 / 1-2-F / Jarnac Echo / - SS2 2, 83, very large group that happened to be in the one part that was visible.

14096SE July 19, Mon / 1915 to 2000 / 3-2-F / Jarnac / SS2 Echo 3, 13 but O through clouds. Also J3 work w/ Tom over phone.

14097EM 2330-0045 / 11 / Jarnac / Cupid - Wendee Cactus flower pictures - column cactus

14098S July 20 - Space Day - 35 years since Apollo 11, 28 since Viking / 0830 - 13 / Jarnac / SS2 Mintaka good seeing 3, 107. Big group. Adirondack Science Camp children's talk by phone to Plattsburgh.

*14099S2 1600-1615 / 3-F / Corongdo / picking up Mintaka's H₂ scope, looking through one of theirs.

*14100S3 1700-1900 / 3-F / Jarnac / Wendee / SS2 Mintaka + Mintaka's new p H₂ scope. First light on Space Day. 4, 171; 13 prominences.

14195 Wednesday, July 21, 2004/⁰⁹⁴⁵~~1000~~-1100/3-F/Jarnac/
Muntaka 1-1 SS2 4, 116, 11 prominences.

1402E2 1915-1930/3-F/Oakland Bay Bridge/
Tym | SS2 - trying to see sunspots through
fog... Unsuccessful.

³ Crescent Moon through Moon roof.

141013 Fri/1500-1800/3-F/Berkeley/others/SS2 Coronado ^{through} 4 + prom

141014 Fri 23/2130-2145/Mall near Stanford/
Moon, constellations with Bob + Becky Morgan,
+ Lonny + Todd. ^{only}

141055 Sunday, 25 July 11750-1830/~~#~~ 2-F/
Jarnac | SS2 Muntaka 340 + 5 proms through cloud.

141016 AN Monday, July 26/1900 to 0500/3/Jarnac/
Joe Light, Wendee | Telescope testing for
Smart + Money Magazine. CMP-1 Delta Equinox

1) Meade 90 ETX Had trouble ^{3 seen}
with Autostar but got it working well. Venus.

2) Celestron NEXSTAR 4 GT optics fine
& Go to didn't work.

3) Celestron NEXSTAR, 60 GT refractor
Good optics, wobbly mount.

4) ORION 8" Dob Skyquest XT10
Disappointing optics.

5) Meade 79mm refracting scope.
Works fine.

6) Tevone TV60. Phenomenal

optics - easy, portable - in love
with it -

7) Hardin Deep Space Hunter.
CN3b 60min E. Very good optics.

07-04

14107S. Tuesday July 27/1500-1700/2-F/Jarnac/
Joe Light from Smart Money Magazine/
SS2 with Minkaka 3, 44 + 2 prominences.

14108EM2. 1930 to 0100/3-Aron/Jarnac.

- 1) Televue TV60 for Jupiter and Moon
 - 2) Meade 90 ETX
 - 3) Celestron NexStar
 - 4) Hardin D.S. Hunter
 - 5) Meade 70mm refractor
- listed in order of preference.

14109BM Wed July 28/0240 to 0430/10-Jarnac/-/
CN3 ~~at~~ Minerva CN3d Miranda 1h15m E
tonight I passed 918h15m since my most recent find.

14110E. Thursday July 29/1500 to 2345/107/Jarnac/
David from Smart \$ magazine + assistant,
Wendee. Set up and two poses
Pose 1) Me and Echo in front of N-pointing
Dome

Pose 2) Me and Pegasus inside dome.

Wendee + I sat outside after. Earlier, SS2: 2, 12.

14111M2 Friday morning 10350-0440/10 after moonset
+ green flash 1-1
CN3 Pegasus 15m E.

14112S Friday, Jul 30/ 13/Jarnac/
Minkaka SS2 2, 14.

14113EM 2000 to 0200/3/Jarnac/Wendee
CN3bgh Hyperion Tests. CN3c Apollo,
Minerva, Miranda. Confirming L283 UCam.
Very red! Wendee + I sat outdoors too.

14114E Saturday, July 31/2230 to 2345/3/Jarnac/
Wendee. Sitting on swing watching
Blue Moon.

14115E Monday, August 2/2300 to 0000/3m/Jarnac/
Beagle C.M.P.-1 Kappa Cygnids / point
meteor very near Kappa Cygni.

14116S Tues Aug 3/ 13-F/Jarnac/Mintaka/
SS2.

14117EM2. 2330 to 0115/3m/Jarnac/Beagle/
C.M.P. at back table in S. yard, Delta
Aquarid Meteor Watch.
1 2nd Magn. Delta Aquarid in Cass - Per.
1 1st Magn. Perseid also in Cass.
2 possible Delta Aquarids, faint.

14118S Wed Aug 4/1800-1830/3-2-F/Jarnac/
SS2 Echo 2, 23.
with Cordelia 3 prominences.

14119ES Thurs Aug 4/1300-1320/2-F/Jarnac/
SS2 Echo 3 32.

14120E2 2215-2330/2-1/Jarnac + Wentworth/
Wendee / transplant of 2-3 Hedgehog cactus
from Wentworth just N/W of ~~Seaview~~ S shaped
curve to our yard. A real adventure!

08-04

- 14121S Friday, August 6 | 1245-1315 | 3-f | Jarnac / Wendee
SS2 with Mintaka 3, 36 + 12 prominences
returning portable speaker to J2 dome.
- * 14122S Saturday August 7, 2004 | 0900-1100 | 3-f | Jarnac
Wendee | Writing to the Beardsley family,
whose Mom, Margaret, helped with my early
months in astronomy in the fall of 1960. J
Sky 2's sunset project was her idea.
SS2 with Echo 3, 27
SS2 with Mintaka 3, 32 + 13 small prominences
- 14123E2 2315-0000 / 3 | Jarnac / The Beagle /
CMP-1 Delta Aquarid Meteor Watch
1 bright Delta Aquarid through Sgt.
- 14124S Sunday, August 8 | 1600 to 1640 | 3-f | Jarnac /
SS2 Mintaka with Wendee | SS2 2, 39 + several
small prominences. Installed pulley on
Wendee's light baffle system.
- 14125E2 2315-2345 / 2 | Jarnac / The Beagle / CMP Perseids
No meteors.
- 14126S Monday, August 9 | 0930-1000 | 3-f | Jarnac / Wendee /
SS2 with Mintaka 3, 73 one very large group
and 3 prominences.
- * 14127EM2 2200 to 0300 / 3-10-1 | Jarnac / Wendee, Karen,
Jacque, and Ayla, Tom, Jason, Tiffany / CMP-1
Perseid Meteor Watch 120 meteors! Wendee
saw a K Cygnid; I saw a point of Aquarid.

14128E Tuesday, Aug 10 / 2300-0000 / 10-F / Jarnac / Wendee | Perseids CMP-1 4 meteors, all Perseids.

14129S Wednesday, Aug 11 / 0930-1000 / 10-F / Jarnac / Wendee | Reading Charles Dickens *Our Mutual Friend*. SS2 with Mintaka 4, 102 plus 3 nice prominences.

*14130SE Saturday, August 14 / 1030 to 2200 / 13-F / Skellafane / Telescopes / Wendee, Icarus, Philip, Gail, Constantine, and many others ~150 people. SS2 ☉ 5 spots + 1 nice prominence all through a H α filter. Sky 2 - Shadowgram.

*14131S Sunday, August 15 / 1500 to 1830 / ~~10~~ 2 / Adirondack Science Camp / Wendee, Alex Scheeline, David Larach, Alice Marilyn Larach. SS2 with Cupid 2, 48.

14132E2 15 / 2200 - 0200 11-31 / Adirondack Science Camp / Some clearing, mostly clouds though. with Alex, David Larach, Wendee, & others at the Adirondack Astronomy Retreat.

14133S Monday, August 16 / Sunrise / Outside Cabin 2, ASCP - 1 Sunrise over pond with dense fog. See 14148 2 pages over for pictures.

08-04

- 14134 ~~AN~~ / 1600-1800 / 1-F / ASC / Wendee, Sue Spussinger, the President of SUNY Plattsburgh, and a group of 30 to 40 including AAR people / - Sky 2: Groundbreaking 1 for the David H. Levy Observatory
- * 14135 AN 3 / 2100-0430 / 3-10 / ASC / David Larach, Alex Scheeline, Wendee, Marilyn Larach, Alice, AAR - Sky cleared beautifully!
CN3a 1h 40m W with Cupid.
CN3a 1h to E with Cupid.
Total 2h 40m.
More than 10 late Perseids, CMP, 1 Kappa Cygn.
Fog suddenly came in at 3:30. We did see Venus.
- 14136 S Tuesday, August 17 / 1930 to 1300 / 3-F / ASC / Cupid / Alex Scheeline, David Larach, Wendee and all the other participants in the Adirondack Astronomy Retreat: Marilyn, Alice, Greg, Frankie, Tom, SS2 with Cupid, 2, 62.
- 14137 E 2100 to 2130 / 2-F / 818 + Summit / Wendee, Mom / Aurora - 1 - no aurora. We drove past 818 to Summit. Bright sky + some cloud, but no aurora seen.
- 14138 S Wednesday, 8/18. / 1000-1030 / 2-F / Mom's balcony / Wendee, Mom / SS2 with Cupid 2, 33.
- 14139 S 2 1200 to 1245 / 3 / Mom's balcony / Mom / SS2 with Cupid.

14140E3 2315-0000/3/Jarnac/Wendee/lightning,
stars

14141B Thursday, August 19/7-7:15/3/JARNAC/-/
SS2 with Mintaka 3, 44, 4 prominences.

14142E2 1920 to 21:5/10-F/Jarnac/-/
CN3 with Pegasus. 1^h W. Comet Linear ⁰⁷K3

14143S Friday, Aug 20/7:50-8:15/3/Jarnac/-/
SS2 with Mintaka 5, 50 + 3 prominences.

14144E2 2030 to 2330/3-10-F/China Rose, then Jarnac/
Wendee, Bob & Lisa Summerfield / Moon,
UMa & Arcturus; then C/linear 2003K3, M31,
NGC 869 + 884.

14145S Saturday, Aug 21/0730-0750/3-F/Jarnac/
Bob Summerfield / SS2 with Mintaka 5, ~50.
Some small prominences.

14145S 1200-1300/3-F/Stargazer/Robert
Summerfield, Lisa & Wendee.
SS2 w/ 6" 1 big prominence.

14147S3 1830-1850/3-F/Jarnac/-/SS2 with
Cordelia 5, 42 + several prominences.
Buy one now like a checkmark. ✓

14148M4 0112-0515/10-F/Jarnac/Robert Summerfield
CN3d with Miranda, } 3^h 00^m E.
CN3 with Muriel }

14140E3 2315-0000/3/Jarnac/Wendee/lightning,
stars

14141S Thursday, August 19/7-7:15/3/JARNAC/-/
SS2 with Muntaka 3, 44, 4 prominences.

14142E2 1920 to 21:5/10-F/Jarnac/-/
CN3 with Pegasus. 1^h W. Comet Linear ^{07K3}

14143S Friday, Aug 20/7:50-8:15/3/Jarnac/-/
SS2 with Muntaka 5, 50 + 3 prominences.

14144E2 2030 to 2330/3-10-F/China Rose, then Jarnac/
Wendee, Bob & Lisa Summerfield / Moon,
UMa & Arcturus; then C/Linear 2003K3, M31,
NGC 869 + 884.

14145S Saturday, Aug 21/0730-0750/3-F/Jarnac/
Bob Summerfield / SS2 with Muntaka 5, ~50.
Some small prominences.

14146S2 1200-1300/3-F/Sturiziona/Robert
Summerfield, Lisa & Wendee.
SS2 w/ 6" 1 big prominence.

14147S3 1830-1850/3-F/Jarnac/-/SS2 with
Cordelia 5, 42 + several prominences.
Buy one now like a checkmark. ✓

14148M4 0112-0515/10-F/Jarnac/Robert Summerfield }
CN3d with Miranda, } 3^h 00^m E.
CN3 with Murena }



08-04

14133S.

See 2 pages
back.

Sunrise at ASC.

conc'ds

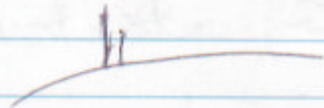
14148M4CN3c NGC 2304 $M=10.0$ $D=4.7$ Gemini
open cluster, dense. A miniature, fainter
version of the Coma Cluster, says Bob.

BETA MONOCEROTIS Bob suggested
this as an interesting trip. Double easy,
trip hard at low power.

Saw SN in NGC 2403 NOT, ←



14149B. Sunday, Aug 22 | 1725-1740 | 3-f / Jarnac /
Cordelia | SS2 7,55 4 prominences



14150SE2 1830 - 1900 | 3 / Rita Ranch / Bob / Sky 2
Green Flash / faint green flash seen. Bob says there
wasn't one. Bob says no flash within 1000 miles.

14151M3 0110 to 0535/10-F/Jarnac/Robert

Summerfield/
CN3 Minerva } 2h 45m E.
CN3d Miranda }

with Minerva SN in NGC 2403 12.4. estimate

We now use the Paracour with Minerva -
no more coma! Thanks Bob.

Uranus + Neptune

CN3bgh Hyperion.

CN3k Area 65 better focus than last night
Bob said that Minerva showed one of
the best views he's ever had of M31.

141525 August 23 /1808-1830/2/Tucson-Jarnac

Wendee, Lisa, Bob / Sunday - parhelion

CN3c → NGC 1232 M=9.9 D=7.1

CN3c Eridanus Spiral with structure

→ NGC 1332 10.3 4.5

Eridanus very elong. gal bright core
very nice structure.

→ NGC 1768 ? 7.9

Orion reflection nebula.

→ Owl or ET cluster

→ NGC 1187 10.8 5.3

LSB Eridanus R.G., star to N.

→ NGC 1360

Formax PN * in middle (see 14089AV2)

14153E Aug 24/2008-2115/2/Jarnac/Tom Glinos/weather
check 33.

08-04

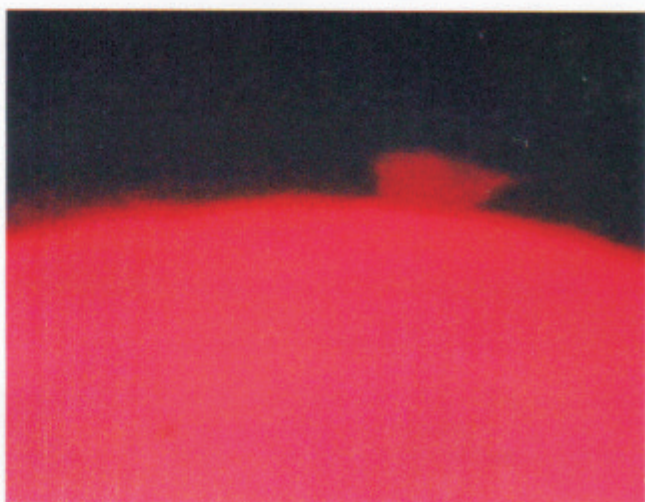
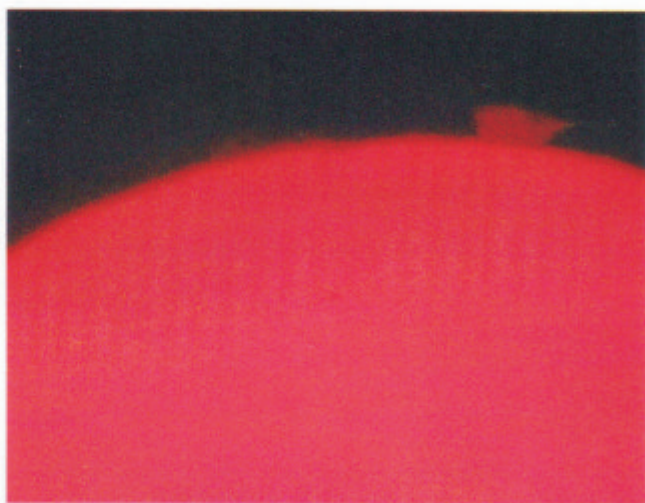
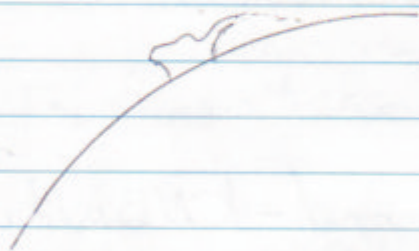
14154S August 25/1740-1755/10-F/Jarmac/-/ SS2 with Cordelia 2, 16 + 4 prominences, one thick one,

14155E2 2330-0000/3-F/Jarmac/-/Genie-Pearl view,

141565. August 26, 2004, Thursday/0830-0930/10-1/Jarmac/Wendee/ SS2 2, 9 + 7 promo incl. one big one.

14157S2. 1815-1830/10/Jarmac/Wendee/ SS2 with Cordelia 3, 7 + several prominences.

The Teapot Prominences



14158E3 2000-2055/3/ Jarmac / The Beagle, Tom on phone / CN3 bgh Hyperion testing, orientation achieved to within 0.8°.

14159M3 0330 to 0510/3/ Jarmac 1-1 CN3a Genie Pearl 5m CN3 Pegasus 1h Total 1h 5m E.

14160S Friday, August 27/1800-1815/10-F/Jarnac/~~Ce~~-/
Cordelia and SS2: 3, 9 + 2 prominences.
Yesterday's giant is much smaller.

14161AN2 2030-0530/7, moonlight/Jarnac/Wanda,
Dean.

CN3k11 - new alignment device & procedure.
CN3d with Miranda - 5min } 35min E.
CN3 with Miranda - 30min }
Comet Machholz \approx 2004 ϕ 2 M-11.5
intermittent obs, between 2030 and 2300.

14162S Sat Aug 28/~~18~~ 1730-1800/10/Jarnac/-/
Cordelia 2, 3, 7 prominences.

14163EM2 2000-0100/7-m/Jarnac/-/CN3k11 with
Clyde. Comet Search.

14164EM Sun Aug 29/2000 to 0100/7-m/Jarnac/
CN3k11 with Clyde - area 369 and 31 and
Comet Tucker. (photo only)

14165E Monday, Aug 30/1930-2030/7/Starizona/Cupid, 8,
Dean, Larry, others/installation of Cupid's
new encoder system. 8" telescope M7.

14166E2 2330-0000/7-m/Jarnac/Cupid/test of
encoders. Ct but they'll work.

09-04

- 14167E Tuesday, ~~September~~ ^{August} 3 / 1930-0000 / 7-m / Jarnac /
Cupid, Hyperion / Wendee / CN3a 35min with
Cupid. CN3k II - CN1 with Clyde Area 369.
- 14168S Wednesday, September 1 / 1745-1800 / 3- / Jarnac /
SS2 with Cordelia 1, 2 + 10 prominences.
- * 14169SE2 1815-1845 / 3 / Jarnac / Wendee / Bright Green
flash and sunset with rays against clouds.
Pictures taken.
- 14170E Thurs Sept 2 / 2015-21 2 1930 to 2015 / 2 / Jarnac / Cupid 1- /
Testing Cupid with level. Too cloudy to be sure but
I think it's better.
- 14171E Fri Sept 3 / 2330-0000 / 2 / Jarnac / Wendee / walk.
- 14172S Sunday Sept 5 / 0930-1000 / 3 / Jarnac /
SS2 with Mintaka and new tiny camera
3, 17, 7 prominences.
- 14173S before 72. Sat Sept 4 / 1700-1800 / 2 / Jarnac / new
tiny camera test, Storm North / Wendee.
- 14174S2 Sunday Sept 5 / 1430-1500 / 3 / Jarnac / Mintaka /
Ed Finny, Richard Duggall, + Wendee /
SS2 again with Mintaka 3, 17, 6 prominences.
- 14175E^M 1900-0100 / 10-3 / Jarnac / Wendee /
CN3a 1^h with Cupid - Gerie Pearl
CN3k II - CN1 Area 370. M31.
CN3 bgh. Walk with Beagle.

14176M3 0500-0530/10/Jarnac/Wendee/Did not see ISS near the Moon. Did see
• Ceyton
• Polley
• Saturn
• Venus.

14177G Labor Day. 3:30-4pm/10/Jarnac/
Cordelia SS2 3, 19, 11 prominences.
} Magnificent - 7 fireball at 8:15, toward North.

14178E2 2330-0000/1-F/Jarnac/walk CN3R Area 384.

14179M3 3-5:30 A-m/Jarnac/CN3/Miranda 15^m E. ISS thru scope

14180E Sept 7/2245-2330/1-F/Jarnac/beagle/walk

14181E September 8/2000-0000 12-3/Jarnac/

Cupid / M31, 33. Test of encoders

ISS appearance through Miranda.

followed it for a few minutes during 14179M3.

(Great meteor at 2015, -7, moved from

just W of Zenith toward UMa - UMi in North-

Beautiful meteor - it was during 14178E2.

A nice 2nd magnitude meteor going toward SW far from S. meridian.

Test for Cupid went well. Found M31, 33, NGC 869, 884 - after leaving encoders on for several hours. Then it skipped a bit.

Maybe moved it too fast, & keep to one part of sky. And keep level.

14187E September 10/2010 to 2100~17/Kansas City/
Coffee Creek Observatory/Wendee, Jackie B. Study of a home dome and how it works.

09-04

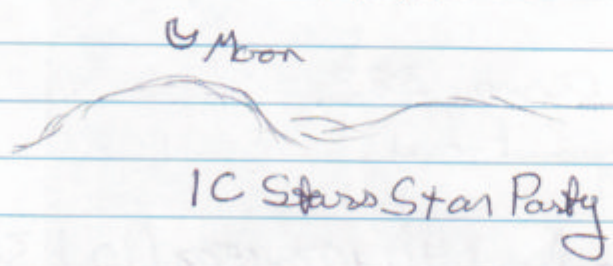
14183E2 Friday September 10/1930-0000/10-3/IC Stars
Star Party, Missouri/Wendee, Vic + Jen,
Jackie, and many people at the Star Party/
CN3a with Cupid and encoders 2 25 W.
NGC6709 spotted during search.

14184M3 0345 to 0545/3-7/IC Stars Star Party/No-
body!! CN3a with Cupid, 1^h20^m E.
Total Time tonight these last two sessions
was 3^h45^m.

In the first session Vic showed us the Blue
Snowball PN. through the Star Garden 24-inch.
Then he showed us several geosynchronous
satellites.

This morning, I saw this scene

- ^{Cantor} Polaris
- Saturn
- Venus



Our few moments
chatting about everything
and nothing under
the stars" was all
about why we gather
in the first place. Thanks
for our fine time!
Jen + Vic

14185EM The Saturday, Sept. 11, 2004/2000 to 0/10/9-10/
IC Stars Star Party/Wendee, Jackie, others from the
Star Party/- CUPID.
CN3a 2^h10^m W, N, and NE. Encoders worked
much better. Aligned on Vega + Altair. Vega pretty
high. We had a good discussion with
the man who makes StarMaster Telescopes, and

about their impressions of S-L9. They had observed the spots together. Said it was the most memorable observing experience in all his years in astronomy. Three words - "Oh my God" and asked to look and said "No!" Then he let him look. Wendee, Jackie & Genjoyed their story!
M31, NGC 869-884, M45. - Σ 2819, 2816.

14186E Sunday, September 12 | 2000-2330 / 10+3 / Jarmac / Beagle / walk.

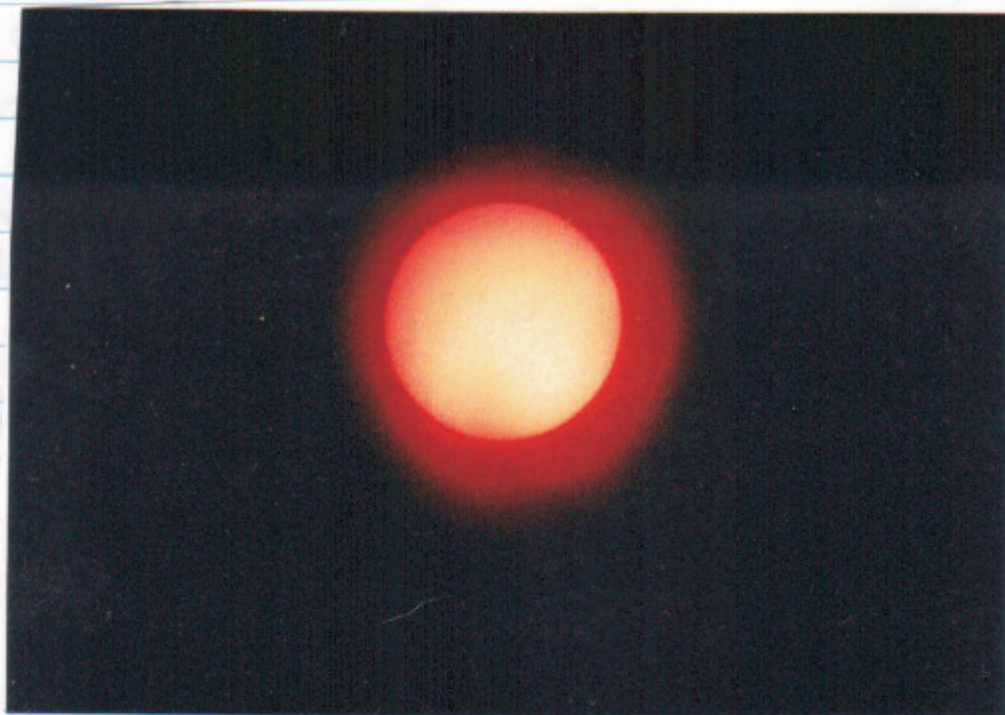
14187S Monday, September 13 | 1750-1810 / 10-F / Jarmac / SS2 with Cordelia 2, 23, 3 prominences. Moved Minerva's AdMount to the 54.

14188EM2 2000 to 0100 / 10-F / Jarmac / - / CN3 bgh Hyperion
CN3 R11-CM Clyde Area 383.
M31, 33 with Genie-Pearl.

14189S Tuesday, September 14 | 1400-1500 / 10 / Jarmac / SS2 with Mindaka 1, 44, 9 prominences. Dean worked on the roof chain. He took off the south ^{mount} wall sprocket.

14190S2 1700-1800 / 10-F / Jarmac / New Olympus Camera, Cordelia / - / SS2 1, 3.5 + 12 prominences. Pictures with new camera \rightarrow .

09-04



1419052 π concluded.

First session with renamed
Tuesday 14/ Skywatcher 2 = Sky 2 = Sol 2

*14191AN 3. - Wednesday, September 15/1940-0530/
10/ Jarnac/ Wendee, Cassie Underwood &
friends/

Skywatcher 2: (Sky 2, Sol 2 formerly)
with Miranda, Minerva, Apollo (drive works on
east viewing!)

M31, M32, NGC 205, M13, Milky Way LSSC,
Uranus. Minerva had no trouble with Uranus.
Genie-Pearl: M31, 33.

Catalog objects CN 3c, see 14236EM 2

Wendee found

NGC 6637 Sgr GC Mv 7.7 D 6.9'

I found

NGC 2304 Gem OC dense, fuzzy looking
when low in the sky. Mv 10.0 D 4.7'

NGC 2264 X Mastree cluster / Cone nebula
M46 with Planetary Nebula in Puppis.

* 3184 UMa RG, * to North edge. 9.8 7.1'

Several meteors, 2 very slow long ones.

One ~ 2100 W-E in S.

Other S-N in E at 0445~.

Cassy says a bright one.

14192S Wednesday, 15/ 110-F/ Jarnac/
SS2.

14193E2 Wed 15/2000-0000/ 10/ Jarnac/ Wendee/
CN3 high Hyperion. CN3kl Hyperion.

09-04

14194G Thursday, September 16/1800-1830/-/SS2 with Cordelia 2, 19, 9 prominences. Sunset photos from Carey Street.

14195AN2 2030 to 0530/10+-/Jarnac/Wendee, Zoe and Rita Wright from Kansas City, the Beagle, and one ~2' long diamondback rattlesnake; later Art + Jeff came to move the animal. Skywatcher 2: M31, Double Cluster, M13, with Apollo, Minerva and Miranda (formerly Sky 2, Sol 2)

CN3bgh Hyperion.

CN3Rll Clyde

CN3j Clyde Kreutz Search.

The night was perfect, balmy, dry, and absolutely still. The seeing was superb. As we sat outside in TI, the Beagle started "trilling" barking + praying, Wendee went to check and then called me. The Beagle was at the Edge of the porch, and sitting on the N side of the path to the office was a diamondback rattlesnake, its tongue moving about. I got pretty close to confirm its identity. Art + Jeff were heroes - along with the Beagle - they used a snake tong to move it out of harm's way.

CN3d 3h E.

CN3c NGC 1999 M1=? D=1,9 Ori Neb. b/w/dust
SE of M42 ~20' from M42 L95

L292 NGC 2903 9.0 12' Leo EG long, lucky



14196S. Friday, Sept 17 / 0845-1430 / 3-f / Jarnac / SS2 2
 24+ 7 prominences with Mintaka, Joe + Rita added
 stops for JZ's shutter (behind in picture above).

14197EP2 1900-1910 / 2-f / Jarnac / crescent Moon peeping
 through clouds.

14198E Sat 18 / 2330-0000 / 1-f / Jarnac / the Beagle
 walk.

14199S. SEE PHOTOGRAPH ABOVE. / Sunday, September
 19 / 1730-1815 / 3-f / Jarnac / SS2 with Cordelia
 5 prom; → 2 big prominences, 2 groups ^{and} 2 spots @ 1740.
 Took photograph with Tony camera of
 • Dome with sunlight from west, storm
 clouds as backdrop towards east.

09-04

14200E, Monday, September 20/1915 to 2130/3/Leow's
Vantana Canyon Resort / Starizona / 28"
telescopes / I gave a 20-minute speech, then
we looked through the telescopes.
Skywatcher 2: Owl Cluster, Emma Levin
and Moon.

14201M2 0015-0045/3/Jarmac/-/
CN3j Setup. Beautiful night.

14202S. Tuesday, September 21/0900-0945/10/
Jarmac / Wendee / CN3j; closeup from morning.
SS2 h, 20". 5 prominences / 1 long
thin one.

14203S Mon 20 before 14200/1600-1700/Mt Lemmon/
Chris Koenig + friend, Edgar Poe / Filming
experience to discuss Poe's original descrip-
tion of the Others' Paradox effect. I read
some lines from Poe:

Not the least observance made he; not a minute
→ stopped or stayed he;
But with mien of lord or lady perched above
my chamberdoor —
Perched upon a bust of Pallas just above
my chamberdoor —
Perched, and sat, and nothing more.
— "The Raven"

14204EP2 Tuesday Sept 21/1820-1830/10/Jarmac/Wendee
Moon at 1st quarter in middle of window.
Beautiful shadow.

14205EM3 2330-0100/10-F/Jarnac/The Beagle
walk/

CN3 bgh Hyperion - Genie Pearl

CN3j with Clyde prep

Pegasus M15 J2 Dome.

14206FS. Wednesday, Sept 22/0900 to 1045/10/Jarnac
CN3j cleanup, Clyde

SS2 2 major prominences, 1, 5 Mintaka,
Wendee, Curtis, Pat Balfour.

14207E2 2230 to 2315/7-m/Jarnac/Beagle walk,
Wendee/CN3 bgh Hyperion, Genie - Pearl.
CN3j with Clyde, prep

14208S. Thurs 23/0930-1000/10-F/Jarnac/
SS2 with Mintaka 1, 4 (big spot) + 2 prom.
CN3j with Clyde cleanup. Images
were not focused. Maybe telescope
was too low when I left it almost
horizontally to E. last night.

14209E2 1700 to 0000/7-m/Jarnac/Skywatcher 2
Apollo, Miranda, and Clyde/Wendee,
Kris Koening, Anita / TV interview
on general astronomy.
CN3 k11-CN1 area 40 with Clyde.

*14210SE FRIDAY, 24 Sept. /1805-1840/10-F/Jarnac/-/
EN SS2. 2 small prominences, 1, 2.
The Sun set over Kitt Peak ~ the

09-04

McMath Solar Telescope and others in the picture:



14211 M2 0400 to 0515 / 10-F / Jarmac / -1
CN3j with Clyde ! Kreutz searching.
CN3d 1^h 5^m E

14212 M2 Should be before 14210 SE / 0350 to 0515 / 10-F /
Jarmac Sept 23/24 / -1
CN3d 1^h E
CN3j with Clyde, Kreutz searching
CN3gh - with Hyperion.

14213 S.E. Sunday, Sat 25 September 3/0r Chadash,
then Jarmac 1900 to 2000 int / Moon through
clouds, Gibbons.

14214 S. Sun 26 Sept 1500-1600 / 10-f Jarmac / Cordelia / 2, 4
13 prominences, installed camera in J3, and ^{Computer} blue names.

14215E2 Sunday 26 September / 2000-0000 int / 7-m /
Jarmac

CN3 byh Hyperion Genie - Pearl Moon.
CN3j preparation.

14216S Mon 27 Sept / 0930-1000 / 3 / Jarmac /
CN3j closing Kreutz search.
SS2 with Muntaka 1, 2 + a few prominences.

14217S2 1600-1630 / 10 / Jarmac / Wendeel /
SS2 with Cordelia 1, 2 + 1 large prominence
faint but large and complex.

14218E3 2300 to 0000 / 3 / Jarmac /
CN3J with Clyde preparation.

14219S Tuesday 28 Sept / 1000-1030 / 3 / Jarmac /
SS2 with Muntaka 1, 1 + big prominence.

14220S2 1530 to 1700 / 3 / Jarmac / Neil Parker
and Wendeel / SS2 with Muntaka
1, 1 + large complex prominence.

14221E3 2000 to 0000 / 3 / Jarmac / CN3j prep.
First light (Moon, Fomalhaut) on new
5" EPK. Motors + tracking more
accurate than on any other ETX so far.

14222S Wed 29 Sept / 0930-0950 / 3 / Jarmac /
CN3j closing Clyde.
SS2 with Muntaka 2, 4, + 4 prominences

09-04

14223E2 2300-0000/7-m/Jarnac/Hyperion, Clyde,
Genie Pearl/-

Moon with Genie Pearl. Declining yellows but
still a harvest moon.

CN3 bgh with Hyperion

CN3j with Clyde - setup for morning Kreutz
search.

14224S. Thursday 30 September / 0815-0830/10/Jarnac/
-1 SS2 with Mintaka 2, 4, 1 prominence complex
and one small prominence.

CN3j with Clyde closeup after Kreutz search.

14225E2 1900-0000 /10-7m/Jarnac/Hisa + Emily Leventhal
and Wendee, goxphone
The Moon & the Sun share the sky when both up
in daylight, Hisa tells Emily

Emily Leventhal went outside & said "stars"
She insisted on seeing C before moonrise.

Beautiful Moonrise at 19:40; Wendee & I watched
it from inside the front room. Earlier, outdoors,
CN3 with Minerva $0^h 30^m W$.

M3. Later M31, M33.

During all this, I listened to the 1st Bush-Kerry
debate on radio.

CN3j prep with Clyde

CN3 bgh with Hyperion Genie-Pearl Moon,
sunset over Gisuim.

14226S. Fri October 1 / 0730-0750 / 10-3 / Jarnac / SS2 w/
Mintaka 2, 4, 1 prom; CN3j Clyde close, CN3 bgh close.

14227E2 Fri Oct 1 / 2300-0000 int / 5 / New Orleans.
UNO then near Uncle Jack's old place /
Wendee, and members of the Pontchartrain
astronomical Society / Gibbous Moon.

14228E Sun Oct 3 / 1900-0000 / 10-7 / Jarmac / Wendee /
CN3 1^hW. M107 CN3c Pegasus.
CN3 bgh Hyperion
CN3J with Clyde prep for Kreutz search.

14229S. Mon Oct 4 / 0240-1500 int / 10 / Jarmac / Wendee /
CN3J ending. #21 image last one contains
satellite.

CN3 bgh closed also.
SS2 with Minitaka 1, 4 + 7 prominences,
all loop-shaped + soft.

14230EM 1845 to 0100 / 10-7 / Jarmac / Wendee,
Toila + Tom, Rick, Ely + John Kalas, S + T Tour /
Skywatcher 2. CN3 bgh Hyperion, CN3J prep

14231S. Tues Oct 5 / 9-10 / 10 / Jarmac /
SS2 with Minitaka 2, 6, 5 prom.
CN3J close with Clyde

14232E2 2000-0000 / 10-7 / Jarmac /
CN3 bgh Hyperion CN3k Clyde area 40.
CN3J Clyde prep

14233S Wed Oct 6 / 9:30-10 / 10 / Jarmac / SS2
with Minitaka 6, 5 + 5 prom.

10-04

14234 EM2 2000 to 0100/10/Jarmac/-1
CN3 bght Hyperion CN3 R11-CV1 Area 40 Clyde
CN3; prep.

14235 Thursday October 7/9-10/10/Jarmac/
CN3; close SS2 w/ Mintaka 2, 4 + 1p.

14236 EM2 ~~10/10~~ ^{7 Oct} 1900 all the way to 0230/10/Jarmac/
CN3 bght Hyperion CN3 R11-CV1 Area
CN3; prep Clyde - Hyperion. 31.
CN3d 1^h ~~W.~~

L293 CN3c NGC 6637 (cf 14191 AN3)
found orig. by Wendee = M69.

L294 NGC 6652 M=8.9 D=3.4 Sgr GC
both above clusters are just SE of
"bright" stars and are close
together to each other.

L449 NGC 6553 2.3, 7.9 Sgr GC
mottled, diffuse, uniquely soft

L94 same NGC 6723 7.3, 10 Sgr GC highly resolved

L295 field 2 NGC 6726 ?, 1.9 CrA ref Neb, in 2
parts. beautiful

CN3 Comet Tucker spotted visually
near br. star in Aries. (BCAie).

14237 S Friday, October 8/0840 to 0900/10/Jarmac/
CN3; closeup Kreutz w/ Clyde.
SS2 with Mintaka ~~at~~ O!, 14 prominences.

14238 S2 1700-1715/10/Jarmac/Cordelia/SS2:0, 9
prominences.

14239AN3. October 8/1900-0530/10-7/Jarnac/
CN3 bgh Hyperion.
CN3 RII - CN1 Area 101 with Clyde.
CN3c photos of catalogue obj. with Clyde
CN3d, CN3 4^h 05^m W, E (3^h 15^m E ~~was~~ of it was E)
CN3c. 2683 Lynx VEG Dusty, br. core L9.3
M9.8 D=9.0'
CMA OC

L126 NGC 2359 ~~Haffner~~ b M 9.2 D=3.9 (NS 199)
at 718.8 -13 12.
2362 CMA OC bright foreground*
cluster is Y-shaped.

14240SP Oct 9, 2004/1500-1510/10/Jarnac/Cordelia/
SS2 O, 6 prominences.

14241E2 1920-2330/10/Jarnac/Clyde/-/
CN3c Catalogue pictures with Clyde. Took a
set of about 15, including Nanette's River.

14242S. October 10/1915-1030/10-3/Jarnac/-/
SS2 with Mintaka O, 5 prom.

14243S2 1430-1500/10-3/Jarnac/-/SS2 O, 5p
with Cordelia.

14244E3 1920-2330/10-3 (lightning)/Jarnac/
Wendee/CN3c Catalogue. 20 objects
photographed, including M31, NGC 253
and 6637 (which Wendee had found) and
others. Some nice pictures.

10-04

14245M4 0300-0400/3/Jamaica/-1 CN3d with
Miranda 30^mE. Wenda + Isaac
Venus to thin crescent Moon.

14246M5 0540 to 0600/3-F/ Aboard American Flight to
Dallas | The Moon + Venus with puffy layer of
cumulus clouds that the plane was climbing
through. Journey to - hopefully - eclipse # 66
begins.

14247SE Wednesday, October 13, 2004/1500-2345 |
Summit of Mauna Kea, Hawaii, 14,796' altitude |
Steve O'Meara, Gary Fujihara from IFA, Armas
Meyers, and other people. We were at ~13,500'.
Partial Eclipse of the Sun,
CN3a 60m W.

L298 CN3c NGC 6584 $M=8.6$ $D=7.9'$

Shapley 8 - concentrated.

L299

NGC 6325-6293 or M19.

We arrived at the mid-level facility just
after 3, and after a wait to acclimatize, we
then headed up to the summit. The clouds
were almost up to the summit, but the Sun
was visible. A cloud passed + grew between us
and the Sun and threatened to block first
etc but it didn't. I called Wenda and
told her what was happening, and then,
just after I noticed first etc I did a 5
minute talk and read from my blue book -
for the 100th time.

The eclipse was the most dramatic

14247SE partial I've ever seen. It was wonderful. cont'd. There was one small spot that before sunset appeared green on one side & red on the other. As the setting sun passed through clouds it was incredibly beautiful.

A SOLAR SAHAR CYCLE

Julian Calendar		Gregorian Calendar	
1049—Mar 6 p	1445—Oct 30 t	1590—Feb 4 t	2004—Oct 14 p
1067—Mar 17 p	1463—Nov 11 t	1608—Feb 16 t	2022—Oct 25 p
1085—Mar 28 p	1481—Nov 21 t	1626—Feb 26 t	2040—Nov 4 p
1103—Apr 8 p	1499—Dec 2 t	1644—Mar 8 t	2058—Nov 16 p
1121—Apr 18 p	1517—Dec 13 t	1662—Mar 20 t	2076—Nov 26 p
1139—Apr 30 p	1535—Dec 24 t	1680—Mar 30 t	2094—Dec 7 p
1157—May 10 p	1554—Jan 3 t	1698—Apr 10 t	2112—Dec 19 p
1175—May 21 p	1572—Jan 15 t	1716—Apr 22 t	2130—Dec 30 p
1193—Jun 1 p		1734—May 3 t	2149—Jan 9 p
1211—Jun 12 t		1752—May 13 t	
1229—Jun 22 t		1770—May 25 t	
1247—Jul 4 t		1788—Jun 4 t	
1265—Jul 14 t		1806—Jun 16 t	
1283—Jul 25 t		1824—Jun 26 t	
1301—Aug 5 t			
1319—Aug 16 t			
1337—Aug 26 t			
1355—Sep 7 t			
1373—Sep 17 t			
1391—Sep 28 t			
1409—Oct 9 t			
1427—Oct 20 t			

← today's eclipse.

This is the book I bought on July 31, 1964. It was used today as part of my reading. The eclipsed Sun has no magnification. It appeared between parts of Cupid's mount. After sunset there was a nice dinner and then I set up to comet hunt. It was difficult - the encoders didn't work and it was very cold and little air. So finally I began the hour and I somehow managed to complete it! Steve helped me identify the CN3c objects. M3C 6584 in Telescopium! Home to Steve's by 11:35. Earlier we stopped at the midlevel visitor center.

10-04

14247SE to see the night sky star party, and I saw Uranus
concl. through the new Meade 16-inch. I was still
cold when we got home. All in all, a very very
successful observing session. It was a
very good day.

The best memory: Spotting first contact,
seeing the incredibly steady image of the
progress of the eclipse - just above the
clouds the image was a 9! It was
also so dramatic to see the crescent Sun
merge with the cloud tops. And the naked-
eye projection on the 1964 book with the blue
background of the lecture book.

I got upset when I couldn't get the encoders
to work, but Steve quickly reminded me
what I was here for, & I enjoyed the hour-
long comet hunt! I love these events, I
love Wendee, and I'm glad she got to
participate in it, if even from a distance.

14248S. Thurs Oct 14/1500-1515/10-F1. ~~Star~~ ^{Star} ~~from~~ ^{from} aboard
plane from Hilo 1-1 view of Mauna Kea's
buildings just above the clouds, like
yesterday.

14249S2 Friday Oct 15/1500-1530/3/110 wof Phoenix/
Cupid/Tim Hunter/SS2 with Cupid 1, 15.
Excellent seeing.

14250E3 2030-2215/3/ Yucca Valley/Tim, Starry Night
Festival 1 - Skywatcher 2. with Cupid. & Tim's
binocs. M31, 32, 10, 33, Db Cl.

14251 E. October 16/1940-2200/10 but very windy! Starry
~~14251~~ Night Festival / Tim, Wally Pacholka, (from
Montreal in early 1960s, friend w/ Carl Jorgensen)
Wayne^M Galaxy Johnson, others!
CN3 with Cupid, although encoders do not
work, 1^h East and North (to stay out of
wind) CN3c Owl Cluster. found in search.
Skywatcher-2 M31, D64, Owl Cluster.

14252 EM Sun Oct 17/2300-0100/3-F/Jarnac/
difficult prep for CN3j with Clyde.

14253 S. Monday, Oct 18/0900-0920/3-1/Jarnac/
SS2 with Mintaka. Close of CN3j.

14254^E 1400-2300/3/Jarnac/Wendee, Tom Ghinas,
History Channel - Workaholic Productions/
Filming for several hours. Prep for
CN3j.

14255 M3 0500-0530/9-10/Jarnac-1/
CN3l with Miranda 1^h 15^m
CN3j with Clyde, Krentz Search.

14256^{EM} Tuesday, Oct 19/1400-0130/3-7-m/Jarnac/
Picture taking with Keith and with
Barry - for Hawrey lawyer advertisement.
CN3c - photo of M31 10sec + 5sec at
Wendee's suggestion. M42 also.
Showed Keith M31. Minerva now has computer.

14257 M2 4-5.30/10/Jarnac/CN3, 3d Minerva + Miranda
1^h 15^m E. CN3j + Clyde - Krentz Search.

10-04

142585 Wednesday, Oct 20 / 1000 to 1800 / 3 / Jarnac / Wendee, Tom, Barry from Howrey firm. SS2 3, 32, + 4 prominences.

Photographs of me at old South site near 120 Carey on Houghton. Minerva is connected to a laptop, and underneath it, our pump is improving the vacuum for Hyperion's camera, + later for Obadiak's CCD.

14259ER 1900-0000 / 3-F / Jarnac / Hyperion, Clyde / Tom, Wendee / CMP-1 Orionids. Did not see any meteor tonight, due to lots of clouds + intermittent observing. However, yesterday morning (1425742) while comet hunting I came upon Jupiter just as a faint (6 or 7) Orionid appeared just next to Jupiter and sped off. For Jove, from forth the sphere of stars Chapman I had 15:558.

Thurs Oct 21
14260E 2100-2200 / 0-1 / Jarnac / Tim Hunter, Tom Gelinias, Scott Roberts, Admiral Conrad Lautenbacher, undersecretary of commerce + administrator of NOAA, Wendee. 1 View of Island J3.

142615 Fri 22 / 0755-0810 / 3-F / Jarnac / Mintaka, Echo / Wendee, Tom SS2 with Echo 3, 29.

426252 Friday, Oct 22/5:15-555 MDT / 3/
Las Cruces Si Simon restaurant, then
Patsy's house / Patsy, Wendee, Laura
Wright, ✓

Mira: Moon waxing gibbous phase.

4263 AN2 1830 MDT to 0550 MST / 7-m-10/
Las Cruces to Tucson, then Vail, Tarnac,
then plane. / Wendee, Scott Roberts,
Tom Glujas / CN3 bgh Hyperion test.
CN3c photograph of Caroline Herschel's
galaxy NGC 2530

CN3j with Clyde, Kreutz search.

CN3d with Miranda, 0h30m E.

intermittent observing at Tarnac

2200-0000, quick views then 0300-0415.

Spotted one Orionid at 0404 in NW,

and Scotty saw one Orionid ~2300 in E.

finally, American 1512 took off
for Dallas in a brightening sky.

^S4264E. Oct 24, ²³1900-2200 ¹⁻⁰ / Huntsville, Alabama -
Von Braun Astronomical Society Observatory /
members + guests / Astronomy Day.
Skywatcher 2 - telescope viewing + lecture.

4265E Oct 24/25 / 1900-2100 / 3 / Huntsville / Von Braun
Astronomical Society / small telescope /
M57, D64. Pleasant evening.

10-04

14266S Oct 25/1500-1540/7/ Redstone Arsenal /
Mitzi Adams / Solar Magnetograph Obser-
vatory, Redstone Test site.

14267LR 2330-0030int / Jarnac.

14268R Oct 26.7 3-F / Jarnac / @ SS2 4, 75+2.

+14269^S October 27 / 1630 to 0100 / 7-2-3 - very windy /
Kitt Peak National Observatory, Wendee, Grant
Connie Walker, Kitt Peak PIO officials & visitors. /
Echo, Mira / Total Eclipse of the Moon. After
my presentation, I went up to be interviewed for
CN 13. Then I already saw the penumbral
eclipse which turned to a partial during
the 2nd interview. Totality was really
very nice - L = 2 or 2 1/2 during the long period
of totality. GAP-1 / early Tawid low in East

- 1) While we were watching it ^{that night} at KPO, Peter Jedicke saw it from London.
- 2) Tom G + Richard were clouded out in Toronto.
- 3) Leo saw it from Kingston.
- 4) Mom saw it from her place.
- 5) Joyce + Gerry saw the end of it from Montreal -
at midnight ^{5:15 L saw final edge.}
- 6) Gerry saw it from Montreal.
- 7) Lisa + Emily saw it from S of Phoenix.
- 8) Summer saw it from Albuquerque just after they
blasted their pumpkin! "Look how orange Cis!" Summer said
- 9) Matthew saw it from Albuquerque: "Cool!"
- 10) Boston won World Series & they celebrated by watching game.

Set up CN 3j.

14270S Thursday Oct 28. 1000-1100 / 3-F / Jarnac /
Putting away from CN3J. Camera not working.
Rained last night.

14271E2 Friday, Oct. 29. / 2130-2330 / 0-F / Jarnac /
Wendee, Dean. Dean took off camera.
and put on his camera.

14272S Saturday Oct 30. / 1600-1745 / 10 / Jarnac / Wendee,
Dean, Ken / Mintaka SS2 Clyde repair +
cleaning of optics from rain on 27/28.

14273E2 2300-0000.

14274S: Sunday, October 31

14275E Sunday / 2300-0000 / 10 / Jarnac / Prep for
CN3J.

14276S Monday, November 1, 2004 / 1015-1020 / 10 /
Jarnac / Mintaka / SS2 4, 43 + 2 prominences,
CN3J put away.

14277E2 2000 to 1900 to 2130 / 10-7 / Jarnac /
CN3 w / Minerva
RD24 Tom + I fixed the focus machine
on Esther! And took photo of M42.

14278S Tuesday Nov 2 / 10-F / Jarnac / SS2 with
Mintaka.

14279E2 1900-2200 / 10 / Jarnac / Minerva, Esther / CN3J sat
• CN3 30m RD24 with Esther. M15 3 colors.

142803 Wed November 3/9: ~~20~~¹⁵-1000/10 | Jarnac | Wendee | 11-04
Mintaka / SS 24, 47 + 4 prominences
CN3J put away!

14280^ME2 1800-0040/10-7-10 | Jarnac, Starizona, then
Jarnac/Wendee, Tom from Toronto, and Jan Dean
+ Larry + Scott + others |
Cupid CN3a 5min. W.
Ether - Tom got it focusing again,
picture of M42 but didn't save it -
poor seeing.
Clyde CN3j set up.

142825 Thurs Nov 4/0840-0915/10 | Jarnac / - / SS2 with
Mintaka 4, 56 + 4 prominences - one really big.

1428352 1600-1700/10 | Jarnac / SS2 with Cordelia.
4, 56 + 4 - one even bigger!!

14284E3 1830 - 0000 int / 10-3 | Jarnac / CN3 with
Munera 30^m W. NGC 6709. just like 20
years ago!

14285E Friday, Nov 5/ 2330-0000/1-1 | Jarnac / Beagle.

14286E Saturday 6/ 2300-0000/11 | Jarnac / Beagle.

14287E Sunday 7/ 1900-0000 int / 11 | Wendee, Beagle Plusora |
- Aurora in Kansas - call from Vic Winter. Cloudy
here though.

14288M Monday 8/0100-0645/10/Jarmaal/Carolyn + Wendee
CN3 + CN3d 3h with Miranda + Minerva
CN3j with Clyde.
CN3e with Clyde TV Corvi begins new season.
CN3 had a busy night.

RD2 with Esther. M79 in 3 colors + clear.

Also, with Lohart + Paula's camera,
Moon, Venus + Jupiter in conjunction.

Perfect night - no wind but high humidity.

Bldg fire but chain tangled on closing.

CN3c

M

D

L300 NGC 3226 11.4 3.1 Leo, RG close companion
really neat field, striking

L65,66 M84/6 "The Eyes"

L179 NGC 4535 10.0 6.9 Virgo RG

L301 NGC 2670 7.8 8.5 Vela OC -
looks like a bow and arrow!

14289S Tues 9/1030-1100/10/Jarmaal/Carolyn, Wendee
SS2 4 prominences, 1, 30~ spots
(small but dense)

14290E2 2300-0000/10/Jarmaal/Wendee

CN3j setup CN3e setup

later, Wendee + Carolyn saw Venus, Jupiter,
+ Moon near dawn.

14291S Wed 10/0930-1030/10-3/Jarmaal/Wendee +
Carolyn/ SS2 w Mintaka 1, 17 + 4 small prom.
Pic of Carolyn + Hyperion. Putting Clyde
to bed after successful CN3j + CN3e TV.

11-04

14292M2 0000-0500, spot of CST/American 945 to Santiago from Dallas. Saw Leo stright up, at equator, then α , Venus, Jupiter (Clayt), Venus + *s through Cupid + window looking like starburst patterns, Carolyn + I enjoyed the naked eye view of our special planet before Venus rose.

14293E 11/2300-2315/2 Coyhaique/a couple of stars through clouds.

14294SE. Saturday, November 13/0900 to 2200/0-1-2-1

Glacier Coyhaique, Chile.
Iceberg photos + glacier photos. Also view of crescent α in evening in break in clouds.

14295M2 0030-0110/2-1 Coyhaique, Chile / - some stars but still not enough to identify.

*14296M3 0315-0440/3/ Coyhaique, Chile / Cupid /

CN 3a 30 minutes SE. before clouds came in.

Very nice sky despite being in a hotel in town.

CN 3c ^{L302} 3114 4.2 34 Car OC Bst + Scattered.

~~8+32 9.2~~

L3034349 7.4 15 Crux OC bright, scattered

clearly faint, broad ^{1st w of conjugated} IC 2714? 8.0 11 Carina OC Condensed, rich, faint

L3044103 7.4 6.9 Crux OC Bst + Scattered.

L101 3766 5.3 11 Centaurus OC Rich

L305 4755 gorgeous

L306 4755 4.2 9.5 Jewel Crux OC

Donpe Main Few bst + in form of an A faint *s + mostly on left side in of A.

L3062808 6.3 13 Carina GC Highly resolved

Great Night; Cupid's encoders working perfectly!

clearly
L312
Melotte
105

prob bright +
in field
to N.
that
was
Mel 105.

14297S 14 November, Sunday / 1045-1100 / 3 / Coyhaique,
Chile / Chile Sun session from hotel room
+ closed window: SS2 with Cupid 3, 10.

14298E2 2130-2145 / 3 / Coyhaique / Cupid / John Dobson,
Donna, Francisco Mardonez / Moon.

14299M3 0200-0215 / 1 / Coyhaique / - / Francisco,
Donna Smith.

14300S 15 November, Monday / 1030-1100 / 3 / Coyhaique,
at the El Relaj hotel's beautiful back yard &
view / Carolyn Shoemaker, others /
SS2 with Cupid. 3, 26.

14301M2 0000-0015 / 2-0 / Coyhaique, El Relaj hotel /
2 stars, soft rain.

14302S 16 November / 0015-¹⁸0000 int / Coyhaique Carolyn,
meeting participants: (A) Looking through
Cupid's eyepiece at ~~an~~ - upside down in
placement - at original film of discovery of
S-L-9. (B) in backyard of El Relaj / SS2 in
Cupid ~~to~~ - 4, 18.

14303E2 2300-2315 / 2-1 / Coyhaique / Banquet /
Achernar visible almost overhead.

14304M3 0200-0230 / 2-1 / El Relaj / - / couple of stars,
search for Cupid's encoder cord.

143055. Wed 17 November / 0815-0830 / 3-F / ~~Jaime~~ Fl Reloj / 11-04
Cupid / SS2 5,

1430652 0900-1000 / 3-F / Coyhaique Meeting / ~50 people /
Cupid / SS2.

1430753 1400-1500 / 3 / on plane / ~~Obs.~~ OSORNO volcano
Active Volcano ~~star~~ steaming.

14308EM4 +02200-0130 / 1-3 - almost 10 / Oscar's
special site near Vicuña, Chile / Cupid / Oscar,
MINNELL, Carolyn, (No-Behive)
Little fl Southern Pleiades + M45 same elevation
NGC 104 IC 2602

M42 NGC 3372 \nearrow Car
The sky was so cloudy but we waited in the mys-
tical night air until ~~at~~ IC 2602 was visible through-
out at the S. horizon. Then it cleared! (L102 = 2602)

14309M5 0215-0400 / 10-9 / Hosteria de Vicuña /
CN3a with Cupid 30m. E.

#L 302	CN3a	NGC 3372	2.5	6.3	13	Southern Pleiades
	L306	808	6.3	13	Carina GC	
	L308	3324	6.7	15		

Indeed, also L308 3324 6.7 15 Carina Neb? (OC)

CMP-1 Leonids: 1 sporadic, 1 Leonid
2nd mag slow 4th mag.

143108 Thursday 18 November / 0955-1015 / 10 / Hosteria de Vicuña /
Cupid / SS2 3, 10.

1431152 1130-0500 / 10 / Cerro Tololo Inter-american

- 14311S2 concluded. Observatory. We are about had a good ride & visited the following telescopes:
- 1) The Blanco 4-meter. Beautiful scope. We sat in the Cassegrain Cage!
 - 2) The Curtis 24" Schmidt. First light was on May 1, 1967.
 - 3) Bart Bok's 1.5 meter telescope.
 - 4) Gemini South - 8 meter telescope w/ adaptive ^{optics}
 - 5) SOAR - 4 meter in test, also w/ adaptive optics.

14312EM. 2200-0400/7-m - mostly 10/ Mammallica Observatory, then Hosteria de Vicuña. PART A: Mammallica Observatory. Duechue, Chile. NGC 104, 47 Tuc rich colour.

L310. NGC 2070 Tarantula
This 16" by Ricardo Gonzalez is superb. Really excellent!

L309 ~~LS~~ NGC 1316 galaxy. Elliptical gal w/ dust lanes - maybe ^{centralized a spiral.}
Meade 12 NGC 55 Beautiful ~~low~~ edge-on galaxy

L287 NGC 1365 Barred spiral
L105 NGC 362 brilliant globular

L312 Part B. Hotel Hosteria de Vicuña.
Mel 105 and IC 2714 from 14296M3 ~~contained~~ 1.1 No-Mel. 105 was CN3a 30min ~~E+S~~ South.

L105 CN3c 362 6.6 12 Tucana GC Highly resolved. beautiful.

*L313 IC 4499 10.6 7.4 Apus GC $\circ \circ$
Very faint but spotted 4 times! Faintest nonstellar thing ever spotted with Cupid.

11-04

This was a great session. I especially enjoyed the experience of finding the barely visible C 4499. So distant, faint and diffuse, & Cupid got it with good optics & accurate encoders.

14313S 0940-0955/10/Hosteriade Vicuña, Vicuña, Chile / -1 Cupid / SS2 2, 4.

14314E 2130-2145/7/Santiago airport / Moon seen with Carolyn, John Dobson, Hector, and Donna.

14315EM 2350-0500 int / Flight from Santiago to Dallas / Carolyn / for RD-24. Pictures taken of Moon from plane also picture of Air Force 1 as we passed it parked on the taxiway.

14316SE Saturday 20/0 1230-1800 int / 21 JARNAC / Carolyn, Matthew, Summer, Mark & Vannette, David & Lisa, Emily, Wendee / Moon through Apollot Echo. Webcam pics in J1 of Summer & Matthew.

14317S Sunday, Nov 22 / 1300-1500 / 3 / Jarnac / Mark, Vanessa, Summer & Matthew / SS2 with Mintaka - 2, 5 + 3 prominences. Pics through webcam of children. Tour of J1, J3, J2 and Wendee showed them J4.

14318S Tuesday 23/3 / Jarnac / Cordelia / SS2 2, 7, 8p.

14319M Monday 24/4.30-4.45 / 3-2 / Jarnac. Too cloudy to set up.

143199, Wednesday 24 November / 1500-1530 /
10 / Jarnac / - / SS2 with Cordelia

14321E2 1830 to 2330 int / 7-m / Jarnac / - /
working on Obadiah.

14322M3 0430 to 0615 / 7-m / Jarnac / - /
CN3 30m E with Minerva
CN3 Final Kreutz search.

14323S Thurs 25 / 1500-1615 / 10 / Jarnac / Wendee
Sitting outdoors in the Sun; we both have
colds. Then SS2 with Cordelia 3, 17 + 5 prom.

14324S Fri 26 / 1515-1630 / 10 / Jarnac / Wendee
Sitting outdoors; then SS2 with Cordelia.
3, 9 + 5 prominences.

14325S Sat 27 / 1500-1630 / 3 / Jarnac / Wendee
Sitting outdoors then SS2 with Cordelia
3, 9 + 6 prom.

14326EP Mon 29 / 2000-2015 / 7 / Jarnac / Wendee
sick. We both have colds. Wendee
pointed out the beauty of the rising gibbous Moon.

14327E Tues 30 / ~~1915-193~~ ~~1900~~ 1800 to 1935 / 10 / Jarnac /
Wendee / Interview with Mike Hood about
his collection of Quasars. Then we set up
Cupid to study M45.
Serial # 01-2-11000-BB
Yr Zerodur #

12-04

Tonight during this session I quoted from my
blue pocket Shakespeare the Romeo & Juliet.
Come, gentle night, come, loving, black-
brow'd night,
Give me my Romeo; and, when he shall die,
Take him and cut him out in little stars,
And he will make the face of heaven so fine,
That all the world will be in love with night,
And pay no worship to the garish sun.
RJ 3, 2, 20-25.

14328S Friday, December 3/1200-1300/3/Starizona/
Dean/SS2 3, 8 + 8 beautiful prominences.

14329S Tuesday, December 7/1330-1430/ The Cincinnati
Observatory tour, with Wenda and the observa-
tory staff, John Ventre and Dean Regier.

14330E2 2200-0000/1-2-1/ The Cincinnati Observatory 1
View of the Comet Hunting dome. A building built
especially for comet hunting.



- 14331E Thursday Wednesday, December 8 / 2300-0000 / 10 / Jarnac / CN3 by Hyperion, Gene-Pearl M42.
- 14332E Thursday, December 9 / 1830-0100 / 10 / Jarnac / David + Wendee
CN3 15m W with Miranda
CN3K11-CN1 Area 31 with Clyde
- 14333E Friday, December 10 / 1830 to 0000 int / 10 / Jarnac / CN3K11-CN1 Area 40.
- 14334M2 0430 to 0620 / 10 / Jarnac / - /
CN3 25 min with Miranda
CN3e TV Gw with Clyde.
Saturday, December 11.
- 14335E 1830 to 0000 / 10 / Jarnac / David and Marilyn Lurach, Wendee / Miranda, Apollo / Observed ~~M3~~, BCyg, M42, + Milky Way.
- 14336E Saturday Sunday, December 12 / 1745-1800 / 10 / Karkhner Caverns / Wendee, David + Marilyn Lurach / Shadow rising.
- 14337E2 1915 to 2315 / 10 / Jarnac / -
CN3K11-CN1 Area 40. cont.
CN3 15m W with Miranda.
- 14338E3 2315-2350 / 10 / Jarnac / The Beagle
CMP-1 by Geminids 10 ~~or~~ Geminid meteors,
2 fireballs.

12-04

*14339SE. Monday, December 13/1715-1900/10/Jarnac/
Cordelia - SS2 as sunsets.

☉ → spots - 2 prominences, 1 enormous one,
as follows:



14340E2 2115 to 2300/10/Jarnac/windy, M33 naked eye/
David Larach, David Levy, Marilyn Larach, Wendee
Levy/CMP-1 GEMINIDS. 70 meteors between
2135 and 2250.

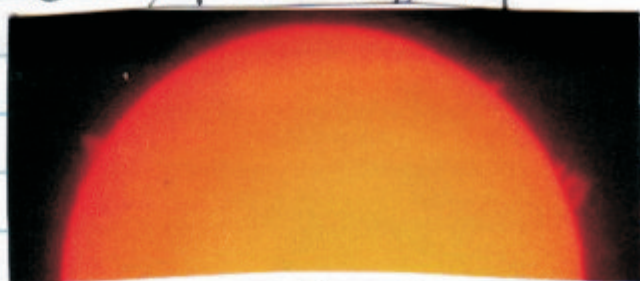
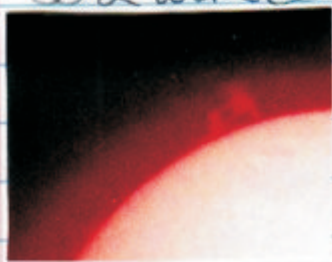
14341S Tuesday, Dec 14/1200 to 1400/10/Jarnac/David
Larach/

SS2 with Mintaka - 4 prominences. Big one is
smaller than yesterday with Cupid: 1, 6. David
looked at ☉ + at Mt. Fagin.

14342E2 2300-2315/10-WINDY/Jarnac/Beagle. Nice sky.
Echo-Moon.

F/14343M3 0530-0640/10/Jarnac/David + Marilyn Larach,
Wendee/@J1 CN3e with Clyde. CN3 15^m w/Miranda
Ⓚ in front: we all got to look at Saturn through
Echo, the same telescope that David and I used
at the Adirondack Science Camp.

14344B Wednesday December 15/1600-1630/10/Jarnac
SS2 with Cordelia 0, 1 beautiful prominence.



←14350 SAN

14345E12

2355 to 0015 / 10 / Jarnac / beautiful

sky.

+14346M3

0230-0630/10/Jarnac|-1

CN3d with Miranda 3^h 05^m E. + Minerva + Genio-Pearl-

Comet Machholz with G-PT naked eye (beardy).

CN3c +5466 9.1 10' Bootes G-C, loose and

L40

comet-like but mottled.

L315

5146

12.3

1.7

faint Virgo RG

easily found while searching.

*L232

+5068

10.0

7.1

Virgo gal very large

low surface brightness.

CN3 bgh Hyperion

CN3R11-CM1 area 377

CN3e TV Cro.

14347B

Thursday, Dec 16/1640-1700/3/Jarnac|-1

SS2 with Cordelia 1,3 9 prominences -

still one big one.

14348E2310

1830 to 2130/3 - WINDY/

JAVALWAS coffee shop/

Ed Phinney, Richard

, Wanda, etc / Moon.

Book signing.

14349E3

2310 to 0000/3/Jarnac / windy /

Boagle. One night

till start of CN3s.

12-04

*14350 SAN. Friday, December 17/1445 to 0630 / Clear,
windy; 10, then 7m, then 10 / Jarnac, Rita Ranch,
Jarnac

← a) SS2 with Corollaria. 1, 4 plus 6 prominences.

DAVID, IT WAS AN HONOR TO OBSERVE
WITH YOU ON THE ANNIVERSARY OF YOUR
FIRST NIGHT OF COMET HUNTING.

WITH LOVE FROM YOUR FRIENDS,

It was really nice to be out in the observatory on
this special night with both you & Scotty Roberts. Using
Miranda, I was treated to seeing Comet Machholz and the
great nebula in Orion. The dark lanes were so prominent I
was amazed. Thank you!

Wanda

b) Moon view from the Thai Cuisine restaurant.
Meal with Liz Kalas, Thom & Turila Park, & Scott
Roberts. Lens for Obadiah is complete & in our
possession.

c) Scotty, Wanda & I at J1 with new CCD system

d) CN3k II - CN1 - Area 31.

CN3d + CN3 with Miranda, Minerva & Pegasus.

3h E. Very windy.

CN3c: with Pegasus & Miranda
+ Minerva

CN3e TV Gw

CN3s - launch at *1:20. Purpose: Comet hunting as

Outreach, and observing at the Adirondack Science Camp

L316 NGC 1976 M42
L317 NGC 5838 Miranda
L318 NGC 2841 Minerva
L319 ESO 573-12 G. near TV
Crv.

12-04

- 14357E Wednesday, Dec 22/1900-2200/7/Jarnac/
Samwise testing. Not entirely satisfactory.
Autostar needs replacing - intermittent power.
Talked with Scott Roberts about it, also
talked with Nanners.
- 14358SP Thurs Dec 23 1715-1720/10/Wentworth Rd/
Wendee/ Beautiful green flash.
- 14359SP (before 14357) ^{wed 21} 1600-1610⁺/not from far from
Starizona, on La Cañada Rd. Comet like cloud
with sundog at the head. Wendee remarked
on its beauty. Sundog lasted just a few minutes
as we drove.
- 14360E Thursday Dec 23/2130-0000/7/Jarnac/Dean
did alignment tests on Clyde CCD. Also
CMP-1 Urside O. High wind + cold.
- 14361S Friday, December 24/1100-1600 110/Jarnac/Wendee,
Scotty Roberts + Nanners over the phone/ SS2 with
Mintaka 1, 2. 4 prominences. Samwise recom-
mended a change in the wiring in SE corner of J1,
which was accomplished.
- 14362EM2 2000 to 0100/7-m/Jarnac/-
CN3K11-CM1 Area 31 with Clyde.
CN3sb: Area near Rigel - test with Samwise.
- 14363S Saturday, December 25/1630-1700/10/Jarnac/
SS2 with Cordelia. 1, 3 + 3 fantastic prominences
cb 2004 12 25 a + b pics.

- 14364EMR December 25, 2004/1830-0030 | 7m/Jarnac/
CN3sb with Samwise - starting to get firmed.
Ariesfield
CN3K11-CN1 with Clyde - Area 31.
CMP1 Ursids.
Karon, Mendenhall, + Betty + Gargui, Wendee.
- 14365E December 26/2000-2130int | 3-1/Jarnac/
Skywatcher 2 - Moon with halo seen by Wendee,
Janie, Lisa, and Emily.
- 14366E December 27/2200-2230 | 2-F/Jarnac.
- 14367S. Dec 28/1700-1720/3-F | Madera Canyon,
Bogg Spring Trailhead/Wendee, The Beagle/
View + photo of mt top through Mira.
- 14368E 2230-2315/3/Jarnac/Wendee/picnic table.
Cand passing clouds.
- 14369S December 29/0915-0930/2/Jarnac/Mira/Wendee/
SS2 1, 5 poor seeing.
- *14370S2 1130-1200/3-2/Middlemarch Road, Peice, Az/
Wendee/SS2 with Mira, 6. Pictures 2004 12 29,
Pictures of Middlemarch sign + Middlemarch book,
+ sign + Mira during session.
- 14371E 2230-2300/3/Jarnac/Wendee/humid sky,
Moon. Out at table.

14372S Dec 30, 2004 / 1630-1715 / 3 / Saguaro National Park / Wende
lee, the Beagle / Sunday. Niceday. 01-05

14373E2 1755-2200 int / 3 / Jarnac / Boulderbean,
Samwise / - / CN3sb, RD-24 test.

14374SE Fri Dec 31 / 1430-~~1500~~²¹⁰⁰ / 3 - Jarnac / Sun, Moon, relax,

14375M^F 2300-0200 / 3 / Jarnac / Samwise, but mostly
Boulderbean / RD 24 pic of C. First pic of 2005.

14376S. January the month,

2005

Time begun: 10:30

ended 15:30 int

3 / City Park / Wendelee the Beagle / The moon
toward the West. Read Starlight Nights. (Also Jarnac)

Resolution to get to know C better

P 61 I spent many of those early nights in
wandering aimlessly about the Moon. I followed
the advancing sunlight all the way across her
face. I descended into craters by the score...
at home Also SS 2 with Mintaka, 15, 3 prom.

14377E2 2100-2300 int / 3 / Jarnac / Boulderbean main
tenance + testing.

14378M Jan 2 / 0435-0615 / 2-1 / Jarnac / Clyde / KMP
Quadrantids. 0 meteors.

14379S. Monday, Jan 3, 2005 / 1600-1615 / 3 / Jarnac / - /
SS2 with Cordelia 15, 4 prominences, poor seeing.

14380S Tues Jan 4 / 1015-1030 / 3 just before rain /
Jarnac / - Wendee.
SS2 with Echo 1, 9.

14381S Wed Jan 5 / 17 / Jarnac / SS2 w / Echo 0.

14382E. 2230-0100 / 10 / Jarnac / Miranda, Clyde / - /
CN3d with Miranda 5m.

CN3c L322 / C166 = Tomblough 3.

"That was Clyde's life," Patsy said to me
the next day.

L324 Tomblough 5.

C / Mactholy near M45.

Both Photos, through Clyde.

14383S Thu Jan 6 / 1000-1015 / 3 / Jarnac / - Wendee /
SS2 with Echo 0.

14384E 2 2230-2300 / 10-3 / Jarnac / The Beagle /
CMP, Late Quadrantids / sporadic 5th mag
C / Mactholy naked eye near M45.

14385S Fri 7 / 1530-1600 / 10 / Jarnac / SS2 w / Cordelia.

14386E Fri Jan 7 / 2130 to 2¹⁴⁵00 / 3 / U of A after TAAA
meeting and then Jarnac / Wendee / general
constellation observations. Then in obs 31.

This session allowed me to show Wendee
a few stars and some constellations after tonight's
monthly meeting of the Tucson Amateur Astron-
omy Association. What a privilege to work
with Wendee in this way.

01-05

*14387EM3 Friday, January 7/2230 to 0630/10/Jarnac/
Miranda, Minerva: CN3 3^h E.

Clyde: CN3.J Sun Ven even though field is
from November.

CN3c: Tombaugh 1 open cluster.

Tombaugh 2 open clusters.

Tombaugh 4 open clusters

NGC 5694

NGC

- Peltier's galaxy
although I am not yet sure why he recommends
it as Ω-like. I need to recheck with Min-
erwa.

ESO-

M45 & Comet Machholz pictures through Lothar & Paula's
camera.
CMP-17 meteors mostly from SE predawn.

14388S. Sat Jan 8/1600-1615/3/Jarnac/SS2.

14389E2 2000 to 0000/2-3/Jarnac/Wendee, Mario
Motta/M45 and Comet Machholz, Comoving N
from M45 on its way toward Algol.

14390EM Sunday, Jan 9/1/Jarnac/clouds.

14391EM Monday, January 10/2330 to 0100/2/Jarnac/
Apollo AND Minerva/ Tests with Meade
CCD. CN3 D^h 05^m.

CN3c NGC 457 ET cluster.

14392SS. Wed Jan 11/1500-1530~10/Jarnac/SS2 with Corobka.
3, 9 and 9 prom.

14393^SEM2 1900-0130/10/Jarnac/

CN3 15" with Minerva

CN3e TV Crw with Clyde.

CN3s test2 with Meade DST camera.

14394S Thursday, Jan. 13/1400 to 1700/3-1/Jarnac/Tus

Meade cameras now work with Boulder Bear
Esther's lens, and with Minerva & her computer.
Scott Roberts helped me through this. In town, photo-
graphed brilliant partial & halo.

14395E, Friday, January 14/2130 to 2315/7-8/Airport,

then our childrens' home in Albuquerque/
Mom commented on the Moon illusion. Large
over bldgs. Nanette told how Sam Matthew
said he could touch the Moon. At home, Mark
& I saw Comet Machholz naked eye & with
his binoculars. Also explained Algol, near
which the comet was passing. At end of the
session, I showed Wendee Comet Machholz
and Algol, naked eye.

14396E2 Sat Jan 15/22:1930-1945-17-F/Albuquerque,
our childrens' home/ -1 Mark, Nanette, Wendee/
Comet Machholz near Algol, naked eye.

14397S Sat Jan 15 before 14396/0700-0720/7/Pyramid
hotel in Albuquerque. Wendee pointed out the most
beautiful Earth's shadow $\sim 3^\circ$ in the northwest
at the horizon.

14398S. Sunday 16/0720-0735/3/Jarnac/Pyramid hotel in

01-05

Albuquerque. Wendee pointed out again the shadow, much less than yesterday morning, but there were some high clouds.

14399S2 Sunday, January 16/1200-1215/7/Albuquerque walk / Matthew + Summer, Wendee / The children saw the Moon. Summer pointed it out.

14400E3 2045-2200/8-m / Joe Vigil home / Kaia / Mom, Wendee, Nanette, Mark / We looked at Comet Machholz.
• Machholz
• B Persei
• Persei

also Saturn + Moon. Mark took a picture of the Moon.

*14401S 0705 to 0800 on Monday, January 17/7 / Pyramind Marriott hotel, Albuquerque / Wendee, Wendee and I were looking out the window at the Earth shadow low in the NW sky. Then I made a stepback, fell over a coffee table, swung around and hit a desk and fell on my right shoulder. There is motion in every direction except backward - that makes the muscles spasm and so causes a lot of pain.

14402S2 1730-1800/10 / Jarnee / Echo / Wendee / SS2
2, 29 spots.

14403E3 1955 to 0000/1-m / Jarnee / Clyde / CV3K11.

Photographed Comet Machholz near Algor at the eastern edge of Clyde's Stratum of galaxies. Got the comet, a tumbling satellite, and my friend, Clyde's galaxies in one picture. Also took some pics near ~~the~~ ^{Andromedae} at center of stratum. Also started CN3K11-CV1 Area 372. CN3 High Hyperion.

14404M 0450 to 0630/10+ / Jarnac / CN3K11-CV1 completed Area 377x4, and CN3e TV Gr. CN3d Mercuria, 1^h05^mE under crisp sky. @ VSO | RGB 5.9 6.5 visible easily naked eye

14405M. Feb 18 January, 2005 / 4:50 to 0630/10 / Jarnac / Mercuria CN3K11 - CN3e TV Gr 18.5 ^{Alpharatz field} CN3 1^h

14406S 10 - Jarnac Echo / SS2.

14407E 23 January / 1900 - 2300 / 3 / Jarnac / Photo of Clyde Tombaugh's Great Stratum near Andromedae.

14408E. 12000-0000 / 3 / Jarnac / Comet Machholz near Algor with C/Machholz in field.

14409EM 28 January, 2005 / 2 / Jarnac / The Beagle / ~~CN3~~ CN1 and Milky Way and Milky Way 4. A nice check for novae. 12100-0100. CN3K11 Field 71.

14410S 29 Jan 2005. Echo / SS2.

01-25

14411E2 Saturday, January 29, 2005/1800 to 0000/
3-f/Jarnac/Wendee, Mom, Ed/CN3, VSO-1
MINIMUM of A404 observed. The star β Per
was going into minimum this afternoon, so
an h/a out when night fell. Then we all
saw it! Then before bed we saw it again
at maximum. Mom & Wendee confirmed it
both times. A very instructive observing
experience. CN3e TVGw 18.5.

14412EM Feb/1/1145pm-0030am/3/Jarnac/Clyde CN3e TVGw-18.5.

*144B February 2/1150 to 0130/10/Jarnac/Clyde/-/
CN3e TVGw. As I went outdoors to
get a QUICK reading, I suddenly saw that
TVGw was just entering outburst. I made
the decision to continue monitoring it. I have
a cold, and Wendee wasn't about to let me
observe much, so I arranged with Clyde
to photograph TVGw - 3x every 1/2 hour -
3 because the wind was so strong. Wow!

14413S February 3/0830 to 0900/1-/Jarnac/Clyde
shutdown. Cloudy, so no Sun.

*1441532 1600-1620/3/Jarnac/Starr/Jona/Echo/Wendee,
Daan, others/SS2 with Echo 1, 2. 1 prom.
Echo's first session with a Coronado Bro-
nial Solar Telescope!

14416E3 2330-0100 → /10/Jarnac/Clyde/-/
CN3e TVGw in outburst. Set Clyde for
another night of TVGw-ing. Star didn't
change tonight though.

14418E3. 0830-0900/113 Jarnac/Clyde shutdown.
Tried to do Echo or Sun but cloudy.

14418E2 2200 to 2300 CST/9-1 Mahoney State Park,
Ashland, Nebraska! Nice clear sky, sat on
porch while talking on phone with Wendee.


14419E3 Saturday, February 5/07:20 am to 07:35 CST/
10-9/ beautiful sunrise over Platte River
and State Park.

14420E3 Sunday, February 6/07:20-07:40/0/
Mahoney State Park / rain.

14421E2A 1900 to 2330/10-3/Jarnac/Clyde/
CN3e TV Corvi. TV Corvi going down.
Also photo of Wendee's galaxy NGC 3055.
It has a problem with its arm.

*14422E5E Monday, February 7/1530 to 2030/
3/Jarnac, then our prospective new site
SE of Pearce, Arizona / Dale + Linda
Wendee / lot It was cloudy when we went
out to wait for Dale, but clearing at the site.
So with Echo & we observed The Sun.
SS2 2, 2 + 1 prominence. Nice use for Echo at
newsite.

When the sky got dark, it was still
some cloudy, but we viewed Saturn.

And M42.  M42 + circle of nebulosity
behind trapezium + V361 Orions.

02-05

14423E, Tuesday, February 8/ 2100 to 2330/3/Jarnac/
Clyde/-/CN3c NGC 3 and the Double
Cluster in Ursa Major - actually one quasar
imaged by a gravitational lens.

14424S Saturday, February 12, 2005/0850-0905/1/
Jarnac. SS2 1, 2. 1p.

*14425S2 Sunday 2:00 to 11:00 pm/1, 2 - /Jarnac/
Project Astrogroup at the Jarnac Observatory/
Echo/Sunset - just before sunset the Sun
peeped through the clouds so that most
people saw either the spot or the a small
prominence.

*14426AN Sunday February 13/ 2100 to 0530/10-3-2
Jarnac/Miranda, Hyperion/-/Wendee, Rolf
and Linda. On this Valentine's Day morning Rolf +
Linda and Wendee and I attempted to see the 8 billion
light year distance quasar Q0957+56A/B.
We had to wait for clouds to pass by. Because
the galaxy NGC 3079 almost points to it, we all
had an easy time seeing at least the field of the
QSO, with the help of Miranda and an interven-
ing galaxy that acts as a gravitational lens.
Seeing the QSO itself was a challenge in Miranda
(the 16-inch F/5 refl at 156 power) but once we got
the pattern of stars that surrounded it right, it
wasn't too hard.

We then went to Tom Clinics' Hyperion. I
used a 7mm Nagler - ~~the~~ 726x! but I had to

74426 AM concluded -- figure out how to rewire the
Telescope to bypass Tom's Internet switch
The two imagers of the DSO had a separation
of 6.3 arcseconds.

When I did see the DSO at the limit of
visibility, it appeared and disappeared in
brief glimpses - many times, but for me whenever
the DSO did appear it always gave the
appearance of 2 closely spaced but clearly
separate objects - two binned imagers of the same
DSO.

CN3 - 30m - tried the 3 hrs but clouds,
DSO, + Dale's light limited it somewhat.

14427E Wednesday, February 16/ 2300-2330 / clouds,
14428E Thurs 17/ 2000-2100 / 2 / Costland's telescopes / W. + R. Wheeler,
14429M Saturday Feb 19/ 20 / 0600-0615 / 1 / Syracuse /
Finally a clear morning, saw a Gradium
Flare.

14430S Sunday, February 20 / 1800-1815 / 3 / Jarnac /
Wendee, Rolf + Linda / SS 2, 1, 2 + 1 prominence.

14431ER 2210 - 2330 T I R E D FROM TRAVEL /
3 / Jarnac / RD 24 - Jupiter with webcam.
Oh yes these webcams work well. / with Rolf,
Linda + Wendee. We worked through poor
seeing to get some images of Jupiter,
but none of them really were good. CN3 at VUw

14432S Monday, February 21 / 1600-1630 / 3 / Jarnac / Costland
at SS 2 - 1/2 + 2 prominences.

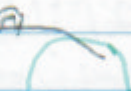
02-05

14433E2 1810 to 1930 / 10-3-2 / Wines Observatory / Wendee,
Rolf, Linda, Mark + Pat Trueblood / View of
observatory.

14434E3 3 / Jarnac / 2245-2345 / CN3e.

14434S
41 Tuesday, 22 / 1600 to 1630 / 3 / Jarnac / Wendee /
SS2 with Cordelia, O spots, 2 prominences.

14435E2^M 2300 to 0100 / 3 / Jarnac / Beagle walk,
then RD 24 with Esther - Moon + Jupiter.
CN3e TV Cam - C14.8

14436SE Wed 23 / 1700-1830 / 3 / Jarnac / Wendee, Mark
Trueblood / SS2 with Cordelia, O, 11 promin-
ences. One loop. Moonrise full ☾.
huge filament all across ☉ 

14437E2 2300 to 2320 / 2 / Jarnac / Wendee, the Beagle /
Property walk. Full ☾ beaming through clouds,
its play of light playing upon the land as a
musical light show in slow motion.

14438S Thursday 23 February / 1730-1750 / 10-3 / Jarnac /
Wendee / SS2 with Cordelia / O spots - clear.
But 14 prominences all over the Sun. Filament
all across ☉.

14439EM2 2100 - 0100 / 3 / Jarnac / Esther /
RD24 E-LP01 Photos of Cand 2.

14440S Friday 25 Feb / 1400 to 1830 / 3 / Jarnac / Wendee,
John Dobson / SS2 with Echo ☉, 3 prominences.
"signed Echo, Pegasus, Miranda, Miranda, Apollo + Cupid."

14442E3. 2000-2300/2/Jarnac/Echo/Skywatcher 2
(formerly Sky 2, formerly Sol 2) evening with John
Dobson, Wendee, Thom & Twila Peck, John & Liz Kala,
Carter Smith & McSmith. In The Moon
and Jupiter were viewed, solar halo earlier
and lunar halo tonight.

14443S. Saturday, February 26/0930-1000/3/
Jarnac/Echo/SS2 0 spots, 1 very large
prominence. Skywatcher.

14444S2. 1130-1645/3/Starizona/Skywatcher 2
Many telescopes brought in for signature
Wow. A 10" refractor set up!

14445E3 1845-2215/3/Starizona/Skywatcher 2/
Many more scopes in honor of John Dobson.
Moon, Jupiter - 4 as first obj. in
Leonard Wickberg's new 8" Dob.

14446S. Sunday, Feb 27. 0900-1130/3/Jarnac/
Skywatcher 2, SS2/John Dobson, Doug
Snyder, Keith, Russell Tanton,
SS2 0 spots, 1 prominence.

14447S2 Feb. 27. 1630-1700/Jarnac/D.J. Smith/
Cordelia. SS2 1 prominence.

14448E3 1900-2200/10-3/Jarnac/Wendee/
CN3 15" with Cupid. CN3 e TV ow \$18.5.
LPO-1 Saturn with Esther.

14449S. Monday, Feb. 28/1000-1100/10/ Jarnac/Wanhook
SS2 7p O spots with Mintaka, 1 prominence with
Echo.

14450E2 1830-1900CST/7/St Mark's School Observatory/
Teachers at the school/Skywatcher 2, LPO-1/
Saturn through 10" LX 200.

14451E Wednesday, March 2/1900 to 2130/0-1/St. Marks/
Students, Teachers, parents, and Texas Ast. Soc. of
Dallas members. Skywatcher 2 event begin-
ning with recounting of a rather frizzly
night 43 yrs ago - my first Skywatcher
event March 9, 1962.

14452S Thurs. Mar 3/1350-1430/11/St Marks/Sky-
watcher 2 + Project Skywatcher prep -
lecture during which Comet Tucker, asteroid,
TV Coma all displayed to the children, in my
13th & last presentation.

* 14453 ~~E2~~ SF^M Saturday, March 5/1300-0045/
0 to 3/Pearce Site 1300-1315
Arizona Sky Village 1530-2005
Pearce Site 2145-2245 Jarnac 2330-0045
With Echo: SS2 1, 5 + 1 long prominence
DBCL NGC 869 884 + M45 from
ASV + Pearce. Saw Messier
Nebula about as well from both sites.
Pearce had distant lights all around.
ASV pretty close to perfect. Best
zodiacal light ever! Saw Geyser in Jarnac.

14454S Sunday March 6 / 13 / Jarnac / Echo / Wende / SS2 1, 5 + 3 prom.

14455E2 2300-0000 / 3 / Jarnac / CN3e TV Cw \$18.5

14456S Mon Mar 7 / 1600-1800 / 3 / Jarnac / Echo / SS2 - 1, 5 + 2 prominences Prop for J5.

14457E 2200-0000 / 10 / Jarnac / Echo, Clyde / CN3e TV Cw - 18.5.

14458S Tues 8 / 1000-1200 / 10 / Jarnac / Echo / - Bagla / SS2 5, 1 prom. small. Digging for J5.

14459EM2 2200-0000 / 10 / Jarnac / Clyde, Echo / CN3e TV Cw \$18.5. Echo - Pleiades. Merope Nebula is as good here at Jarnac as at AS Vand Pearce.
Psycho-physics:

14460S Wed 9 March / 1100-1200 / 10 / Echo / SS2 1, 10 + 2 small prominences.

14461AN2 1645-0545 / 10 / Jarnac, Tangué Verde School, then Jarnac. Lots of people, a few Sturys and telescopes. I gave a brief presentation at the school, outdoors.
at home, using Miranda 9

03-05

spent some time trying to find and resolve the UMa QSO. I saw a disc elongated object, possibly split at times.

Skywatcher 3 began at 01:30.

Now, with better seeing

a) Saw Gegerchein very clearly

b) Saw M81 easily with naked eye.

12m light years

c) Saw QSO definitely split - 8 billion ly.

d) 3 meteors; at 0304 a big fireball NE.

CN3 Hyperion

CN3 Clyde Area 255, 40.

CN3e TVGw 18.5.

CN3d Miranda 3^h 05^m E.

Independent discovery c/2003 - lunar

gs At CN3 - comet hunt the catalog
e.g. Gegerchein, M81, QSO - is my passion.
Skywatcher 3 is how I spread the
passion.

144629. Thurs 10 March / 1815 - 1830 / 10 / Jarnac /
Echo SS2 2, 11 + 5 small prominences.
O through + see.

144632 1935 to 22.30 / 10 / Jarnac /
CN3e TVGw 18.5
CN3 bgh Hyperion + Clyde - Corvus ^{area.}
Picture with Lathart + Paula's camera
of Nanette's river.

144649 Friday, 11 March, 2004/10/Jarnac)
Mintaka/-1 SS2 3,37 + 7 prominences.

144655 Saturday, March 12 (last night was cloudy)
0850-0905/10/Jarnac/ SS2 with
Mintaka 2, 32 + 11 prominences.

14466E2 2100-2200/7/Vigil home, Albuquerque/
Kaia, Cupid/Mark/ Saturn, Jupiter, M42, M45
all found by Mark. Also Double Cluster.

14467S ^{Tuesday} Monday, March 15/10/Jarnac/1200-1500/Soria/
Mintaka 13, 21 + 4 prominences / Obs. cleaning.

14468E2 2000-2300/10 but 6 moon/Jarnac/Clyde/
CN3e TV Cw-18.5 plus Corvus field
• CN3k11.

14469M3 0450-0600/10, but windy/Jarnac/
Miranda, Clyde 1-1/CN3/15mE. CN3e
Antennae photo r/c 4038-4039.

14470S Wednesday, March 16/1200-1300/10/Jarnac
SS2 with Mintaka 2, 16 + 5 prom.
Marsden measurements for new tube.

14471E2 2245-2300/7-m/Jarnac/Clyde 1-/
CN3e TV Cw-18.5.
CN3k11-CN1 Area 377 started.

14472S Thursday morning, 17/0745-0805/3/Jarnac/Clyde, Mintaka
Wendeel Clyde closing. SS2 2, 16, 3 prominences.

14473S2 17/1600-1615/3/Jarnac/1-Cordelia, SS2 3prom 03-05

14474B2 19/23¹⁴⁰⁰⁻¹⁶⁰⁰~~300-2330~~/2/Jarnac/Wendee, Leonard W.

14475AN March 19/20/1930-0600/0, then 3/Jarnac/
Drizzle ended, then partly cloudy the remainder of
the night. I finished CN3 star charts,
then rested a while, then took pictures of
Wendee's ring, Wendee's Capella and Galaxy,
the VGC in Sculptor that I found in the
1980s for a comet, + M65+ region. Also
CN3 45^m through clouds.

Three new CN3 objects to replace
missing ~~one~~ double entries I found
The Veil Nebula
Markarian 348?

14476SE March 20/1600-1930/3/Jarnac/Wendee,
Geirg + Billy/Skywatcher 2, SS2 with
Mintaka 2, 7 + 3 prominences. Apollo:
Saturn, Moon, M42. Clyde: Billy + I
took two pics of M42.

14477M2 0420 to 0515/10/Jarnac/Miranda/1/Watched
gibbous Cret over Tucson. Then
CN3d 40m E. Beautiful sky for
because I couldn't sleep.

14478E.

14478E March 21/2030-2200/10/7/Brighton Young University/
14478 J. Ward Moody, students in astronomy depart-
ment. @#3 Skywatcher 3 star party as part of my
educational effort here.

14479E Friday, March 25/2000 to 2300/3/Jarnac/
Vincent Kim, Wendee/Minerua/
A new tube + mount for Minerua! Jupiter
as 1st light, then Moon, then M42.
Perfect alignment.

Mounts for Minerua

Tubes for Minerua

1. 67 Original Optical Craftsmen

2. 67 Skycrest - Vovay, Lhak

3. 68 88 window mount.

4. 68 Acadia - Echo mount.

5. Tripod.

~~80~~ 6. 80 Atop Miranda

7. 2nd tripod.

8. Riverside Spincoat mount (won prize)

9. Made on automated mt. on tripod.

10. Made on R. Spincoat mt.

11. Now, the UTI ~~own~~ mount.

1) Original tube

2) Dean's tube

3) Dean's other tube

4) Uti tube.

14480S Sat 26/0745-0800/3/Jarnac/Mintaka/
SS2 1, 4 + 4 prominences.

14481S2. 10-1030/3/Steins, NM/Wendee/photos
of wildflowers.

14482S3 1215 to 1235/3/Patsy's house/Patsy +
Wendee/Patsy signed Minerua and Clyde's
cover - two telescopes made & inscribed on
behalf of Patsy + Clyde.

14483E 4 1930 to 2000/10-71E of Lordsburg/Wendee/
Minerua/CN3 15 mNW. NGC 869 884, M42,
Moon + photo.

03-05

14484E4. Sunday March 27/2000 to 2100, then part 2, 0025-0045 / 10 then 7m, then 3 / Jarnac / Monsera Miranda, Clyde CN3 50m W.

CN3e TV Cw 18.5.

Call to Mom on what would have been Dad's 96th birthday. Also called Peter, & listened to Beethoven's beautiful 8th Symphony.

14485E5. Mon 28/1815-1830 / 2 / Jarnac / Cordelia / SS2 0, 3 prominences.

14486E2 1930 to 2300 / 3 / Jarnac / Miranda and Clyde / CN3d 30m W.

CN3e TV Cw 18.5

CN3R 11 TV Cw region.

14487S Tues 29/1000 to 1015 / 10 / Jarnac - / SS2 with Mintaka Osipota, 2 prominences.

14488E2 2000 to 2200 / 10 / Jarnac - / CN3J - Krewitz search. Found CN3 15m W.

CN3e TV Cw 18.5.

1448943 0310-0330 / 7-m / Jarnac / CN3 with Miranda 15m E.

*14490E. Wed 31 / 2200 to 2300 / 10 / aboard the M/V Galapagos Legend / it was good evening. Skywatcher 2 with Minerva: Eta Carinae, the Bad Boy, Southern Beehive. Magnificent night.

14491E April, 2005/2145-2315/3-2/Aboard M/S
Galapagos Legend / Minerva / The crowd from
our eclipse group, especially Larry Gershon,
Wendee, + Fred Espenak + Pat Totton /
Eta Carinae M42, Jupiter. Telescope
far steadier than Larry's because of the
vibration pads that come with her mount.

14492S. April 2/0815-1230. 110/Wendee called it
Island of the Iguanas. really called
Espinoza Point. With binocs I saw C, and
the Sealions, iguana lizards, crabs;
first hot fish during snorkel session
after.

14493EM2. 2130 to 0100/10/Aboard M/V Galapagos
Legend anchored in Tagus Cove / Skyw. 2
with Minerva / Jay Pasachoff, Dave Eicher
Wendee, and about 25-30 passengers +
crew / Eta Carinae, Southern Boobie, Southern
Pleiades, also Mizar + Alcor, M57, M13, and
M101. A true Northern-Southern right
almost exactly on the equator.

14494S. April 3/0800-1100/3 off Isabella / Binoculars /
Wendee / Larry + Bobbi / Moon view. Also
land iguanas + other animals.

14495E2 2145-0000/10 but boat rocking latitudinally
by quite a bit. I set up on E. n Carinae
and held it by hand. Wendee discovered

04-05

a J-shaped; actually a T-shaped asterism surrounding NGC. It was an interesting observation. As the ship's roll grew worse ($>5^\circ$) we just let the scope stay up at 5° roll through the southern Milky Way. David Eicher, Jay Miami Parachoff, and several others were there. After, Larry Gershon took a picture of the group standing in front of Murena.

Jay Parachoff measured the roll of the ship the next day as $14^\circ/5.6$ seconds. It was about the same during the observing session.

14496 E. April 4/2045-0000/10 but severe roll of ship / aboard M/V Coralapagos Legend / Murena / Skyw. 2, CN3 20mg.

I let the ship's roll dictate where the telescope went. I followed tendrils of nebulosity emanating from the center of the nebula & spreading out over a circle of 5° or so. It was very special. I noticed that the tendrils were of varying widths, from $1/4^\circ$ down; Dave Eicher found some very thin ones.

The Captain came out for a while as we discussed the true & false crosses as we saw them over the ship to starboard. I yodeled from the bridge, "Alone, alone - all alone, alone on a wide wide sea."

14497M2. 0515-0630/3/M/V Galapagos Legend
continuing west toward eclipse site
that will be _____ miles from the Galapagos.
CN3 with Minerva 10m cloud dodging.

14498E April 5/2100-2200/3/M/V Galapagos Leg-
end/~~SA~~ Sky 2. Look at 27 Carinae,
Wendee's requested J. with Wendee,
& Larry Gershon.

14499M2 April 5/0515-0700/10-3/Galapagos Legend/
Sky 2, CN3 with Minerva 1h 20m eastern &
southern sky. Observed with Larry Gershon
Dave Sobel, and others. The MW was bright
and sparkling high in the eastern sky.
It was beautiful to comet hunt in the
loop of the ship; letting the vessel's roll
dictate the speed.

14500E. April 6, Wednesday | aboard Galapa-
gos Legend, on way to our eclipse site.
We were on the port side, Wendee saw
a spout. She was right - a breaching
Pilot whale. Earlier we saw a school
of flying fish.

14501E2 2030-2300/3/aboard Galapagos
Legend/ Dave Eicher, Jay Pasachoff,
and other passengers. Bright
zodiacal light. CN3 with Minerva
0h 50m

04-05

14502S. April 7, 2005 / 1400 - 1800 / 3 / Aboard M/V

Galapagos legend. We are definitely not on the shipping lanes. We have not seen another ship in about 3 days.

Eclipse Test session: (+ lecture notes)

1) Partial phases: - 1) Define contacts.
First contact. - 2) Rule about eye prot.

Shape of advancing Moon - edge features

Possible occultation of sun spots.

Note gradual darkening of sky after about 50%.

Spaces between stars, faint - shows eclipse projection.

2) 10 minutes prior to totality.

Sky darkens rapidly as shadow approaches from SW.

Shadow bands on white surfaces.

Glasses on: thinning crescent

Glasses off: watch shadow, shadow band

Glasses on: crescent thin but still very wide as this is a hybrid eclipse

Glasses off: bands, rapidly darkening sky from SW.

Glasses still off: Bailey's Beads, Ring.

3) Totality

Rapid changes in inner corona as \odot crosses \odot

Away from center, note shape of outer corona, maybe streamers.

Prominences will change rapidly as \odot crosses, possibly all around \odot

Totally, concluded.

Chromosphere

B Look away. Look at the sec.
Any animals?

See the shadow swing across
the sky like a great second hand
Sun starts to brighten - Diamond
Ring, Bailey's Beads
Glasses on.

4) Closing partial

Shadow bands

Cover bright \odot and continue to see
corona, up to 7 minutes.

5) Fourth contact.

Totally Plan for David + Wendee

Partial
Totality:

1] End Partial: Fo Set up scope on \odot

2] 1 Photo through Minerva

3] Wendee gets to look through Minerva.

{ 4] Begin movie on camera, continue
after totality.

{ 5] Wendee uses binoculars after telescope.

Camera:

No attachment. single picture
Wide angle gets on: movie.

04-05

**145038

Friday, April 8, 2005. Total Eclipse of the Sun. 10900 to 10 at first. 2 by 1pm, 6 then steady clearing - 3 by the start of the eclipse.

From Wendee's Journal: "And now the trip is an adventure. (Of course the rough sea is turning). There is an interesting feeling of hope and dismay aboard the ship. As we look at a sky totally socked in by clouds, we are praying that the weather forecast will hold true. That in less than 1 hour the sky will clear just before 1st contact.

It was 1 1/2 hrs. since the initial reports (10:30am) & the rain is now falling."

It was as if a great hand had placed some red tape, about 1/10" thick, around the \odot this afternoon. That was the image that I will carry away from this eclipse. That is the image that I saw from Minerva.

When totality began I tried to find the Sun through Minerva. In the last seconds before 2nd contact I tried to keep the bright sun but fading solar image on Minerva's secondary. But it didn't stay because of the ship's roll. Seconds were passing. I quickly turned on the red finder and roughly found the darkened Sun with Venus on top of it. Then I looked in the eyepiece and then there was a glow

145035

cont.



a) b)
at the top. I moved the scope and brought the total eclipse into the field. The view blew me off the ship. Trying with both hands to keep the eclipse in the field, I saw the bright red chromosphere for the first time. Totally surrounding the Sun. Not just on one side or the other, but a circle of red surrounding the Sun. The color contrast among the black Moon, the red chromosphere, & the blue-whitish corona, ~~was~~ and the dusky sky was unforgettable.

I then bet the Sun to look with the naked eye at the Sun + Venus, just 2° from ~~to~~ to the north, or along it. It was almost the transit of Venus all over again.

But wait - I was hoping to see Bailey's Beads! I used the finder to find the Sun again. The chromosphere was still there. The shadow edge was moving

04-05

145035 towards the Sun, which was brightening
conc'd. rapidly. Then 2 diamond rings formed,
immediately followed by a handful of
bright Bailey's Beads. In just under a
second, I turned my eyes away from the
spectacle.

Meantime, Wanda was taking a movie
of the eclipse. "The corona had me totally
mesmerized," she wrote in her Journal. "It
seemed to spread so far out. When the diamond
ring began to brighten on 2nd contact, all I
could think of was 'so soon!' It was the
shortest 30 seconds of my life."

During the partial phases I was Sarah,
giving a play-by-play of what the
group should watch for. I pointed out
the darkening sky, and how the clouds,
ever-threatening, dissipated completely
around the Sun in the few minutes before
totality. I told them when they could
remove their glasses & replace them 35
seconds later. I and I pointed out the
brief appearance of the shadow bands at
T-3 minutes. And at 4th contact, I
said "This is Saros 1, signing off."

Every eclipse is unique and has its own
memory. For me, it will be the chromosphere.
For the trip, it'll be the days upon days of
rolling ship, with many broken dishes of glasses,
all for a very special 35 seconds where
the Sun was wrapped in red tape.

14504M2 0600 to 0715/10 / Galapagos Legend / Wendee,
Dave Eicher, others / Wendee's binoculars /
A tour of the Milky Way. David pointed out
some sights from S. 10N. I wondered
what I will call the * cloud where the great rift
end s. of Scorpine. No telescope this
morning; we just used binoculars and the
beauty of the Milky Way and the galactic
center straddling the sky.

14505E. Sat April 9 / 2200-2230 / 3-2 / aboard
M/V Galapagos Legend / general observing
with our guide "Charlie," Sky 2.

14506A^{SE} Sun April 10 / 11 / ~~20~~¹⁹ 2140 / 3 / ~~3-2~~ 0 / aboard
M/V Galapagos Legend / Sunset with Wendee
+ other passengers, then moon, later rain.

14507M2. 0610 to 0740 / 3 / aboard M/V Galapagos
Legend. CN 3 15^m E. Dawn + sunrise. No
green flash - 1st view of \odot was bright red.

14508E Mon April 11 / 20 1900-1930 / 3 / Gal. Legend /
Sky 2 - Sunset.

14509E2 2045-2200 / 3 / aboard Galapagos Legend /
Wendee, others / binoculars / Wendee's
reversed J. R. Carinae, Moon.

14510M3 0612 to 0632 / 3 / Galapagos Legend / Just me, alone
alone, all alone... P. Sgx. MW with binoculars

04-05

- 145115 April 12/1700-1830/3/Galapagos Legend/Wendee, others/picture of C over Shipmast. Sunset behind clouds.
- 1451242 0550-0630/3/alboard M/V Galapagos Legend/Minerva/Larry Gershon / CN3 15th E. Beautiful, tall display of zodiacal light intersecting Milky Way.
- 145135 April 13/0800-1200/Santiago Island/Wendee, others/pictures of sea lions, marine iguanas, snorkelling experience, saw several fish species, 2 baby sea lions and several adult sea lions. One sea lion swam right between Wendee and me.
- 1451452 1850-1915/3/Janna Abroad M/V Galapagos Legend/The whole passenger list / Sunset + group pic.
- 14515E3 2140-2300/7/M/V Galapagos Legend/Wendee, Dwe Eicher, ~~at~~ Eli, others / Sky 2: Omega Can, N Car, Wendee's camera J, with Jupiter, Moon. Near North Seymour island.
- 1451644 0535 to 0610/3/M/V Galapagos Legend/Larry Gershon / Minerva CN3 15th E. Final session aboard ship. Observed near N. Seymour Island.
- 145175 April 14/0730 to 0910/2/North Seymour Island/Sea lions, frigates, land iguanas and blue-footed boobies mating. Recorded on film + movie.

145185. Saturday, April 16 / 2 pm to 4 pm / 7 - Starling area /
Dean, Vince, Wendee, others / SS2
with 6" refractor. A big prominence
complex + one on other side too. New
binoculars!

145195E2 1800pm to 2230 / 7m / Jarnac / Wendee /
SS2 with Cordelia 1, 2, 5 prominences.
Test on 2 with new Canon 8x25-IS
binoculars.

14520E Sun 17 / 2200-2300 / 7 / Jarnac / CN3e TVCw, CN3k Area 23

14520S. Monday, April 18 / 10-10:30 / 10 / Jarnac /
Mintaka / SS2 1, 2 + prominences.

14522E2 2300-2330 / 7 / Jarnac / CN3e TVCw 18.5
CN3k Area 40. TVCw regions.
CN3k w/ Clyde Area 40.

14523M2 0400 to 0500 / 10 / Jarnac - /
CN3d 40m with Miranda! CMP-1
Lyrids / meteor in S.

14524S Monday 18 / 13 / Jarnac / SS2
with Mintaka!

14525S Tues 19 April, Joyce's birthday!
Jarnac, SS2 with Mintaka.

14525E2 1900-0000 / 7 / Jarnac / A. Clyde /
CN3j, CN3k.

14526E. Wednesday, 20 April / 1900-2300 int /
7-m / Jarnac.

04-05

145285. Thursday April 21/1500-1515/7/Jarnac/SS2 with Mintaka 1, 3 + 5 very big prom.

*14529E^M 1930-0000/3-m/Jarnac/Clyde started area 39 with CV3K, halted due to clouds. CMP-1, The Lyrids. One bright meteor - 1, a few degrees trail. See Nightfall in Skynews about this session + Lyrid ramifications.

14530E Fri April 22/2230-2315/3m/Jarnac/The Beagle/CMP-1 Lyrids. O.

*14531E Saturday, April 23/24/2000-2330 intermittent during seder/3 to 0/Jarnac/1 view of @, but it then vanished in a sky of rain. Passover evening session with Wendee.

*14532M2 0220 to 0500/1 to 3/Jarnac, then Sahuarita, then cactus plantation Sahuarita Road, and finally Jarnac.

Remembrance of Eclipses of the Moon
Earlier tonight, the gear-skyclock showed the possibility of clearing to the west. So, when my alarm went off at 2:25 am I looked outside for a dense overcast but at last it had stopped raining. I took stock with the Beagle, of the opaque sky, & noticed that the cloud deck was moving SW to NE. I persuaded myself that low toward the SW horizon the sky was brighter. At 2:40 with just 10 min to maximum eclipse, I loaded

**14532 cont'd. Echo into the car (which was waiting outside because of power failure earlier) & headed west along Sahuarita Rd.

This late, A Echo & I had the road virtually to ourselves. I reached the traffic light in Sahuarita, turned south, pulled over, took Echo out of the car (without tripod this time), & waited a few minutes for C to appear.

Even through the break and C shone through light clouds, I could clearly see C's darkened northern limb (directions guess by, not Moon), ≈ 10 m. projecting sharply out against the sky. Had this been a total eclipse, I think it would have been bright, with $L=4$ or 5 on the Dunjon's scale. The rays of Copernicus & Tycho were not as pronounced as usual during penumbral eclipses. I was feeling so good, having beaten the odds to catch the maximum, that I didn't notice the approach of another car. I turned around & saw a police car, the officer inside eyeing me Echo & the telescope.

I walked over and explained that Echo's a telescope, and that I was using it to observe the eclipse. Right away he noticed that the Moon's northern limb was darker than the rest. After a brief conversation about eclipses, he bid me good morning and left. I like these teaching opportunities. With the onset of more clouds, I headed home but another clearing stopped me in front

04-05

*14532 conc'd of the great saguaro of Comet Hyakuta -
taken from 9 years ago (of). The
shadow was now over the (NW part, but
I could still clearly see it. Also viewed
Jupiter w/ Echo (of Sept 1, 1960.)
Finally I was home, Echo safely in our
backyard with the Beagle. It was now hr.
past mid-eclipse with 90% of C still in
the shadow at NW. Usually 50% is the
cutoff between a penumbral eclipse that is
viewable and one that isn't. It was 3:52.
at 4:05 could still see some shadow. By
4:15 could not.

14533S. Sunday, April 24/1100-1115/3/Jarnac (Went)
clear, some clouds, cool! Mintaka! SSZ
Osato, 6 prominences.

14534E2 2100-2200/3/Airplane from Chicago
to Bloomington 1-1/Moon just past full
viewed beautifully from Chicago airport.

14535E3 2245-0000/7/Bloomington, Ill/
Moon.

14536E Monday, April 25/1920-2200/Twin City
Astronomy Club - Observatory near Bloom-
ington! 12" Meade on a sito-like aldy.
(other members) I gave lecture, interview,
and I saw their telescope + obs. dome.

14535S Thurs Wednesday, Apr 27/1930-2030/3/
American Flight west of Chicago 1-1
Sunset pictures.

14538S. Thurs Apr 28/1800-1815/3-windy/Jarnac/
Cordelia 1-1 SS2 1, 8 + 3 prominences

*14539E2 1930 to 2230/3-windy/Jarnac/
Scott Tucker / Samwise becomes a visual
scope in J2, J

14540S. Friday, April 29, 1961. 11500-1530/
10/Jarnac/ SS2.

*14545E2 1700 to 2000/7/places a through g/
Telescopes for Teletthon first event / Wanda,
others / Skywatcher 2, 3 - Teles. for Teletthon
a) Walmart Speedway + Kohl. Weather
at 5, 5:17, 6, 6:17. Echo: SS2 1, ~20+3 prom.
b) Walmart, with Marc + Carter
Smith, hadn't been allowed to set up yet but
would set up ~ 1/2 later.
c) Walmart, Costaro F Ina Road, and
there we used two telescopes, a Dob + a
Celestron, to see Jupiter + Saturn.
d) Walmart, Costaro Farms, to use
2 telescopes to see again 2 + 3.
e) Walmart, Valencia, to use 2 more
telescopes, a Dob + a 'SCT', 2 and
2 (setting over store.)
f) Walmart, Green Valley, to use a

05-05

refractor and a Dob, with John Kalas
and the Pecks, Tom + Twila, to see β & γ .
Saturn low over store.

g) CN3K. Area 39 + Asteroid 6485
Wendeeather, moving quickly northward
just east of the Crow. Something to
crow about.

* 145425E Saturday, April 30. /1500 to 2230/
3 / Field at UA in front of Flandrau
Planetarium. / Minerva, optics for Pegasus/
Wendee, assisted by Liz Kalas + Twila
Peck / Telescopes for Teletthon. Wendee
did a magnificent job running this
event. I did an interview with Paul
Hutter on radio + a live report on Ch. 9
at 5 pm. Wote and several
door prize announcements. We
raised \$6.

* 145439 Monday, May 2. /1530-1600^{EDT}/ 2 / 19 I Manitou
Crescent / Peter Judicke / SS2 with Cupid,
3, 27.

1454452. 1900-1915 / 3 / Kingston, Ontario / ~~#~~ Leo,
(nearby). Peter, others / SS 2 with Cupid
4, 25 (windy). Seen naked eye - 1 group.

14545M3 0300-0340 / 10-3 / Skarbot Lake, ASO
observatory / Leo / CMP-1 Eta Aquaride.
2 meters, weak shower. The sky was

pretty good, with a very rich spread of stars within the summer Δ !

What an honour it was, to have you speak in Kingston and to come to Oso Observatory for a short observing session. Your seeing a pair of γ Aquarids was a treat and I hope you enjoyed the dark skies as much as I did! Good night

One of the best memories of this session was the lions. The lions have 4 different calls; we heard two, a quiet high-pitched moan, + a staccato quack, like a shofar, echoing. How beautiful.

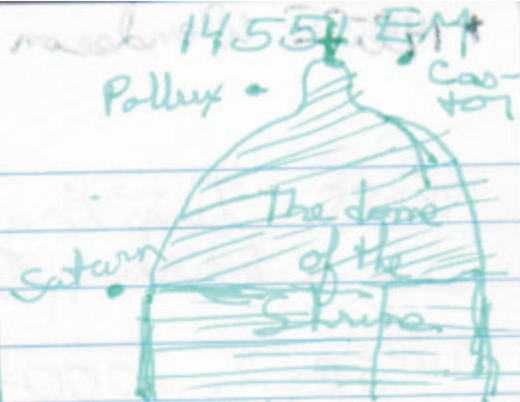
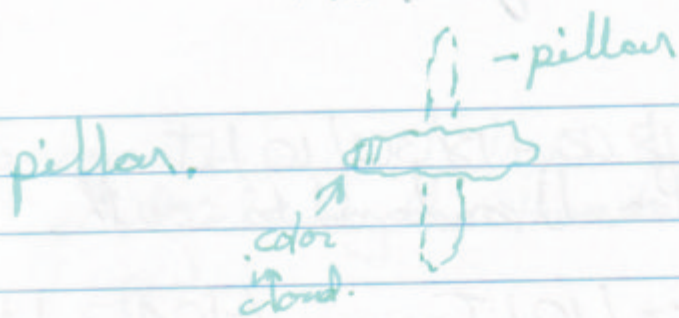
14546~~ES~~S. May 3/1530-1600/2/0500obs/Leit Peter/
Cupid /SS2 4, 27 spots, 1 Naked eye group.

14547E2 1900-1930/1-2/ Rolf and Linda's house/
Rolf, Doug George / Town of his 8" scope,
renovated from the 1970s ('71 Stellafane) +
16-inch F/10.

*14548S. May 4, Wednesday. /1530 to 1620/2-3/
JØ (Jarnac original) / Peter/
SS2 with # Cupid - 2, 14. When we
arrived at Jarnac, the sky was cloudy
with light drizzle. But the sky began to
clear near the end of our visit and we saw the
Sun, as well as a view of Jarnac itself.

14549~~ES~~S. 1900-1905/3/ West Montreal / 7-3/ Small
cloud occults Sun yielding beautiful

145745.49 SP2. on Dec 1 march 14557.5M



14550E3 2100-2200 int/3/west Montreal/RASC
Montreal Center group/Cupid/and
Constantine / telescopic view of 2+2.

14551EM Thursday, May 5/2300-0010/3/ J-818 +
Summit Walk / - / No meteors, even though
too early to catch late η Aqrids. See above

14552S Friday, May 6/1020-1035/3/chez Mom's
place / - / SS2 with Cupid 2, 27.

14553E2 2250-2330/10/Jarnac/Wendee / α , β Gem
like last night only no shrine.

14554S. Sat May 7/0230-1330/3/Jarnac/setting
up new ~~obs~~ storage shed by office & new
J3 observatory desk. SS2 with Echo.

14555E Sun 8/2000-2300/3/ J2/ Samewise CN3
^{see after 14552} 15m \boxtimes W. Wendee and I viewed the UMa PSO
for Wendee. through Hyperion. Wendee saw it elongated.*

14556M2 0430-0530/10/Jarnac/Miranda/
CN3 with Miranda 40m E.

*14557SE. Monday 9/1600 to 2030/10/Arizona Sky
Village 56./Wendee, Gene Turner
SS2 with Echo. Sunset from Mt n; first light
with new Canon binoculars on, of course. ?

*14555E Wendee on 50. see after 14,582.

145585 Tues May 10 / 1800 - 1830 / 10 / Jarnac /
Wendee, John Powell on land to south.

145598E2. 2000-2200 / 10 / Jarnac / - / CN3 / h with
Samwise, west. CN3 kill. Wendee was out
too.

1456043 0330-0500 / 10 / Jarnac / - / CN3 / h E with
Miranda

*145615 Wed. May 11 / 1630-1700 / Site of the new
WENDEE and DAVID LEVY OBSERVATORY
at Corona Foothills Middle School.
14566 here.

14562 E2 Thurs May 12 / 2100 to 2130 / 7 / Montreal /
Wendee, Larry + Joyce, Debbie + Jan, Mom /
clear evening, crescent C.

14563E Friday, May 13 / 2230-2330 / 2 / ASC-AAR
The Adirondack Science Camp, Peter /
CN3 with Cupid 5min. W + N, + Jupiter
with 4 moons + a star on the line. The
highlight of this session was the peepers - little
frogs all around the pond, doing a symphony
of peeping. Listening to them, amid the peace
and beauty of the campsite, was a
wonderful experience.

14564E Saturday, May 14 / 2130-2300 / 2 / ASC-AAR.
The Adirondack Science Camp / Peter / Cupid /
The Moon. Even more peepers than last
night. If last night was a symphony,

05-05

tonight was a full scale opera. The sky was pretty cloudy but we did glimpse ϵ through Cupid.

14565E Sunday the 15th / 2300-0000 MST / 10 / Jarnac / Clyde / CN 3K11, ^{CN3} M-27 in Vulpecula photo. Now when we sing the Battle Hymn of the Artsonomers I can truly say that "I have photographed M27 in Vulpecula."

14566S ^{MAY 12} ~~Mon~~ before 14562. 10600-0615 / 10 / Jarnac / Echo / SS2 - 2 prom. Super very low & somehow a difficult observation for Echo. Had difficulty getting Sun in both Echo & the prominence scope. Saw a small sunspot group.

14567S MAY 16 / 1600-1630 / 10 / Jarnac / Echo / SS2 2 prom. Echo & prominence scope working to spec this afternoon.

14568E 2 May 16 / 2200-2300 / 3 / Jarnac / CN3e with Clyde, TVGW 118.0. Fixed Hyperion's roof. Resetting charger cable worked.

14569E. May 17 / 2030-2100 / 3 / Corvina Beach, the Salton Sea / New binoculars, Canon 10x30 / Moon, ϵ , on quiet seashore.

14570E 2 2230-2245 / 3 / Holiday Inn, Palm Springs - Cathedral City / Moon & ϵ with binocs. Saturn looked elongated.

14571E May 18/2230-2250/7 | Holiday Inn Express,
Cathedral City, California | binocs | Moon,
24, 72.

14572S May 20/2230-23:100-1130/1-2 | Langley,
British Columbia | Grover from the Clamshell
Jones, Gert, + Pat | Inspection of the
Clamshell for possible use on CN 30-Hope |
We liked them very much.

14573ES May 22, Sunday | 1530 to 1615/3-0 | Kelowna,
BC | RASC GA | Interesting weather - lines of
cloud + rain separated by clear sky, deep
blue.

14574E2 2045-2115/ Kelowna near Okanagan Lake |
Roy Bishop + others of RASC | Venus - Roy
spotted it in bright twilight.

14575EB 2330-0100/ Kelowna | RASC GA - Full
Moon. One month since the eclipse.

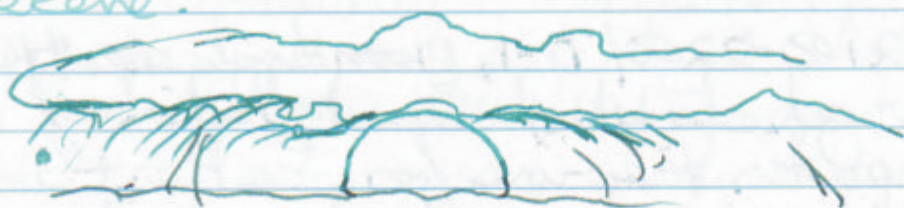
14576S Monday, May 23/1130 to @1330/3 | The Dominion
Radio Astrophysical Observatory, Penticton,
B.C. | RASC | Tour of telescopes:

1457E2 1600-1900/3 | Jack Newton's and Ajai Sehgal's
observatories | RASC, Roy + Gertrude Bishop |
beautiful 16" Meade + Jackie's and 20" |
telescope (built by _____), at Ajai's.

05-05

14578E3 2345-0000 / Kelowna / look for C and occultation with Antares. Moon appeared briefly though not Antares. Cray Boyle was present.

14579E Tuesday, May 24 / 1900-1915[~] / 3 / near Dallas DFW airport / Sun setting - beautiful scene.



14580S Friday, May 27 / 1500[~]-20[~] / 3 / Jarnac / SS2 with Echo 2, 25 + 1 prominence.

14581S2 1700-1835 / 0-1 / Jarnac / Heavy Thunderstorm. Then cloudy. Tom + I got the DSI imager working with Maxim using my Clipper laptop at last.

14582EM3 1900 to 0200 / TAAA. T4T Thank you party. Cloud or rain but fun nonetheless. ~ 30 people.

May 8 / 14555E Wendee: Tonight David took me out to Tom's 25" RC telescope and showed me the double quasar in the Big Dipper. It is 9 billion light years away! It is an example of gravitational lensing, that means we see it because a galaxy between us and the quasar magnifies the image.

to make it more visible. (Figure that out.) I think I saw it and from my description, David thinks I saw it split [or at least elongated - I'm not sure.

14583S Sat May 28 / 1230-1250 / 3 / Jarnac / Echo - SS2 22, 4 prom.

14584EM2 2100-0200 / 0-1, moonily spotted as glow through clouds / Installation of new computer tie-ins for Esther + Samwise. In addition to replacing Wendae's monitor, no problems.

14585S Sunday, May 29. 1415-1430 / 3 / Jarnac / SS2, Echo: 17 spots, 5 prominences.

14586E2. 2100 to 2300 / 3 / Jarnac. 14 Samwise. CN3 30m W. L292 NGC 2903.

14587S. Mon May 30 / 1915-1930 / 3 / Jarnac / Echo. 0 spots & prom.

14588E2A 2100-0330 / 10 / Jarnac / Samwise / CN3 h^h W. Samwise + new computers doing flawless work. RD24 - with Esther: B Cys, M17. That system AT LAST okay too.

14589EM Tuesday Jun May 31 / 2330-0200 / 3 / Jarnac / Bob Summerfield / Successful field test of new Canon binocs. CN3k, Clyde Area 16. Bob liked these binocs; he has different set.

14589S. June 1 / 0900-0930 / 3 / Jarnac / SS2 Minitaka 15 spots, 2 prominences. Also closed J1 after last night's area 16.

- 14591E2 June 1/2100 to 2330/10/Jamaica. general observations.
- 14592E June 2/2100 to 2350/10/Jamaica/CN3K11-CN1 Clyde Area 1b, in focus this time. CN3 Hyperion goal obs, after Tom + I fixed Beagle, main interface computer. CN3e TVCw CN3b Samwise 10 minutes, W. using Meade Autostar with very dist objects plotted.
- 14593S June 3/0815-0840/10/Jamaica/SS2 Mintaka 1, 15 + 4 prominences, a cluster of small ones + 1 large, faint one.
- 14594S2 1750-1805/10/Jamaica/SS2 with Cordelia. 2, 18 + 8 prominences.
- 14595EM3 2345-0430/10/Jamaica/Wendee/CN3K11-CN1 Area 383 CN3e TVCw CN3d 3h 35m E + S with Miranda. It was nice seeing the ... leading to M31 + knowing it would lead to M31. NGC 7814.
- 14596S Sat June 4, Billy's Birthday/1850-1905/Cordelia/SS2 3, 23, 4 prominences.
- 14597E2 1930 to 2230/10/Jamaica/Sunset, green flash, Sky2. CN3b with Samwise 1h W SW. Changed from 32mm Nagler to the old Nagler 2 20 with 1.6° instead of 2.5° field but better magnificent views with higher magnification more appropriate for Samwise.

CN3 k11-CN1 Area 40 started. CN3e Titiv
CN3g Hyperion also at work.

14598M3. 0245 to 0430/10 but begin low east/
Jarnac / CN3^d with ~~Minerva~~ Miranda / 1h.5m E.

14599EM Sunday, June 5 / 2345-00445/10+ / Jarnac /
RD 24, first I took a color btw series of
M57, then I went in + Wendee said she preferred
color. So I went out and took more pictures
in color using the Autofastar software.
also CN3 40 minutes, E. see pic below.

14600E. Mon June 6 / 2300-2330/10 / Jarnac /
CN3e TV Cw

14605 Tues 7 / 1100-1200 / 10 / Jarnac / SS2 with
Mintaka 3, 36 + 2 prominence clusters!



06-05

14602SE2 Tuesday, June 7, 2005/1830 to 2345/10/
Camp Shadow Pine, MDA/G. Rywatcher, 3.
A wonderful evening with Wendee, Dean,
Donna, Demo, and many campers &
staff. The most touching part of the eve-
ning was watching twin boys, both
with ? Duchenne's, in wheelchairs.
It was a really touching moment.
We saw ζ , μ 13, μ 57, Vega, μ ion,
and Elyrae.

14603M2 2330-0230 int/10/on way home / ~2335
-4 magnitude meteor in N.

14604M3 0300-0430/10/Jarnac/Miranda / -/
CN3 0:40mE.

14605SEM Wednesday June 8/1930 to 2130/10/Jarnac
Wendee/Skywatcher 2, and Sunset with very
strong green flash, actually two as \odot divided
over mountain while setting.

Then CN3R11, Area 383 first time
autofocus while observing. CN3e TV Cam
RD24-Scorpius with Wendee's Canon
Powershot: 10 15" pictures = 2.5' exposure.

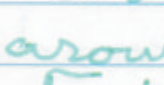
14606M2 1000-1030/10/Jarnac/SS2 w/ Mentika
37 spots, 3 prominences: one curl, one
straight line.

14607S Thursday, 91600-2200/3-F/Jarnac/

SS2 with Cordelia. Mount changed so that Cordelia's now mounted on Minerva's LX200 mount. CN3K11 with Clyde. CN3e.

146085. ^{Friday} ~~Thursday~~ June 10 / 9:30-10:00 / 10 / Jarnac / SS2 with Mintaka 6, 52 + 4 prom.

1460952 1630-1650 / 10 / Jarnac / SS2 w/ Cordelia 3, 28 + 5p.

14609E2 ^{Monday} ~~1920~~ to 2245 / 10 / 5 Mount Bigelow / Skywatcher 3 / Don McCarthy, Dean Koenig, ~~Don~~ Michael Magee. Astronomy Camp. 6" Jupiter with intense west tail within the belts, even, as Dean noted, within the features. M51 was as good as I've ever seen it. Arms crossing arms, looping around  over & over - really a sight. Finally M57. Meanwhile CN3K at Jarnac ~~not~~ not long.

146115 Sat June 11 / 0950 to 1030 / 10 / Jarnac / SS2 with Mintaka 2, 26, 3 prom.

1461252 1855-1910 / 3- / Jarnac / SS2 with Cordelia

14613E3 1930-0000 / 3 / Jarnac / CN3K11 Area 438. CN3e ^{TV Obs (14.8)} not here tonight. C/Tempel viewed with Clyde + with Miranda for Project Skywatcher 3. * at least not focused. 14.8.

146145 0808-0815 / 10 / Jarnac / SS2 with Mintaka. 3 prominences.

1461552. 1100-1308 / 10 / Jarnac / Rajiv Gupta, Duncan and Wendee. SS2 -

06-05

14616 AN 2005 06 13 / 2000-0420 / 10 / Jarnac / CN3 k11
with Clyde CN3 with Summer 1^h W, 1^h E
with Miranda = 991.5^h

14617 EM. 2005 06 13 / 1900-0100 / 7 / Jarnac / Sky 3 /
several objects - Phantom of the Opera
Starparty. Really enjoyable session.

14618. 2005 06 14 / 0900-1000 / 0900-1000 / 10 /
Jarnac / SS2 Mintaka 1, 2.

14619 EP2 1930-1940 / 10 / Jarnac / Sky 2. Sunset!

14620 M3 0245-0415 / 10 / Jarnac / CN3 with Miranda
1^h E 992.5^h T.

14621 E. June 15 / 1900-0000 / 7 / Jarnac / CN3e with
Clyde 18.5

14622 E June 16 / 1550-1605 / 10 / near Belen, NM / SS2
with Cupid / 2, 15.

14623 E2 2000-2200 / 7 / Albuquerque / Sky 2 with
Cupid + Summer's telescope / Marner, Summer,
+ Matthew / Jupiter, Saturn, Venus, Vega.
Summer found the Moon by herself through
her telescope.

* 14624 E June 17 / 1500-1802 / 7 / Patsy Tombaugh's
home / Patsy, Annette, Roy, Gene Turner +
friends. Transfer of Clyde's 16". Also
Walter + 8" (Spica) + 12". Cupid: SS2.

*14625E2. June 17/2015-2300/Las Cruces to Tucson/
Cupid, view of Cat 2030, also view of bright
plane contrail, 2 of them both bright and
short. It reminded me of the beautiful
comet-like trail I saw at Hebrew school
when I was a little boy. On way to home,
continued intermittent observing.

14626E3 2300-2330/7/Jarroc LPO-1. ?

14627E June 18/1800 to 2350/2/Jarroc/int. ?

14628S June 21/1915 to 1930/3/Jarroc/Sky2. Sunset.
Wendee.

14629E June 23/1800 to 1900/7/Istanbul-Constant-
inople, our apartment. Sky3 with binoculars.

14630M June 24/0000 to 0015/3/Istanbul-our
apartment at Istanbul Kültür Üniversitesi
USO1 RGB 6.0.

14631E June 25/2000-0000/int/6/Istanbul, by the
sea, at dinner with Wendee

14632EM June 26/1900-0100/7/Bosphorus, then our
apartment at Kültür/Wendee, Grange t.
and the full conference / Jupiter, Venus t.
Mercury 1° apart, photographed on
the Bosphorus with bridge. At apt. USO1
RGB 6.0, RSet. obs. by.

07-05

14633E. June 27, 2005 Gerry's birth day / 2100 to 2200 / American Airlines - Dallas - Tucson, nearer Odessa / Wende / LPO / Venus + Mercury less than a degree apart. Wende took several pictures.

14634E2 June 27 / 2300-0000 / 3 / Jarnac / CN3k11

14635E2 June 28 / 2100-0000 / 10 / Jarnac / CN3k11,
↓ ↑ CN3e TV Cr - 18.5.

14636S June 28 / 0815-0830 / 10 / Jarnac / SS2 2,2,
1 prominence.

14637SA. June 29 / 0930-0930 / 10 / Jarnac / SS2 2,2

14638S2 June 29 / 1600-1630 / 10 - Jarnac / Echo / SS2
3, 15.

14639E3 2030-2330 / 10 / Jarnac / CN3k11. CN3b
with Samwise 1h.W, 993h 30m.

14640E June 30 / 2030 to 2300 / 3 / Jarnac / CN3k11.
CN3e TV Cr - 14.8. through clouds.

14641S July 1 / 0915-0930 / 3 / Jarnac / SS2 3, 24; 3p.
w/ Muntaka.

14642E21 2300-2350 / 10 / Jarnac / CN3k11 Area 3 /

14643S July 2 / 9-930 / 10 / Jarnac / ~~SS2~~ SS2 w Muntaka
6, 51, 3 prominences.

1464492 July 2, 2005 / 1530 to 1630 / 10, 3 / Jarmac / SS2
with Cordelia 6.31 + 2 prominences.

14645EM3. July 2 / 2030-0030 / 10, 3 / Jarmac /
2030-0030 / 10, 3 / Jarmac 2, 3 / CN3b Samwise
1hW Total 994.50. CN3e TVGw 18.5

146465 July 3 / 0850-0910 / 10-3 / Jarmac / SS2
with Mintaka 7.68, 3 prominences, 1 Wendee

**14647AN2



July 3 / 1945-0530 / 10 / Jarmac / CN3b with
Samwise and CN3d with Miranda, total
2.5h (997h) CN3k 11 with Clyde. CN3e
TVGw 18.5. This was the night we saw
Comet Tempel-1 get whalloped by the Deep
Impact mission. We tried to be a part of
this event in 2 ways - first actually to
observe the impact @ 10:52:12 MST, + second
the to photograph the comet's response
to the encounter. (The picture above is
a composite of 20 of the pictures I took through
Clyde. With Wendee, Thom + Twila Peck
+ John + Liz Kalas, we wanted

07-05

14647AN2-comet. We glued our eyes to the eyepieces as the time passed. Wende looked through the Miranda main eyepiece, while I studied the view through the 8" guide scope on Miranda.

The minutes continued to pass. After 9 minutes, I thought I could detect some brightening in the coma but it could have been "a dream."

At $T + \sim 25$ minutes Wende said "I think I see a pinpoint in the comet." It was as if someone deep inside had turned on a light.

The picture at left is a combination of 70 images through Clyde showing the comet brighten up. L'337 is at left, PGC 48179, a barred spiral galaxy.

Other important obs: CN3 - a good search with CN3c L337, 338 (NGC 1042) 339 (NGC 891). CMP, Thom & others noted a number of meteors from a radiant in Draco. Later I found it to be the Omicron Draconids. Could this have been the July 4, 1956 meteor? And at 11:16 pm Mike Terenzi saw through Miranda a meteor pass right in front of the comet. We captured it on film & my calculations show it is probably an α Lyrid, less possibly an Omicron Draconid since they were active this night.

14648E July 4 1930 to 2300 / 10 / Jarmac /
CN3k11 with Clyde. CN3e TV Crw 18.5

14649E M 7/5/1930-0100/10/Jarmac / CN3b with Samwise
1h W = 998. CN3e TV Crw \$18.5
CN3k11. CN3 Hyperion.

14650M2 0245-0415/10/Jarmac / CN3d with Miranda
1.20 h = 999.20. Levy 340 = NGC 1134.
CN3 Hyperion.

14651E July 6 / 2100-2355 / 10 / J / CN3k11 CN3e TV Crw 18.5
CN3 bgh Hyperion

14652M2 July 6 / 0245-0430 / 10 / Jarmac / CN3d with
Miranda 1.1 h = 1000.3 hours total without
a new comet. CN3 bgh Hyperion.

14653S July 8 / 915-930 / 3 / Jarmac / SS2 Min. 4:38.3.

14654EM2 2100-0045 / 10-3 / J / CN3b w / Samwise 1.00 W.
CN3e TV Crw 18.5 CN3k11

14655M3 0245-0415 / 10 / Jarmac / CN3d with
Miranda 1.2 h = 1002.5. CN3k11 w / Clyde,
CN3 bgh Hyperion.

14656EM July 9 / 2030-0100 / 10 / Jarmac / CN3k11
with Clyde, CN3e TV Crw 18.5

14657M2 July 9 / 0245-0415 / 10 / Jarmac / CN3d
with Miranda 1 h or 1003.5 total.
CN3 bgh Hyperion.



*The Presidents of
SUNY Plattsburgh,
College Auxiliary Services
and the
Plattsburgh College Foundation
invite you to a
Ceremonial Groundbreaking
for the
David H. Levy Observatory*

*Monday, August 16, 2004
4:30 p.m.*

*Twin Valleys Outdoor Education
and Recreation Center
Twin Valleys Road
Lewis, New York*

*Picnic Dinner to Follow
Casual Attire*

*Please RSVP to
Chris Hobson Whalen
by Aug. 12, 2004
(518) 564-2038
chris.whalen@plattsburgh.edu*

*(Directions to Twin Valleys are located
on the reverse of this invitation)*