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Log 17

And may all your Comets
be bright.

← Stere O
:
aloha -
Donna

The discovery films of P/S-L9 were an invitation to one of the greatest astronomical shows that sky enthusiasts on Earth have ever seen - the impact of a comet on a planet! Carolyn Shoemaker 12/1/95

The original discovery films re-produced on the cover, are among the most remarkable ever taken in centuries of picture-taking.

Clyde W. Tombaugh

7 September 1995

These films will be of the greatest interest to historians of science. You and your co-workers must be highly congratulated on recognizing what could be easily overlooked - and then we would be wondering why Jupiter developed those dark spots in July, 1994!

Walter H. Haas
10 September, 1995

The enlargements on the cover show the most remarkable object we discovered in the 12 years of the Palomar Asteroid and Comet Survey - a most fortunate climax to our intensive search that took some 26,000 f. lms.

Gene Shoemaker, 12/1/95

8721 EM.

Wed. Jan 1/2/1830-0200/1-F/Palomar/18", Minerva/
Gene and Carolyn Shoemaker, Jean Mueller.

8722 E

Thu. Jan 2/3 1830-0000/3-1-F/Palomar/18", Minerva/
Gene and Carolyn Shoemaker / CN3G: 4 films.

8723 EM

Fri, Jan 3/4/1830-0330/0-1-10-0-F/Palomar/18-
Minerva / Gene + Carolyn / CN3G: sky cleared
perfectly for two films, then fog + rain.

*87245: January 4/5/ Annular Eclipse of the Sun.

Dave's faith in the weather clearing kept us going
during the cloudy hours prior to the spectacular eclipse!

Jim Hunter

Good luck David in comet finding.

Adam Ang

David, I have a good times

Love Carl

January 5, 01:42 UT A good cliff hanger
of an eclipse. The clouds provided the drama.
Gene Shoemaker

Your enthusiasm was warranted - this was
a spectacular & beautiful eclipse observed
in excellent company. May you see many
more.
Carolyn Shoemaker

To David:

Well, we beat the odds. What a real treat
to observe the eclipse w/ such good friends!
And the special experience to see the eclipse with
you and to view with Mervin, Clark & all.
Two for two.

Friends for life
Jean

8795 EM / 1830 - 0100 / 1-0-F / Palomar.

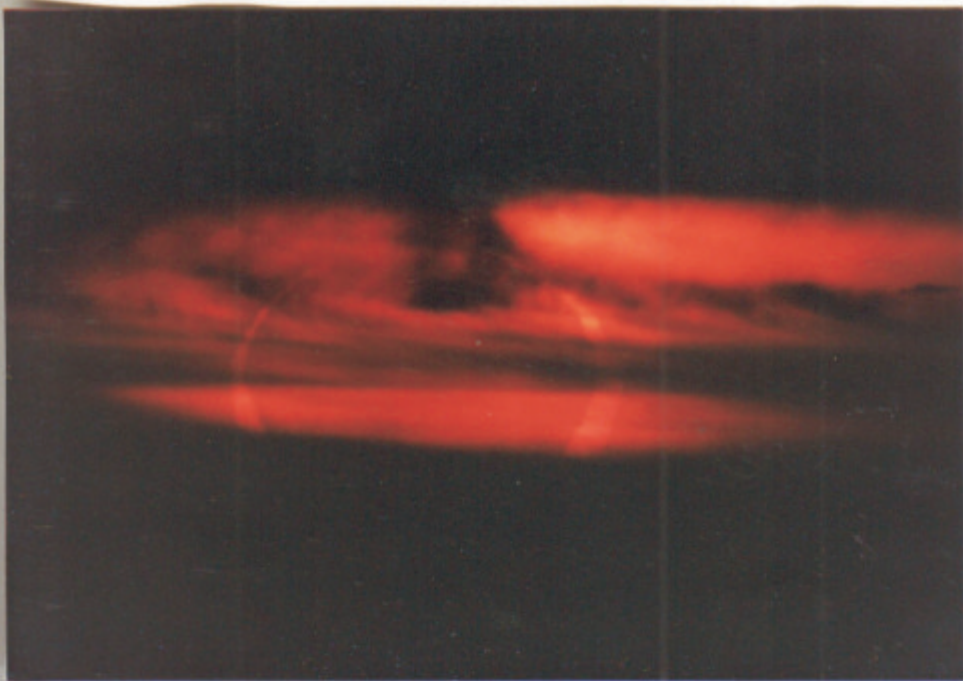
David —

Here it is, "Annular Eclipse Day," (Jan 4, 1992)
and here it is — four days into the new year, and
you haven't discovered a thing yet. What's the
problem? Are you going to blame it on the weather?
Your "Star Trails" deadlines ?? Well, you'd better
get going — Brian's new-year's resolution
is to put all his "regular" discoveries on a
quota system!

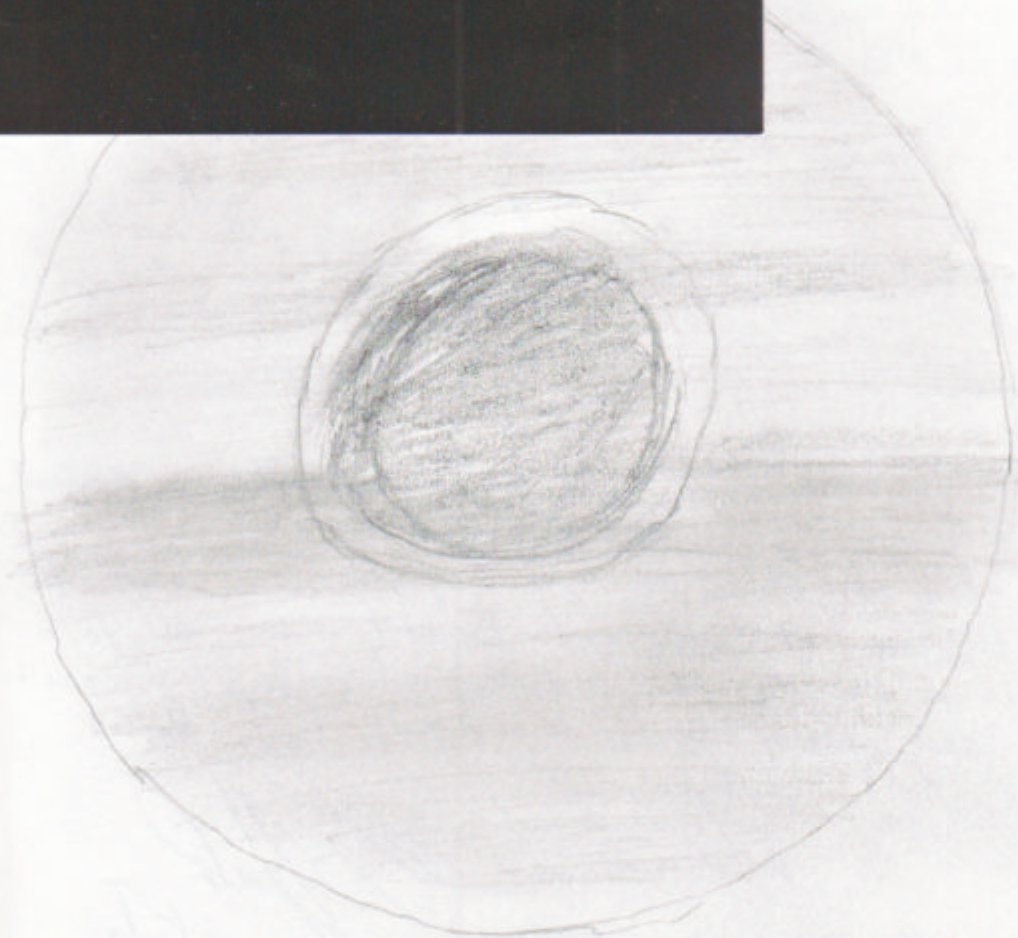
Continued success, my friend

Kelly Beatty

8796 E. Jan 5 / 1830 - 1250 / 3-F / ~~W.~~^{E.} of Yuma, AZ / CN3 5^mW.



Tim Hunter's
photo -
just after
mid-eclipse.



Annular phase
Solar Eclipse
Jan 4, 1992.

Saw a second of early partial phase
from 2 min before annularity to so just
before sunset.
Saw sky brighten gradually AFTER
sunset.

8720SP. Jan 7/8 1600-1610 / Walter + Peggy Haas.

To David:

We always enjoy your visits, the conversation, and the piano concerts. We must congratulate you on discovering 16 comets. (We never knew personally Caroline Herschel and other competitors.) We wish you every success in your writing and in your scientific research. Do come often, and we'll try to find the orange juice!

Walter and Peggy Haas

87345 Jan 7 / 1540-1555 / B-F / Walter + Peggy.

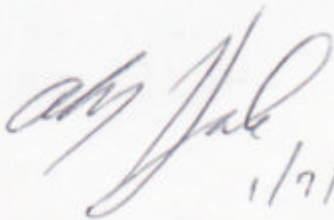
8728 E2 Jan 7/8/1930- / B-F / Clyde + Patsy's house

CN3 5^m M37.

Minerva, and Clyde's 1933 5" ^{F/4} diaphragmed to 4 1/2
Enjoyed seeing M37 and M42
in David's 16-inch Comet telescope
on 7 January 1992
Clyde W. Tombaugh

David - Did you know that, right this minute, Howard Brownington is out comet-hunting only two hours away? And what are you doing - you're here at Clyde's house shooting the 5 - with me and trying to keep el Zeko entertained! May all your comets rest in peace - I'd like a little break now, if you don't mind! With comet 1991a, coming on, I don't think there's much chance of that! Take care,

Dr. (wanna-be)



1/7/92

8729M Jan 8/9 / 0600-0620 / 10-F / SM3

• Miranda - / CN3 10^m E.

8730 M 0300-0330/3-F/very windy/SMF.

8731 M Jan 12/13/0500-0615/10-F/SM4/Miranda/-/
CN3 1^h05^m E.

8732 M Jan 13/14/0500-0620/10-F/SM4/Miranda/-/
CN3 1^h10^m E. Obs. of Comet Shoemaker -
Levy 1991 L, $M_1 = 9.7$ DC=4 Coma 4' Sun Fan 110°

8733 M Jan 14/15/0605-0620/10-F/SM4/Minerva/-/
CN3 5^m E. M19

← 8734 - see opp. page.

8735 E, Jan 15/16/1900-1915/7-Fm/SM4/Minerva 1-/
CN3 5min.

8736 M2 0500-0630/10-F/Very cold & windy/
Miranda/-/CN3 0^h50^m E
CN3e NCrV C13.5

Comet Shoemaker-Levy. 40.6 F/5
1992 01 16.50 $M_1 = 10.2$ S/AC #624 Refl. 53x

Coma ϕ 3min faint fan tail \sim pa 90°
DC=4

8737 M Jan 21/22/0300-0300/7-83-F/SMF
+ S. walk.

8738 E 22/23/1900-2145/10-F/SM3/Minerva/-/
CN3 ? 1^h45^m.

8739 M2 0400-0445/7-F/SMF + S. walk.

8740 E 23/24/1900-2215/10-F, beautiful zodiacal
light. SM4/Miranda CN3 1^h45^m W.

- 8741 E Wed Tues 28/29/2200-2230/3-F/ Paula's house in Sarasota/ -Paula/Minerwa/ M42. M45. Jupiter.
- 8742 EM Wed Jan 29/30/ 2300-0200/3-F/ Winter Star Party, Florida/ Minerwa et. al. CN3 5^m N. Foggy.
- 8743 EM Thu 30/31/ 2300-0330/3-F/ Winter Star Party/ Minerwa et. al. CN3 1^h 15^m ~~W.~~ Minerwa with tripod
- 8744 EM. Fri 31/32/ 2000-0330/3-F/ Winter Star Party/ Minerwa et al. CN3 1^h 45^m W, E. π Carinae through several telescopes.
- 8745 EM Sat 31/Feb 1/ 2000-2230/3-10-F/ Winter Star Party/ Minerwa et al. (M. with tripod) CN3 1^h 15^m W.
- 8746 ~~EM~~2 Sunday Feb 1/ 0130-020230-0430/ 3-F/Winter Star Party/ Minerwa/ CN3- 30^m ~~W~~ E. a wonderful session but clouds. Minerwa with tripod
- 8747 ~~E~~. M Feb #2/3/ 1900 PST-2000/ Fiesta Island/3-F/ 7-F/ ~~PST~~ Walk.
- 8748 S. Feb 2. / # 1300-1315/ 3-F/ Palomar/ Minerwa/ -1/4 Minerwa test. Minerwa with ~~the~~ fishing reel mount (full mount)

8749 AN2 Feb 3/4/ 1808-0540/10-9-F/
Palomar/18"+Munerva with full mount/
G+C. Shoemaker
CN3g 66 films.
CN3 25min E, earlier 5min. W,
total 30 minutes.

8750 AN Feb 4/5/ 1808-0408/3-F/Palomar/G+C.
18"+Munerva with full mount.
CN3 5m W
CN3g 34 film.

8751 AN Feb 7/8/ 1808-0530/3-F/Palomar/Carolyn/
18"+Munerva with full mount.
CN3 15m W.
CN3g 44 films.

8752 AN Feb 8/9/ 1808-0530/3-F/Palomar/G+G/
18"+Munerva with full mount
CN3 5m E
CN3g 30 films.

8753 S. Feb 9/10/ 1608-1630/3-F/Palomar/
Munerva with full mount.
test.

8754 M. Feb 14/15/ 10308-0408/South walk

8755 M Feb 15/16/ 1308-408/South walk.

8756 S. Feb 17/18/ 2-4pm/10-F/ JM/
2 people from France -
see next page.

En souvenir de notre visite et en esperant vous
voir un jour à Paris.

Une grande admiration pour votre travail

Amicalement

Serge Thebaud

J'ai été très heureuse de vous rencontrer et
d'admirer toute votre installation.

Quel travail ! Bravo !

En esperant vous voir très bientôt en France,
nous vous recevrons avec un grand plaisir.

Amicalement 17/02/92

Catherine Thebaud



8757S. Feb 18/19 / 2-4pm / 10 - F / JMB, Empire Ranch /
Tom Gies.

8758E 19/20 / 1900-2300 / 10-7-F / JM3, 4 / Murawa, / Virgil
Miranda / CN3 15m W ^{friend}

8759E 21/22 / 1920-2235 / 10-F / JM4 / Miranda / - /
CN3 2^h40^mW. [Saw one of Jean's comets
(added 4/16/98)]

8760E. 22/23 Feb. 2200-2330/10-F/JM4/
Miranda and Minerva | - | CN3 1^hW

8761EM 23/24/0000-0600/10-F/JM4/Miranda
and Minerva | - | CN3 1^hE.

8762EM ^{24/25} 1900-0200/10-F/Palomar/18" + Minerva/
CN3g 36 films. Gene + Carolyn

8763AN ^{EM} 25/26/10-F/Palomar/1900-0230/Palomar 18"
+ Minerva | CN3 5^m + 40 films CN3g | Gene + Carolyn

8764SEM 26/27/10-F/Palomar/18" + Minerva/Gene +
Carolyn, Jean Mueller, Chad Slattery, Smith-
sonian photographer. | 1500-0300/10-F/
Minerva + 18" | CN3 5^m W
CN3g 45 films.

8765AN 27/28/1900-0530/10-F/Palomar/
18" + Minerva | Gene and Carolyn |
55 films.

8766EM. 28/29/1900-0300/12-F/Palomar.
CN3g - arrive.

8767E 29/1 March/1900-2100/13-F/Palomar/
18" + Minerva | CN3. 5^{min} W
CN3g 9 films.

8768E March 1/2/1900-0000/1-F/Palomar.
18" + Minerva | Gene + Carolyn.

8769E 2/3/1900-0000/0-F/Palomar.
18" + Minerva | rain.

92. MARCH 6

8772M

My first exposure to comet hunting.

I would've made a poor fencer!

BTW - your *eyepiece* STATS →

1. PANOPTIC 35mm in Miranda → 57x + 1.2° TRUE FIELD.

20mm Nagler in Minerva → 30x + 2.7° TRUE FIELD.

Wish I had a PANOPTIC!

Best Wishes.

David J. Smith

Comet Shoemaker-Levy 1991d $M_i = \sim 10.5$
Nova Cygnus 92 ~ 5.5 8772M.

8770. E. March 3/4/1900-1915/10-F/ near A2/
CA border / Minerva 1-CN3 5 min.

8771M 4/5/ 4-6am / 3-F/3M4/ Minerva + Miranda/
-1CN3 1^h15^m CN 3e Nova Cyg. 1992.

8772M. 5/6/ 4 3-6am / 10-F/3M4/ Miranda +
Minerva / CN3 1^h25^m E. See above.

*8773M 8/9/ 4:30-6:00 / 10-F / ~~3M4~~ / ~~Minerva~~ Pegasus +
Minerva / 45^m E CN3. at Empire site with Tom
Ives from Smithsonian.

- *8774E. 1730-20:30 11-F/SM4/Miranda, Menerwa, Ophelia/
 8775M March 11/12/ 4:00-5:00/7-F/SM4/Miranda and
 Menerwa/ -/ CN3 1h45m E.
- 8776M Mar 13/14/ 0400-0530/10-F/SM4/Miranda and
 Menerwa/ CN3 45m East.
- 8777E. March 20/1900-2115/10-F/KPNO/Menerwa/
 Jim Scott, Dan Green/ CN3 1h15m W.
- 8778E Mar 21/22/ 2100-2200/3-10-F/SM4/Miranda
 and Menerwa/ CN3 40m W.
- 8779E/ 2000-2100/10-F/SM4/Miranda and Menerwa/
 CN3 45m W.
- 8780E/ 1930-2200/10-F/SM4/Miranda and Menerwa/
 CN3 2h W.
- 8781EM/ 2200-0030 Mar 24/25/10-F/SM4/Miranda &
 Menerwa/ -/ CN3 1h30m W, E.
- *8782E/ Mar 26/27/1900-2000/3-F/ Clyde Tombragh's
 house/ Menerwa/ Clyde Tombragh/ objects through
 Menerwa.
- 8783E2/ 2300-2330/3-F/ C.T.'s/ Menerwa/ Clyde T./
 RGB 6.0
- *8784E/ Mar 27/28/ 20:30-21:30/3-F/ Clyde's yard,
 near 9"/ Menerwa (Clyde)/ 30m W CN3.
- *8785E2/ 2345-0000/7 then 2-F/ Clyde's yard/
 Menerwa/ Clyde. / Clyde has moved the
 mirror back 5/8" and it has helped.

3/1/82

A much hurried yet pleasant visit to
Danos. We Rush to make pictures for his
SMITHSONIAN ARTICLE, then view THE ORION NEBULA -
Wow! His house is like a toy chest of
wonders - Thank you Dan!

of 8773

Tom Ives

8786E | 29/30 March / 1930 - 2230 /

Peach Peak / Muerwa / Walter Museum Houston /

CN3 1h West.

8787M | 0415 - 0500 / 10-unf / Muerwa + Muanda /

CN3 1h E.

8788M. 0330 - 0400 Mar 30/31 / 2-f / S. walk.

8789S. 1540 - 1555 Mar 31 / Apr 1 / 3-f / SMB /

Echo, 60p / Lucia Bean and Boulder / Sun.

8790EM | 2000 - 0300 Apr 1/2 / 3-2-f / Palomar /

18" + Muerwa / Gene and Carolyn /

CN3y - 3 films.

8791 AN | April 2/3 / 1900 - 0430 PST / 10-3-unf /

Palomar / CN3y 41 films, CN3 5m W

CN3 5m East / 18" + Muerwa / Gene +
Carolyn.

For use this has been
the year of the once a century
rains, especially in Mexico.
But its a joy to see the
progress on Raves Observatory
Walter Scott House of
of (L8786E)

April 12, 1992

8801 E

Last night David Levy and I observed the heavens from his roof. We did not use telescopes or binoculars. Only our eyes and imaginations.

Steve O'

Notes on the sky: R Con Bon is visible to the naked eye with averted vision. The first-quarter Moon was up, and it was surrounded by the silvery-blue aureole of Bishop's Ring. With some convincing glimpses, I do believe I could also see an orange outer fringe, which, by the way, is obvious at mid-day. M13 in Hercules was also visible.

Steve O'

April 13, 1992

8799

Around midnight, David and I turned Minerva toward Cygnus and spied Nova Collins '92. We had no charts, but based on its appearance on this fine moonlit evening we could tell it was still about magnitude 7 1/2. We also called the discoverer, Peter, while we still had our eyes on that "new" star, but we had to leave him a message: "Peter, It's beautiful."

• •
• — Nova Collins in Cygnus

Notes
R Con Bon is more easily observed tonight despite the Moon. Interestingly, the blue aureole around the Moon from Pinatubo aerosols was less prominent.

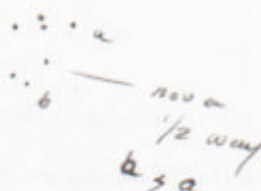
Thank you for the views, David.

Steve O'

April 13-14, 1992, 8800. + 8802

Another wonderful evening under the stars with David Levy. Our first session was held around 10 p.m. under moonlight and (asked) Pinatubo haze. Our thoughts were with Peter Collins, with whom we had good and silly conversation; that is our way. The coyote howling was the high light - a "hello" to Donna, I'm sure.

4:30 a.m. David swept the morning sky ^{for comets} while I patrolled the Milky way for novae; I used his wonderful 7x50's. Nova Collins
One suspect in Sagittarius, in pupette. Appears to be a known star (SAO).



Thanks for a great visit David. I'm sure Donna would have loved the stay as well.

Your friend
Steve

Note: Cerro Negro
Volcanic haze in
morning?

8792 AN | Apr 3/4 | 1900-0500 / 3-f / Palomar /
18" + Murerwa / CN3 5mW, 5mE, CN3G
40 films.

8793 AN | Apr 4/5 | 1900-0500 / 10-f till fog at
end. Very dark sky / 18" + Murerwa / Palomar /
CN3 5mW, 5mE, CN3g 50 films.

8794 EM | Apr 5/6 | 1930-0300 / 1-f / Palomar /
18" + Murerwa / Gene + Carolyn / — fog.

8795 AN | Apr 6/7 | 1930-0530 / 10-f / Palomar /
18" + Murerwa / Gene + Carolyn / CN3g.
CN3 25m, W+E. ? football on way
home.

~~8796~~ 8796 AN April 7/8/ 19:30-05:30 / 2-10-F /
Palomar 18" / Gert + Carolyn / CN3G 22 films,
Carolyn found a comet on last night's films; it
cleared so we took some excellent confirmation
films tonight. 1992 F, Comet Shoemaker-Levy.
(Probably Periodic Comet Shoemaker-Levy 8).

8797 AME / 1900 - 2000 / 10-F / Sands near Cal / Az border /
CN3 5", West with Muriwa.

8798 M2 / 0400-0500 / 10-F / JM4 / Muriwa + Miranda / - /
CN3 40" E.

8799 E. / April 12/13 / 2300-0000 / 7-Fm / JM3 / Steve
O'Meara / Muriwa

8800 M2 / April 13/14 / 410-5:30 / 10-F / JM4, 3 / Miranda +
Muriwa / Steve O'Meara / CN3 15"

8801 E Apr 11/12 / 1100-1200 / 7-F / JM3. / Steve

8802 E Apr 13/14 / 1100-1200 / 7-Fm / JM3 / Steve.

8803 M₂ 0410-0530 / 10-F / JM4, 3 / Muriwa -
Miranda / Steve O' / CN3 30" E.

8804 E. Sat, Apr 18 / 2200-2220 / 3-F / Gary's house.

8805 E Sun, Apr 19 / 1930-2030 / 10-3-F / JM3 /
Muriwa 1-1 CN3 1^h W.

8806 E Mon, Apr 20 / 1930-2330 / 10-F / JM4 /
Miranda + Muriwa / CN3 3^h W.

8807 E. Apr 21/ 2000-2200/10-F/5M4/Miranda
Minerwa/CN3 130^m NW.
8807E. Apr 21/ 2000-2100/10-F/5M4/
CN3 0^m 15^m.

8809 E / Apr 23/ 2000-2015 / 10^{UNF} / 5M4 / Miranda /
Bounder, in spirit!

8810 EM / 25/26 / 2300-0300 / 10-3-F / Palomar / 18 / Minerwa /
C. Shoemaker + Henry Holt.

8811 AN / 1900-0500 / 10-F3-F / Palomar / 18 + Minerwa /
Apr 26/27 Carolyn Shoemaker + Henry Holt.
1900-0500.

8812 AN 27/28 / 1900-0500 / 10-F / Palomar /
18 + Minerwa / CN3. CN 3F+G. 5^m

8813 AN Apr 28/29 / 1900-0500 / 10-UNF, then F when
g felt better. / Palomar / 18 + Minerwa / Carolyn,
Henry CN3 CN3G ~~5^m~~

- in memory of Bounder -
a favorite cat
you will be missed
CN3 15M W+E.

8814 EM / Apr 29/30 / 1900-0300 / 3-F / Palomar /
CN3 + Minerwa
15min W+G.

8815 M / Apr 30 / 0100-0300 / 3-F / TSP /
Minerwa / TSP. CN3 5^m

8841M

June 13: Dawn. David + I observe his comet about 5 mins after moon sets + about 30 mins before the sky is too bright. Comet has brightened + a wide fan is easily visible. Looks like a fish. Tom Glino

8842EM

June 13: About 11:00. Compare Nagler 13, 20, + 35mm. David + I both agree the 35 is wonderful. Some talk about the problem with coatings the eyepiece may have. We disagree on the images the 13 + 20 offer. I believe the 13 is better. David thinks otherwise. Spend a few restful minutes on his roof before retiring. Jim Bean likes his first view from this location. Tom Glino

8816EM. Fri May 1/2/2300-0100/2-F/ITSP/
Miranda/CN3 5^mW.

8817E/2000-2100/7-F/3M3/Aa May 5.

8818M/0 May 7/8/0330-0430/10-F/3M4/Miranda +
Miranda/CN3/0ⁿ20^mE.

8819E May 9/10/2000-2100/3-F/KPND
Spacewatch evening.
CN3 30^m

#8843EM

We did not see a ~~☾~~ tonight, however, we saw a partial Lunar Eclipse. Jenni & Christopher saw the moon, Jupiter, M-57 & Albireo (and the moon, then the moon again). Also saw a meteor (don't forget to send a report to the ALPO meteor section!)

Jin
&
Family.

8820E May 10/20:15-20:30/7-Fm/JM4/Miranda
+ Minerva / CN3 5^mE, CN3e G.U.

~~8820M2~~ ⁸⁸²⁷ 0430-0330 / 10-F, humid / JM4/Minerwat
Miranda / CN3 25^mE.

8821M May 11/12 0230-0330 / 9-F / JM4/
Minerwat + Miranda / -1 CN3 1^hE.

8822EM / May 21/22 / 2330-0030 / 3-F / RTMC /
Steve Edberg et al.

8823E / May 22/23 / 2200-2300 / 3-F / RTMC /
Minerva / CN3 10^mW.

8824 E May 23/24 / 2200-2300 / 10-3-F / RTMC /
Minerva CN3 1^hW.

8825 EM May 24/25 / 2200-0030 / 3-10-F / RTMC /
6" F/4 binoculars + Minerva / test - M did ok!

#8843EM

We did not see a ~~☾~~ tonight, however, we saw a partial Lunar Eclipse. Jenni & Christopher saw the moon, Jupiter, M-57 & Albireo (and the moon, then the moon again). Also saw a meteor (don't forget to send a report to the ALPO meteor section!)

Jenni
&
Family.

8820E May 10/20:15-20:30/7-Fm/JM4/Miranda
+ Minerva / CN3 5^mE, CN3e G.U.

~~8820M2~~⁸⁸²⁷ 0330-0430 / 10-F, humid / JM4 / Minerva +
Miranda / CN3 25^mE.

8821M May 11/12 0230-0330 / 9-F / JM4 /
Minerva + Miranda / -1 CN3 1^hE.

8822EM / May 21/22 / 2330-0030 / 3-F / RTMC /
Steve Edberg et al.

8823E / May 22/23 / 2200-2300 / 3-F / RTMC /
Minerva / CN3 10^mW.

8824E May 23/24 / 2200-2300 / 10-3-F / RTMC /
Minerva CN3 1^hW.

8825EM May 24/25 / 2200-0030 / 3-10-F / RTMC /
6" F/4 binoculars + Minerva / test - M did ok!

- 8826EM May 27/28/ 2345-0030/ 3-F/Wesleyan/
 ← 8827 20" refractor 2 Sco.
- 8828 M. May 28/29/ 145-3:45/3-F/St Jacques/
 Minerva / Louise Bernstein / CN3 1^h5^mE.
- 8829 M May 29/30/ 0200-0330/ 9¹/₂-F/St Jacques/
 Minerva / CN3 1^hE.
- 8830E. June 1/2/ 2200-2230/ 4-F/Gerry's house/
 Minerva / Billy / CN3 5^mW, Jupiter, M13,
 2 UMi.
- 8831AN June 2/3 2000-0430/10-F / Palomar/
 CN3G-40 films; CN3 5^mW.
- 8832AN June 3/4/ 2000-0430/10-F / Palomar/
 G+G Shoemaker, G. Leonard / CN3G-45 films
 CN3 5^mW, 5^mE: Independent discovery of
 Comet Tanaka-Machholz at very low altitude.
- 8833AN June 4/5/ 2000-0430/10-F / Palomar / G+G,
 G / CN3 10min W, 5^mE, 1991a,
 CN3g ~45 films.
- 8834AN / June 5/6 2000-0430/ 10-F / Palomar/
 C+C+G / CN3 5^mW, 5^mE,
 1991a.
- 8835 AEM / June 6/7/ 1900-0300 / 3-2-1-F / Palomar/
 18+Minerva.
- 8836AN / June 7/8/ 1900-0500/ 7-10-F / Palomar/
 18+Minerva / G+C+G / CN3 30^mW, 5^mE.

- June 8/9 | 0355-0410 | NW of Tucson / Minerva
CN3 5^m E.
- 8837 M → June 9/10 | 0308-0408 | 10-F / Miranda /
8838 M CN3 45 M E
- 8839 EM June 10/11 | 2100-~~2300~~^{0400 int} / 10-F | 60" rd -
Jupiter. CN3 Minerva 5^m E.
- 8840 M June 11/12 | 0350-0415 | 10-F / JM4 /
Ophelia / CN3F / Shoemaker-Lavy 1991a.
The Lima Bean woke me for this
Successful session!
- 8841 M June 12/13 | 0355-0410 | 10-F | moonset
+ twilight / JM4 / Miranda / Tom
Glavin / 1991a, 9th mag.
- 8842 EM June 13/14 | 2300-0030 | JM4 / Miranda +
Minerva / Tom Glavin's eyepiece tests - see
a few pages back for Tom's comment.
- 8843 EM 1900 - 0208 | 17-F | JM3,4 |
Minerva, Miranda, Echo / Michael
Magee, Jim Scotti + family -
Karin, Jennifer, Christopher |
CN3 35^m W during max. eclipse -
a very dark, > 70% eclipse -
- 8844 E 12030-2108 | 17-F | JM4 / Minerva / CN3 30^m W.

8845 E | June 17/18 | 2030-2300 / 3-F / JM4 / Miranda +
Munira / JM4 / CN3 35^mW.

8846 M / 0300-0400 June 24/25 / 7-F / JM3 /
CN3 20^mE.

8847 M | June 25/26 | 0030-0400 / 10-7-F / JM4 - Munira
+ Miranda / CN3 2^h30^mE. almost slept
through this beautiful night.

8848 AN | 1930-0500 / 7-Fd. CN3 35^mW, E / Munira,
61", Schmidt / Bigelow. CN3 Ftg.

8849 AN | 1930-0530 / 10-F / Vega - Brae obs for
TAA picnic CN3 30^m with 14" refl.
199/a₁. 5 min E with Munira
Then Bigelow, Schmidt CN3 Ftg.

8850 M | 0330-400 / 10-F / JM4 / Miranda / CN3 25^mE

8851 E | 2000-2200 / JM4 / Miranda, Munira / CN3 10^m.
June 30th + CN3e - Crv.

8852 AN | 2100-0410 on July 1/2 / 10-F / JM4 + CN3 F.
Jim Scotti
CN3 20^mE.

8853 M | 0030-0430 on July 2/3 / 3-F / Mt Bigelow /
CN3g Schmidt, J. Scotti

8854 M | 0030-0430 on July 3/4 / 10-F / " / CN3g J Scotti
Bigelow Schmidt.

8855 AN | July 4/5 / 2100-500 / 10-F / JM4 + Bigelow Schmidt /
Jim Scotti CN3 1^hr W, CN3g.

8856 E July 5/6/ 2000-0000/ 7-10-F/
Minerva + Miranda / Garry Rosenbaum/
alignment 199/a₁.

8857 M2 0300-430 / 10-F / CN3 50^mE.
scope in good shape.

8858 E July 6/7/ 2000-0000 / 3-F / CT hunder
storms nearby / CN3F: M81, M82, Comet
Shoemaker-Levy nearby.

8859 E / Jul 15/16/ 2045-2115 /
9-7-Fm / 3M4 / Minerva + Miranda /
CN3 10^m NW. Dinner with Comet
Shoemaker-Levy.

8860 E / July 25/26/ 20:30-20:45 MDT / 1-F /
CARIF / Peter Collins.

8861 E M2 / 1:30-2:30 / 3-F / ~~3M4~~ / Peter Collins)
CN3 1^h ~~N~~ N+E. Minerva.

8862 M1 1:00-1:15 / 3-F / Buffalo.

8863 AN / Aug 11/2 / 2200-0430 / 10-F / Stellafane /
Minerva / CN3 2^h W, E.

8864 AM / Aug 11/2 / 12:30-1:45 / 7-F / 818 - Summit /
2 Perseids

8865 M Aug 12/13/ 1:30-1:45 / ~~10~~⁷-F / 3577 Atwater /
O Perseida.

8866 E Aug 21/22/ 21:30-00:00 / 3-F / Ormaton, Que /
Munrova / RASC / CN3 1^h W.

8867 EM ~~29/30~~ 22/23/ 21:00-02:00 / 3-F / Mt. Sutton,
Que / Munrova / Raffe, Constantine / CN3 1^h W.

8868 EM 29/30/ 21:00-03:00 / 10-F-1 / Starfest /
Munrova / CN3 2^h W.

8869 M September 1/2/ 0:00-0:30 / 10-F / ~~Star~~ W. of
Toronto / Richard.

8870 M Sept 4/5/ 4:30-5:00 / 10-F / JM4 / Miranda /
CN3 20^m E

8871 M 5/6/ 4:30-5:00 / 10-F / JM4 / Miranda, Munrova /
CN3 20^m E

8872 M 6/7/ 4:30-5:00 / 10-F / JM4 / ~~10~~ CN3 15^m W.

8873 E 16/17/ 19:30-21:00 / 10-3-F / JM4 / Munrova,
Miranda / CN3 40^m W.

8874 E 17/18 19:30-~~22~~ 22:00 / 10-3-F / JM4 /
Miranda, Miranda / CN3 2^h W.

8875 AN 25/26/ 22:00-05:30 / 10-F / ~~JM4~~ Hidden
Hollow / CN3 3^h W + E. 1

8876 AN / Oct 3/4 / 19:50-05:30 / 7-10-F

a) RASC from 19:50 to 23:00

b) Mt Sutton from 1:15-5:30

RASC - Helena Katz

CN3 3h E.

8877 E / Oct 13/14 / 18:30-20:30 / 10-7Fm (JM3,4)

Minerva + Miranda / Michael Rudenko

CN3 20^m W.

Comet P/Swift - Tuttle 1992 t1 ~ 10 arcmin
coma, 20' faint tail.

14 Oct 95

Half hour of comet patrol with

Minerva through Boates and Barbara

found M2 and a faint double.

Had a brief look at P/Swift - Tuttle (!!)

Abandon all hope, he who do not want

from Virginia! - of Rudenko

8878 E / Oct 14/15 / 18:45-21:30 / 10-F /

JM3,4 / Minerva, Miranda / Michael Rudenko

CN3 45^m W. Michael did 30 mins, also

west.

PERIODIC COMET
SWIFT TUTTLE



38790^E☆

1900-2100 / 10-f / 5 M4 / CN3 30^mW.

10/20/42

When the history of Astronomy to go is written, this will go down as the most bizarre side trip. "Since you're in Texas," Dave said, "why not stop by for dinner and a show?" Why not, indeed! Left Texas 4:00 am. Arrived 3:30 pm (Just had to see Clyde & Patsy on the way) 14 hours later, it's time to call it a day. What a day! Great talk, great times, even better stories, great friends, great cat. wonderful Orionids - although observing should have started before 3:00 am. We came - we talked - we ate. Thanks for all. To say this was worth it can not be emphasized enough. Good night.

Bob Summerfield Lisa Levioff

PS If this is unrecognizable or doesn't make sense, remember it is now 5:00 am.

8880M Tuesday Oct. 20/21 | 0200-0345 | 3-f |
JMB, 41 Bob + Lisa!

8881M 0 330-0430 | S. walk. | 7-Fm.

8882M 0 400-0445 | S. walk | 3-fm.

Tau
Herculis

PERIODIC COME
SWIFT-TURTL



8883E Nov.

1900-2100 / 10-f / 5M4 / CN3 30^m w.

92 Nov 4

5:20 UT Seeing miserably, bad, hazy, windy, and cold. ~~David~~ David
(Levy that is) found M15 and the Pleiades for me. The moon
was ugly. A lot of political hot air in the lower atmosphere.
Thanks Dave DLR

No ϵ 's again this visit - got here too late for
P/Swift-Turtle. Saw M-1, M-15, h & X Per and Lima Bean.
The stars were better than the Politics! Jim

15 Nov '92

What a combination - great views of Comet Swift-Tuttle
and Zachary's Pizza! Also, M31, the Double Cluster and the
Dumbell Nebula came to visit. But don't forget the wonderful
conversations of the wonderful world of cats, politics and getting
married in Vegas. And to think Vicki was worried about getting
stuck talking Astronomy over her head. Many thanks to our
wonderful Host David. Susan & Vicki

- 8884E. Nov 3/1992 | 2200-2300 | 3-fm | JM4 |
Jim Scotti and David Rabinowitz
- 8885M Nov. ~~6~~ 0400-0530 | CN3 | Minerva | CN3 45^{upper} m E
- 8886M Nov 10400-0500 | full Moon S. walk. } came after 8886M
- 8887M " 10415-0500 | full moon S. walk. } 8887M
- 8888M. 15:00-5:30 | 10-f | JM4 | Minerva +
Miranda | CN3 30m E.
- 8889 ~~PM~~ M. Nov 10430-0530 | 10-f | JM4 | Minerva +
Miranda | CN3 30m E.
- 8890E. Nov 13/14 | 1830-2200 | 10-f | JM4 | Minerva + Miranda |
-CN3 2hW. + Drawing of P/ST →
- 8891E. Nov 14/15 | 1900-2200 | 10-f | JM4 | Minerva +
Miranda | -CN3 2hW.

- 8892 E. Nov 15/16 1992 / 1900-2200 / Dean + Vicki /
 CN3 1h 40m W CN3F 92/11601- P/Swift-Tuttle.
 Comet not well centered; ~~the~~ field not well guided. T_{Max} 100.
- 8893 E. Nov 16/17, 1992 / 1900-2200 / 10-F / 3M3, 4 /
 CN3F Comet P/S-T 92/11701 on TMax 108.
 CN3 1h 15m W. Guiding fine but 10m developing too much.
- 8894 M2 0430-0500 / 3-F / 3MF + S. walk / 1 bright
 Leonid meteor / Lima Bean.

P/Swift-Tuttle
 Nov 14 UT 0300 UT
 8890E.



8895E. Nov 17/18. 1835-2235 / 10-F / JM2, JM4

CN3F. PIST	9211 1801	Oph 1
	9211 1802	Oph 2
CN3 1h	1803	Oph 1
	1804	Oph 2 * 03 07

8896 M2. 10/245-0545 / -F / S. walk.

8897 E 19/20 / 22:30-23:00 / I-10 / Everything lit up bluish white

8898 M. 20/21 / 0000-0130 / 10-F / JM4 / Mirava +
Miranda 1- / CN3 1h 15m E.

8898 M2 | 20/21 / 0530-0545 / 10-F / JM4 / M2 1- /
CN3 15m E. 8897 - found out that
major fireball appeared.

88900 M 21/22 / 0530-0545 / 10-F / JM4 / M2 1- / CN3 15m E.

8901 E 23/24 / 1830-1908 / 10-F / JM4 / Miranda 1- /
CN3 15m W.

8902 AN. 24/25 / 18:00-04:00 / 10-3-F / Palomar
18" + Mirava / Gene + Carolyn Shoemaker)
- / CN3 20m E

CN3g ~ 40 films. Carolyn finds
comet suspect.

8903 AN Nov 25/26 / 18:00-04:30 / 10-3-F / I-154
SR76, then Palomar / CN3 ~~20~~ 05m E
with Mirava CN3g with 18", ~ 40 films
Gene, Carolyn, Mother

8904AN. Nov 26/27/18:00-05:15/10-F/
Palomar / CN3 with Miranda 8 minutes.
CN3g with ^{M13, 5, 92}18" - 62 films.

8905 EM Nov 27/28/19:00-03:30/2-F/
Palomar.

8906 E, ~~Nov~~ ^{Dec} 16/17/1900-2200/10-F/
JM4/CN3 2h W. Miranda

8907M. ~~Nov~~ ^{Dec} 16/17/0400-0500/10-7-F/
JM4/Miranda/CN3 1h E.

* 8908E ~~Nov~~ Dec. 9 (before 8906)
1700-1900/8-F/Las Cruces/Clyde
and Patsy Tombaugh / Eclipse of
the Moon - Moon rose and was visible
just past 3rd contact.

13/14 Dec 95

from F Gemini meteor, 1 regular. Brightest meteor was magnitude 0 with a trail which lasted 10 seconds.

Michael Rudenko -

Dec 13/14 1992

Saw several Geminids! Great to have seen you again and to visit your home.

Bernie Vof

8909 E. Dec 12/13 / 2300-0000 / outside Cliff + Jackie Holmes' house, Riverside / Wayne Johnson, Cliff, Jackie.

8910 E. Dec 13/14 / 2200-0100 / 7-6-F / JMB. Michael Rudenko. Geminids.

(see 8906, 8907)

8911 M. Dec ~~23/24~~^{22/23} / 0430-0600 / 3-F / SMY / ~~10~~ F CN3 w. Miranda 45m E.

8912 M Dec 15/16 / 0430-0600 / T=Fm / Miranda, Murewa / CN3 45m E. (before 8911)

8913 M. Dec 24/25/0515-0630/10-F)
JM4/Miranda 1-1 CN3 1x5^mE.
Beautiful night.

Dec 25-26
26-27

Sne nova patrol in Monoceros etc here

Best

John

12/27/92

David, thanks for your friendship and hospitality. I hope you enjoyed my visit as much as I did and best wishes for finding more COMETS in 1993. Have fun at Palomar and with your writing and travels and as JAM always says "GOOD OBSERVING." your friend and fellow star-gazer. *John*

~~89~~ 892614 M Dec 25/26/0200-0400/
3-F/JM3/Peter Collins 1-1
Nova patrol.

8915 M Dec 26/27/0300-0400/
3-F/JM4/Peter C. 1-1
Nova patrol.

1993

8916M. Dec 31/
Jan 1. 0500-0615/10-F/JM4/
Miranda/-1 CN3 30^m E, cloud-
hopping.

8917M Jan 1/2/0555-0610/3-F/JM3/7x50b/
CNV

8918M 3/4/0515-0615/10-F/JM4,3x/Mars
Miranda/-7x50b/ CN3 35^m E, CNV.

8919EM January 15/16/ 1-F/J-M/ Lima Bean's
birthday party

What?!? No observing tonight? And a whole
25% of the sky was clear too.... We did
not observe P/Shoemaker tonight. We also did not
observe M-42 or Mars. Oh well. But we did observe
Lima Bean's Birthday. Happy 17th! Jim, Kari, Jenni & Chia.

8920M 19/20/ 5:15-6:15/10-F/JM4/Miranda,
Miranda/-1

CN3 1^h E.

8921ES. 20/21/ 15:15-15:30/10-F/JMB/Echo, 80p/
Sun ☉ one big spot

8922 E. Jan 20/21/ 19:00-20:30/ 10-F/ SM4/
Minerva and Miranda/ CN3 1^h10^mW, SW.
Very clear night at last, strong zodiacal
light.

8923 AN Jan 23/24/ 1900-0530/ 3-F/ Palomar/
18" / Gene + Carolyn / CN3g ~47
films.

8924 AN 24/25/ 1900-0530/ 3-F/ Palomar/
18" / Gene + Carolyn / CN3g ~50
films.

8925 ~~AN~~ EM 25/26/ 1900-0300 / 3-F/ Palomar/
Gene + Carolyn / ~8 films.

8926 AN 26/27/ 1900-0400 / 3-f/ Palomar/
Gene + Carolyn / ~8 films.

8927 AN 27/28/ 1900-0400 / 3-F / ~~SM4~~ Palomar / 18" /
Gene + Carolyn / ~6 films.


8928 AN 28/29/ 1900-0540 / 3-10-F / Palomar / 18" / Gene &
Carolyn / CN3g 47 films.

8929 AN 29/30/ 1800-0400 / 3-F / Palomar / 18" /
Gene & Carolyn / CN3. ~8 films.

8930 ~~AN~~ Jan 30/31/ 1700-1730 / 3-F / Palomar / 18" / Tom +
Angie Gino

93 | 1/31

Observed Mars. Seeing is lousy.

Tom Shiner 

8931 E 31/05 2300-0000 / B-F / JM4 / Miranda / Tom /
Mars

8932 M2 31/1 / 0500-0615 / 10-F / JM4 / Miranda +
Minerva - 1 CN3 50m E

March

8933 M 1/2 / 0400-0535 / 10-F / JM4 / ~~10-12~~ / - /
Miranda

CN3 1h 20m E

* 8934 E. 2/3 / 1830-2100 / 7-F / Wilmut + Prison /
D. Keteleer, F. Lopez, T. Gubaly + ~25 unmarked /
CN3 3m, M42, Venus, Moon.

8935 ~~M~~ M2

0330-0530 / 10-F / JM4 / Miranda / CN3 /
2h E.

8936 ~~M~~ M / 0330-05:30 / 10-F / JM4 /
Minerva-Miranda

CN3 1h 25m E.

8937 ~~M~~ M. March 4/

~~19:45-20:45~~ / 10-F / JM4 / Miranda (-)
05:00-05:45 CN3 30m E

8938 S Mar 6. 1200-1400 int / ~~10~~ 7-F / Planetarium /
ARTIST program / Pegasus / Steve Edley

8939 E M2 2300 ~~0100~~ ^{Sun} 0200 / 3-Fm / JM3, 4 + S. walk / Steve.


8940 E. 15/16 19:30-20:45 / 10-F / JM4 / Miranda and Minerva / CN3
1h W.

8941 M2 15/16 5:30-5:40 / 10-F / JM4 / CN3. 0h 10m E

8942 M. 16/17 05:30-05:40 / 10-F / JM4 / CN3 0h 10m W. E.

8943 M. Mar 17/18 04:50-05:30 / 3-F / JM4. Pretty crescent
Moon with clouds surrounding it.

93 | 1/31 | Observed Mars. Seeing is lousy.

Tom Shinn 

8931 E 31 | ~~05~~ 2300-0000 | B-F | JM4 | Miranda | Tom |
Mars

8932 M2 31 | 1 | 0500-0615 | 10-F | JM4 | Miranda +
Minerva - 1 CN3 50m E

March

8933 M 1 | 2 | 0400-0535 | 10-F | JM4 | ~~10-18~~ 1-1 |
Miranda
CN3 1h 20m E

* 8934 E. 2 | 3 | 1830-2100 | 7-F | ~~Wilmot Prison~~ /
D. K. K. K., F. Lopez, T. Grady + ~25 unmarked /
CN3 3m, M42, Venus, Moon.

8935 ~~M2~~ EM2 0330-0530 | 10-F | JM4 | Miranda (CN3) |
2h E.

8936 ~~M~~ M | 0330-05:30 | 10-F | JM4 |
Minerva-Miranda

8937 ~~M~~ M. March 4 | CN3 1h 25m E.

~~19:45-20:45~~ | 10-F | JM4 | Miranda (-) |
05:00-05:40 CN3 30m E

8938 S Mar 6. 1200-1400 int | ~~10~~ 7-F | Planetarium |
ARTIST program | Pegasus | Steve Edley

8939 EM2 2300 ~~0100~~ ^{Sun} 0200 | 3-Fm | JM3, 4 + S. walk | Steve.

8940 E 15 | 16 | 19:30-20:45 | 10-F | JM4 | Miranda and Minerva | CN3
1h W.

8941 M2 15 | 16 | 5:30-5:40 | 10-F | JM4 | CN3 0h 10m E

8942 M. 16 | 17 | 05:30-05:40 | 10-F | JM4 | CN3 0h 10m W. E.

8943 M. Mar 17 | 18 | 04:50-05:30 | B-F | JM4 | Pretty crescent
Moon with clouds surrounding it.

8944 E. March 18/19/20:30-21:40/10-F/TM4/

8949 AN
written

84th day / 281 to come

THURSDAY
MARCH 25

* 8945/

6:00pm

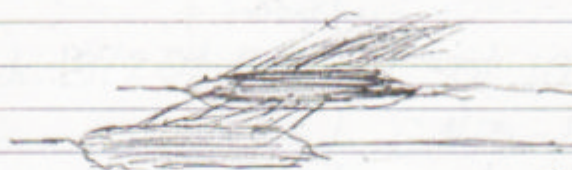
CN3g

and
ophelial

Carolyn discovered the most
lunugal comet today, just
after 4.

9120

ea



on the 2 films,
separated by
~ 2 hours.

8946

written later:

We measured it tonight, and
Jim confirmed it for us

8947/

using the Spacewatch camera. It is
very near Jupiter and appears to be
a cluster or a swarm of comets
- maybe the result of a single
object that has just broken up

8948

These films were taken at my suggestion
on Tues. night, it was pursuant to
suggestion we take a few fields using
some best hamptonium film, since
we do G+C didn't want to waste film.

8949 AN
N

23/24 1800-0400/3-F/Palomar/
18"/Gene, Carolyn, Philippe/

CN3 ~ 30 films.

On the 25th, Carolyn finds a comet



on the 2 films
sep 1h 43m

8950 EM

24/25/1800-0400/3-2-F/Palomar/

18"/G+C, Philippe | ~15 films

8951 E.

25/26/1800-2200/1-F/ Jim confirms 1993e.

* 8961 MS. April 18/19/ 12:15-14:00/ 3-F/ Roof of
CFA/ Daniel W.E. Green, Stephen James
O'Meara / Occultation egress of Venus.

8962 M April 20/21/ 04:30-04:30/ 10-F/
JM4/ Miranda / - / CN3 1^h00^m E.

8963 M. April 21/22/ 3:30-4:40/ 10-F/ (JM4)
Miranda / - / CN3 1^h25^m E.

8964 M. Apr 24/25/ 3:30-4:45/ 10-F/ (JM4)
Miranda / - / CN3 0^h45^m E.

8965 M. April 26/27/ 4:00-4:30/ 10-F/ (JM4)
Miranda / - / CN3 0^h40^m E.

8966 M Apr 27/28/ 4:00-4:30/ 10-F/ (JM4)
Miranda / - / CN3 20^m E.

8967 M Apr 27/28/ 0000-0440/ 3-10-F/ (JM4/
Miranda, Minerva / Wayne Johnson)
CN3 1^h20^m E.

We had dinner at China Rose along with Mike R., Meg &
Tim Hunter. Arrived here ~ 11pm and proceeded to observe SN1993J
(~12 mag) and even saw comet S/L (~14 mag) slightly elongated.
Scanned the Virgo area for SNe, but nothing suspicious seen. Dave
ended the night comet hunting ~ 4.30 am Wayne P. J.

On a frigid evening in January I looked up at
the sky at dusk. The cold twinklings warmed
my thoughts as I remembered a balmy night
on the roof of my friend David Levy's house
in Corona de Trier. I knew he was probably
looking up at the sky as I was now....
scanning, scanning, back and forth
and up and down looking for his
other elusive friends. (and I MISSED him!)
Love + Aloha - Donna 4/19/93

8968 M. April 28/29/ 0330-0440/ 10-F/ J14/
Miranda, Minerva / CN3 1^h00^m E.

8969 M April 29/30/ 0330-0450/ 10-F/ J14/
Miranda, Minerva / CN3 45^m E.

8970 M. April 30 / May 1/ 330-4:35/ 10-F/ J14
Miranda, Minerva / CN3 45^m E.

8971 AU May 1/2/ 20:00-04:35/ 7-10-F-int/
ARTIST program. - Lates CN3 1^h E
Our very first visit! Larry Larry could
not be here, it is so clear and pretty.
Miranda loves Lima Bean, and will
enjoy her "telescope"!

Nancy Lehotsky

On a bright evening in January I looked up at
 the stars of Orion. The red twinkling star
 Betelgeuse and Rigel were a lovely sight.
 On the roof of my house I had my telescope
 in Orion the Hunter. I know he was looking
 looking up at the stars as I was now...
 About two hours ago, something, something
 and up the stars looking for his
 other elusive friends. (and I missed him)
 was + Alpha - Delta + Gamma

May 1 - Astronomy Day!

Thank you for your kind invitation
 and hospitality.

Thea Canizo
 Laura Conroy

May 1 - What a terrific night! My first supermoon
 galaxy M81, and that moon! WOW! Thank you
 so much. I'm elated!

Jonathan Becker
 ARTIST

May 1st 1993 - I had great fun tonight. I saw the moon, a super
 Nova, Mars, + Limabean (newcomer). My 2 favorite things were
 the growing Chair + Limabean. Invite Me Back
 ANY time!

Miranda
 Lebofsky!

8972 M. May 26/76 / 9400-0430 / 10-F / JM4 / M21 - CN3 30m E.
8973 S. May 6/7 / 1800-1900 / 3-F / JM4 / Test for Miranda.
8974 E. May 8/9. 2000-2245 / 10-F / JM4 /
Miranda, Miranda / - / CN3 1h 40m W.

(before 8973)

8975 M. May 3/4 / 0330-0440 / 10-F / JM4 /
Miranda, Miranda / CN3 1h E.

8976 M. May 4/5? / 0330-0400 / 7-F / brief walk.

8977 E. May 9/10 / 19:00-22:30 / 7-F / Larry Lebovsky's
house / Larry, Nancy, and Miranda /
New 6", refl, 5" SCT, and 11" SCT.

The 5" is superb. 6" is pretty good.
11" is out of alignment.

8978 S. May 13 / ~~15:00-18:00~~ 14:30-15:00 / 3-F / JM4 / -.
MAY 13th. Denis Schiller + Angie Kuamme.

Thanks for showing us around it
was very interesting. Amateur
astronomers from South Africa.

DENIS & ANGIE
SCHILLER

P.O. Box 592
MTUNZINI
3876
SOUTH AFRICA

I never really saw "real" telescopes before.
I found it to be really interesting. Thank you
for showing us around and taking the time
to talk to us.

Angie Kuamme

8979 E (before 8978) / May 12/13 / 2000-2300 / 3-F /
Larry L's house / Larry, Nancy, Miranda /
Several pairs of 7x50 binoculars / C. checks out
OK.

8980EM2. (after 8978.) May 13/14/ ~~2~~ 2300-0030/
3-f/ Large house + 14" reflector.

8981M3. 4:00-4:40/ 3-f/ JMY/ Minerva -/
CN3 10^mE.

8982 M. May 14/15/ ~~2300~~ 03:30-04:00/
~~to~~ 3-f/ JMY/ Miranda -/ CN3
0^h40^m East.

8983 M May ~~15~~ 16/17/ 0340-0400/ 10-f/ JMY/
3 Miranda -/ CN3 20^mE.

8984M 17/18/ 0330-0415/ 10-f/ JMY/ Miranda,
Minerva -/ CN3 -/ 01^hE. 1 galaxy
- suspect for a white.

8985 M 18/19/ 03:00-04:20/ 10-f/ S. walk, JMY/
Miranda, Minerva/ CN3 40^mE.

8986 M P 19/20/ 03:30-0340/ 10-f/ Palomar.

*8987ANS. May 20/21/ 19:00-0630/ 3-f/ Palomar/
CN3, 29 films + 1 skunk on road
that sprayed our car.

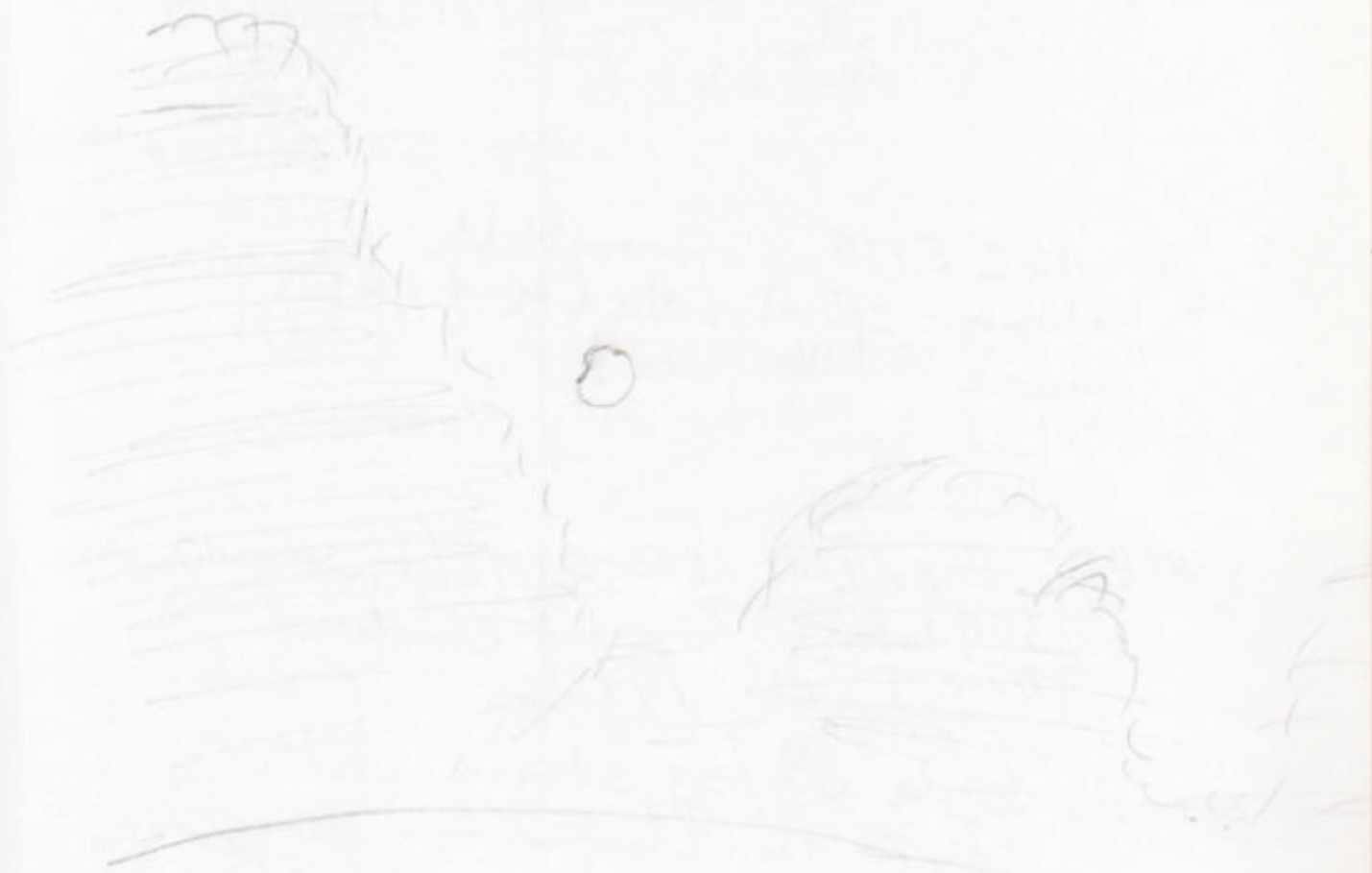
Gene + Carolyn here for AN part;
some fog but cleared for
our shots, especially in morning hours.

It's now 5:40; fog - almost time
for sunrise eclipse
Maybe 60" site is better.

Still have high hopes to see this eclipse.



05:55 View from 60"



06 11 PST: Near the end of the
eclipse. Seen at the 18" dome.

Went to 60" and saw that the cloud tops were just above me. Clouds reflected sunrise at about 5:50. At 5:55 the cloud layer dropped just briefly, and then for a few seconds I got the view first above. No filter was needed as the fog provided a glorious sight. Got a good view for about ten minutes. Drove back to 18" and saw view above, as well as eclipse end around 06:15. The fog made this one

a very dramatic event. I had two exposed
18" films. The thinner one worked for a while
when the fog layer was thin enough, or I could
see the eclipse reflected in the 60" window.

The second view - the one from the 18-inch
front door - was drawn just a few minutes
before the end of the eclipse.

06:21 - May 21,
1993.

NGC 5775 is a remarkable
galaxy - spiral with lots of ? HII
regions. Very nice!

8988AN. May 21/22/ 2000 - 04:45 / 1-3 then 10 after
~2:30 / Palomar / Gene and Carolyn /
18" Schmidt. 14 films.

Clouds and fog stayed until
~2:30 then cleared to a gorgeous
night. Some of our films
were near the Bart Bok "Milky Way".

~~8989~~ 8989 AN. May 22/23 / 20:15-05:00 / 10-F / Palomar /
18" Schmidt / Gene and Carolyn / CN 3g: 46 films.
This was an awesome night. Marine layer darkened the sky
over Los Angeles and San Diego. The Milky Way was
beautiful. Telescope and observers in good form.
Comet! at a low southern field
found by Carolyn on tonight's films.
199205 23.20885 (really May 22!!!)
13 24.8 -34 00 $M_i = 16.5$

~~8990~~ 8990 AN May 23/24

Tonight's comet position

1993 05 24.20572

13 24.0 -34 01

Moderately condensed, tail 15 sec
long in p.a. 20°



20:00-04:45 / 10-F / Palomar / 18" Schmidt / ~~F~~
Gene and Carolyn / CN 3G: 46 films. Comet
confirmed as shown at the start of this session.
Beautiful night, though not quite as dark as
last night was.

^{24/25}
8991 AN. 2100-2400 / 10-F / Palomar / 18" Schmidt /
Carolyn, David Wilkerson / - /
CN 3G: 22 films. Sky cleared after
midnight; fog earlier.

8992AN May 25-26 - / 2200-0400 / 10-2-F /
Palomar / 18" ~~Edwin~~ (!) Palomar Schmidt /
- Gene and Carolyn / - / CN3g: 25 films.
Sky clear for a while, but humidity was
high - had to de-dew lens often, and
finally the fog came and we had to close.

8993AN. May 26/27 / 2000-0530 / 7-10-F /
Palomar / 18" Schmidt / Gene and Carolyn /
CN3g: 34 films. Sky clear and dry but
bright due to an absence of marine layer
over Los Angeles and San Diego.

8994E. May 27/28 / 2200-2300 / 7-F /
Palomar / 18" Schmidt / Lisa Levicoff and Bob
Summerfield / Look at sky from briefly
opened 18" dome and look at opened
200" dome ~~there~~ with moonlit sky + shadow.

8995E. Fri, May 28/29 / 1900-2200 / 7-Fm /
Riverside Telescope Makers Conference /
- / ~~ET~~.

8996S. Sat. May 29/30 / ~~2100-2200~~ 1000-1800 int /
RTMC.

8997 E.2. 2100-0000 / 7-Fm / RTMC / Look through
40"-reflector + other scopes.

8998 S. Sun May 30/31/~~7~~-F / RTMC. / 1000-1700.

* 8999 EM 2⁺ 2300-0130 / 7-3-F / RTMC. / Helen
Mahoney. nice look at M17 and walk along telescope
alley and main telescope field.

* 9000 E. Monday, May 31 / June 1 / 2100-2215 /
7-fm / outdoor restaurant Lil Abner, NW of Tucson /
-Bob + Lisa / nice dinner under a clear sky.
Birthday and comet 1993 h celebration.

9001 M 2 0030-0415 . 77-Fm / 599E / Bob +
Lisa. / CN3 0^h15^m with Miranda.

The trailer is finally packed, fixed and out of
the driveway and with any luck the car should
make it back to Philadelphia without any problems
since we don't have to drive through Boston again.
With all the talk about river ice cracking, comet
discoveries, "safe" asteroids and LIMA BEAN the preliminary
outline on the biography has begun. Now all that
is left is to finish the chapter concerning a certain
evening stroll through Riverside. More to follow at a
future date...

Lisa + Bob

P.S. Happy Birthday to you...

9002 E June 2/3
2230-2340/7-F/JM4/Ophelia,
Miranda/Moon.

Thanks for a great visit, one canuck to another John Nemy Whistler B.C.
& second look @ the stars! Jeri Skrimawozzy
Newport Beach, Ca

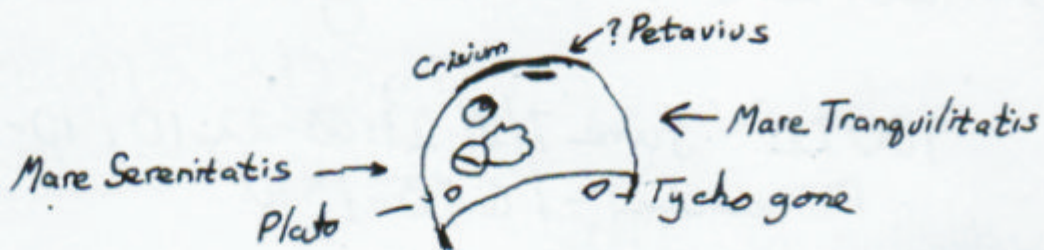
9003 M2. - 03:40-04:40/7-Fm, moonset +
dawn | -1 Ophelia / CN3F, Hercules.
930603-1 and 930603-2.

9004 ME. June 3/4 | 2100-2200/7-Fm/
Clark's house with Lynda and
June ' Jeanette. Discussion about
P/SL-9.

* 9005 M2. June 4. EBLIPSE
0355-05:30/7-F/JM3 + S. walk / Minerva, 7x50/
Lima bean / Eclipse as follows:
4:10. Significant darkening on
Moon's SW (Moon co-ordinates side)
Tycho's rays very st obvious.
Ghost image of Moon shows much
more darkening on eclipse side
than real image does.

4:15 First umbral contact.
I brought Lima Bean up to
the roof to watch the eclipse.
Ghost image shows ~2/3 darkness
when regular image is ~1/3 dark.
And ruddier color.

04:35 Contact of the shadow on Tycho.
Dark side visible, but barely.



04:41 Contact on Plato. The shadow marches across the Moon very quickly.

04:43. second contact on Plato. Seeing grows remarkably worse as Moon approaches treetops.

04:44 Contact on Mare Serenitatis. Tycho's ray across this feature is beautifully obvious and striking. Twilight is advanced now.

04:48 Moon going into trees from this site moving now to walk + binoculars.

05:02 through binoculars ^{Earth's shadow} ~~Moon~~ made its first contact with Mare Crisium.

05:09 Moon vanishes - enters totality.

A really lovely eclipse.

9006 E June 6/7/2050-2155/10-3-F/
JM3/CN3 1^hW with Minerva and phone
call with Helen Mahoney.

9007 E June 7/8/ 21:00-22:10/10-F/JM3/4/
Miranda -1 CN3 1^hW.

9008 ~~A~~ E June 8/9/ 21:00-22:50/10-F
JM4/Miranda -1 CN3 1^h35^mW.

9009 M2. 0300-0400/7-fm/South walk. /meteor
in SW.

9010 A.E. June 9/10/ 20:45-21:30/10-F/JM4/
Miranda -1 CN3 0^h30^mW.

9011 M. 0340-0400/10-7-F/JM4/Minerva/
-1 CN3 5^mE.

9012 M. June 10/11/ 0315-0400/7-F/JM4/ Miranda,
Minerva / CN3 35^mE.

June 11 - We saw M81, Jupiter, the Omega Nebula,
and the Milky Way. I wish I knew
my constellations better! Thanks
for another great observing! Nancy L.

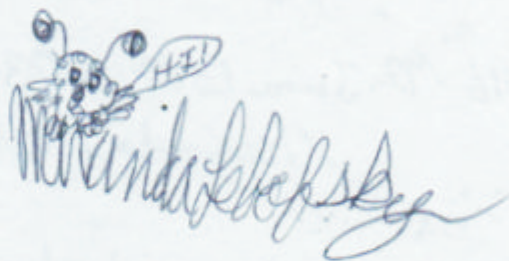
we had a great time, wish I
had more time on the 16".
Thanks

Larry L

6-11-03

11:06 P.M.

yesterday was my 11th Birthday (6-10-93), tonight was the second observing night for the A.R.T.I.S.T. program. The Milkyway made a big white cloud across the sky. see ya soon!



9013 ME June 11/12 / 2000-0000 / 10-F / JMB-JMF -
JM2, 4 / Miranda, Ophelia, C5, C6.

Artist Program - about 40 people!

M81, Jupiter, M13.

9014 M2 0330-0400 / ~~10~~ F / JM4 / Miranda / - /
CN3 30^m E.

Comet P/Shoemaker-Levy 9 (2000.0)

June 14, UT ~~11 58.02 - 2 55.7~~

12 07 18.00 - 2:00 12.0

9015 EM (June 12/13 no obs. due to illness -
bronchitis, asthma...)

June 13/14/ 2000 - 0100/10-F (Mt Bigelow)
61" Astronomy Camp. Jupiter,
1993e, P/Shoemaker-Levy 9 / MB, M57.

9016 M2 June 13~~4~~ 0345-0410/ 7-F (JM4)
Miranda / CN3 15^m E.

9017 M. Monday 14/15/ 0330-04:00/9-F (JM4)
Miranda, Minerva / CN3 35^m E

9018 M. Tuesday 15/16/ 0330-04:15/10-F (JM4)
Miranda, Minerva / CN3 15^m E.

9019 M Wed. 16/17/ 0345-04:15/10-F (JM4)
Miranda, Minerva / CN3 15^m E.

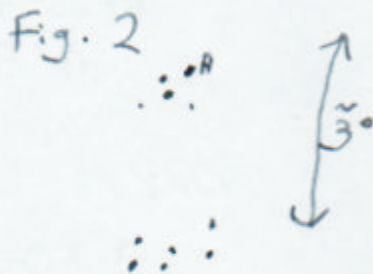
9020 M ~~Fri~~ ^{19/20} Saturday, ~~17/18/~~ 00:00-04:00 int.
From New Mexico to home / JM4 / -/
Miranda, Minerva / CN3 15^m E.

9021 M Sun 20/21/ 0300-0400/ 10-F (JM4)
Miranda, Minerva / CN3 105^m E.

9022 ~~E2~~ (before 9020/ 19/20/ 2000-2015/2 10-F)
to Deming / Sunset + green flash.

9023E. Monday, 21/22 June / 2130-2145 / 10-F / JM4 / Miranda / -1 Mars + Regulus in same low power field. CN3e TV Crv (13.0)

*9024 M2 0225-030 / 10-F / JM4 / Miranda + Minerva / -1 CN3 90° E. While finishing the comet hunt from Minerva at 03:55, I saw a great comet-like flare in the east. I quickly turned the 6" toward it. In the field of view was a bright "star" with a flaming comet-like trail behind it. (See Fig. 1)



In less than a minute the rocket motor shut off.

Now there were two groups of objects, totalling eleven in number, all travelling in equal ballistic trajectories. They were moving quickly among the stars, at about the rate of a degree per second. They slowed down gradually until they appeared for a moment to be as stars themselves. They were, however, rotating and changing in magnitude by about $\frac{1}{2}$ magnitude in every few seconds. The 11 objects then started down, still varying, but all at the same ballistic rate. They finally disappeared beneath the trees to the east. Then a burst of greenish-white, and a glow (perium?) appeared, then spread out and faded. The mission must have been from White Sands Missile Range.

→ see Fig 2

Fragment "A" more dramatically than the rest.

9025 A.E. Tuesday, June 22/23/ 1930-0100/
10-F / Mt Bigelow 161" / Don McCarthy and
the Astronomy Camp (advanced). Mercury
thru lecture, then 193e, Jupiter, M87.

9026 M2. 0345-0400 / 10-F / JM³4 / Minerva,
Miranda - CN3 15^m E.

9027 M. Θ Wed. June 23/24 / Minerva /
R+I-10 betw. Phoenix + Tucson / CN3 15^m, low
NE.

9028 M Thu. June 24/25 / Minerva, Miranda /
3:30-4:30 / 10-F / JM3,4 / CN3 35^m, E.
Call from Jim.

6/29/93 Rosina Stevenson

6/29/93 Susan Patton

6/29/93 Donna Stefanek, Janna Stefanek, Paul Capanna

6/29/93 GARY + ELIZABETH BATES

6/29/93 Rick Rusty + Jeff Hoffman

6/29/93 Elsa Jimbres

6/29/93 Angela Jimbres

6/29/93 Lynne Jim

6/29/93 Donna + Alex Samorano

6/29/93 Jay Glasse

6/29/93 Bill Dink

Kristi Eichhorst
 Kathy Eichhorst
 Addison Rowe
 Bruce Elliott
 Rick & Jonathan/Kira
 Liza Fleming
 Thea L. Carino
 Jim Jaworski
 Jimmy Jaworski
 Jim Newman
 B.J. Harper M.E.S.T.A.
 Parker D. Readington M.E.S.T.A.
 KASSINA KUSKI M.E.S.T.A.
 Ardis Macidich M.E.S.T.A.
 Linda X. Kitching M.E.S.T.A.
 Louise Fiebner M.E.S.T.A. - MI
 Kathleen Sparlin - M.E.S.T.A. - MI

6/29 as usual it was an adventure. I never leave here
 uneducated. I'll never lose the little dipper again.
 What a nebula! Jonathan Becker

Finally found the little dipper. Thank you. The moons
 of Jupiter were also a first. The stars are always
 fascinating thanks for bringing them more in focus.
 Kithia Becker 4/29/93



*9029 EM. June 29/30/2000-0100/10-F/JMB, 2, 4/
 See above - A.R.T. I.S.T. and M.E.S.T.A groups.
 Steve Edberg + The Lebofskys too.

Miranda
6/29/93
10:00 P.M.

Tonight was the 3RD ARTIST, Observing
Night. A lot more kids came this time.
As always I had a lot of fun! Almost
everyone loved Lindbean. See you again
next time!

Larry Dunlap Tucson AZ

Julianne Kouzar Ada, MI
Michael R. Reinick Grand Rapids, MI

9030 M2. Jun 30 / July 1 / 01:00-02:00 / 10-F / 3M4 /
Miranda / - / CN3 30^m E. ?

**9031 S. July 6/7 / 02:00-03:30 / 3-F / Crowell Tower
roof! / Roy Bishop, the ATV crew, and Bruce,
Cokoon. Interview with magnificent view
of Annapolis-Cornwallis River valley.

9032 EM2 / 23:00-01:30 / 3-F / Maktombus
Observatory / - / Mary Lou Whitehome, RASC
Halifax, Roy and Gertrude Bishop.

*9033 E / July 7/8 / 21:00-22:00 / 3-F / Wolfville
Dyke / - / Roy and Gertrude / lovely sunset.

*9034 EM2 00:00-02:00 / 3-F / Maktombus
observatory / Roy / First light on Roy's
new 17.5" telescope. Despite it's not ~~yet~~ being
collimated yet, the view of Saturn (first

object) and the Moon, were striking - Tycho's ray system glorious.

9035 S. July 8/9/10 - noon / 7-F / Acadia / saw observatory atop Huggins science hall.

9036 E July 13/14/10 7-F / San Diego state univ. obs / Bob Summerfield, Suzie (Guston) Chippendale + others / ASPols. session.

9037 E. July 14/15 / 7-F / San Diego Zoo / Helen Mahoney, Andy Fraker, David Morrison / wonderful!

9038 EM. July 15/16 / 04 03:40-04:10 / 10-3-F / JM3, 4 /
Minerva / Miranda / - / CN3 25m E. ?

9039 M 16/17 / 03:30-04:10 / 10-F / JM4 / 10-F / CN3 25m E.

9039 E a strange session. July 16/17 / 0030 -
40 17/18

0050 / 9-F / JM4, 3 / Minerva / trying to see if someone had a comet near Antares. It was probably a ghost. But I was tired and a bit tense.

9041 M2. 03:30-04:30 / 10-F / JM3, 4 / Minerva + Miranda / CN3 25m E.

9042 M July 18/19 / 02:30-04:15 / 10-F / JM4 /
Miranda / CN3 1 hr. E.

9043 E July 19/20 / 2100-2115 / 10-F / JM Spot Road /
Near Cila Bend / Minerva - / CN3 5m W.

9044AN. July 20/21/18:20:00-04:00 / 3 then 10-F /
Palomar! / Gene + Carolyn Shoemaker /
18" Schmidt, Minerva CN3 15^m E.
CN3g 42 films!

Calm night; sky cleared after early cirrus.
Beautiful dark sky as marine layer
intensified. Comet suspect was artifact.

9045AN. July 21/22 / 2000-04:30 / 3 then 10-F /
Palomar! / Gene and Carolyn /
18" Schmidt, Minerva / CN3 15^m, of
which 5 was in the east before dawn
and the preceding 10 was in the west at
dusk. CN3g 43 films!

Got a fair image of PLS-L9.

9046AN. July 22/23 / 2000-04:30 / 3, then
10-F / Palomar / Gene and Carolyn /
18" Schmidt and Minerva.

CN3 15^m, of which 5 min was in
the west before / after dusk, and
10 min in North East before
dawn. CN3g 41 films.

9047AN. July 23/24/2000-0500/10-F/
JA Palomar / Gene and Carolyn / 18" and Minerva /
CN3g CN3 10^m E. Comet suspect in Auriga-Lynx.
42 films. Couldn't refind it after interruption, and
attempt to take a film didn't work.

9048AN July 24/25/ 2100-0500/10-F / Palomar /
Gene and Carolyn / 18" Schmidt and Minerva /
CN3 10^m E. Still cannot find suspect
but we have an exposure of the field at
least.

CN3g #37 films-

9049AN July 25/26/ 2100-0500/7-10-F /
Palomar / Gene + Carolyn / 18" Schmidt +
Minerva. CN3 15^m E. Suspect was
a planetary nebula. CN3g.

9050AN. July 26/27/ 2100-0600/7-10-F /
Palomar / Gene + Carolyn / 18" Schmidt +
Minerva CN3 15^m W + E. CN3g, ~25 films

9051M. July 27/28/ 2000-0100 int / B7-f /
on road.

9052M July 28/29/ 0300-0400 30/10-F / JM4 /
Minerva Minunda / CN3 ~~30~~ 35^m E.

9053 S-E. July 31 / Aug. 1 / 1300-0000 / clear 7-F /
Blackcomb Mountain / John Perry and
others. The best part of this session
was the half-hour ride down the
chair lift, with John and a Celestron
11-inch telescope! A beautiful view
to the North, gibbous Moon behind
us. # I thought I had "seen it
all" in more than 9000 sessions of
observing - but riding a chair lift
with an 11-inch telescope + mount
(in a box) - is something completely new.

9054 E August 6/7 / 2300-2330 MDT /
Don Parker, Jeff Beish / outside
Clyde + Patsy Tombaugh's house

9055 ~~E~~ S. August 7 / 1400-1430 / 3-F / Sunspot,
N.M. / Two spots seen through binoculars
+ projection. ALPO tour.

9056 SE 2 Aug 7/8 / 2100-2100 / 3-F / white
Sands Nat. Mon. / ALPO tour / sunset,
clouds and evening sky.

9057 S. Aug. 8 / 0855-0915 / 3-F / Clyde +
Patsy's house / 3" 52 power refractor
just made by Clyde Tombaugh. Look
at a group of 3 spots, one of them very
large. - Clyde W. Tombaugh
Pluto or at in Hades
Hades

9058 M. August 10/11 / 03:00-05:00 / 3 then
7-F / 5MF / Perseid Meteor Watch. Several
bright meteors.

+9059 AN. August 11/12 / 19:30-03:00 / 10 then 7, F /
Palomar then Tryggstad's house / Perseid Meteor Watch
Several bright meteors - in fact there were
many more bright ones than faint ones. Also,
~~their trails~~ ^{the brightest ones lasted}
almost twice as long as is typical for
Perseids. 18-inch, Minerva.

CN3g 3 sets of films, ~ 26 films in all.
Carolyn Shoemaker (musk-brain)
Gene Shoemaker (husband of m-b)

CN3 5 min West sky.

9060 AN. August 12/13 / 20:00-03:00 / 10, then 7, F /
Palomar / 18" palomar schmidt + Minerva /
Gene and Carolyn / CN3g, 32 films.
CN3 5 min East sky.

9061 AN August 13/14 / 20:30-05:15 / 10-F /
Palomar / 18" + Minerva / Wonderful
Night. 48 Films CN3g. with Gene & Carolyn.
CN3 11 min. E. sky.

9062 AN Aug 14/15 / 20:30-05:00 / 10-F / Palomar /
18" + Minerva / CN3g 48 films. lovely night.
CN3 7 min E. sky.

9063 AN Aug 15/16 / 20:30-05:15 / 10-F / beautiful night /
Palomar / CN3g 48 films. CN3 6 min E. sky.

The meteor we saw was NOT a Kappa Cygnid. Ah, but we had fun anyway. Peter Jedicke

9064AN Aug 16/17/ 1930-0400 / 10-F? / Palomar /
Gene + Carolyn / - / CN 3g k.

9065AN Aug 17/18/ 1930-0500 / 10-F? / Palomar /
Gene and Carolyn / - / CN 3g.

9066 E Aug 18/19/ 2330-0500^{int} / Airplane
from San Diego to Chicago / views
intermittently. Going North.

9067 E Aug 20/21/ 2300-0100 EST / ~~Aug~~ Starfest /
Minerva / Constantine, Raffae / CN 3. 15^m N.

9068 AN Aug 21/22/ 2200-0400 / 10-F / Starfest /
Minerva, other scopes / other people / wonderful
clear night BUT asthma is not good.
CN 3 1^h W, ~~to~~ 0^h 30^m E.

~~9110~~
9069M Aug 30 1:00 - 2:00 / - near Westmount Jr. High School.

9110S. September 14/15/17 F / Keri Richardson + classes,
+ Larry + Nancy Lebofsky. Safe Sun.

9070 Sept 15/16 M / 03:30-05:00 / 10-F / JM4 / Miranda / - /
CN 3 90^m E.

9071 Sept 16/17 M / 03:30-05:00 / 10-F / JM4 / Miranda / - /
CN 3 90^m E.

9115 M. Sept 8/9/ 2010-0115^m / 10-F / JMB / in memory of
a dear friend, Cliff Holmer. Farewell, Cliff.

C'est sans doute l'un des hommes les plus honnêtes que je connaisse :
une passion, un compagnon fidèle, un ciel clair et de nombreuses
découvertes qui font de lui une célébrité. David, merci pour cette visite
chaleureuse et amicale dont le souvenir m'est pas prêt de s'effacer.
J'espère que je ne trahirais pas vos pensées en écrivant.

Thank you very much for your warm
welcome. Hope to see you again to tell
us your next discoveries.

Stéphane Aurin
ciel & espace

Stéphane

Alain CIROU
Chief Editor of Ciel et Espace
19 septembre 1993



90725 19 Sept / 16:00 - 19:00 / 3-F / 3MB / Ciel et Espace.

9112 M ~~Monday~~ Monday 20/21 ~~At~~ 3:00 - 4:00 / 3-F / 3M4/S. Walkw. Lima
Beach

20 Sept / ~~19:30~~ 20:00 - 0000 / 10-F / 3MB / Channel 9 -
Australia
Thankyou for the view of saturn

Wayne Lynch

CH 9 Australia

⇒ 9111 E / September 20, 1993 Monday / 7-F / 3MB.

I've seen alot of HONEYMOON STARS - THE ONE'S YOU SHOWED US WERE
A MILLION TIMES MORE IMPRESSIVE.

REGARDS

STEVE DAVIS

CH. 9 AUSTRALIA!

Davis Thankyou - Our program will air on THE NATIONWIDE NINE NEWS
EVENING BROADCAST in LATE SEPTEMBER 1993. It will be seen across
Australia.

Congratulations: Another "Star" is born!

Darren Clarke

9 NETWORK AUSTRALIA

65 ANZAC BRIDGE, 20 Sep 93

The men from "Down Under" got a good tour of the sky that is "Down Under" to them! Oh, and Jim was here too. No comets tonight!

Jim

9073 M / 03:00-04:30 / 10-F / JM4 / Minerva / - /

Sept 19^M CN3 1^h E. Lima Bean, S. walk with Lima Bean. 9075 comes before 9074. First walk

* 9074 Sept 22 1993, Tuesday night.

M / 0015-0100 / 10-F / JM4 / - / Lima Bean / This has got to be one of the most exciting sky events I've seen. at 0730 UT tonight the shuttle passed over my observing site. I was watching it with Lima Bean and I had to think it was bright enough that he saw it. At least he was looking in that direction for a bit. The shuttle, or at least the air around the shuttle, was a deep orange ball, around 3rd walk

9075 M2 / 0330-0508 / 10-F / JM4 / Miranda / Lima Bean / ~~Shuttle~~ CN3 45^m E. ~~Monday Tuesday, September~~ Mon Sept 20th 2nd walk

9076 M ^{22/23} / 0300-0430 / 10-F / JM4 / Miranda / Lima Bean / S. walk CN3 1^h E. ~~Tuesday Wednesday, September.~~ 4th walk.

9077 M. 10100-0200 / 10-F / 3577A / water balcony, 10/2/93 Your talks are always so inspirational.

It's always such a pleasure to have you visit and chat the night away.

The door is always open for you.

9078 S. Oct 2 1993 / 16 1530-1600 / B-F / Leo + Denise. Sun session Denise Sabatini

2/10/93 It's been a pleasure meeting, listening to and talking with you. The conversation has been as usual, fascinating and humorous. I'm looking forward to your next visit. Maybe the skies will finally clear up.

[This is also referring to 9078] Oct 2/3-4 pm / Leo, Denise, & Peggy.

Peggy Krosby
10. Box 7031
Shorbot Lake, Ont.

90795.



Please make it a small orbit and frequent passing! Annick Epstein

9080 EM. Oct 9/10/1600-1800/0-F/IRASC.

NOV 6/7 - Yhea Canizo 2000-2330/10-F/3MB/ARTIST.

Miranda Lebofsky ^{2/20/93} (for 2 times
 CAG
 before
 the Eclipse)

Larry & Nancy Lebofsky

* 9074M concluded from facing page

magnitude minus 1. However, the orange contrail stretched all the way across the sky, from east to west at about five degrees from the southern horizon. Forming a first magnitude arch above the southern horizon, the contrail lasted almost five minutes before it faded noticeably.

Note afterwards:

(written later -)

This was the last session I had with the Lima Bean, except for 9076M. He died the following week, and sometimes when a bright satellite passes by, I remember my night under the arch, when I said goodbye to my wonderful friend.

before 9080 was: 9116M/9117M - see after 9115M

9081S. Oct 19/ 17:00-18:00/7-F/CARH/1-1/Sun.

9082M Oct 23/24/ 400-510/10-F/3M4/ Miranda/1-1
CN3 40m East.

9083EO Oct 31/32/ 3-P/Santa Rita abbey/mostly clouds.

9084SE Nov 4/5/ 1630-2000/3-F/S.R. abbey)

Michael Magee, sisters (Saturn, near Saturn Nebula!

11/28/93 Totally awesome!

11:02pm Mary Lee Rankin

Three occultations! Thea Cartez (for #9094EM)

28 Nov. 93
11:46

Mixed and including. David Rankin

I came, I saw, I didn't see (The moon), then
I saw again! Wonderful eclipse! Jim Scott

A gorgeous site - the eclipsed moon sitting in
the Hyades!

Jim Hunter

(for #9094EM)

Nov 13/14
9085 ANE | 1800-2300 | on way to Palomar | 3-f | general
watching. ^{10+ then 3 then 1}

Nov 14/15
9086 ANE | 1800-0350 ~ | 3-f | Palomar | 18" +
Minerwa | Gene + Carolyn Shoemaker + Ted Mellis
CN3g 17 films. ^{MELIS}

Nov 15/16 | 1800-0500 | 10-f | Palomar | Gene + Carolyn (+T. Mellis)
18" + Minerwa | CN3g 54 films!

Nov 16/17 | 1800-0500 ~ | 3-f | Palomar | 18" +
Minerwa | Gene + Carolyn + Ted | CN3g 11 films.

Nov 17/18 | 1800-0500 ~ | 3-f | Palomar | CN3g 31 films.

Nov 18/19 | 1800-0500 | 10-f | Palomar | CN3g - 47 films
discovered very fast moving object.

Nov 19/20 | 1800-0400 | 10-f | Palomar | CN3g - 45 films
CN3 Minerwa 5m E

9103M | Dec 23/24 | 05:45-05:55 | 10-f | 3M3 | 7x50b |
CN3 5m E

9104E | Dec 24/25 | 2315-2355 | 7-fm | 3MB | 7x50b | - |
Nova Cas 1993. in memory of Walter Scott
Houston. Farewell, Scotty.

9102 AN - also saw Comet Mueller
1993a with Jean Mueller. ←

9085

* 9092 S. / November 23/24 / 12:00 - 3:00 /
7-F / Pisto Middle School / Rosina Stevenson
and her 3 science classes. / Echo-60p / -
Safe Sun demonstration.

* 9093 S / November 27/28 / 11:00 - 12:00 / 7-F /
Clyde (Patsy) / Minerva, 9" refl, 5" RFT /
pictures taken of Clyde.

* 9094 EM. November 28/29 / 1900 - 0300 / 10-7-F
JMB / see facing page / Total Lunar Eclipse
L=1.5.

9095 M December 5/6 / 2:00 am - 6:00 am / intermittent
view while driving to Palomar. Very clear night.

9096 EM December 6/7 / 1800 - 0300 / 10-7-F / Palomar /
Gene and Carolyn Shoemaker / CN3g 38 films

9097 EM December 7/8 / 1800 - 0400 / 10-F / Palomar /
18" + Minerva / Gene + Carolyn / CN3g. 42 films

9098 AN December 8/9 / 1745 - 05:30 / 10-F / Palomar /
18" + Minerva / Gene + Carolyn / CN3g. 56 films.

9099 AN December 9/10 / 17:40 - 05:30 / 10-F / Palomar /
18" + Minerva / Gene + Carolyn / CN3g, CN3.5m E
also 56 films

9100 AN December 10/11 / 17:50 - 05:30 / 10-F / Palomar /
18" + Minerva / Gene + Carolyn / CN3g, CN3.5m E
57 films

9101 ~~AN~~ December 11/12 / 17:50 - 00:00 / 10-F / Palomar
18" + Minerva / Gene + Carolyn / CN3g, CN3.5m E
46 films

9102 AN / December 12/13 / 17:50 - 05:30 / Palomar / CN3g, CN3.5m E

9105 EM - I should be before 9103, after 9102 / Monday,
December 20/21 / 1900-0100 /
3-2-F / JMB / Miranda /
ARTIST session.

Elsa Jimbres

Angela Jimbres

Betty Falconer

Sylvia Remington, Rachael, Helen, & Jack Remington Jackson
Donna & Tom Stefanek great to see you!!!

Thea Canizo

Susie Canizo

May Graham

Kathy Eichhorst (Merry Christmas!)

Debbie Stahl

Larry + Nancy Lebofsky

12/20/23 } Cloud Out, still a fun

night. 9:40 pm. Early NIGHT

Saw 20, 25 min. of sister act. Oh well,
Good NIGHT, Miranda Lebofsky

9106M Dec 26/27/0400-05:30/3-F/JMF/walk
9107 E Dec 27/28/6:30-10:15 unit 7-Fm/6341 E Brian Kent/Schreiber, children + Mother.
9108 M2 Dec 27/28/0450-05:15/7-Fm/JMF/-/-1 Walk

9109M December 29/30/0400-0500/3-F/South walk.
sky mostly clear, mild.

9110S. should be before 9070M - see there.

9111E. should be before 9073M - see after 9072S.

9112M. see after 9072S. should be there.

— sorry for the mix up these last few pages.
Observing log was not kept up to date
during 2-month crash to finish
Skywatching.

9113M. Thursday, December 30-31/5:30-5:45/3-F/JMB.
a short session.

9114M Friday, December 31/32/0200-0200/7-F/JMF/
South walk.

9115M - should be before 9110S or 9070M. see there.

* 9116M. should be before 9081. October 12/13/
0200-0500/10-F/JM4+S.walk/Miranda/-/
CN3 1^h E. Memorial service for Lina Bean.

9117M. also before 9081. Oct 13/14/0400-0500/
10-F/JM4/Miranda/-/CN3 1^h E.

1994

January 2/3

9118E / 17:30-00:00 / 3-F / Palomar / Eugene + Carolyn
Shoemaker / 18" / CN3g: 18 Films.

9119EM / January 3/4 / 17:40-0200 / 10-F / Palomar /
Eugene and Carolyn Shoemaker / 18" / CN3g: 29 Films.
Beautiful night. Warm, Temp 59-55°F
no wind. Delightful. Photographed Nova Cas
1993.

9120 - see after 8945.

9121EM Jan 4/5 / 1800-0100 / 1-2-F / Palomar /
Eugene and Carolyn Shoemaker / 18" / CN3g.
0 films.

9122AN Jan 5/6 / 1800-0415 / 10-F / Palomar / Gene + Carolyn /
18" / CN3g 46 films. Cold.

9123AN Jan 6/7 / 1800-0515 / 10-F / Palomar / 18" / Gene and
Carolyn / CN3g: 51 films. Cold-down to 34°.

9124S. Jan 7/8 / 1600-1620 / 3-F / Palomar / 18" / Gene and
Carolyn / picture with 18".

9125EM2 Jan 7/8 / 1800-0230 / 3-F / Palomar / 18" / Gene
and Carolyn / CN3g / 33 films.

9126EM Jan 8/9 / 1800-0400 / 3-10-F / Palomar / 18" /
Gene and Carolyn / CN3g / 121 films. 2 new
maybe Apollas, F10s.

1994- January

- 9127M. 12/13 / 0330-04:15 / 10-F / JMB / beautiful night.
- 9128 M 13/14 / 0555-06:10 / 10-F / JMB / CNV with
7x50 binoculars.
- 9129M 15/16 / 05:00-06:00 / 10-F / JMB / Miranda,
Munroval CN3: 0^h 45^m # East.
- 9130M. 16/17 / 06:00-06:15 / 10-F / JMB / CNV
with binoculars.
- 9131M. 17/18 / 04:40-05:45 / 10-F / JMB / CN-III
1^hE with Miranda.
- 9132~~M~~E 18/19 / 19:30-19:45 / Larry's house / 7-F /
Constellations with Larry Lebofsky.
- 9133M2 03:15-04:50 / 10-F / JMB / Miranda (-)
CN3 1^h 20^m East.
- 9134S. 21/22 / 13:30-13:45 / Edmonton, Physics
Dept.
- 9135M. Jan 27/28 / 04:00-04:30 / 2-F / JMF.
- 9136E 29/30 / 19:00-2330 / 10-7-F / JMB /
CN3. 5min.

Miranda Lebofsky - No observing, just a flat out party

Nancy Lebofsky - The first clear night in several... the sky was very spectacular!

Larry Lebofsky Fun party beautifully clear night!!

Thera Carizzo Fun talking to all of you!

The Scott's It took Karri 1.002 Billion seconds before she could come to this party! But she made it! B.T.W. here is our new comet symbol (instead of ☺)



9137 E. January 30/31/ 21:00-22:00/10-F/

9138M JM4/CN3 30m W.

9138M February 4/5/ 4:30-6:00/10-F/JM4/Miranda/CN3

9138M ~~Jan~~ February 5/6?/ 04:00-05:30/10-F/1^hE.
JM4 CN3 ~~30~~ 30m E.

9140 M Feb 7/8/ ~~10~~ 04:40-05:00/3-F/Jack
Horkheimer's house/ -1 ~~CN3~~ hot, humid.

9141AN Feb 9/10/ 1930-0600/3-F/Winter Star
Party, Florida Keys/CN3 30m E.

9142EM Feb 10/11/ 2000-0300/3-F/WSP/CN3 2^hW.
Attempt to see P/S-L 9 with 18", failed.

9143EM Feb 11/12, 1200-0230/3-F/WSP/CN3 1^hW.

9144E Feb 12/13/ 2100-2130/10-F/WSP/farewell.

9145M Feb 14/15/ 0530-06:00/10-F/JM4/Miranda/-/
CN3 325m W.

9146 M. February 15/16 | 4:30-6:00 | 10-F/SM4/
Miranda, Minerva | CN3 1^h E.

9147E. Feb 20/21 | 19:30-22:00 | 2-F/SM4/
Mark Bailey, Jim + family.

Observed the moon just past first quarter - through 16" cd
6" telescopes - saw Proclus! Plus a few bright stars; all
through cloud (that's what you expect when a 'theorist' comes over...).

MEG

Very nice observing - got to see all 6 stars that were
visible through the clouds along with the moon! Jim
(with Jeani & Chris too)

9148 M. Feb 21/22? | 05:40-06:00 | 10-3-F/SM4/
7x50 binoculars. CN5, Twt Hzn.

9149S. February 22 | 1:00-2:00 | 7-F | Centennial
School | -Echo, 6Op | Gary Bates,
many children.

"Safe Sun" - although fireproof
bag didn't ignite. One large spot.

Very successful session.

9150 M. Feb. ²⁷28 / ~~March~~ 1 | 2:30-02:30 |
7-fm | walk.

9151 M Feb 28 - Mar 1 | 4:10-4:40 | 7-fm | walk.

9152 E. March 11/2/19:30-2300/10-f/JM4,3/Miranda/
CN3 2x20" W. CN3e TVCrV L13.0.

I dedicate these hours of observing to the memory of Wieslaw Wisniewski, who died last night.

In the early spring of 1987 he and I observed from the 60-inch at Mount Lemmon. We took a long series of ten-minute exposures of Comet Halley, and since the telescope was guiding well, we used those ten-minute intervals to get to know each other. Wieslaw told me of the comet hunter Wilk, who was spent his last years in a concentration camp in Poland.

But another night he described how, when doing photometry with the 60-inch, he loads the dry ice barehanded. I shuddered when he said this. "But David," he explained, "when we were escaping during the war, we spent several days in the snow. I no longer have feeling in my hands."

"But Wieslaw," I argued - "you may not feel it, but it's still damaging ~~them~~ your hands."

"Yes, I guess it is," he sighed.

During those weeks at Mount Lemmon, I came to respect Wieslaw as a dedicated observer and a kind friend. As we watched Halley's comet fade during that time, I thought that it is people like Wieslaw who make observing worthwhile, fun, and special. I will miss him very much.

9153 M2 March 1/2/ 2:45-3:15/7-fm/ JMF, Swalk.

9154 M. March 2/3/ 3:00-3:30/7-fm/ JMF, Swalk.

9155 M. Mar 3/4/ 5:30-5:45/7-fm/ JMF/ 7x50b/
CN5.

9156 AN Mar 4/5, Friday / 19:40-05:30/10-f/ ~~JMF~~ Kitt
Peak National Observatory / Minerva, 20x80b./
Dianne, Robert, + Peter Sedlicke.

Robert Sedlicke Peter Sedlicke
CN3 with Minerva 1^h 15^m W.

Later

at JMF CN3 with Minerva 0^h 30^m E,
+ Miranda

9157 E Mar 5/6, Sat / 19:45-0000/10-f/ JMF/
Miranda. 1-1 CN3 2^h W. with John Griese
over the phone.

9158 ~~F~~ S. Mar 6. 2:45-3:00 pm / 3-f/ JMF/
Vigil + grandchildren / Sun with
Echo. Successful Safe Sun
demonstration with "glad" & trash
bag. Ignited very quickly -
"Glad" is good bag to use.

Chris Lynch, Matthew, Alvin Woods.

9159EM2 Mar 6/19:00-03:00/10-F-3/SM4/

CN3 1h W, with Terry Dickinson + David Healy and Peter Jedicke. Globular clusters + Messier objects.

There's nothing quite like observing from your backyard, David! And I really think your 40cm Miranda is the best damn 40cm 'scope I've ever used. Thanks again.

Peter Jedicke

9160AS Mar 7/1200-200/3-F/SM4/Terry - photos.

9161M2 0330-0400/3-F/SMF.

9162S. Mar 8/12:00-2:00/3-F/SM4,3/Terry Dickinson/
Minerva, Miranda, Echo. photos.

9163E2 1900-20:50/4-F/Catalina State Park/
Larry, school children. CN3 5^m W

*9164M3 0415-0545/10-F/SM4/Miranda, Minerva/
CN3 1h, E.

This session was conducted in memory of Walter Scott Houston. He meant so much to me, as a friend, as a teacher, and as a mentor, who was humorous + wise. I so much enjoyed the times we had over so many years.

9165 E. Discovered that children seem to have
an easier time looking through 2" eyepieces.
March 9, Wednesday 1930-2100/3-F/school children.

9166 M2 0315-0345/10-F/3MF/Minerva/1-
CN3 15m E.

*9167 S. 1400-1730/3-F/Palomar/Meade 10" LX200
photo.

9168 AN. Friday, March 11/12/1920-0530/3-10-F/
3+ Palomar/18" Schmidt. / Carolyn Shoemaker,
Peter Jedicke.
CN3g: 38 films. Comet suspect [asteroid].

9169 ~~AS~~ S. Saturday, Mar 12/1500-1600/3-F/
Palomar/Peter + Dianne/walk through
of 200-inch. At last I have walked in the Temple!
- Peter

9170 AN2. 1900-0530/110-F/Palomar/bright
sky. 18" CN3g 47 films. Carolyn, Peter.
An experience I shall always treasure. Peter Jedicke

9171 AN Sun Mar 13/1900-0500/10-F/3+ Palomar/
-CN3g Carolyn Shoemaker, Chip Wilson.
18-inch [Note added: on March 23 Carolyn discovered
a comet on field 46-6. on field search for 88 R₂ a
Traflet].

9172 AN Mon Mar 14/1900-0500/10-F/Palomar/18"/David
"Chip" Wilson, Carolyn Shoemaker. CN-3g

9173 EM Tues Mar 14/5 cloudy 1900-0200.
9174 EM Mar 16 cloudy 1900-0130.

9175 EM. Mar 17/1800 - 0200 / clouds, drizzle.

9176 M. March ~~19~~²⁰ / ~~0300~~⁰³⁴⁰ / 10-F / JM4 / Miranda / -CN3~~3e~~ TVCV.

March 22, 1994 - with my hubs for my

evening with you.

Jim Reston

9177 ~~M~~E. March 22 / 2130 - 2230 / 3²-F / JM3, JM4 /
Miranda, Minerva / Jim Reston, writing a story
for TIME. / Moon.

9178 M March ²³24 / 0440 - 0500 / 3-F / JM4 / Miranda, Minerva /
CN3 / 5m E. clouds

9179 EM March 24/25 / ~~0~~2200 - 0130 / 7-Fm / JM2 /
Ophelia / - / CN3F. Search for confirmation of
new comet. 4 films taken.

Pamela K. White - Channel 6 -
Thanks for a fascinating interview
anniversary of discovery

9180 ~~E~~ M March ^{25/26/}27/28 / 0300 - 0340 / T-Fm / JMFTS.

9181 E ^{walk} 26/27/28 / 19:25 - 19:40 / 7-Fm / JM8 / moonrise

9182 E 27/28 ~~27/28~~ / 19:00 - 19:20 / 3-F / Corner Golf Links &
Kolb / too cloudy to go home
to check for possible new comet S-L.

9183 E2 / March 28/29/3-F / 5M4,3 / Miranda / The

MacDermotts / Moon, Jupiter.

To my Beloved David who unashamedly lovingly
shares his treasures with us. Ashley + Pat + Kelli.

9184 E Man 29/30/10-3-F / 5M4 / Miranda / - /

CN3 1^hW. Unsuccessful search for
possible new comet Shoemaker-Lewy.

Saw bright comet McNaught-Russell.

9185 M2. 0230-0300 / 3-Fm / 5M4 / Miranda / - /

~~E~~ Jupiter .

Seeing = 5

Transparency = poor

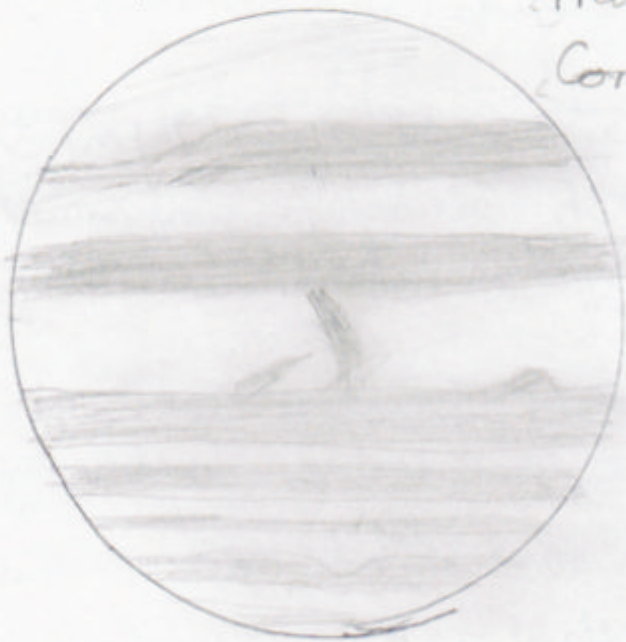
Contrast was very

poor -

features

hard to

see.



9186E / 30¹³ Mar / 8 pm - 11:10 pm / 10-F / 5M4 / Miranda +
Munira / Mike Terenzi / CN3 1^h 30^m.

Observed Comet McNaught-Russell at mag. 6.5 with
David using the 16" & 6"; Better in the 16". Very obvious
tail but not rich in dust. Diffuse comet; kind of similar
to comet Austin 1990. Beautiful night, no wind. I
rediscovered the joys of gazing using 14x70 Fujinon
binoculars. Observed two NGC clusters below M48.

- Mike Terenzi
Flandrau Science Center, ~~East~~
TAAAT

Unsuccessful search for new comet
Shoemaker-Levy.

9187M / April 1/2 / 0030 MST - 0200 / 7-Fm /
Palomar / Carolyn Shoemaker / 3 fields, 6 films
in unsuccessful search for new comet Shoemaker-
Levy.

~~9187~~ 9188 EM 2/3 / 1900 - 0200 / 10-3-F / Palomar /
Carolyn Shoemaker, Henry Holt / 18" /
CN3g 33 films. Carolyn successfully
recovered our new Comet Shoemaker-Levy
1994d at 8 22 55.71 +27 03 28.0.
on field 33+3. ~~33~~

9189 EM 3/4 / 1900 - 0300 / 10-F-3 / Palomar / Carolyn +
Henry / 18" / 31 films. Comet S-L 1994d. 30 films

9189 EM / Apr 4/5 / 2000-0400 PDT / 1⁶⁰³-10-F / Palomar / 18" / Carolyn, Henry
Comet's first image more cohesive. But the second
one, taken using a yellow plexi filter, was slightly
more extended, though fainter.

The comet was captured in a 10-minute
exposure similar to the one taken at itscovery
on March 14. ~~⊗~~ CN3g 30 films

On the 23rd ^{of March} Carolyn was scanning field
46-6 for the trojan asteroid 1988RO. The pair
had been taken on two nights, but the second
pair seemed to be taken at a better time, with
better images. She found the comet as two
long streaks ~~///~~ "Oh my, what do I have
here! It's a comet but
it's moving too fast."

Had she scanned the first pair instead,
the comet would have been missed since it was
too far south!

9190 EM Apr 5/6 / 2000-0400 / 3-F / Palomar / 18" /
Carolyn, Henry / CN3g: 30 films.

9192 EM April 6/7 / 2000-0300 / 3-F / Palomar / 18"
Carolyn, Henry, Jean / CN3g ~~30~~ 12
films

N

02:30 PDT



S

9193 EM^{7/8} 1900-0340 / 3-2-F / Palomar / Carolyn,
Henry, BBC view / 14 films.

91984 EM Apr 7~~8~~ 8/9 / 1900-0100 10-fog-F /
Palomar / - / CN3g - 0 films.

9195 E Apr 11/12 / 2045-2330 / 10, then 3, unfort -
Comet is cut unately / -F / SM 2, 4 / Ophelia, Miranda

Apr 12.2 7 36.69 +34 53.6

Photo of Comet Shoemaker-Levy 1994F.

Time	Duration	Notes
21 58	10 min	
22 12	5 min	
22 22	10 min	
22:36	5 min	- cirrus
22 45	5 min	
22 54	15 min	some cirrus
23 12	5 min	cirrus

9196 M April 12/13/ ~~03~~ 01:30-02:00/10-F/SMF+walk.

9197 M2 0430-0445/3-F/SM4/Miranda/-/CN3 5^mE

9198 E. Apr 13/14/ 1900-1945/3-F/Naylor School/ Kathy Currier, ~ 20 others/ ~~to~~ Minerva / Moon, Venus.

9199 E2 | ^{65 Gem}
2050 10 min
2109 " 10 min
2122 " 10 min

2015-2305/10-3-F/
SM2, SM4/ Ophelia,
Miranda/-/4

2143 σ Gem 7.5 min cirrus

CN3e: TV Crv, LB

2232 " 10 min

CN3F: search for
comet Shoemaker-
Levy 1994d.

~~Apr 13/14/ 20:30-22:45/
10-3-F/SM2, 4/
Ophelia~~

unsuccessful -
comet too faint

9200 AE before 9196M. Apr 12/13/3-F/SM4/7:00-7:15

Flandrau / Michael Terenzoni. / The Moon and
Venus in conjunction. Beautiful through
cirrus.

9201 EM. April 14/15/

1:30-2:00/3-F/SMF, walk.

This session was held as a
break between sessions to try to
locate SL 1994d in last
night's data. Sadly, the
comet must be too faint.

*** 9202 M 2 / April 14/15 / 0345-0600 / 10-f / JM4 /

Miranda 1-1 CN3 30 minutes. E.

Discovered a comet near α and β Equulei.

Found just before 4 am after about 10 minutes of comet hunting; talking over the phone with Peter Jedicke. Since my computer was in the shop, I resurrected the Kay Pro to check to find out that the comet was a new one - what a feeling to find out it was!

⊗



$M_c = 10.5$

Revised pos.

$\alpha = 21 \ 23.4$
(2000.0)

$\delta = +5 \ 26$

9203 M April 15/16 / 0375-0450 / 10-f /

JM4/Miranda, Minerva 1-1 CN3 40 mins. E.

Met Comet ~~Taka~~ Takamizawa-Levy 1994f.



Michelle Kermes 4/23/94 the rays look spectacular

Sonja Stefank

Jaqueline Unge

Bryan Rove I'm excited!!!

Denise + Edward Burgo

Jessica Pasa age 8

Craters, dots, and a mans face.

How many times 9 I Looked at the moon

Its great

all the stars are brighter here! visit #3 Rick Hoffman

How relaxing and spectacular. Joy Glasser
everything was breathtaking! - Laura Conroy (visit #3)

THANK YOU FOR ALLOWING ME INTO YOUR SPACE. Love
As always David your generous sharing equals the
Spectacular sky Gloria O'Murphy

Chris LaClair

Thanks for teaching us about the stars
and solar system.

Daron LeCompte

is this what comet takamisakako ^{is} Levy
looks like? 

Ana-Alicia Robles - Thank you! It was an exciting
night. First time I've seen Jupiter + ~~3~~ the
moons.

April 23, 1994 9:25pm

Liz Redondo - It was great seeing you again.

The night was bright with the beautiful moon.

I'll let you know the next time I see an

"astronomer" at Smith's again viewing Saturn. HA HA

9204EM / Saturday, April 24³ / 1900-0005 / 7-fm /

JM4 / ARTIST observing session.

← Gibbous Moon.

9205M2 0130-0200 / 7-f / S walk.

9206M Sun Apr 24 / 1900 = 9130-0200 / 7-f / S walk.

9207E Monday, April 25 / 2200-2230 /
7-f / Flandrau Planetarium + Sc. Center /
Observing was while the theatre + building
were cleared because a member of the
audience had arrythmia. He ran
8 miles earlier. Looks like he'll be fine.

9208E Tuesday, April 26 / 2300-2330 /
3-f / Roy Bishop's house, Avonport,
N.S. / View of Roy's telescope. EDT

9209E Wednesday, April 27 / ~2300-~0000 /
1-f / near Roy's house, in a marsh / - / Roy /
Peepers! Small peeping toads making
a real racket!

9208AE: Saturday, April 30 / 2130-2330 /
10 3-f / Miami / 16" F / 5 / Don Parker, Jeff
Beish, Carlos Hernandez / JUPITER!
visually, w/ blue filter, + CCD.

9209M Tues May 3 / 0130-0200 / 7-f / JM4 / S walk. MST

9212 E. ^{CDT} May 4 / ~~02~~ 2000-2200 / 10-F /
* Observing at Powell Observatory,
Astronomical Soc. of Kansas City.
30" reflector / CN3 15m W,
M51, Jupiter. Beautiful
images!!

92135. May 9 / 10am-10:30 MDT / 7H-F /
Clyde Tombaugh, Patsy / Minerva /
Shoebox. Setup for tomorrow's
eclipse.

I will observe the eclipse
with a 3-inch refractor
with solar filter and a
power of 70.

Also made a 40-mm
unsilvered mirror and
reversed right angle prism
to dim down the sun.

Sincerely
Clyde W. Tombaugh

92145. May 10 / 8:15am - 11am / ~~to~~ 7-F /
Patsy and Clyde's house / ~~To~~ Annular Eclipse of
the Sun

8:46 First contact spotted through
Munera.

Just 31 years after Clyde and I observed
a total eclipse in Alaska!

Brad Smith

Its great to see the eclipse from Clyde's house!

Jim Smith

Christopher S.
Jennifer Scotti

Simply incredible. I can't get over this great
fortune to share this eclipse experience with
everyone. Thanks to Jim, David, and especially Clyde
and Patsy for sharing this day with me.

Mark Hamby

10:15 AM Two college students who decided to
drop by to view the eclipse from the best spot
in Las Cruces

Frank Rojas
Rosie Quintana

What a thrilling experience! And to witness
it all in such luminous presence!

Wunderbar und einmündig.

Rev. Rosemarie (Carnegie)

Wonderful view of the annular eclipse
with projected image with minerva
many thanks A super image.

Clyde W. Tombaugh

10 May 1994

What a morning to remember with
special friends, you David + Brad and
all are so special to us. As I said we
are now all one group forever.

Love Patry T. 10 May 1994

A Few moments in Time Become Fixed
in our minds and hearts - TODAY
BROUGHT US OVER. THANK YOU!

DON ROLLINS

9215 EM2. / 10:55 P.D.T. to 03:00 / 3-F/

Palomar / 18" f Minerva / Gene and

Carolyn Shoemaker / CN 3g^{26 films} + views through
Minerva + ortho^{eyes}

What fun to back at Palomar with you
looking for P/S-L10! You have a beautiful
new comet in 1994 f. Carolyn Shoemaker

With the impending crash of P/S-L9, our lives seem to be
spinning out of control Gene Shoemaker

It was an enjoyable trip over here!

Timothy B. Spahr

1994

9216 AM. May 11/12/1900-0300/2-1, clearer
later / Palomar 18" + Minerva. / Gene, Carolyn,
Tim Spahr. No films.

9217 AN May 12/13/1930-05:00/10-F/
Palomar 18" + Minerva / CN3g # 33 films.
beautiful night. Heavy marine layer
over San Diego + Los Angeles. Warm;
T = ~ 57° F. CN3 15^m E.

9218 AN May 13/14/1900-05:00/10-F/
Palomar 18" + Minerva. / Gene + Carolyn,
Tim Spahr / CN3 5^m W; 20^m E, view
of Takamizawa-Loy 1994F. as Gene
photographed it.
CN3g = 43 films.


9219 AN May 14/15/19:00-05:00-17-F/
Palomar 18" + Minerva / Gene + Carolyn,
Tim Spahr / 18" + Minerva / CN3 5^m W.
view of Takamizawa-Loy 1994F. with
breakfast. CN3g ~ 40 Films.

9220AN. May 15/16/19:00-0500/7-10-F/Palomar/
~~10-F/Palomar~~ Gene + Carolyn, Tim Spahr/
CN3g ~ 40 films.

9221MP May 19/20/0255-0300/10-F/JMF.

9222M. May 20/21/~~19~~ 0330-04:15/10-F/JM4)
Miranda/CN3 30m.

9223M May 21/22/0100-0115^{EQT}/6-F/
Detroit/-/Peter + Dianne

*9224EM May 24/25/~~23~~ 2230-0100/3-F/
Stanford Observatory/John Griese
Charles Scovill, others/22" + small refr)
Partial eclipse of the Moon. Very nice
through small telescope 

9225M May ~~25~~/26/27 0145-0200/3-F/
Southwalk.

9226EM May 29/30/ ~~01~~²³30-0200^{PAD MST}/3-F/JMF3.

faint Meteors from Scorpius through Coronis

9227#5 May 30-31/0200-0300/7-F/Echo, 60p
+ 6" fl/ LPL Larry, Miranda/Sun viewing -
Safe Sun experiment

9228A#EM | May 31/June 1 | ~~#~~ 2100 to 0230/10-F/
Palomar | 18" + Minirwa | Gene, Carolyn,
Tim Spahr, and 3 crew people from
NBC!

9229AN June 1/2 | ~~#~~ ~~1800~~ 2000 - 0330/10-F/7-Fan
Palomar | 18" + Minirwa | Gene, Carolyn, Tim/
CN3g | ~~33~~ 33 films.

CN3 ^E 40 minutes, NE. View of Takamizawa-
Levy

9230AN June 2/3 | 2000 - 0430/3^{mostly}-F/Palomar/
18" + Minirwa | Gene, Carolyn, Tim |
CN3g 37 films, 36 of them good.
CN3 1^h 10^m E. Takamizawa-Levy.

9231AN June 3/4 | 4 · 2100 - 030435/10-F/
Palomar | Gene, Carolyn, Tim | CN3g.

35 films . . / 18" + Minirwa,
looked at Comet Takamizawa-
Levy.

9232AN June 4/5 | 2100 - 0435/10-F/18" + Min-
erwa
~~#~~ Palomar | Gene, Carolyn, Tim
CN3g ^{2 films - 3 42} 15 m W +
CN3 20 m E. View of Takamizawa
1994 L
with Minirwa M₁ = 11.0

9233S June 5/6/2000-2:4600-1615~ / 3-F / Palomar /
~ 30 girls scouts / tour of 18-inch.

9234AN2 2000-0300/10-3-F / Palomar / 18" +
Minerwa / Gene, Carolyn, Tim /
CN3g 32 films.

9235AN June 6/7/2000-0400 / 10-F / Palomar /
18" + Minerwa / Gene, Carolyn, Tim /
CN3g

9236AN June 7/8 / 2000-0400 / 10-F / Palomar /
18" + Minerwa / Gene, Carolyn, Tim
CN3g

9237S. June 18 / 3-4pm / 18" / Girl Guides.
before 9236.

9238E. (OS Simpson + the Bronco!)

June 17 / 2000-0000 / 3-2-F / JMB /
Miranda / ~~CA~~ ARTIST observing →

H: David! Another Cloud out! (boo!) hope everyone comes
Anyway! Bye!
Miranda ^(Sally) Starbuck 6/17/94

6-17-94 - We're here to observe @ David's but it's
cloudy. Bummer!! Rich Sherwood

It's still 6/17/94 We're also here @ David's and it's still
cloudy, but we've looked through this log and it's
wonderful! Paul Scalise & Sandra Prather
Thank you for having us here.

So it is cloudy, just all part of the Universe!
Michelle, Darren, and Jessica Keromes

Jupiter and the rings. And some of the moons

Brandon

I saw Jupiter.
Celine Fickett

Venus was seen in west without a telescope.
A slight glimpse of Jupiter ~~but~~ under the clouds.

Barbara Toothman
Rhonda & Smith-Sellers ☺

I stayed late and saw it all
→ Aquarius Inupt

Thanks for a wonderful visit, even if
my 60-year experience took 30 minutes to
identify a 1st mag. star! Stuedberg 3672

June 19 9239S. 5-6pm / Clyde's house / telescopes.

June 21/22 2100-2300 / 3-F / J44 / CNN interview
9240E. Brilliant night with bright moon,
not great for comets!
+ filming.

GREAT View of the MOON —
Great Pictures of the ASTRONOMER
at WORK! THANKS Kurt Rose

MOON WAS SO BRIGHT, I HAD DARK SPOTS IN MY EYES FOR
A NUMBER OF (HOURS) AFTERWARDS. Henry Rubin 6/24/94

9241M

Saturday 8/3 / 0200-0300 / +^{int} / general

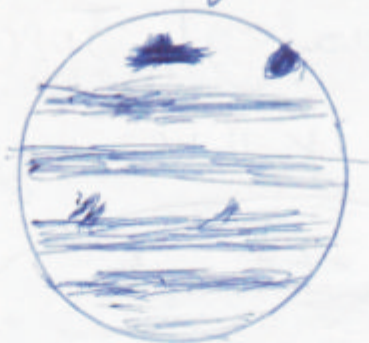
9242M

Sunday 3/4 / 0100-0115 / intermittent / general.

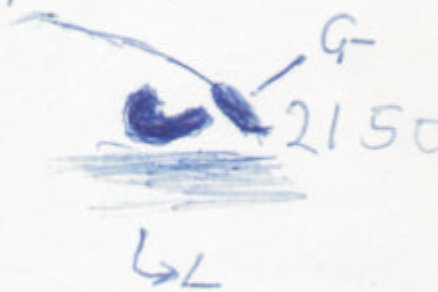
*** July 16/17 / 2200-0100 / 3-F / United
9243EM States Naval Observatory / 12" +
26" refractors / Jupiter -
impact of Fragment B
missed - clouds -
did see Jupiter.

JULY 21/22
#9244 E / 2000-0000 (3-F) United States Naval
Observatory / 12" refr, 26" refractor / Jupiter

21 July 1994
21:00



21:20
= L impact site



21 July 94
David,
A Tremendous
event beyond all
expectations. Thank
you for making this
such a special occasion
for all of us at the Naval
Observatory.

Rich Blumberg
Capt
Superintendent
United States Naval Observatory
USA

* 9245 E

July 23/24 / 2100 - 2330 / 3-f / United
States Naval Observatory / JUPITER



22:30 EDT

Brent Archinal

Joanne

Bob Summerfield + Lisa

Peter + Dianne

Bob Bunge + Cathy Mansperger

Don + Kathleen Savage

9246
E

July 26/27 / 2000 - 2300 / 3-f / Jupiter -

84-inch / PSI / Attempt to observe
impacts from trailing wing. -

The stragglers.

9247

E July 27/28 / 2130 - 2230 / 3-f / J13 / Echo-6p.

9248E. July 28/29/ 2000-0000 / Rain — 1
KPNO / 84-inch plus Echo, 60p/

Project: Size Distribution of P/Shoemaker-Levy 9
Fragments

David: Though the moon soon kept us from searching
for the Sh-9 stragglers tonight, it did give us
a wonderful time sharing your experiences on Sh-9.
Such a wonderful event and I am very happy
that you, Gene and Carolyn brought it to our
attention. This type of astounding phenomena is what
makes science such a fascinating endeavor.

Best Wishes For the Future,

Don

Don Davis, PSI!

9249E July 29/30 / 3-2-F / Clyde's house / Echo,
Probably E 60p



Jupiter

9:30 MST Patsy

10:30 MDT

David: I see that you are not
spotless. Good view for a 3 1/2 inch
Clyde W. Tombaugh 29 July 1994

9247E / July ~~29/30~~ 30-31 / 2130-2200 / 3-F / Clyde's
house / Echo, 60p / Jupiter: see next page

(9250 cont'd)



Jupiter:

30 July

9:45 MDT

Glad you saw the spots,
Clyde W. Tombaugh

#9251E

31 July - Aug 1 / G?

2100-2210 B & F /

JMB /

Seeing: 7



Jupiter at
2145 MST
Miranda

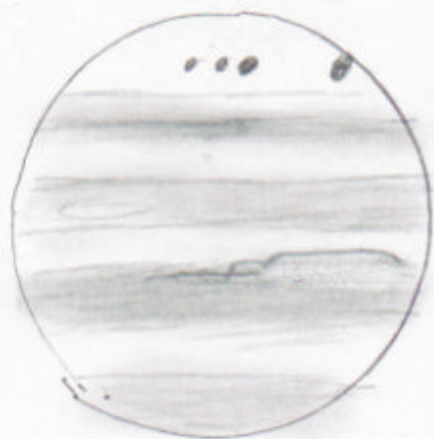
16" F/4 Miranda, stopped down to 8 inches, 13mm eyepiece

6" F/4 Miranda - clear view of central spot
with 13mm eyepiece

3 1/2" F/11 Echo - definitely saw central spot at
60 power

8" F/7 Pegasus - 13mm eyepiece - striking
view, all spots seen.
N. equatorial belt actually
clearer than in Miranda.

9252E. August 11/21 9:00pm (2100-2230)
10-F/SM4/Miranda/1 ~~CA~~
Jupiter.



Jupiter.

Wow - Saw the spots - a beautiful blemish
in the night sky. Thanks David,

21:25 08/1/94

Wicky ☺...

Robert went to visit David,

Robert saw a spot.

The spot was big!

The spot was nice.

Nice spot.

Robert Edrington 08/01/94

9253 E. August 3/4, 1994 / 20:30 EDT to
21:30 / 3-2-F / Peter + Dianne's home /
5" Celestron / Jupiter



9254 EM Aug 5/6 / 2200-0200 / 10-F / Starfest /
Minerwe, 5" FT



Jupiter - very low.

506 → complex
+R

August 5, 1994 ~ 11:00 EDT
planet wavering in poor seeing

5-inch astrophysics refr-
~ 100x

Jupiter



South
↳ complex Q.

H Stephens and Olliver

9255 AN ^{Sat} Aug 6/7/2208-0500/10-F/
Starfeet/Mireva-1 CN3 2^hE.

Comet Nakamura-Mishimura-Machholz 1-

9256 E. Wed Aug 10/11/2100-2130/13-F/
RASC F14" Jupiter. ☺

9257 E. Thursday, August 11/12/2230-2315/
3-f/Nat. Museum of Science & Technology/
Dominion Observatory 15" refr/
Jupiter.

9258 M2 0030-0500/10-F/Rofit Linda's
house/ Perseids/ rich shower,
especially near dawn when ☽ per
crossed AS-T's orbit plane.

9259E

Sunday, Aug 14/15/2130-2300
10-F / Rolf + Linda's house

6" F/12 refractor
with 7mm eyepiece
@ 266 power.



21:42 EDT

I could not have
imagined a better
introduction to
astronomy.
Thank you
David
from
Denver Green



22:35

David 94

I SAW THE MOONS WALL 1994.

HOIS KAPITANIUK.

THANK-YOU
DAVID FROM

We were so happy to share the viewing of Jupiter with The Best Man and see those incredible spots left by S-L 9. Thank you for coming David; we always love to have you & hope for more observing time with you here and in Arizona. And especially thank you for inspiring our Matthew

Love you,
John

Another in a long series of astronomical thrills. Peter
Great views of Jupiter and Saturn with David. Pff

9260 E. Monday, Aug. 15/16/2200-
2300/3-F/Science North/3 telescopes -
10" Meade Dobsonian, 3" Celestron
refractor^{C80}, and 6" Starfire.

Jupiter 

Thanks for visiting Science North & gave us such an interesting presentation. Clear skies.

Andrew Lee

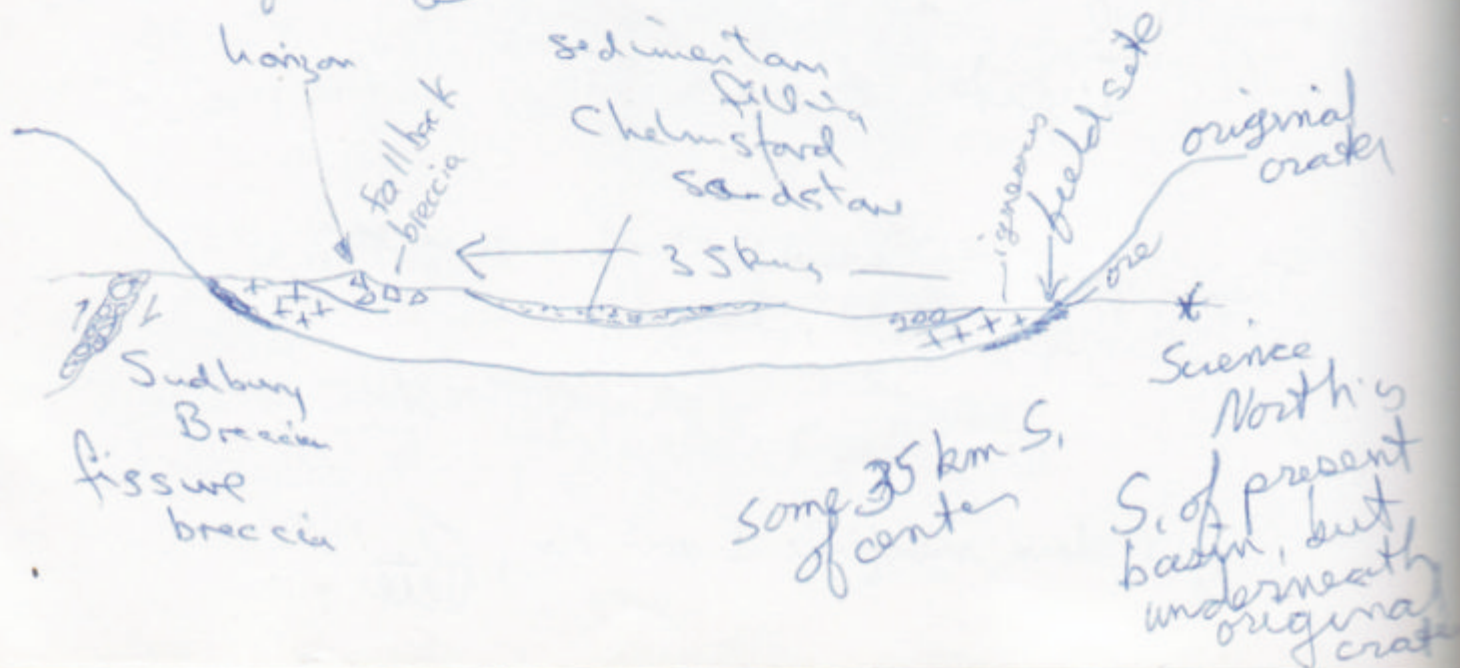
Biggest damn snowflake I ever saw! Peter

92615. Aug 16.

10:00-11:15 | 7-F | 4.849 billion years old.
SUDBURY BASIN,

First ID Bob Dietz in 1964 as an impact site - actually summer of 1963, looking for geol. training sites for Apollo astronauts - saw oval arrangement and found shattercones within 90 minutes!

No longer thought that ores are from impactor. Ore a concentration of Ni + Cu in rim rocks. Ni was scavenged out - because magma contaminated by impact melt, put silica into mix, reduced solubility of sulfur, which then found Cu + Ni. That's why ore is concentrated around perimeter of basin like a shell of an egg.



David Bear

Aug. 16 '94

With a memory of impacts, which
will never be the same again!

A bunch of rocks..... Pete

9262 E August 19/20/2030-0000 14-F/
Hidden Hollow Observatory



2130
Jupiter.

9263 E August 20/21/2045-
2100-2130 2-H East of
Effingham / Minerva / brief view of Moon &
stars through clouds.

9264 E August 21/22/2000-2015-7-F/
OKlahoma City/
Minerva / - / Jupiter.



9265SE.

Aug 22/23/2030-2130 MDT/

Near Louington, N Mex.

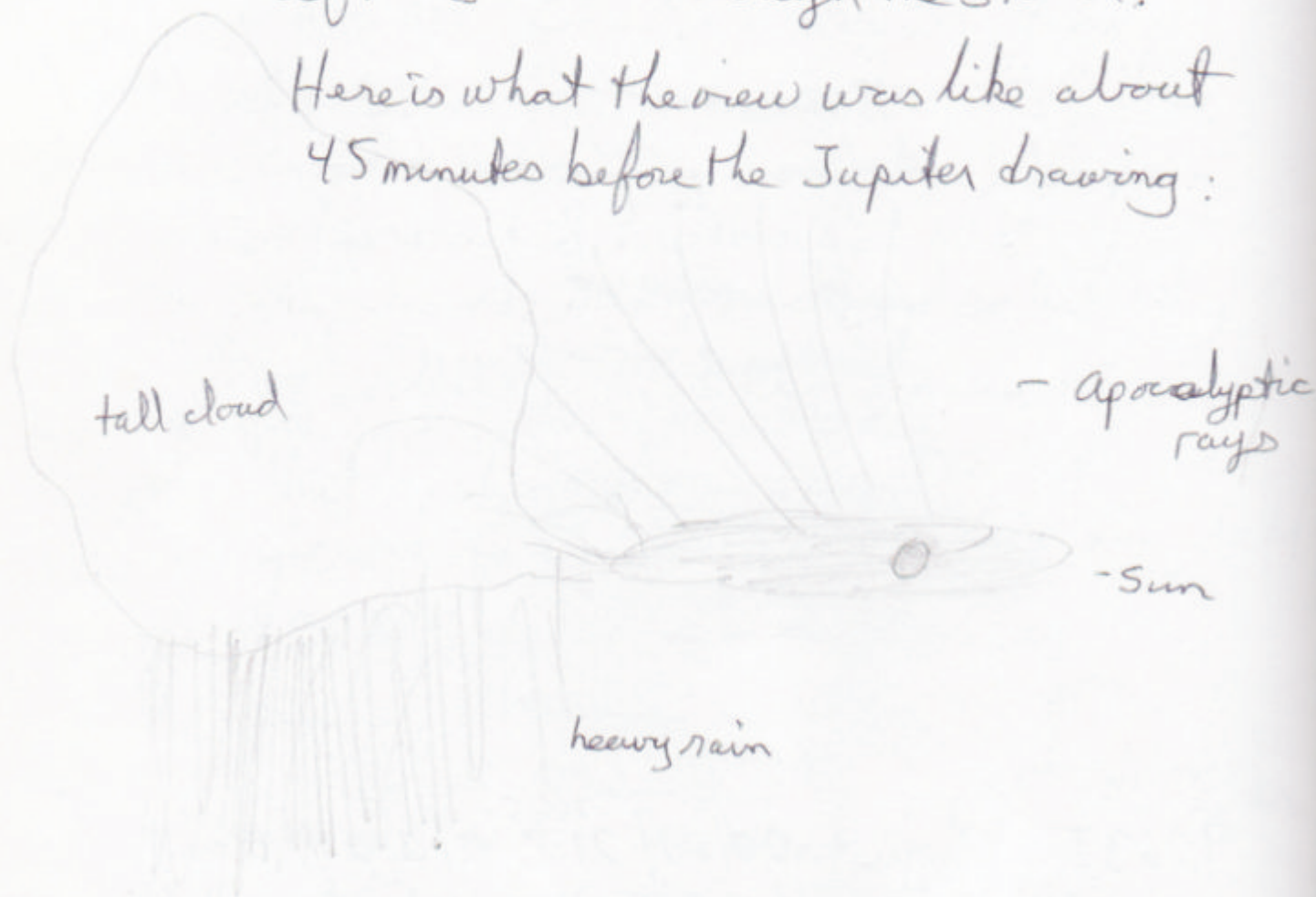
Munera



Seeing very
poor, near
Thunderstorm

First, a beautiful storm cloud. Then a
terrible storm. Then, a look at Jupiter
after I drove through the storm.

Here is what the view was like about
45 minutes before the Jupiter drawing:



The Shoemaker-Levy 9 Comet
Crash on Jupiter was the greatest
show of the millennium.

Clyde W. Tombaugh

23 Aug 1994

9266E 23/24 Aug / 2045-2115 / 3-F / Clyde's
house / Minerva /



Seeing very poor! Sorry
Clyde W. Tombaugh

9267E. Aug 31/32 / 1930-23 30 / 8/31/94
10-F1 SMA + Van Home School / Miranda,
CNN Newsroom is a show designed to help educate students. But tonight, we were the ones learning! Jupiter and Saturn will no longer be just names to us! We now know them personally!

Janice McDonald
Senior Producer
CNN Newsroom

As we approach midnight and the first of September I find myself wanting to stay up all night - observing with David. He has truly awakened my interest in the sky and universe, something overlooked too often in this day. To David and to future astronomers!!

Fondly,
Lisa Bacon
CNN Newsroom
Reporter
8/31/94

I've always dreamt of the man looking through the lens, and zooming out, first just an expansive shot, then further out to see we as part of the universe, then as part of a molecule that continues to be seen looking through the lens. Zooming out again - another universe -
thanks for the chance to enjoy ... "ferenhance to dream."

Rod Diehl
Videographer - 9-1-94

9267 cont'd.



Aug 31 / Sept. 1
7:30pm.

Miranda

9268E. A Sept 4/5/1900 - 2030 / ~~10~~ 3-f /
JM 4 / J. Miranda / Jean Mueller /



Jupiter with
Miranda
at 20:00.

9269E Sept 5/6/2000 - 2200 / G-F / San
Diego / Jean.

9270 AN. 6/7 Sept. 1930-0530/10-F/
Palomar / 18" +
Minerwa

Jupiter
with
finder scope
of 18"



CN3g films
too dark

9271 AN. 7/8 Sept / 1930-0530/10-F/
Palomar /

Jupiter
20:10.
14° 35.8
-14° 15'



18" + Minerwa /
Carolyn,
Steve Edberg /
CN3 15mm E

CN3g ~ 40 films

9272 AN. 8/9 Sept / 1930-0530/3-F/
Palomar / Carolyn, Steve
CN3g

Jupiter
2015.



very faint spot

9273AN / 9/10 Sept / 1900-0530 / 3-F /
18" + M. Verwa

Palomar / CN3g -

Steve, Carolyn



Jupiter.

at 19:30

through 18"
funderscope

48 films

CN3 5min E.

9/9/94

Mike Jensen: doing an article for Medium
Maturity Magazine: Great to be with you
on the given occasion



Jupiter at

20.10

9/10 Sept.

9274 AN 10/11 Sept
1830-0530/10-3-F / Palomar /

Jupiter at 19:35 PDT

14 37.1

-14 23

18" + Minerva
Carolyn, Steve

CN3g:

CN3 5min E



Jupiter:
through
18" finderscope

11/12 September

*9275 AN 1945-0530/17F / Palomar / 18";
Minerva, 8".

Jupiter
20:15
through
18"
finderscope



20:30
through
Minerva

Through the finderscope we could all see the
onset of the spot coming onto the disk.

Through Minerva, we could not see the indent but we could make out a large, faint spot near the meridian.

With 8" Guide scope, could easily see notch in lower right side of disk. Disk appeared sharp, but contrast was low, possibly due to dirty optics. Could not see central spot due to low contrast.

In Minerva, could detect central spot spanning $\frac{1}{4}$ disk of planet in moments of good seeing. Contrast was better than 8" guide scope. However, disk of planet was never sharp, possibly due to poor collimation. Could not at any time detect notch in side of planet

Bob Stephens

This session is dedicated
to the memory of
my beloved Aunt Beulah
who died this afternoon.
May she rest in peace.



Jupiter
20.10 PDT
Sept 12/13, 1994

9276 ~~AA~~EM. 12/13 September / 20:00 - 0³~~8~~00 /
3-2 ~~to~~-F / Palomar / Jupiter through Steve's
8" telescope.

also 18", Minerva
CN3g some films

9277 E. Sept 14/15 / 2300 - 2330 /
~~to~~ ~~3~~ 6-7-F / Montreal airport.
waiting for mother to arrive from
New Orleans.

Gibbous Moon, on Kol Nidre,
after service.

9278 S. Sept 18 / 1530 - 1600 / 2-f / Adler
Planetarium Obs., Chicago /
Peter, Dianne.

9279M2 Sept 18/19/ 0215-0245/ 7-F/ London,
Ontario/ Peter Seducke - balcony.

9280~~M~~S. Sept 27/ 1830-1930/ 7-F/ San Diego/
Jean Mueller/ Green flash seen from Green
Flash Restaurant.

9281M2/0200-0215/
10-F/ Palomar.



29/30 Sept
7:45 pm

9282EM/Sept 28/
~~10-F~~ 12-F/ Palomar/
18" + Minerva

→ 9283EM. 29/30 Sept.
19:30-0230/ 10-F/ Palomar/ 18"
+ Minerva/ Jupiter through
18" finder/ CN3g: ³⁶films.
Just Carolyn.

9284AN 30 Sept.



30/1

7:30 pm

1900-0530/ 10-F/
Palomar/ 18" + Minerva/

CN3g, 240 films. Gene +
Carolyn. Jupiter through 8" (18" finder).
CN3 15 min E.

* 9285AN



1/2 Oct 7:15 pm

3 Oct/
1900-0530/

3-F/ Palomar/ 18" + Minerva + 10" scope/

Gene, Carolyn, Jean, Charles Morris.

CN3g ~24 films.

CN3 1 h 30 min E,

Comet Borelly
P/Machholz 2 - →

We saw 4 pieces of P/Machholz 2.

9286 A.N. Oct 2/3/17 30-0500/10-F)
J##/ Palomar / 18" + Mirava / - / CN 3g.
(Genet Carolyn)

9287 E.M. Oct 3/4/17 30-0100 / Fog.
Palomar / 18" + Mirava / (Genet Carolyn)
clouds. CN 3g.

9288 E.M. Oct 4/5/17 30-0100 / Clouds, bad
weather / Palomar / 18" + Mirava / CN 3g.

9289 M. ? Oct 15/16? 0400-0500 / 10-F)
JM4 / Miranda ! / CN 3 1 hour! fun.

9290 E.M. Oct 22/23/17 00-2300 / 23-F /
KH + Peak / Public Evening.

9295E November 13/14 / 11pm to 12:00 / cloudy /
Observatory of the Winnipeg Center.

↓
9291 M. Oct 23/24 / 0030 - 0200 / 3-F / S. walk.

9292 M 24/25 / 0130-0200 / 3-F / another walk

* 9293 E. Oct 28/29 / 2300-2320 / LCP 19I /
19 Manitow Crescent, Amherstview, Ontario.
Peter + Dianne. Celebration of my
D.Sc. degree.

9294M. November 5/6/0308-0330/3-F/JMF/walk.
see facing page for 9295

*9296M. November 17/18/0108-0308 intermittent.
7-fm/Peter + Dianne's home in London/.

~~#~~ Penumbral Eclipse of Moon, we saw
very slight penumbral shading on N. side
of the Moon. ~~Soat~~ later, Moon was moving
out of shadow, to the east of it.

9297M. November 22/23/0130-0145/2 7-F/
JMF.

9298M November 23/24/02:30-0300/3-F/JMF plus
S. walk.

9299M. 24/25/again 0245-0310/2-F/JMF + S. walk.

9300E. November ~~26~~25/26/2030-2115/10 7-F/
~~JMF~~ Palm Springs - Smoke Tree Raguet Club/
Minerva / Ika + Bob Hackett + children.

M31, M42, M45, β Cyg.

9301EM November 26/27/1830-0100^{0 to} PST 10-F/C₃ } } } }
18" + Minerva / CN3G 16 films, film moonrise.
Gene + Carolyn, Henry Holt

9302EM) November 27/28, 1994 / 1800-0300 /
10-F / 31 Palomar / 18" + Minerva / Gene,
Carolyn, Henry / CN3g 37 films.

9303 EM 28/29 / 1800-0400 / 10-F, windy /
Palomar / 18" + Minerva / Gene, Carolyn,
Henry / CN3g, 53 films.
CN3 15 minutes NE.

9304 AN. 29/30 / 1800-0400 / 10-F / windy but
clear / 18" + Minerva / Gene, Carolyn,
Henry / CN3g: 44 films.
CN3g 5 minutes NE.

9305 AN 30 / December 1 / 10-F / clear / 18" + Minerva /
Gene, Carolyn, Henry / CN3g 42 films.
CN3: 10 min NE.

9306 AN. December 1/2 / 1800-0500 / 10-F /
Palomar / 18" + Minerva / Gene, Carolyn,
Henry, Andy Chutkan / EN3g: 60
films
CN3: 10 min NE
SE

• ~~9307~~

A GREAT DAY!

GREAT PLACE!

GREAT PEOPLE!

Blairham K.J. Schirduan

OF PARL SUTTON ASTRONOMIE, P.Q. CANADA

David -

It's been wonderful showing you last night
at the 18" here at Palomar - A wonderful
experience at the temple of astronomy.

I hope this is just the first of many joint
observing experiences.

Nicky Chastain
12-2-94

9307S. December 2/3 | 1500-1600/10-F/Palomar/
9 last day visitors.

* 9308AN2. December 2/3/1800-0330/3-F/

Palomar | 18" + Minerva | Gene and Carolyn,
Henry, Andy Chaikin, Kelly Beatty, Jean
Mueller. CN3g 6 films.
CN3 10min W.

This is the last night of our program at
Palomar. For the end of the observatory's
log, the last film entry reads:

"Second Star to the right, and straight
on till morning. Tonight we end our
asteroid and comet search program
at Palomar. May this telescope ~~always~~
find happy users + interesting objects
for years to come."

As witnessed by the undersigned:

Jean E Mueller

Gene Shoemaker

Carolyn Shoemaker

Kelly Beatty

Carolyn Shoemaker

Henry E Holt

9309EM. December 3/4 / 1800 - 0200
int / home from Palomar /
partly clear.

9310 M. ~ December 5/6 / 0240 - 0300 /
10-f / Southwalk.

9311M Dec. 6/7 10250 - 0305 / fog / - /
Southwalk.

9312 S. Dec. 10/11 / 1500 - 1600 / JM4 /
Vigil S. / Observatory upgrading.


93BE2 December 10/11, 1994 /

1930-0000 12-3-F/SM4/Miranda/ARTIST
Party / Moon.

Jessica RESA

The moon is nice to look
at through David's telescope



Miranda Lebofsky - The moon was out, but it was cold so we
stayed in & had Chinese food, Pretzels, Popcorn, &
other junk food. 

Kathy Eckhorst - Thanks!


Kristi Eckhorst
Davis Stall

Michelle Kermes

Ana-Alicia Robles - Thanks for letting us come again
George & Dorothy Kermes Mn. Thank you!

Raymond C. Robles

Gloria V. Murphy - The moon reminded me of my childhood
and the way that my parents were
guided by lit, i.e., planting vegetables,
cutting hair, etc.

PAYANA  (5 yrs-old) - I see the moon.

Dani-Rae Robles - (2 1/2 yrs-old)

Betty Fulcom - Thanks -

Lisa Lewoff & Bob Summerfield - Another midnight stop
along the road!

PS - Tonight we brought dead Aliens to the Tucson
ARTISTS but now I must get Lisa some rest!

9314 M. December 11/12 / 2:50 - 3:15 /
3-f / JMF + walk.

**9315M/ December 17/18/ ~~10~~F7-fml 4:00 - 7:30 / JM47
MST / S. un/4
~~10~~/ Pegasus



This morning from 13:40 to 14:00 UT I observed Jupiter visually with my 20 cm F/7 reflector. The dark material left from the impacts of S-L 9 is still there, and still obvious. Crossing almost across the correct latitude there is a dark bar which widens into a large spot about a third of the way from the western limb. With the exception of the NE B, these features are the most conspicuous on Jupiter.

9316M. December 18/19/ 3-Fm / 2:50-3:15/
+ S. walk.

9317M. ~ 21/22/ 3-Fm / S. walk / 3:00-
3:15.

9318E. 28/29/ 2-3-F / JMB / Roff, Linda,
+ Matthew Meier.

January 8, 1995

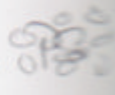
Rolf Meier: Having fun meeting the folks

Matthew: The seeing was great!
Rolf Meier - Thank you for having us.

Tom Hunter - I hope we have a bang of a party

Steve Mann - Thanks to David, Jim, & Rolf for such fine presentations to the AAS press corps!

Ken Welford - Thanks for having me - beautiful sky!

Pete Spotts - thank you for your gracious hospitality! 
your place at last! Great fun, Leif Robinson

I'm glad I finally got to see you in your element!

Rick Finberg, S&T

Thanks for a great evening, David!

Daghe Dina, SA

A wonderful "observing" session + food feast.

Terence Dickman - wonderful to be back.

Thanks David for a splendid evening.

Memorable - Larry Spohn - A&Q Tribune

A wonderful view of the Orion nebula - thank you for the treat! Happy hunting in the years to come. David Chandler

Michael Magee - Thank you for inviting me. It was wonderful meeting so many interesting people.

Jim was here - great press conference - Hurray for
E. Sedick!

1995

- * 9319EM January 8/9/1900-0108/6-F/JM4/
Miranda / American Astronomical Society
Press Conference. Very successful.
View of Messier 42.
- * 9320S / January 9/11:00-12:00 / Tucson
Convention Center / "Safe Sun" Demonstration.
It was wonderful thing.
- 9321E2. 1000-1030/3-f/Tim/Hunter's
& home observatory / Tim, Gene and
Carolyn / - / CN3F test site for
obs. dome.
- 9322E3 / 11:00-1200/3-f/JM3/ Gene +
Carolyn / Test session for
CN3F. No film taken.
- 9323M4 / 0200-0215/2-f/JM3 / weather
check for possible CN3F test.

Jan. 11, 1995

Beautiful telescopes for our new program.
Wonderful hospitality at Hotel Levy.

Love, Carolyn Shoemaker

David, Thank you for being such a
wonderful friend and host, Love Gene
Shoemaker

9324.5. January 10/11. | 11 am - 12:00 noon /
3-10-f / JM3; JM4 / Gene + Carolyn / test
session for CN3F.

9325 M January 11/12 | 5:30 - 6:20 / 2-f /
JM4 / Gene + Carolyn / Brief
look at Jupiter and ~~at~~ Venus.
brief view of impact belt.

9326 E January 12/13 | 2100 - 2300 /
10-f / JM4 / Rolf, Linda, &
Matthew Meier / - Miranda /
M42, M1, etc.

Jan 15th 1995

How wonderful to be able to come out here and see your remarkable telescope and be able to talk with you at length about your work.

I will treasure this moment from my travels in Arizona

Judith Tate

9327S. Jan 15/1-F/3M4/16:00-16:30/
reporter interview.

9328M Jan 16/17? | 0250-0315/3-F/1S.walk.

9329M. January 22/23.

Jan 22/23 | 0600-0700/3-F/3M4/

Miranda / Tom Gehrels / Jupiter:



Tom Gehrels

Thanks for
SEB being a good
friend

NEB

1995

9330 E. Saturday, Jan 28/29 / 2230-2300/
M44 / 7-F / -14°C / RASC / 4" Celestron / Mars.

9331 M2. 0330-03:50 / 7-F / LCP-818- /
walk.

9332 E. February 1/2 / 1915-2030 / 10-F /
JM4 / Miranda / -1 CN3 1.5m W.

Beautiful evening
9333 M2. 530-615 / 10-F / JM4 / Miranda / -)

CN3 30m E. Lovely night

9334 S. February, 3/4 / 1400-1435 / 10-F / JMB /

9335 E2. Echo - First night for new
eyepiece holder + Quartz
Diagonal from E+W Optical.

→ 1800-2000 / 7-Fm / Vail element
wry school / Larry, Nancy,
Miranda, others / Starwatching
party / Echo, 5" Celestron.

Echo saw Moon, Mars,
~~Jupiter~~ M42, M31, M45, Saturn,
Sirius.

5" saw Moon, Mars, M42,
and Saturn.

9336 E3 2230-2300 / 10-F / JMF /

Echo / M42. aligning of find
optics & find

I am really pleased with how well
Echo is working now.

9337M February 5/6/0100-0130/
7-F/ Clyde's house / 5" RFT, the first
one built in the United States!
Great telescope!

Enjoyed your visit, David.
Thanks for helping to move the
mounting for the Rich-Field telescope.
Sincerely
Clyde W. Tombaugh


Thank you for the asteroid book,
which showed the names of our
asteroids.

9338EM. February 6/7/ ~~0400-0600~~²¹⁰⁰⁻⁰¹⁰⁰/
9-F/ & between Las Cruces & Tucson/
intermittent - view of Canopus
to the south.

9339M2 0400-0600/10-F/ 5M4/CN3
45m E. Jupiter's new
belt.

2-11-95

Tonight I took 6 astrophotographs for my science fair project. It was really clear & the moon was really bright & I could actually see. The advantage over a star party is there's more space with only 4 of us.

Miranda
Lebofsky ☺ 


2/11/95

We enjoyed photographing Andromeda, the Pleiades, Orion, and Leo/Mars. The moon through Echo was incredibly sharp. I mostly enjoyed accidentally finding the double cluster in Perseus!

Nancy Lebofsky

2-11-95

This was a wonderful observing night! I enjoyed being able to observe with David & my family!!

Larry Lebofsky 

9340 E. Feb 7/8/ 3-f/ ~~JM4~~ School / ARTIST session - Echo. Moon.

9340 M. / Wednesday, Feb 8/9/ 5:00-6:40/

10-F/ JM4/ Miranda / Moon. CN3 1^h E.

Saw MIR, then shuttle, at 6:30 a.m. earlier, Moon through Echo.

9342 E Thursday, Feb 9/1945-2000/3-F/
Echo / Flandrau Planetarium (M. Magee)
Use of Echo with new eyepieces. Wow!
~~CN3~~

9343 E2 2130-2200/3-F/Larry's house/
Larry / Echo, / Moon.

9344 ~~A~~.E3 2230-2300/3-F/JMF / Echo/
Moon. Adjustment of finder.

9345 ~~M~~ M4 ~0300-0320/3-F/JMF / S. walk.

9346 M. Fri, Feb-10/11/5:30-6:30/10-F/
JM4 / Miranda / - / CN3 / ~~CN3~~
0h30m E.

9347 E Sat 11/12/1900-2230/7-Fm/
JMB / Echo, 5" reflector / Miranda'.
Lelofsky's photos.

9348 M2 should be before 9341M / 5:30-6:15/
10-F / JM4 / CN3 15m E.

Thirteen birds, 21 comets - wow!

Sandy Steady ← 9349

19/02/95

Feb. 17, 1995

It was a nice Sunday afternoon and you were kind enough to dedicate us your time... and we ~~was~~ saw spots on the Sun! Thank you so much
Françoise de la Croix

I feel so happy to meet you!
I always enjoy the stars at night and you are (represente) for me the proof that we can live near the sky even we aren't specialist astronomer - Thank you for everything
Cathy (9350S)

9349 S. Feb 17/ 3-4pm / 3-F / JM / Sandy

9350 S. February 19: 4-5pm / 2-F / JMB, JMF / Echo / - / Sun.

9351 M Feb 23/24 / 12-1am / 5-F / Galveston, TX
Sandy + Tom (Gurtie)

9352 E/M. Feb 26/27 / 0100-0130 / 3-f /

Sarasota / ~~to~~ Minerva / Paula

Eppstein / Mars, M 44.

9353 E 27/28 / Sunset in the Keys w. Peter + Diana

9354 EM 27/28 / 2100-0100 / 3-f / Winter Star

Party.

9355 E 28/1 / 1900-~~012000~~¹⁹³⁰ / ~~10~~ -f / WSP.

9356 M2 0430-0515 / 3-f / WSP / Minerva

View of L + B Cr.

9357 EM March 1/2 / ~~0~~ 2000-0200 / 3-f / WSP /
Minerva CN3 2h W.

9358 EM March 2/3 / 2000-0300 / 3-f / WSP /
Minerva / CN3 1h W.



March 16 UT

9370 M2.

Echo.

Mar 15/16

9370 M - 0600-0615

7-f / JMF / Echo 1-1 Jupiter.]

March 16, 1995

Dearest David, I have enjoyed this visit to Tucson, thanks to your constant attention. You are really a wonderful son. Your home looks better than ever - I think the wooden blinds are a great improvement in many ways e.g. health, decoration etc. I always enjoy visiting you.
(cf. 9369S.) Love Mother

17 March 1995

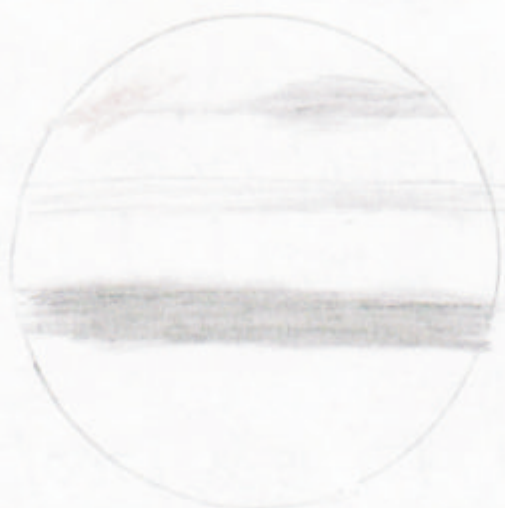
Finally after so many years to visit you at your house. I hope you like the portraits & will get much use of them.

Keith Schreiber
(cf. 9371S.)

9359EM Mar 3/4 / 2000-0200 / 10-F / Winter
Star Party / Minerva, other scopes /
Peter, ~~Dianne~~, Steve Edberg, Summer
fields) others / CN3 1h 30m W.

9360E Mar 4/5 / 2100-2300 / 3-F / WSP / Minerva
Steve Edberg, Peter, Dianne,
lots of others. No CN3.

9361M. March 6/7 / 0530-0545 / Miranda /
CN3 5m E.



~~9368~~ ⁹³⁷² M March 5/17/18 | 0250 - 0415 | 3-107-Fm | JMF | Echo]

9362 M. ^{Jupiter} Mar 7/8 | 0515 - 0545 | 10-F | JM4 | Min, Min | CV3 25m

9363 M. Mar 8/9 | 0000 - 0030 | 10-F | JMF | Echo.

~~9362 M? - ? 0530 - 0545 | JM4 | Miranda | CV3 25 min E~~

9364 M. ^{8/9 | 0250 - 0310 | S. W. M.} E. March 9/10 | 1908 - 2108 | 7-F | Drachman

School / Larry, teachers, parents + children / Echo / Moon, M42.

9366 M 2 | 10000 - 0015 | 9-F | JMF | Echo / test.

9367 M3S March 10/19/10 | 0515 - 0708 | 10-F | JM4 | ^{South.} Miranda | ^{and Echo.} CV3 25m E.

~~(9368 see above)~~
 Then photographer from Chronicle of Higher Education came and took my picture for here + south of here.

9368 M. March 14/5/0250-0310/S. walk.

9369 S. March 15/16/0400-01700/3-F/
JM/Mother's visit. See 2 pages back.

9370 M2 March 15/16/0600-0615/3-F/Echo/
Jupiter. See ^{twice} overleaf, but after 9358.

9371 S. March 17/1500-1700/3-F/JMB/
Keith Schreiber's visit.
See 2 pages back.

9372 M. March 17/18/0250-0415/see
overleaf - Echo's map of
Jupiter.

9373 E. March 18/19/1930-2200/
3-F/JM3/Miranda/1CN3
40m West.

9374 M (before 9300) March 10/11/0500-
0530/CN3 - 25m E. with Miranda
& new radio headphones.

9375 E2. March 18/19/2145-2210/7-F/
JMB, JMB.

9375 E March 19/20/2200-2215/6-F/Balcony
at Uncle Jack's house, New Orleans/
Mother.

9377 E. March 20/21/1920-2180/310-F/JM4/
Miranda/-1 CN3 1h20m LW.

9378S. March 21/22/1715-1800/1-F/
Echo/ Susan Kern; Miranda Lebofsky,
Larry & Nancy/ Photos for Star Trails

9379 E2 2000-2015/1-2-F/JMF/Echo/
test.

9380 E March 22/23/2000-2035/10-F/JM4/
Miranda/-1 CN3 30m W.

9381E2 Mar 22/23 / 2200-2245 /
10-3f / JMF / Miranda / - / CN3 35m W.

9382 M3 0200-0215 / 3-f / JMF.

9383 M March ²⁶27/28 / ~~233~~0000-0015 /
10-f / JMF / Miranda / - / CN3e
TV Crv 13.5.

9384E 27/28 / 2000-2100 / 10-f / JMF /
Chris Chapter - Kingston, Ontario - Theresa David
Mary Ann Chapter "Great Fun"
Jegunie Uresir, Harvey Ann - Exiting
Helen L. Uresir - Harvey etc.

Queen's University
session with Mirawa
and Miranda. Observed

M42, M1, M44, Mars, M45, M51

Chris Chapter is Executive
assistant to the Principal
at Queen's University.

9385M2 . 0400-0515 / 10-F / 5M4 / Miranda,
Miranda / - / CN3 / 1/4 East!

9386E 30/31 March / 2240-0000 / 10-F / 5M4 /
Miranda / M13, Eskimo Neb, M82, Mars,
TV Corvi. Seth M. Shulze,
Science winter based in WATERTOWN, MA
David Goumen Cambridge, MA 02440

9387M2

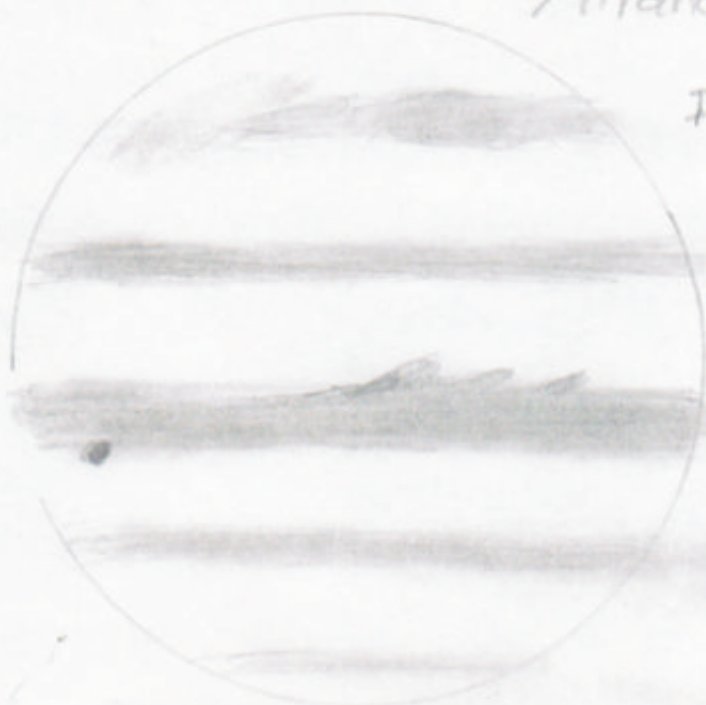
0400-0530 / 10-F / 5M4 /

Miranda / - / CN3

50^m E.

Impact belt
more diffuse
than S or NEB.

Io
Shadow



0510.

March 31 / April 1

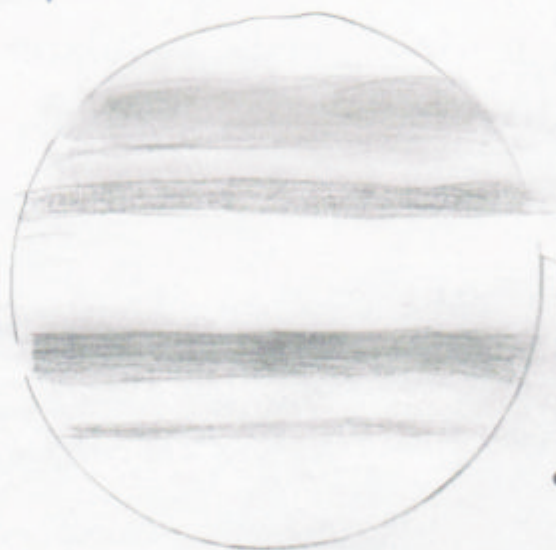
*** 9388 M. 0130-0530 / 10-F / 5M4, 5M5F /

Miranda, Munira, Echo /

CN3e: TV CV 13.0 (2 am)

CN3: 30^m E.

Jupiter with Miranda:



with Miranda

7mm
eyepiece



with Echo

7mm
eyepiece

9389E. April 1/21 1908 - 2330.
10-F / JMB / Miranda / -1

ARTIST Star Party
First Light for Andromeda,
Meade 8" Dobsonian
→ Jacqueline Umang
CN 3e
TV CrV 14.5.

Lee Umang
Guy Currier 4/1/95
Ana-Lucia Robles - I learned a lot more!
Raymond C Robles

4-1-95

Today was a smaller group but we had fun. Finally we had
world's popcorn again! YEA! Unfortunately Season opener
for Softball & Baseball kept the younger generation away.
We all witnessed First light for the new Meade
"Andromeda" & decided on "Ariel" for the CS. My
Blue Light stick came in handy in my job as
car control chief.

miranda

PS. Star Trails is missing 2 things - No, 2, Letofsky 😊

1. Me

2. Star Trek!

4-1-95

Jusan D Keen - This was fascinating, my very first star party, but I look forward to many more. I really enjoyed looking through the large scope and am more excited before about the future.

9390M2. 0245-0315/7-F/walk.

9391M3 0330-0530/10-F/3M4(Miranda)
CN3 1h E. CN3e TV Crv C14x

9392M Sunday, ~~January~~ April 2/3/ near airport
0145-0220/10-F/~~3M4~~ & walk,
~~TV Crv C14.5~~

9393M2 ~~02~~ 03:00-0435/10-F/3M4/
TV Crv C14.5
CN3 ~~1h E.~~ 0h 35m E.

9394M ~~03~~ Monday April 3/4/
~~03:15~~ 0145-0435/10-F/
3M4/ S. walk; CN3 1h E.

9395 AE. Tues. April 4/5/1900-2045/
9-F/ Catalina State Park)
Echo. 5" Celestron (Larry)
~~03~~ Star Party for ~80 children

9396M2. 0150-0210/10-F/5MF/S. walk.

9397E. Wednesday, April 5/6/

1930-2130/7-F/8 Star Party at
~50 children and adults, plus Lebofsky's.

9398M2 0435-0505/10-F/5M4/-Miranda/1)
CN3 30m.

9399ES Thursday, April 6/7/ 245-3 pm/

~~10~~: 7-F/ ~~5~~ Sierra Middle School / Echo/
Wendee Wallach

Sun.

*9400E2 ~~F~~. Thurs. / 2230-2300 / ~~10~~ 7-Fm /
Clyde's house / Echo / Moon.

I enjoyed viewing the moon
thru your 3 1/2-inch "Echo" Telescope
Sincerely, Clyde W. Tombaugh

9401E Friday April 7/8/ 2300-2315/
7-F/Clyde Patsy's house/ Echo/
Wendee, Tombaugh/ Moon.

9402S. Saturday, April 8/ 1030-1045/
7-F/Clyde Patsy's house/ Echo/
pictures of Clyde with Echo.

9403S2 · 1740-1800/ 3-F/Clyde
Patsy's house/ Echo/ -/
Moon with 7mm eyepiece
which is 130 power.

$36" \times 2.54 = 91 \text{ cm fl. } / 7 \text{ mm}$
 $= 130 \text{ power.}$

$91/20 = \cancel{48} 40 \frac{1}{2} \text{ power.}$

A lovely view of the moon
with $40 \frac{1}{2}$ and 130 power. 8 April 1995
Clyde W. Tombaugh

9404 E. April 10/ 2000-2130/7-F/
Grijalva School/ Echo, 5" Celestron named
Ariel / Liz Redondo + 5th graders +
families.

9405 M2 1:45-2:08 am / 10-F / JMF.

9406 M. April 12 / 1:45-2:10 / 10-F / JMF.

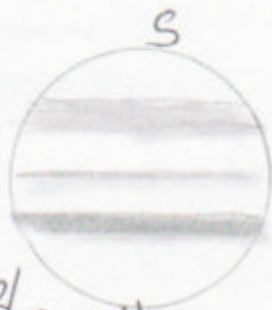
9407 M April 13 / 1:40-1:55 / 10-F / JMF.

9408 M. April 18 / 1:00-1:20 / 1-F / LCP-8181.

9409 ME April 19^{20/21} / 9:15-9:40 / 10-F / JM4 /
Miranda / -1 TV CrV C14.0

9410 M2. 1:45-2:15 / 10-F / JM4 / Miranda / -1

Jupiter:



Impact belt
very easy
to see.

9411 M. 1:45-2:00 / April 21/22 /
~~9411 M. 1:45-2~~ & JMF + S. walk.

9412 ME. 2200-2300 / 10-F / JM4 / Miranda / spoke with
Wendee over telephone / CN3 1h.

9413 M2 1:45-2:10 / 10-F / JM4 / Miranda /



- harder than 2
last nights
- easier
ago

9414M. 27¹²⁸ April. 1:30-2:00 / 10-F / JM4 /
CN3e TV GrV (14.5)



Impact belt almost invisible

9415M. 28¹²⁹ April / 1:30-2:00 / 10-F / JM4 /
CN3e TV GrV (14.5)
Jupiter:



- Impact belt wide
& easily visible,

9416 M. 29/30 April 1995 / 10-F/1:30-2:00am /

10-F/15M4/ Jupiter:

TU GVU C14.5



9417 M. 30 April / 3-F/15M4/ 12:30 to 12:45
a.m. - Followed by "dash" to the airport!!

TU GVU C12.5

Jupiter.



9418 M. Monday, May 1 after no sleep since

9417 / ~~7~~ 10-F / ^{2300-0100 PDT} Maktomkus Observatory /

Ray Bishop / 16" : M87-saw jet, confirmed position in Burnham's. M84, 86, Coma B. cluster. TUGOV C14.5

4" nr. Jupiter:



9419 E. Tuesday, May 2. / 2000-0000 /

3-F / Maktomkus Observatory / Halifax RASC party.

*9420 MS. Thursday, May 4 / 10:30-4:30 / 10-F.

Ray and Gertrude / Heard the Moon roar as 10^{12} gallons of water rushed past Cape Split into the Minas Basin. Also, view of Moon.

9421 ~~M2E2~~ 4/5/ 2308-2315-10-F / Maktomkus
Observatory / Roy Bishop.

9422 M3 0308-0508/10-F / Maktomkus
Observatory / Roy / CN3 1/4 E.

Jupiter.



Impact belt diffuse
but clear.

{ A special treat to share the above views with you
David ... and a memorable week in many ways ..
... getting to know your mother, D.Sc., 5547 Acadiau,
Jupiter impact belt, jet in M87, the Moon's voice
at Cape Split ...

With warm memories & deep friendship,

Roy

9423 M Friday, May 5/0020-0050 / 3-F/
Wolfoille East Lyke / -1 Moon. Nice
pleasant walk.

9430 S. May 18. 11500-1600 / PBS advance.

9424 E2 May 18 / 2100-2130 / 7-F /

JM4 / Miranda / CN3e - TV GrV (13.0)
Jupiter

9425 E. May 19/20 / 2100-2130 / 10-F / JM4 /
Miranda / -1 Jupiter, TV GrV. (13.0)

9426 M. May 20/21? 0000-0030? / 7-F /
JM4 / Miranda / TV GrV (13.0, Jupiter:
Was it tonight I saw the GRS hollow
so clearly with Miranda? I think
maybe.



- very difficult

- obvious GRS
hollow

94275. Sunday, May 21 / 3-4 / 3-F / 5MB.

Klaus Brusch and Mike Mayerchak, visited and saw the great comet hunter and 16" catcher, had a great time reminiscing.

9428E2.? 2308-0000? / 1940-F / 5M4 /
Miranda / - / ~~CH3e~~ - TVGV
113.0 - Jupiter.



9429EM. Monday, May 22, 1985.
9:00 - 03:30

Clear night, lots of people.

Thanks for letting us borrow your life for a little while... and on a birthday / Anniversary as well!
Eri years PBS

Thank you, thank you, thank you, thank you for your little moons and that Bib guy they surround. What an evening to remember when I first saw what your COMET did to poor ol' JOVE."
Beula Neritt, PBS

I believe and share your passion. A great experience to take with me in my memories. Thank you for sharing your love.

Each night I ask the stars above why must I be?
Tim M. Cronwell

Thanks for A Wonderful Night
one in which I will never forget.

Thanks for enabling me to be Experience
What ASTROLOGY is All About

Adam Trank

Thank you so much for giving of your time, knowledge + kind words to us. Most especially, thank you for showing something truly rare & special to us - the way your comet made forever more on Jupiter.
Best wishes -
May 22nd 1985

Not all the who are with the sky - thank you so much for allowing me to share your passion.
Cleo

Thanks,
Terrio

9430 - see after 9423.

9431S May 23. / ~~1900~~ 1500-1600 / LPL /
inside, PBS shoot of Echo with Miranda
Lebofsky + Susan Kern.

9432EM. 1900-2030 / 10-F / KPNO / 36"
Spacewatch Telescope / ~~CN3~~ 5m
Echo-look at Jupiter. Jim Scotti, PBS,
Minerva -

9433EM. ~11:00-12:30~? / 10-F / SM4 / Miranda /
- / CN3 TVCrV C13.5, Jupiter.

9434E. May 25 / 2030-2230 / 10-F / Chiricahua /
Terence Dickinson + Alan Dyer / Minerva /
CN3 1h W.

9435E May 26. / 2100-2200~ / Miranda /
CN3e TVCrV with Miranda, C13.0
Jupiter.

9436E May 27 / ~2300-2330~ / 10-F / Pentstony,
B.C. / Dominion Radio Astrophysical
Observatory. / Gerald Schieven.

9437S. (should be before 9429) May 22 /
5-7pm / Gated Pass. PBS, Sunset

9438 E. May 28. 2300-0000/10-F/Penticton
DRAO/Lloyd Higge, the Schieven
family/8" Celestron/Jupiter.

9439 M May 30/31/ 0000-0100/7-F/JM4/
Miranda/TVGV (13.0), Jupiter.

9440 E. May 31/June 1. 2200-2215/10-F/Echo/
JMF/Bob(+Lisa) Summerfield.
Jupiter.

9441 E. June 1/ 2030-2115/7-F/Clyde's house/
Les Cruces.
Echo/Clyde, Patsy, Wendee/
Jupiter, Moon.

9442 E June 2./ 1800-2300/7-F/Tucson:
Greenberg's house/Echo/
Children's star party and Greg
Shablatt.

9443 M. June 3/4~ / ~3-4:00~/JM4/
Miranda/1 CN3 40m.

9444 M. / ~~June 3/4~~^{4/5} / 3:30-4:30 am /
betw. Eloy + Tucson / - / Jupiter in
West, Venus in East!

9445 E / June 5/6 / ~10:00-11 pm / 7-f /
Miranda / Jupiter

9446 M. June 6/7 / 3-4 am / 7-f / (Miranda) - /
CN3 45m E. No music. Pinchas
Zuckerman, but talking over phone
with Peter.

9446 M. June 7/8 3-4 / 10-f / (Miranda) - /
9454 M CN3 50min / THIS MORNING
was music with Pinchas
Zuckerman. Minerva with
ultra low power app.

*9447 E June 8/9. 11-12:30 / 7-fm Richard
Smith
outside Denny's
then at corner of Alvernon +
other airport road
then S-M-F.

Echo at all 3 sites to see
Moon pass N of Spica.
Finally Spica was so
close we could see ~~it~~ the Moon
actually move past it.


9448 E 2M. June 8/9/ 01:00-01:15 / ~~10~~ 7-fm /
JM4 / Miranda / Moon moving away
from Spica. Jupiter.

9449 M3. 8/9/ 3-4 am / 10-F / JM4 / Miranda
Minerva with new ultra low power
eyepiece, CN3 45m E, again with a
CD of Panchas Zuckerman.

9450 M. 9/10/ 2:45-4 / 10-F / JM4 / Miranda /
- / CN3 1h E.

9451 M. June 11/12 / ~0000 - ~0100 / 7-F - moon
close to Jupiter / JM3 / Observing
with Wendee.

9452 E June 14/15 / 2100-2130 / Scottsdale /
Peter Collins (binoculars) / G. R Cr B.
I estimated 5.9, Peter got fainter.

9453 E. June 15/16 / 2045-2130 / 3-F / JM4 /
Miranda / - / CN3 15m W, clouds
interfered. Also CN3 e TV Cru CB.0
and Jupiter.  - fainter than shown.

9454 is after 9446.

9455 M. Friday, 16/17 June.

José A. Sancho - May you never lose the enthusiasm!

Susan Spore enjoyed the "comet magic"

Amelia Baskby + Steve Baskby

Vincent R. Waley

Margie Nunes I thank you for a wonderful evening

0000-0100 / ~~10~~ 3-F / Steve and

Amelia's house / 13" reflector / Houston:

José Sancho, Susan Spore, Vincent Waley,

and Margie Nunes / Jupiter.

9456 E. Saturday, 17/18 June / Houston -
on Galveston Beach / 40 or 60mm reflector
telescopes that you have to put in a quarter
to use / Steve + Amelia, and Sandy
and Tom / - Jupiter, 2 moons.

What a fun day! It was so nice to
just relax with friends.

Amelia

A GREAT GROUP OF PEOPLE. FABULOUS FUN

Steve

9457M. Sunday, June 18/19/10-F
0145-0200/10-F/SMF/S.walk.

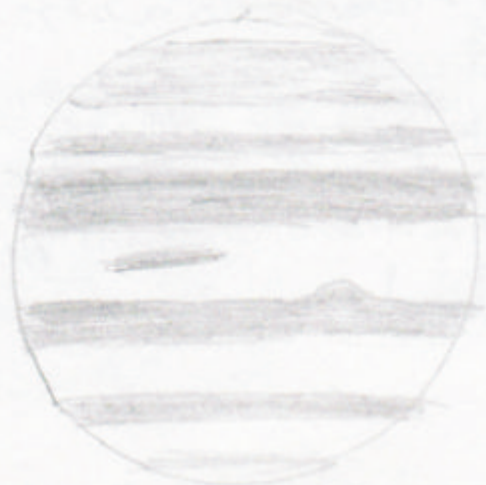
*9458E. Monday, 19/20/10-F/Mt Bigelow/
61", Echo. Astronomy Camp. Jupiter,
M87 with jet! See next page.

9459E Tuesday 20/21/10-F/SM4/

Miranda. Sky pretty good.

Jupiter is awfully bright this year!

Jim Thompson from Videodiscovery
Produced video segment for Astronomy
Videodisc project
Thanks!

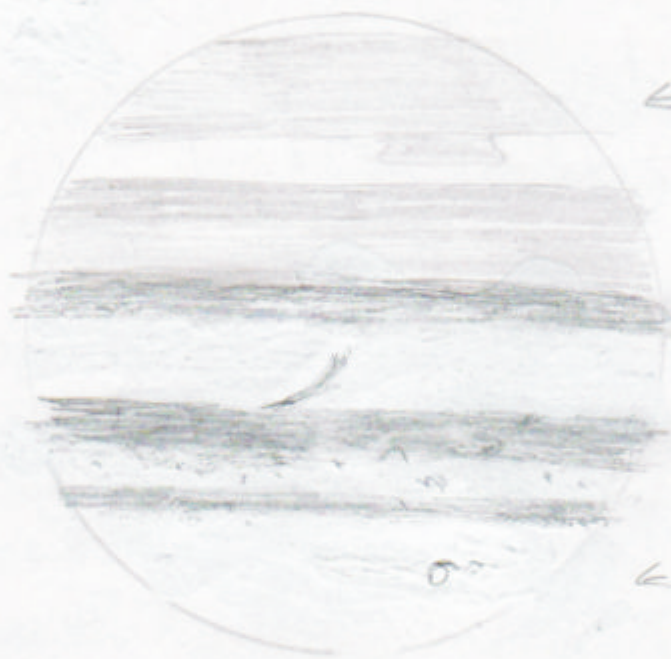


9459E.

9464M2 See 3 pages ahead.

Drawing for 9460E. by one of the children. I
9460E. did top half and he
kind of finished it.

21/22 June - 1900 - 2330 / 10-F/15M4; B/
~~10-F/15M~~ ~~15M4~~. ARTIST star party
Jupiter, M51, B Cyg.
Pluto and Charon, our
2 new ARTIST
Scopes.



← Impact belt.

See
+9458E

← I_o

Jupiter: 19 June 1995
10 pm

and therefore as a stranger give
it welcome.

There are more things in heaven
and earth, Horatio,
Than are dreamt of in your
philosophy.

9463M2. See 2 pages ahead.

Kathy Karczewski - I saw many constellations I've never seen before! It was wonderful!

The higher the better
Jacqueline Unangst

Paula Bartelle
Joy Urch

Jorge Paez

Julma Paez

Elva M. Watson



WOW!

Maack Watson

John Annibal

Lachrym Annibal

Dan Beach 😊

James E. Mitich - amazing to see the comet band on Jupiter + the 4 moons. Awesome! Thanks for sharing!

Mary Muratore - David - spectacular view of your Creation! Thank you.

Michelle Muratore - WHAT A TREAT! THANKS FOR SHARING.



Jessica Rose

I LIKED THE RINGED NEBULA

Michelle Kermes - What a great viewing night, the best ever




Ana-Alicia - I like when you point out the constellations for us. Jupiter is amazing.

6-21-95 ARTIST-PRE-WORKSHOP STAR PARTY

Took a $\frac{15:30}{min} \frac{30}{sec}$ Astrophotograph of Jupiter & scorpis & had lot's of fun. The moon never did show it's face, but the Milky way did rise for a spectacular show and getting to listen to Q2.9 rocked! It's so cool having such power!

Miranda

This face is "Blank" so fun. 



Lebosky 13 & 11 days

I had a great time helping people to locate Jupiter and Mars in the telescopes. You are entirely right, inexpensive telescope and expensive eye piece. I really enjoyed scanning the sky and the Milky Way through Miranda. The "checkmark" nebula is gorgeous. What an awesome sky and what a great view of God! I really enjoy everytime I come and look at the heavens through Miranda. I look forward to many more nights of observing this summer, you are such an inspiration and encouragement to me.

Susan Ken

M-17. Fabulous. It truly is gorgeous - Thank you for letting me see it. - Jan

- 9463M2 1/22 | belongs 2p back | 0230-0400 | 10-F1JM4 | Miranda |
- 9464M2 1/0230-0400 | belongs 3p back | 10-F1JM4 | CN3 | 1h E | 45m E |
- 9461E 22/23 - M | school | 1930-2130 | school | 5 Celestron (Arid) Echo 1 - Larry L., kids | Jupiter, B Cyg.
- 9462M2 2/24 | M (w. wenda) | 0230-0400 | 10-F1JM4 | CN3 1h, with | Miranda + Minerva |

~~9462E~~
~~9463M~~ 23/24
9465M (Wendee!) 0300-0400/10-F/
JM4/Miranda, Minerva / CN3 ~~335~~³⁵m?

There seems to be a meteor shower
with short, fast, meteors. Radiant
maybe in Cygnus, or Delphinus, ??
or Aur Pegasus?

9464 24/25. 9466M. 1030-0200/10-F/JMB.

Summer
of
1995

July

3/4/ 9467EM. / 2320-0145/7-F/
Peter's house / 16" Meade / - / Moon,

Jupiter, M13, Mizar, Leiding's
star near Mizar, stars nearby
down to fainter than 13.

see next page -

9467EM concluded
Comet P/d'Arrest 22 12, 87 +7 45.6 - rose
too late.

Congratulations on your new 40cm telescope - as yet
unnamed, but not untried. A fine evening. Peter.

Dear David - Another branch of the Kuchers
Clan salute you! Thanks so very much
← Denise Kucher



Jupiter

0115 EDT.

← significant
darkening in
impact belt.

94 685. 6 July. 12-3pm / 7-F / JMB / CBS filming.

David - you're proof that the avatar can make
a difference to the world and the cosmos.
Thanks for bringing the poetry of the skies
to our show

I'm privileged to have met you, and
will be looking forward to the CBS
special.

Alan Zuck

TUCSON CITIZEN - 7/7/95

DAVID "KING OF THE SKIES"

THANKS FOR PUTTING UP WITH MY TIRE -

WHAT AMAZING PATIENCE!

HAZEL TOO ONCE AGAIN

HAPPY ANNIVERSARY

-Yoni-



9469.S. 3-4 pm / 3-F / JMB / very hot / Yoni
from Tucson Citizen - photograph.

9470 E. July 8 / 2000-0000 / 3-F / JMB /
Dear David Minerva / - Virgil upgrades.
Echo -

got much enjoyment from
our home project working on your scope

Shalom,

cutdoor. Virgil Smith
at mirror
end of Echo -
paints tube.
reinstall mirror.

(Added later)
(to log.)

9482 M 6th July 0300-400 / 10-F / Mint+Mir / CN3 70m E

9481 M. 7th July 10300-0400 / 10-F / JMB / Mint+Mir /
CN3 1h E

9471 M2 0300-0400. / 810-F / JMB /
CN3 Mint+Mir / h E.

July 9 1995

#9472SEM/1500-0300/10-F/5MB/ Discover Channel
From Pioneer Productions to comet Pioneer David!

Many thanks for a memorable Sunday in Tucson -
and pyrotechnics celestial + terrestrial

Nigel Herbert



↓ here's to the
next one (or 21!!)

— Thomas Couper X

David, you know the old celestial dogma..

"Astronomers stay up all night!"

well, that's my excuse for a long stay anyway!

Regards, Richard Smith

Cheers David + Thanks for
a cosmic evening!

Kirstie

(Pioneer Prods)

Perhaps one of the stage things that
you've seen thru your telescope!!
Meteor Sprages

Arizona a Night.
Peter Kers Lake

An extraordinary session,
with helicopter flyover
AND
Fireworks.

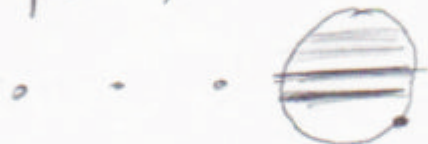
Clark + Lynda came too.

David,

You make observing fun and exciting. I finally got to see the moon and its craters. Thanks for sharing.

Fred Salazar 7/95
(your brother)

9473E / 2130-2200 / 3-F / 3M-4,3,2 / Phred
Salazar / Jupiter, Moon, 11 July.



9474S. 13 July / 12:30~~00~~ - 3pm / 3-F / LPL /
Echo, Ariel / Telescope demonstration

9475 ~~9474~~ E / 18 July / 2000-2200 /
~~2-F~~ F / 3M4, 3MB / Bev Harvey,
Fred Salazar.

9475E - concluded --

David -
You're a gracious
gentle man who
inspires me to seek
out the heavens. ☺
Ben Harvey
Project artist '95

David,

Otra vez estoy aquí, hablando y
mirando estrellas que no están aquí.
Ojalá que algún día vamos a ver algo.
Gracias por ser mi buen hermano.

David
L. L. L.

9476 S. 8:30-9:30 am / 10-F / LPL / July 19.

ARTIST / Echo / Safe Sun demonstration.

9477 M. 0230 - 0400 Sat 22/23 / 10-F /

JM4 / Miranda, Minerva / CV3 50^m E.

9478 M. 2000 - 2300 / 10-F / JM4 /
Miranda / Jupiter, New Comet
Hale BOPP.

9479E | 1930-2300 | 10-F/SM4 | Miranda, Merope,
Pluto, Charon, Ariel, Andromeda
24 July 1995 artist Astronomy Watch.

Sally Bryant

Thea L. Canino

Elva M. Watson

Maik K. Watson

Ryan D. Watson

Sally Mendoza

Deborah Otto

Arinda Mendoza

Charlene Mendoza

Cand Otto

Pamela Bartelle

Theresa & Keith Pavlek

Kelly Duggan

Kathy Lloyd

William C. Boyd

William T. Dewey

Karen A. Wilbanis

Rosemarie Hogstrom

Cattaro Gaither

Joni Smith

Bill Smith

Logan Gaither

Kathryn Annibal Thanks!

Daniel Beach


Sandy Kaseer *

Denise Arico

J. Perry

I would like
you to talk to me
about when you were
a kid - how did teachers
support you - or not?
What interested you -
what didn't? Did you
read? What did you
think or wonder about?
Were your parents interested
in astronomy - or were
they simply supportive
of you? How do I really
support my students??

Hey David - marvelous night, I really wish my friends
could have come, they would have loved it! See you tomorrow
when you'll have to teach me how to spell,

Miranda 
24 July 1995

Beautiful night. The sky is beautiful and full of
stars. It is so gorgeous. I look forward to each time we
can come and see the heavens. God is so awesome
and present when we view His creation. Such an inspiration!

ducar

Best view ever of Jupiter's cloud bands!

Nancy & Larry
5052 3439

9480 M1 July 24/25 / 0130-0330 /
10-F / JMF, (Swalk) JM4 / CN3 40m E.

9481, 9482, see before 9471M2.

9483 E | 25 July | 8pm - 11:00 10-F | JMB |
ARTIST session.

Keith + Theresa Pavlik 7/25/95 Tucson
Meg Bishop 7/25/95 Tucson/Portland


Hi David.

I was here again! Hazzah! Sorry - too much coffee,
I diet Pepsi is a tad overboard. We looked at a
lot of cool stuff tonight. I found & followed Jupiter
& it's 4 visible satellites on Pluto (4 new) & Charon (2 new)

TGFCN
Thank God for
Clear Sky
July 25th 1995

Ciao 4 now!
Miranda SI

Great clear night - so many stars, nebulas and galaxies.
Such a great and awesome evening. Thank God for a
wonderful evening! Susan

9484 E | 26 July / 10:15 pm / 10-F /
JMB / Echo / no one, not even from
ARTIST / Jupiter. 

9485 M2 3-4:10 / 10-F / JMB / Miranda -
Munera / CN3 45^m E.

27 July.

9486 M. 0100-0145/10-F/ JMB/ Miranda/
STEVE EDBERG! / M-31, M-33.

Noted bright HT region in M33. *Steve*

* 9487 M. 28/29 July / 0100-0430 / 10-3-F /

JMB, JM41 Meade 10" LX 200, Echo,
Charon, Miranda, Muriwa / Steve /

CN3 - 60m E.

Saturn - pictures by Steve - Titan disappearance.

M31 NGC 7331, M57, M45, NGC 253.

aimed successfully at NGC 7000.

LX200 very impressive optically +
electronically. Straightforward
to use.

LX200 v.3.20 data base misses many NGC 6xxx
objects.

LX200 pretty easy to set up mechanically

and computationally. Important points:

center each alignment star as well as possible,

w/ high power. Go from 1st alignment star

to 2nd w/ motors so encoders know where

telescope is during the move. Az axis

should be as vertical as bubble level +

patience permit. *Steve*

P.S. At end of some obs. session, →

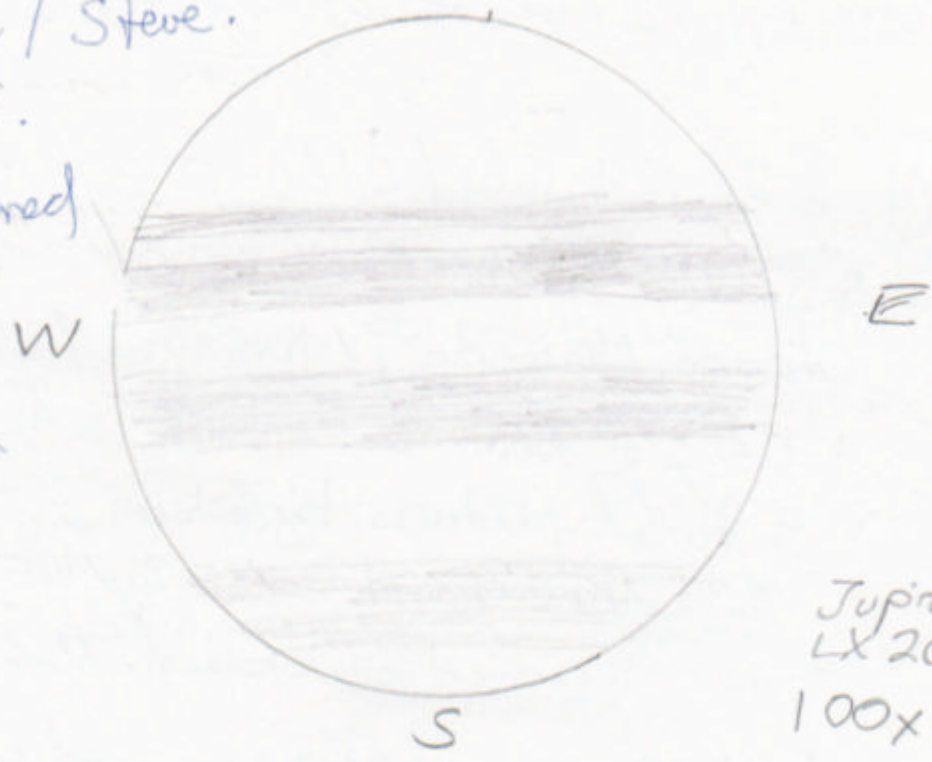
recommmend experiment w/ altaz pointing by motor, rather than RA/Dec. After use mid-session this night had to re-align. Does Altaz pointing screw up RA/Dec pointing knowledge?

9488AN. 29/30/2108-0430/3-f/5M4, 5MB/10" LX200

Miranda / Steve.

CN3 / hE.

A Suspect turned out to be NGC 1333 - interesting faint reflection nebula.



Jupiter.
LX 200
100x

29-30 VII 95

Looked at lots of colored double stars w/ LX 200. Most descriptions exaggerated to my eye. Had to re-time/date the LX 200 - not sure if this was due to poor set-up yesterday or clock drift in LX 200. Finder collimated better this night. Arcturus - Fomalhaut used for later alignments; possible poor pointing in NE. One must trust the computer that a target (close binary, e.g.) is in the field if it is

not immediately obvious. Pointing off-sets from FOV center were often consistent, at least in a zone of sky.

Many missing NGC's ^{B33} 6826; 7316, 7318, 7320 (Stephen's Quintet); 1275 = Per A. Defined by mag. limit?

Checked suspected Ξ using coordinate pointing to NGC 1333, which suspect was.

AltAz system makes finding N-E-W-S in FOV difficult, & can't shut-off drive! Image reversion w/ diagonal adds to confusion.

Great fun these 3 wites! Thanks ~~Steve~~

9489 E Sunday 30/31/21:00 -
21:30 / 3-F / JM3 / phone with
Peter, and Wendee.

9490 E Monday 31/Aug 1/
2020-2308 / 0-3-F / JM4/
Echo, Miranda! 'see next page -
Jupiter + Moon.

31 July 1995

David, thy for sharing w/ me and
Bev. I enjoyed looking at the moon.
I let you in on a little secret. During
all my observations, today was the first
time I saw the moon through the telescope.
A fantastic and goose bumpy feeling

7/31/95

David -
You've opened a new world
for me. Seeing the moon tonight through your
telescope will be an everlasting memory for me.
Thank you. —
Bev Harvey

July 31, 1995

The night sky is so beautiful now
that you taught me the way around!

Thanks,

Jan Beach ☺

July 31, 1995

What a warm and pleasant evening. Thank
you for sharing a part of yourself with my family.


Ezra 19:1-6,

Mike Steele
with Jennifer, Lindsay, and Cole

9491E. August 1/2/20:30-23:30 /

3-f/JM4/ ARTIST / Moon, Jupiter
Jupiter's impact belt very clean.

How mod. it's cloudy & windy & stormy & I can't spell worth beans. If there were more than clouds & lightning to look at, we would Jimbiree

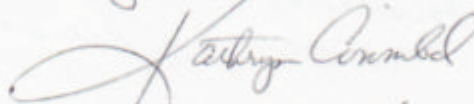
Miranda Lebofsky
Great Trekle & /
Lousy Speller 

8/1/95 Dear David,


Thank so much for the time to share your passion - it is contagious. It is always humbling & simultaneously exciting to be allowed to see into the heavens. My soul says thanks - Art Lebofsky

8/2/95 9492E. Aug 2/3 | 20:15-23:00 / 3-F /
Thank you for showing me the moon. JMB / JM4 /
Miranda, Echo,

8/2/95

Thank you, David for sharing Miranda and Moon, Jupiter tonight.  your beloved Jupiter. Ben Harvey

8/2/95

David, I never tire of your enthusiasm. I'm glad you are my friend & brother.  Fred Selzer



9491E
Jupiter.

9493/E. Aug 3/4/ 2030-2345/3-F.15M4/ARTIST: Moon, Jupiter,
David, I love your enthusiasm and love for the M31
universe. You are truly blessed for your uniqueness.
Thank you for sharing with me your enthusiasm.

David,

8/3

Thank you for sharing the wonder of the
sky.

Susan Andersen

It was great to finally see the square
of Pegasus + Cassiopea - it was my first
time! Thank you. Kathy Kargesh

Thank you so much for sharing a
few minutes of your favorite subject with
me - the wonder of the sky!
Shirsa Parikh

8/3

Always wondered what a cepheid variable was
- strange what people take for granted when they're
writing books. Thanks for the telescope time. You
make stars seem vital!

L. Perry

9494 S.

August 4/5 / W. of Gila Bend.
1900-1930 / Beautiful green flash at sunset.

9495 S. August 5 / 10-F / Palomar, 18-inch /
4:00 pm - 5 pm / Filming of Documentary
on Jupiter and S-L 9.
Pioneer Productions.

Thanks Again David, no doubt we'll
See you soon. Kurtle

Sorry no helicopters and fireworks this time,
but we had a great time re-living THE discovery!
Thanks for all your help, Little David, and see
you as co-host in the MEGA ASTRONOMY series!

Lots of love — Harshad

— and I hope you didn't catch the Kiwi cold...

It's a Wrap Wrap Wrap!!! — thank you
Richard

9496M Aug 6/7 / 300-3:15 / 10-F / E of
Gila Bend.

9497E Tuesday Aug 8/9 / 2100-2200 /
3-F / STAB / Jim Scotti, the
Machhohs.

Thanks for the tour and hospitality. The best
of luck in comet hunting, and everything else.

Don Mackley
Aug. 8, 1995

Thanks for a great time. Love Mackley

Matt M
Mark



* 9498E August 10 / 1900-2300 / 7-fm / Full Moon night
at White Sands with Wendee. Wonderful

9499EM Aug ^{evening} 11/12/95 - 0100 / 7-fm / drive to Tucson.

9500EM Friday Aug 25 / 2230-0100 / 3-fl

Starfest / 16" Meade,
Roy Bishop, Peggy Torrey
Jupiter ☉

/ Peter, Dianne,
/ Hale-Bopp.

9501EM Sat Aug 26 / 2000-0200 11-0-f / Starfest
Roy Bishop, others..., Brent Archinal,
Bob Bunge

*9502^{EM} Sunday 27/28/2230-0315/8-F/Peter
Dianne's house / Meade 16 / Peter /
BARRYDALE NEUTRINO OBSERVATORY, DECK SITE



large, faint, a little more
on right



Jupiter

M4

M3

NGC 6528 + 6522 GL

NGC 6569 [- didn't find 6558.]

NGC 6562 GL

M70, M69

NGC 6723 in G. Ara GL

M13, 92, NGC 6229 - GL in Her

M31

M15

M71 GL - NGC 6830^{OC} (No 6823)^{OC}

(OC) 6802 near Crookes Cluster

NGC 6885 (20 Vul inside) not 6882.

4 trains! NGC 6940 OC

Vel, NGC 6934, 7006 (in Delphinus)

Saturn.

This was truly a wonderful thing — a Tucson-style observing session here on "Partysdale Crescent"! And the 35mm eyepiece makes for amazing views. Thanks for being here, David. — Peter

9503 M. Aug 31/Sep 1 | 0330-0430 | 10-F | 5M4 |
Mm Min CN3 45^m. with Righteous Brothers CD.
9504 S. Sept 1 | 1330-1500 | 3-F | Cross School | SAFE SUN —
9505 M2 Sept. 1/2 | 0415-0515 | 10-F | 5M4 |
Miranda, Minerva | CN3 45^m with CD of
Chris de Bergh.

9506 E Sept 2/3 | 1900-1930 | 7-F | 5MB |
Echo | Jupiter.



9507 E2 2100-2115 | 7-F | I-10 near ASU |
at 2107, -2 fireball falling SE to SW.

* 9508 M3 0550-0630 | 7-F | I-10 near Oryzaft-Kolt. I saw at least FIVE green flashes. As I was driving SE, Sun peeped above mountains (1), then set ~2 sec later (2) then rose a min. later (3) + set about 15 seconds later (4), then rose ~2 min later (5). Then Sun spots with Echo.

→ This session was held with temp at least 102-105°. Humid. We did 5 groups of 130-150 people total. Larry, Nancy, Michelle Kermes + Sally Seacrist, teachers. I've never been so hot! We were outdoors for ~1.25 hr.



Used Echo for this session - her mount was almost too hot to touch when the session was over.

Larry A. Seacrist

Boy was it hot!!

9509M Sept 4/5/04 30-0500/10-F/JM4/Mir-1/CN3
95109M. Sept 5/6/04 00-0520/10-F/JM4/ 20"E.
Miranda 1-1 CN3 1h. Irish Rovers CD.

9511M. Sept 6/7/04 00-0515/3-F/JMB/Echo;
Minerva | Saturn. CN3 5"E.

*9512 E. Friday, Sept. 8/19 | 1800-2230 | 3-1-F1

Dearest David,

Tonite I had the best time observing the full moon with you at White Sands. She chose the best area for everything. She sat at the top of the world! It was exciting seeing all the changes of the moon due to the cloud cover. I liked sharing my excitement with all the kids around us when they came by to take a peek. The stars rolling in intensified everything we were seeing.

Thank for sharing your knowledge of the different spots on the moon. You are so wonderful & patient with me as I learn your world. I'm truly happy that you want to make me part of it. I love you, David!

Love,
Wendee

White Sands National Monument / Echo /
Wendee, school girl / View of Moon, and
Jupiter.

9513E. Sunday, Sept 10/11. /2030-2115/3-F/Clyde/Echo.

I enjoyed seeing the woman on the moon, and her diamond ring, Proclus, in your 3-inch telescope named "Echo" on 10 September 1995.

Clyde W. Tombaugh
Me Too - Patsy Tombaugh

Two nights ago I thought you showed me all the interesting features on the moon. The woman on the moon with her engagement ring was terrific.
Stendee Phlower

9514S. Sept 13 San Diego / ~1800-~1815/sunset

9515M2 Sept 13/14/ return to Tucson from Los Angeles.

9516E Sept 15/ 2100-2200/ 3-F/JMB; phone call with Wendee.

9517E Sept 16/2100-2230/3-F/JMB/ phone call with Wendee.

9518E. Sunday? 17/18/ 2100-2230/10-3-F/JM4/
Miranda / - / CN3 1h 40m W.

9519M ~~Wed~~ ^{Tue} 19/20/0400-0500/10-F/JM4/
Miranda, + Minerva / - / CN3 40m E.
Petroover phone
and magnificent view of ? Mir
- 2 to - 3 light over head: 542 + NE.

Wednesday night and
Thursday^{morning} Sept. 20/21/ ~~20~~⁰⁴ 20-0520/10-F/
9520M. J M 4 / Miranda, Munirwa / CN3 30m E.
Mir? briefly again in E.

9521E Thursday Sept 21/22 / 2300-2315~ / 10-F / JMF /
Friday, Wendee.

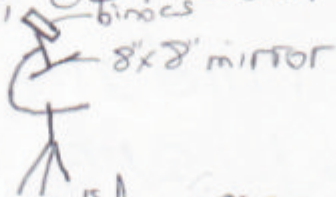
9522M. Friday Sept 22/23 / 0030-0045 / 10-F / JMF.

9523 AEW Wednesday, Sept 27/28 / 2300-2315 /
3-F / RASC. Clearing sky.

9524M2 / 0100-0145 / 3-F / LCP - J - 818 /
Walk from 818 to Le Fort de la Montaigne.
Nice night after passage of cold front.

9525 M / Friday, Sept 29/30 / 0045-0150 /
9.5-F / St Jacques observing site /
Louie Bernstein.

Mother's 8x21 binoculars were very
nice. We used also Louie's
SKY SCANNER, ^{or binocs} the SUPER SKY SNOOPER.
Very nice!



We saw things like M36, 37, 38 in same field -
33, 35, 31, 42.

• And a wonderful time was had - Thanks Louie.

9526EM Saturday, 30 Sept / Oct 1 1995/
22:30-0130 / 3-F / Sutton / RASC
Montreal / Carl, Christine Jorgensen,
Constantine. Carl's double star in
Cepheus Σ 2816 or 19. M31 M15 M42
Saturn with thin ring.
Christine Jorgensen

9527E. Wednesday, 4 Oct / 1930-1945/
2-F / Outside Shaan Hashamayim /
Mother / Look at gibbous Moon
through clouds, after Yom Kippur

9528M. 6/7 Oct / 4:30-5:30 / 7-Fm / 15 M4 / Municipal
Comet De Vico. Couldn't find Bradfield

9528E 8 Oct / Evening, around 9pm /
outdoor dinner. partly cloudy.

9529³⁰E 12 Oct / Volcano and at Kilauea
coast. 11900 - 2130 / 3-F / Steve O'Heara
beautiful night, with southern constella-
tions visible and ~~ste~~ steam + red lava
from Kilauea.

9530SE. 14 October. Mona Lani - Ritz
Carlton. Sunset.

9531E2 22:00-23:00 / 9-F / Ritz Carlton /
Larry, Linda French and Elizabeth
Roettger. Photos taken by ER.

9532 S. 16 Oct 123 pm / 3-F / JMB.

9533

Visit by Marc-Jobin and Marie-France Larochelle
Thanks for showing us around, David! Wish we'd gotten
here earlier, or could stay for an observing session with you!
See you in Montréal!

~~9533~~ ~~9534~~ Oct 19/20 / 5-1930-2230 / 10-F / JMF,
9534 SM4 / Echo, Minerva. CN 3 with Miranda 50m W.
Comet S-W 3 w/ Echo +
Minerva.

vous nous avez donné du bonheur

merci beaucoup

pour tout

et à bientôt; l'espère Catto

Thank you David for your generosity
and please come more often in Montréal

F de la Cassinière

Serge Lefebvre

J'ai beaucoup apprécié l'observation de Saturne
grâce à vous. Richard Bess

Merci pour le bref temps d'observation,

je vois maintenant un peu plus clair

Martin Beck

9535 M2. 19/20 Oct / 510-5:45 / 10-F / JM4 /

♀ Comet Bradfield at last! Nice 9th
magnitude fuzz-ball, no tail.

* 9536E. October 20 / 1800-1830 / 10-F / Oak
Creek Canyon lookoff. / Wendee.

9537#E2. 1900-1930 / 7-F / Carolyn's
and Gene's house / Wendee, Carolyn,
Fred.

9538S. 1100-1200 / 7-F / new Shoemakerbury site

9539E Oct. 21 / 1830-1930 / 10-F / Munierda /
Carolyn, Fred + Linda, Wendee /
View of Comet S-W 3. M31, Dbcl.

9540SE Oct. 22. 1500-2100 / NFB
← filming.

9541E. 25 October 1995 / # Cedar Falls /
1800-1900 / 12-inch LX200 / Tom Hockey /
Jupiter. Thin crescent moon.

9542E. 29 October / Toronto / 2145-2200 /
Richard / Moonset.

9543M 31 Oct / 1 Nov / Tucson / 0240-
0300 / 3-F / ~~JM4~~ JMF + walk.

9544M 5 November / 0245-0300 / 3-F /
Airport / Airplane passes Moon!

9545E 6 November / ~~02~~ 2300-2330 / 7-F /
Gene and Carolyn's House / - / Wendee /
Full Moon walk.

9546 E. November 12/13/ 2300-2345/ 7-F/
Montréal / near Le Fort / Richard /
walk near home, Moonrise.

9547E (before 9546) November 8/9/ plane
between Chicago and Harrisberg/
Moonrise in east: Beautiful gibbous
Moon.

9548M, -November 14/15 / 0245-0315 / near airport.

9549M Nov 15/16 / 0250-0315 / 3-F / 3MF / .

9550 E November 16/17 / 1915-2230. / 10-F/
3M4, 3MB / Flandrau Star Party.

Linda A. Kroll - spectacular!

Sirius E Garfield - I actually learned something, thx.

David A. Garfield ☺

Greg Garfield - what a treat!

Phil D. - THANKS! ALWAYS WANTED TO SEE
SOME NOVAE DIARY. GOOD LUCK

Phil 2 Gell - spectacular! WCTP more comets.

9551M2. 0240-0300 / 10-F / 3M4, B: 3MB, 3MF + walk.

9552E. 17 Nov / 1830 - 2100 / 8-F / Vail / Mary
Muratori Muratori + classes. / Echo.

9553M2 . ⁰⁵⁰⁰⁻⁰⁵⁵⁰ ~~0250-0330~~ / 3MF + walk Very
bright Leonid - 30 minute Shuttle + Mir

November 18/19
*9554 E. 1830-0000 / 10-F / JM4 / Miranda,
Minerva / CN3 4 hours, west. A good
visit with Wendee by phone during
this session. Very still, beautiful
night.

9555 M2 0250-0310 / 10-F / JM4 / south walk

*9556 E. November 19/20 / 1830-2300 / 10-F / JM4 /
Minerva, Miranda / CN3, 4 hours, west.
Another phone visit with Wendee and
others.

probably 9561+2 are after here; their dates are uncertain.

9557 M? November 20/21 / 0300-0315 ~, / S. walk.

9558 E. November 23/24 / 1800-1840 / 3-f / Las
Cruces, Wendee's house / Wendee and
her parents / Echo / Beautiful
conjunction of Moon, Venus, Jupiter,
and (I later learned) a faint Mars - all
low in west.

9559 S. November 24 / 11:30-11:45 / 7-f / Clyde's
house / Clyde / Echo / Sun. No spots.

9560 E Nov 25/26 / # 2 / 15-2130 / Wendee's house /
walk with Wendee.

{ 9561 M November 19/20? / 0430-0530 / 10-F /
Dates okay? JM4 / ^{Minerva} / CN3 45m # E.
9562 M November 20/21? / 0330-0430 / 10-F /
JM4 / Miranda / CN3 1hr. E.

9563M. November 27/28/ 0240-0310/ 10-F/ JMF + walk.

9564M. November 28/29/ 0250-0315/ 10-F/ (walk)
Echo, without mount/ M42, plane!

9565E November 29/30/ 1815-2108/ Vega-Bray
Observatory / ARTIST program, with
Echo. / L. Lefofsky, N. F. M. Lefofsky,
Ed Vega, Dean Ketelsen / Moon.
View of Moon also with 12" refractor
f/15!

9566M2 Nov 29/30/ 0240-0300/ JMF + walk.

9567E. Nov 30/31/ 1930-2000/ 7-F/ The Book
Nest, Flagstaff / Echo / Gene +
Carolyn, Larry, Fred + Linda,
children + parents / The Moon.

*9568S. ~~Nov~~ Dec 1 10:30-11:00/ 10-F/
Shoemakerlevy site, Flagstaff/
Echo / Larry Lefofsky, Gene +
Carolyn Shoemaker / Sun.
First session at our new site!

9569E2 ~~B:~~ 1720-1740/ 3-F/ U of A, Larry's
house / Larry, Susan Korn / Sundog
parhelion. Moon through Echo.

9:57 to EM. Dec 1/2/1900 - 2200 110-7-Fm 1

JMB / ARTIST Star Party.

Heather Dillard - I had a wonderful night. Thank you for finding the woman in the moon!

Glouia Murphy - as always your enthusiasm and your view of the sky are great! Thank you!

Jonathan, Lillian & Analisa Becker - As always a delightful, insightful, wonderfully pleasurable time. I always learn so much.

I learned a lot, as usual! Orion is beautiful ~ Laura Carney

Thea Carney - first time I've seen the

Crab Nebula! Thank you.

Theresa Pavlik - Thank you - see you Jan 7th for some sun at Bradley

Joan Metzger - Thanks, this is addictive isn't it!! Great fun.

Dusan Ken - Great, clear evening. I love Saturn, the moon & the nebula. Thanks for all the support and opportunities you've given me over the last year. I will treasure these times forever. Psalm 148.

Thanks David!

Hi DAVID! It's Miranda. I've got a history of this. ALWAYS coming
EVEN WHEN I'M NOT 100%. CU (see you around)
Miranda.

Dec 2 1995 what a pleasure to interview
a "non-scientist" about science. A
true professional!

✓ Diet Taylor YORK FILMS
OF ENGLAND
Martin Colham Cl/B

9571 ES. 11:00-1pm / 3-F / JMB / Interview
with York Films of England.

9572 M. Dec 4/5 / 0250-0310 / J-MF+S. walk

9573 M. Dec 5/6 / 0255-0315 / JMF+Southwalk

9574 M. 6/7/8 / 0250-0315 / JMF+Southwalk

*9575 E. Dec 8/9 / 8:30-10:30 pm / 7-F /
Las Vegas / Linda Pfeiffer's classes
star party - more than 100 people -
highly successful.

9576 E Dec 9/10 / 10:00-10:15? / 7-F / Clyde's
house, Las Cruces / Moon / Echo.
Wendee + Tim Hunter.

9577 S. Dec 10 / ~~2pm~~ Noon-12:15- /
Clyde's house, Las Cruces / Sun. / spot.
Tim + Wendee.

9578 M. Dec 11/12 / 0250-0315 / JMF+S. walk

9579 M. December 13/14 / 0230-0310-
clouds - & one Geminal.

See 9589E
21 December 1995 - A wonderful visit to a great site.
Appreciate the hospitality. Thank you!
David Wolfe

9580E. December 13/14/ 1900-1930/Session.
Wende told me of to a beautiful
sunrise this morning, with lovely
colored clouds. Then this evening,
she saw a meteor in Orion - a
Geminid.

9581M2. 0250-0350/7-fm/JMFT
S. walk. 36 Geminids despite
last quarter moon.

9582M. Dec 14/15/ 0255-0330/JMFT South
walk.

9583M. December 17/18/ 0255-0610/JMFT
South walk, JM4/Miranda + Miraval
CN3; 2 hours, Pollux-Castor, and
East.

9584M Dec 18/19/ 0250-0603/10/JMFT S walk
✓ 9588E 19/20/ 2200-2300/10-F/JM4/CN3 45 min E
9585M Dec 19/20/ 0245-0315/JMFT S walk.
*9589E 21/22/ 2200-2250-/CN3 30 min E
✓ 9586M Dec 21/22/ 0530-0630/10-F/JM4/
Miranda | - | CN3 30 min

9587E. Dec 22/23/ ~~0330~~ 0255-0400/JMFT
JM4, Miranda | CN3 15m, +TVGV.

9590S, 23 December 1995 / 1415-1455 /
3-F / JMF / Echo / Wendee! / Sun.

9600E.

~~9590E~~ 24 December 1995 / 1840-1855 / 3-F /
Fiesta Island, San Diego / Minerva / Wendee! /
Moon.

*9591 E2 24 December / 2330-2340 / 3-2-F /
Queen Mary / Test session for "Bruiser,"
Wendee's new telescope.

+9592E 25 December / 1815-2130 / 3-F /
Palomar / 200-inch, Minerva / Wendee,
Jean Mueller + family, Bob Thickett,
others! 200-inch was open for visual
observing! But it didn't work, so
we set Minerva up outside and used it
instead. We looked at the moon
and Saturn ... Minerva was the
telescope that worked. *Jean Mueller*

9593SE. 26 December. 1:30-7:30/
clear / Palomar / Jean, Wendee, Nanette,
and Mark / Minerva / Sun, later Moon +
Tenny /
Town of 18-inch and 200-inch. Wendee
and Nanette got to "guide" on 48-
inch.

9594.E2. 2200-2230 / clear / Queen Mary /
Wendee walk

9595 EP. 27th December. / 2100-2130 /
Wendee, Steve Edberg, Janet Edberg /
Walk on Queen Mary.

9596 EP 28th December 1800-1810 ~ /
East of Indi / - / Wendee. twilight.

9597 E. 29th December. / 2230-2245 / Clear /
JMF / Wendee's birthday.

9598 E. 31 December / ~1830 - ~1845 / 7-F /
Rest area near Deming / Bruiser /
Wendee. Very high winds. Looked
at the Moon.

9599 M2. Midnight walk. 10015-0035 /
2-F / Wendee's street. / - / Wendee -
glimpse of Moon, fireworks in city.

* See prev. page for 9600 E.

1996

9601E. 3 January | 2200-0000 | 7⁸F but
some Moon / Miranda / Guy and Brenda
(Westcott).

Viewing and a visit.

1996 JANUARY 3-4th.

Guy Westcott. Being here is like living in an
Astronomers Wonderland. & Brenda Westcott-Wiley

9602E. 5 January | 2130-2215 | 7-Fm |
Gene + Carolyn's house, Flagstaff / Brunner,
Mirorva / Wendee, Gene and Carolyn /
Moon.

9603S. 6 January, Saturday | 0800-1630 |
10-F / CN3F observing site / Wendee,
Gene and Carolyn, others / building
of Dome.

9604S. 7 January, Sunday | 0830-1500 | 10-F /
CN3F Observing site / Wendee, Gene and
Carolyn, Linda + Fred, others / mounting
of dome.

9605E. 11 January | 1830-2230 | 10-F / JM4 / Mirorva,
Miranda / Wendee on phone / CN3 3 hours 72.

9606 M2. 11 January / 0250-0315 / 7-f / S. walk.

9607 E. 12 January, Friday / 2100-2205 / 10-f / JM4 / Miranda (Wendee on phone) CN3 / hour W.

9608 M2. 0450-0610 / ~~10~~ 7-fm / JM4 / Miranda, Mineral - / CN3 1 hour east. Also, CN3e; TV Gr, ~~14.0~~ 12.5

⁹⁶¹³
~~9608~~ MS. 13 January / 1400-1430 / 7-f / repair of weather protection on JM4 station.

9609 M2 0255-0320 / 7-fm / S. walk, JM4 / Miranda - / CN3e: TV Gr; 14.0.

9610 E. 14 Jan / 1845-1910 / near home / late dusk on SR 83

9610 E2 14 January / 2330-0000 / 8-f / Lordsburg / Best Western Motel / Echo / Wendee / M42. Also, Bruiser: M42 + surrounding stars.

9612 S. 15 January / 1100-1115 / 10-f / Lordsburg / Echo Wendee + Sun, no spots.

9614 E2 15 January, Monday / 3-f / JMF / 200-2115 / sky cloudy N, clear SW.

9615 E. 16 January, Tuesday / 2-f / N of Phoenix / Sky mostly cloudy; Venus visible.

9616 MP2 0115-0125 / 2-1-f / Flagstaff, Gene + Carolyn's house / 1-1 only one star!

#9617 S. 17 January 1996 / 10 am - 5 pm / 3-10-F /
VERY WINDY / Shoemaker-Levy Observatory /
Finishing overhead work in dome so that
scope could be installed. By 4 we were
done, and we installed Ophelia's mount.
Drive works!

*#9618 E2. 2045-2345 / 10-F / Shoemaker-Levy
Observatory / First light. Used Echo
as a telescope mounted on Ophelia;
and the drift method for polar alignment.
VERY COLD. Ophelia's Schmidt
installed, and Echo attached using
rope to Ophelia B.

9619 S. 18 January 1996 / 1620-1720 / 2-F /
Shoemaker-Levy Observatory / - / visit.

9620 E2. 2030-2230 / 10-F / Shoemaker-Levy
Observatory / Ophelia and Echo /
Carolyn Shoemaker / Completion of initial
alignment using drift + Echo. Also,
view with Echo of M42.

9621 M3 0400-0500 / 10-F / JM4 / Miranda / - /
Peter over phone. CN3 45^m E.

9622 E 19 January / 1900-2030 / 10-F / JM4 / Wendee
over phone. CN3 1^h W. Miranda + Miranda.

9623E. Saturday, Jan 20/1845-2300/10-F/ JM4/Miranda + Minerva / CN3 3 hours W.
Wendee over phone. Galaxy cluster in N. end of
Circlet.

9624M. Sunday, Jan 21/0230-0250/2-F/ JM4/Miranda/ CN3e. N Cru - TV Cru. (13.5).
John G. on phone.

9625M. Monday, Jan. 22/0250-0310/8-2-F/ S. walk.

Thank you for putting stars in the eyes of young
readers all over Tucson! Love of Reading 1996.

Rene Griffith
M/4/15/16

9626M. 23/24/05-0600/10-F/ JM4/Miranda -
CN3 45m E.

9627M. 25/26/3-4/10-F/ JM4/Miranda -/ CN3 1h E

9628M 26/27/4-5:15/10-F/ JM4/Miranda -/ CN3 1h E. Used set of album.

9629M. 27/28/4-6/10-F/ JM4/Miranda, Minerva / CN3 1h 45m E using double white album.

9633S. February 9, 1996/0900-1000/10-F/ JM4, 3

Adler planetarium photography

THANK YOU DAVID! - Mark S. Well

We appreciate your help - Craig Stillwell

9630E. Feb 23/210-2200/2oo Guercas/Wendee's friends.

9631 E.M. Feb 5/6/ 11:30-1:30 EST / 7-9-F /

9632 E.M. Taxi Ride from Atlanta to Auburn, Cold.

9633 - see overleaf. Feb 6/7/ 11:45-12:30 / Auburn University

*9634 E. Feb 8/9/ 1900-2330 / 10-3-F / S-L (observatory)
first photograph. D. Levy + C. Shoemaker

9635 E. ~~9/10/~~
Start End Exp. Field

1,2: 22:03 22:13 10 & α Gem light exposed

3,4: 22:26 22:36 10 α Gem irregular cut

Feb 9/10
2,3 9:11 9:16 5 Belt of Orion difficult guiding

4,5 9:27:30 9:38 10:05 α Gem superb alignment, easy guiding

1 9:47 9:52 5 Belt of Orion easier to guide than other pair here - light exposed

Learned: 1) cannot expose film holders when loaded to light which leaks in, 2) very important to cut film into squares.

↑
9635 E. Feb 9/10/ 1900-2230 / 10-F / Shoemaker-Lewy
Observatory, Flagstaff / Carolyn. CVBF.

*9636 E Feb 14/15/ 2100-2315 / 9-F / Cedar City,
Utah / 14" Celestron, The Sorensens + a
group. I was able to locate the Comet
in Ursa Major without any charts. Haley
Dawn Sorensen got her a brew, so we
called it Haley's comet.

9637 M Feb 15/16/ 0300-0330 / 3-F / SM4 +
South walk. Comet in UMa, TV Gw-C14

9638 E Feb 26/27/ 2000-2015 / 3-F / Wende's
house, Las Cruces, NM. Clouds in N, big
cloud, but clear in S,

9639 M, Feb 27/28/0130-0145/~~7~~f-m/JMF1
Echo-1 Moon.

9640 M, Feb 29/Mar 1/3:30-4:45 EST/3-f/
Peter Jedicke + Dianne Jedicke's house/
Herchel - 16" Meade/ Herchel: new name.
M51. Tried for Comets in UMa + first
Hyakutake comet. Didn't see them.

9641 M, 2:30-3:15/ JMF + S. walk. March 3/4.

9642 E. 5/6, 1900-2000/ 3-f/ U of A Campus/
Wendee, Larry L., Susan Kern/ H. Echo,
5" Celestron/ Venus, Moonrise through
trees over Rincons.

9643 E. 6/7, 2100-2230/ 7-f/ Tim + Carol's
house/ Tim, Wendee. Hot Tub.
Looking toward Dipper, where Hyaku-
take ~~will~~ will pass soon.

9644 E 7/8/ 2100-2130/ 1-f/ Townsend School/
Echo/ Wendee.

9645 E 9/10/ 2200-2215/ 3-f/ Phoenix/ Short
session with Tom Bopp and his father.

9646 M 10/11/ 0245-0315/ JMF + S. walk.

9647 M 11/12/ 0245-0330/ JM4 + S. walk/
Miranda/ TV Gr V U4, Comet Hyakutake,
4th mag!

9648 M. March 12/13/ 0250-0310 / mostly cloudy. Comet?

9649 M. 13/14/ 0245-0330 / 10-F / JM4 + S. walk, TVGV (14). Comet Hyakutake $M_1 = 3.5$.

9650 M 14/15 / 0230-0300 / 10-F / JM4 + S. walk. Comet Hyakutake closing in on 3rd magnitude; slight tail to west.

9651 E 15/16 / 2100-2350 / 7-F / Tim Hunter's house. Saw Comet Hyakutake with his Meade reflector. As I was looking at the comet with naked eye, I fell down his steps and sprained my ankle.

9652 M2. 10100-0130 / 10-F / JM4 / Miranda - CN3e, TVGV (14), Comet Hyakutake.

9653 EM 12200-0230 int. (on Amtrak Train) / Comet NE.

9654 M2 17/18 March / 0300-0330 / 10-F /

JM4 / CN3e: TVGV (14), Comet brighter than 3.

*9655 S. 18/19 March. 1230-1:00 / 7-F / Robin's Echo School / Echo / ~50 children / Safe Sun.

*9656 S2. 18/19. 2:30-3:00 / 7-F / Gridby Middle School / Echo / ~200 children / Safe Sun.

+9657 M3. 18/19 March / 0430-0530 ~ 110-F /
Miranda, Murice / Comet Hyakutake
close to 2nd mag, 15° tail. UGV (14).
Talked with Jim Scott about Comet
CN3 1/2 hr. E. Also saw Hyakutake!

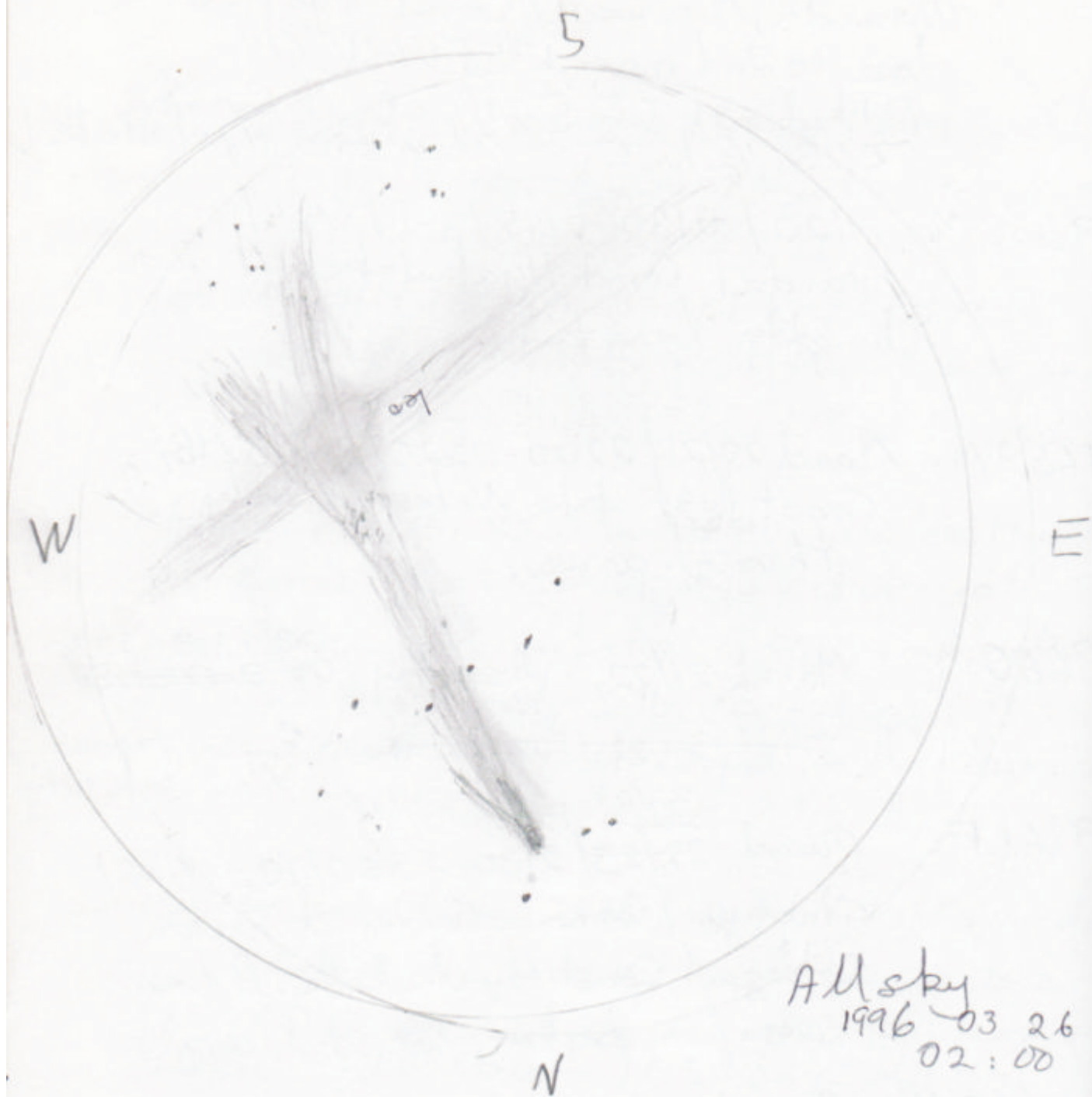
9658 M. 19/20 / 0130-0145 / 3-F / JM4 /
Miranda / Comet Hyakutake, M. 2 or
brighter, long tail.

9659 M. March 20/21 / 0200-0220 / 3-F / JMB /
Comet Hyakutake, Naked eye only
through auras.

9660 M. March 21/22, ~~Thursday~~ ²³⁰⁰⁻²³³⁰ / ~~0130-0200~~ /
1-F JM4 / Comet Hyakutake. Essex House,
New York City

9661 E. March ^{23/23} ~~22/23~~ / 2130-2300 / ~~10-F~~ 6-F /
Chicago / Cernan Center at Triton
College / Comet Hyakutake. Also
seen from parking lot at Denny's.

*9662 M March ~~25~~ 24/25 / 0000-0300 int /
3-F / JM4, JMF, Miranda, Murice / CN3.
Comet Hyakute. Long tail - perhaps
50° or more. $M_V = -0.5$.
Stunningly beautiful comet.
12 pictures with Yashica + ISO 50.



All sky
 1996-03-26
 02:00

663 AN / March 25/26 / 1915-05 30/7-F / ~~SM4~~

Elementary school, then SM4, then cactus on
 Sahuarita Rd, then SM4. All night views
 of Hyakutake as follows:

Phase A: School, with Echo. Moon, Venus, Comet
 Phase B: SM4, with Miranda's Myra. Jim Scott
 Michael Magee.

Phase C. Cactus, with Jim Scotti, picture

Phase D. IM4 with Miranda + Minerva.

CN3 45 minutes.

Saw Hyakutake 1995 Y1 and

Hyakutake 1996 B2

simultaneously
at same time.

← 1° across page →



Hyakutake

Miranda

1995 03 26

02:15 MST

9664E. 26/27. 2230-2300 / 7-Fm - JMB /
- / Michael Terenzi / naked eye view
of the comet near Polaris. Crutched
East.

*9665M2. 0215-0445 / 10-F / JMB, Sahuarita
Road / Yushica / D Jim Scott / very
nice pic of cactus with comet
nearby, over behind, near UMi.
Then picture of comet behind my
Lord Ross telescope mount. Comet
just slightly fainter than last night
but still has 100° tail.

9666M. Wednesday, 27/28 / 0100-0130 /
7-3-Fm / ~~JMB~~ JMB. Comet
Hyakutake fading slightly.

9667M Thursday 28/29. 0000-0030 - /
7-Fm / JMB / Comet fading, moonlight
interferes.

9668E Fri Mar 29/30 / 2230-2245 - /
7-Fm / Las Cruces / Clyde, Patsy,
Wendee, and Las Cruces Ast. Soc.
members. Comet barely visible in
city.

9669E, Sat Mar 30/31 / 2100-2230 / 7-Fm /
J Wendee's friend Lisa's house,
E of Las Cruces. / Echo, Brunser

Comet Hyakutake, Moon, Venus, M45.

9670E. Sunday, Mar 31/ ~1900-1915- / Continental
Divided Michael Magael. Sunset with a hint
of green flash.

9671E2. 2030-2045/~~10~~-Fm/~~3~~ E. Arizona,
off I-10 near old 666 / Michael / Comet Hyakutake.

9672E3. 2200-2230 / 7-Fm / JMF. Comet now low /
Michael.

*9673E. April 3/4, 1996 / 1830-2100 EST / 7-F /
Gerry's + Audrey's house, Montreal /
Gerry + Audrey, Mother, Billy, Debby,
Michael, Daniel. Joyce and Larry,
Robbie + Joy, Ali / First Passover Seder.
Total Lunar Eclipse. Moon
was a medium bright red; brighter
lower part, ^{more} darker at top.
Beautiful eclipse. Also saw
the comet.

9674EM. April 9/10 / 2200-0100 / 7-F /
Shaar Hashomayim / Yastical / Carl /
pic of shul, first, with only faint
stars. After a break, we
returned to take a pic of
the shul with Vega over it.

9675E. Sunday, April 14/15. | 1930-1945/
3-F/Shaar Hashomayim / Gerry, Michael / pics of
shul.

9676E2. 2045-2200 / Gerry + Audrey's house / 7-F/
Egusa, Yastica / Comet. Mother and Michael
got good telescopic views of it. Michael
+ I took some sky pictures, Venus, UMa.
Michael did a drawing of the comet.

9677M. April 15/16 | ~0100-0115 ~ | 3-F/
JMF.

9678M. Apr 16/17 | 0130-0145 | 3-F / JMF.

* 9679E. April 17/18 | 1930-2100 / 5-F / The
Nature Company / Michael Maize /
despite very bright lights, we
found the comet through their
Meade + Celestron scopes.

9680M2. 0000-0015 | 10-F / JMF / -1 Wendee.

9681E. Apr 18/19 | 2030-2100 / S. site / -1 Wendee /
look at Comet Hyakutake.

9682E. Friday, April 19/ 2000-2020/
10-F/ near Gory, New Mexico / Minerva/
Wendee / Beautiful view of Comet
Hyakutake in to northwest. 10° tail
and nice coma.



9683E. Saturday, April 20/ 2130-
2200/ 7-F/ Wendee's house / Wendee,
her friend Jori, and Bob / (Minerva)
Moon with strong Earthshine

9684E Sunday, Apr 21/ 2000-2015/
10-F/ Site East of Deming. / (Minerva) /
Comet, final view I think.

9685M Mon, April 22/ 0130-0145/
9-F/.

9686M Tues, April 23/ 24/ 0140-0200/
8-10-F/ JMF, JMB. Talking over
phone with Jean Mueller.

*9687 E. Wednesday, April 24/1930-
2130/3-f/ Gridley Middle School.
Teresa, Larry, and about 100
people/ Echo/ Moon, Venus.
There was also an 8" Celestron
a Dobson telescope. We saw
M3 through that.

9688 M. Friday, April 26/0145-0200/
hotel in Sacramento.

9689 E. Saturday, April 27/2000-2200/
3-f/ JMB/ Sat outdoors and
observed Auriga setting and
spoke with Wendee.

*9690 S. Sunday, April 28/10:30-2:00/
10-f/ KPVO/ Dedication of
the Bart J. Bok 90 inch telescope.

9691 EM Monday, April 29/10:00-0200/
intermittent naked eye views.

9692 M. Tuesday, April 30/0130-0200/
3-f/ JMB, JMF.

9693 E. Wednesday, May 1/1900-1930/3-f/
• Shoemaker-Lamy obs. Flagstaff/ G, G, + Larry.

9694E2 / 10 pm - 10:15 / 7-F / G+C's house / Gene, Carolyn,
Larry, Echo, Moon
9695E. Thursday, May 2 / 10:30-12:00 / 10-F /
Near Prescott, Arizona / Larry, Bev-Harvey /
Beautiful sun session with Murepa
and with elementary school children.

*9696E2. 0130-0200 / 3-F / JMB, JMF.
Last night living at 120 William
Carey Street.

9701E here
*9697E2 Friday, May 3 / 2130-22:00 / 7-F /
Jarnac - Wetstones! / Wendee, Dolores / site for
new obs.

*9698E. Sunday Saturday, May 4. / 2200-
2300 / 7-Fm / JMB, JMF - Jarnac -
Wetstones! / Wendee, Dolores,
Michael, Tim, Carol. Confirming
the site for the new observatory.
Earlier, Wendee + Virgil placed to
cactus sticks to mark the site.
Mintaka - looked at Moon.

9699M Sunday, May 5 / 0130-0230 /
7-Fm / JMF / Look at sky from 120.

9700M2 0240-0300 / 7-Fm / JM-new.

**9701E ~~Saturday~~ Friday, May 3 / 1915-1940 /
7-F / JM4 / # should be after 9696.
Final session at Jarnac-Field
Station 4.

**9702E. Monday, May 6. / 0100-0200 / 9

visited my old house and yard for the last time and had my final session there.

9703 E.M. Tuesday May 7. 0130-0200/
clear. Visited old house - outside, but
the new owner lives there now.

9704 E.M. 0210-0300 / clear / new home.

9705 S. Wednesday, May 8 / 0908 -
10:30 / Setting up 'observatory site
called JARNAC.

9706 E. Saturday, May 11 / 2208-2230 /
10-F / 18" / Wendee.

9707 AN Sunday, May 12 / 1900-0330 /
10-F / 18" / Gene and Carolyn, Wendee! /
CN3g: 30 films.

9708 AN. Monday, May 13 / 1830-0400 / 10-F /
Palomar 18" / Wendee / CN3g: 32 films. CN3
Minerva, 10min EV.

9709 SAN. Tuesday, May 14 / 1830-0415 /
Palomar 18" / Wendee, later Gene and Carolyn
and Wendee / First, Geographic interview
Then CN3g: ~30 films!

9710 AN. Wednesday, May 15/1830-0430/
CN3g ~ 30 films. Palomar 18"
Gene, Carolyn, Wendee. Also
Nat. Geographic filming. CN3-Minerva,
10min. E.

9711 AAEM Thursday, May 16/1830-0430/
CN3g ~ ~~30 films~~ 25 films. Filming 3f
by Geographic first, then we observed.
Wendee, Gene and Carolyn were there all til 2
~~night~~ the Geographic was there 'til midnight
about 10.

9712 AN. Friday, May 17/1830-0600/
Filming by Geographic til 10 midnight
or later, then we observed.
Wendee and I began during the
end of the filming; then Gene
joined us & got Carolyn joined
after they finished filming her at
the stereomicroscope.

9713 AE. Thursday, May 23, 1996/2230-
2300/La Canada/Steve Edberg

- 9714E. Friday, May 24/11 pm - midnight - /
clear / Wendee / at our new home!
- 9715E. Saturday, May 25 / some skygazing
at our new home.
- 9716E. Monday, May 27 / 2100-2230 / 3-f /
Jarnac / Wendee, Billy and his friend Jason,
Michael Magee / M57, M13, #.
- 9717E. Wednesday, May 29 / 2100-2230 / 3-f / (Jarnac)
Wendee, Michael.
- 9718EM. Thursday, May 30 / 2000-0100 int clear / (Jarnac)
Wendee, Bob + Lisa Summerfield.
- 9719S. Saturday, 1 June / 1100-noon / observatory
construction work with Vegil.
- 9720E. Sunday, 2 June / # 10^{pm} midnight / 7-f /
Albuquerque - / several telescopes / with
Mark Boslough + David Crawford, Peter Jedicke.
- 9721E. Monday, 3 June / 8:30-10pm / Alan Hale,
Gene Shoemaker, Peter Jedicke / walk in
Albuquerque.
- 9722S. Thursday, 6 June / afternoon / observatory
construction.
- 9723E. Friday, 7 June / 2230-2245 / 3-f /
Phoenix.

9724 E. Saturday, 8 June / 2300-0000 ~ 17-fm /
Jarnac. Wendee.

*9725 E Sunday, 9 June / 1930-2200 / 10-F /
Mt Bigelow 161" / Wendee, Don McCarthy,
Astronomy Junior Camp / M87.

9726 E. Monday, 10 June / ~~19~~ 2300-0000 / 10-F /
Jarnac / Wendee.

9727 S. Tuesday, 11 June / much of day, int / observatory
construction with Virgil Smith.

9728 E2 12200-2300 ~ 10-F / Jarnac / Wendee -

9729 S. Wednesday, 12 June / much of day, int /
Virgil, Wendee / observatory construction.

9730 S. Thursday, 13 June / much of day, intermittent /
Virgil, Wendee / observatory construction.

9731 E2. ~ 2300-0000 / ~~10~~³-F / Jarnac / Wendee / -

9732 S. Friday, 14 June / ~~23~~ 1100am-3pm, int /
Virgil, Wendee / observatory construction.

** 9733 E2R 2300-0100 / 10-F / Jarnac / ~~the~~ Miranda /
Wendee / FIRST LIGHT for new Jarnac
Observatory. Wendee, Chauncey, Odie,
and Humphrey saw light from the
observatory. Wendee & I looked
at Jupiter using Miranda.

9734S. Saturday, 15 June / 8:30 am - 6 pm / 7-F /
Jarnac Observatory / - / Virgil, Wendee /
observatory construction.

*9735E12 10pm - 12:30int / 10-F / Jarnac / Miranda /
Wendee, Chauncey, Odie, Humphrey /
M17. This is a magnificent observatory -
I hope we'll have many happy years here.

Sunday, 16 June.

9736E 2100 - 2330 / 10-F / Shoemaker-Levy Observatory
Carolyn, Frank + Tom Bopp / CN39. 4 films. -
Ophelia.

9737E. Monday, 17 June / 2000 - 2300 / 10-F /
Shoemaker-Levy Observatory / Ophelia /
Carolyn / 8 films. Spicer, Area 377.

9738E. Tuesday, 18 June. / 2215 - 2245 / clearish /
arrival home to a delicious bowl of
Cray pacho from Wendee.

9739E Thursday, #9 20 June / 2308 - 2300 /
clear - F / Jarnac / Wendee.

*9740S. Saturday, June 22 / 1600 - 1620 /
7-F / Muir Woods National Monument /
The Sun, Moon, and tall trees
all in silhouette. "You are a
child of the Universe, no less than
the trees and stars. And whether or
not it is clear to you, no doubt the Uni-
verse is unfolding as it should."

9741 E. 23 June, Sunday / 2200-2230 / 3-F /
Santa Clara, Calif. - Restaurant
Parking Lot, / Lorry, Al Stern, Jean
Mueller, others / Overhead pass of Mir
Space Station with American Astronaut
aboard.

*9742 E. 28 June, Friday / 2100-2200 /
Jardins de Luxembourg, Paris, France /
Wendee / view along Meridian from
Luxembourg Palace to Paris Observatory.

~~9743~~ 9743 E. 3 July, Wednesday / 2200-2330 / 1-F /
Eiffel Tower, Paris, France / small
pay-as-you-look telescope / Presented
Wendee with her engagement pendant
and plaque for her asteroid 6485
Wendee Esther - name is Wendee Esther.
See Journal for engagement story
I asked her ~~to~~ "Will you marry me?"
and she said yes. Then I asked
her to close her eyes and imagine Paris
on Earth; with sunrises & sunsets.
Then I asked her to think of another
smaller, world, also having also
with sunrises and sunsets. "I cannot
offer you the moon and stars," I
concluded, "but I can offer you
your own little world." Finally, large
view of L'Arc de Triomphe, Seine, + Louvre.

- 9744E. July 4/2000-2130/3-F / Paris Observatory / Wendee + S-L9 conference / view from roof.
- 9745E July 14/1900-2000/2-F / Jarnac / Wendee + Virgil / Look at new observatory.
- *9746E. July 17/2100-2300/10-F / Jarnac / Wendee, Michael / LX200, views of M51, M57, M31, M17, M20, Jupiter, Uranus, Neptune. Beautiful telescope.
- *9747E July 18/2300-0030/10-F / Jarnac / Wendee, Jean Mueller / LX-200, views of M57, M31, Jupiter, Saturn, Uranus, Neptune.
- 9748E. July 22. Intermittent examination of LX200 prior to installing weights + Minerva attachment.
- 9749E. July 23. 1900-1930/3-F / Jarnac / LX200 - Minerva / Virgil / alignment.
- *9750M. July 24, Wednesday / 0345-0430 / 3-F / Jarnac / Minerva / LX / - Chauncey / CN3 20 minutes E. First session observing with a constant, accurate readout of telescope position.

9751E. July 25, ~~Wednesday~~ Thursday /
2300-2330 EST / Cincinnati, Ohio /
ride into town from airport.

9752E 26 July, Friday / 2115-2200 / 3-F /
Downtown Cincinnati / walk. Moon +
Jupiter.

*9753E. 27 July, Saturday / 2045-2354
3-6 Pm / University of Cincinnati Observat-
ory. I.

Nature Company
Star Party.



Ormsby Mitchell 11 $\frac{1}{4}$ " F/15 refractor.
32mm Erfle.

This telescope is 151 years old.
Beautiful optics, refocused circa 1870
by Alvan Clark. This was the first
professional observatory in the United
States. Moved to this site, other bldg.
in 1870; moved to current site in 1904.

9754 S. Sunday, ~~30~~ 28 July / 1430-1515 / 3-F /
JNHAC site, Denver, Colorado / CNII - 5 Km.
They are building homes now on the site.

9755 E. Monday, 29 July / 2300-2345 /
7-Fm / beautiful moon. Sitting
outside with Wendee, on our back
porch with Chauncey, Odie, + Humphrey.

9756 E. Tuesday, 30 July / 2300-2330 /
7-Fm / beautiful Full Moon. / Wendee,
Chauncey, Odie, and Humphrey.
This turned out to be the last session
that included Humphrey.

**9757 E Sunday, 4 Aug / 1900-2115 / 3-F / Jarnac /
Miranda / Wendee, Chauncey, Odie. / CN3 30m W,
This session is dedicated to the memory of
Humphrey.

Observing from dusk was amazing. As the sky
darkened it seemed that the nite lites of heaven
all came on. I'm sure Humphrey was there making sure
we had lots of nite lights!

9758 E. Monday, 5 August / 1945-2200 / 10-3-F /
Jarnac / Miranda / Wendee, Odie, Chauncey
• CN3 1 hour west, southwest.