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JARNAC
OBSERVATORY

LOG 12

begins

Friday, February

27/28

1981

ends

Sunday, February 28/29

1982

CN3-1965

CN3a-finder

CN3b-1973

CN3c-1977 catalog

CN3d- *5404 AN

9/11/81. 16" for
Comet hunting.

Friday, 27/28, 4663.

5145E. 1900-1915/2-F/Flandrau P. /
16" / Stuart C. / general.

Saturday, 28/29, 4664.

5146S. 1230-1730/3, 2-F/FP116/-/
Sun and Spectrograph despite
threatening conditions.

5147M2/0100-0400/2, 3-10-F/
JM-3, 4/ Mira 3, Pegasus/John
Bartels, Jim Scotti/
Comet Panther
many Ms + NG-Cs.

John Bartels

Sunday, 1/2 March, 4665.
5148S. 1215-1800/3-F/FP116/-/Sun
and Spectrograph.

Monday, 2/3 March, 4666.

Rain,

Tuesday, 3/4, 4667.

Wednesday, 4/5, 4668.

5149 E. 2100-2130 / 2-3-F / 5M4+
Penumbra / general.

Judy Stowell

I observed clouds that came
+ went and came + went. I saw
first, second + third magnitude
stars through breaks in the clouds.
The weather this week has been
lousy. I hope we get some good
observing weather soon.

John Bartels
Sacramento Valley
Astronomical Society
(SVAS)

*5150 E M2 | 2330-0300 / 3-10-3-F / JM41

Regulus, ~~Fa~~ Minnowbrook,
80mm f/11 general.

Comet Panther seen clearly
through Minnowbrook.

08 81

Thursday, 5/6, 4669.
5151 SP 1215-1220 / 3-F / JMF / Voyager /
Mike M. Sun.

5152 S2 1400-1415 / 3-F / Catalina:
Coronado school / ~50 children / Vger /
Sun.

Rain at night.

Friday, 6/7, 4670.

5153 E. 1920-2045 int / 3-F /
Flandrau P / 16" / St.C. / M45.

Saturday, 7/8, 4671.

Paul Thayer
enjoyed long sunset thru
the solar telescope.

5154 S / 1030-1100 / 3-F / JMB / Penumbra /
John B. Paul Thayer (Denver) /
Derald / Sun crowded with spots.

515552. 1230-1740/2-3-F/FP/16"
+ Spect./Sun. Heliohabit motor off.

5156E3. 1900-1930/FP/16"/Jim Scotti,
others/ Moon at thin crescent.

5157 EM4. 2000-0130/5-F/
Echo Valley Obs./ Duane's 16",
Apollo, others/ & VSO-F,

Comet Panther near pole

4671	800	845	850	852	859	900	908	910	920	930	940	944
✓NU	72	72	71	72	72	71	72	71	72	72	71	71
✓V372	83	84	83	81	83	81	80	82	80	82	82	82
✓V1361	96	95	96	96	96	95	96	96	96	96	96	96
✓LP	96	96	96	96	96	96	96	96	96	96	96	96
✓V10	97	97	97	97	97	97	97	97	97	97	97	97
✓MX	102	101	102	102	103	103	102	102	102	102	102	102
✓NW	97	101	97	99	98	98	98	98	98	98	98	98
✓KS	104	104	103	104	104	104	104	104	104	104	103	103
✓T	104	104	104	103	103	103	103	103	103	103	103	103
✓R	90	90	90	90	89	90	89	89	89	89	89	89

5158M5 ~0200-0230/5-F/3MA-1-1
Installation of Sundial near
Station 2 and LCPO.

Sunday, 8/9, 4672.

5159S. 1100-1120/10-F/JMB/-/John/
Sundial. Error somewhere?

5160 S2. 1235-1745/10-F/FP/
16" + sp/others/Sun.

5161E3. 1900-2130/FP/16"/Stuart
C. + others/ moon, M45.

Monday, 9/19
4673.

.701	.908	.775
→950	1000	1010
72	71	72
83	82	82
96	96	96
96	96	97
98	98	97
101	102	102
100	101	101
103	104	103
102	103	104
90	90	89

5162S. 1300-1700
int./inst. + main-
tenace of both
Sundials. Moon
visible as cresc.

5163E2. 1840-1910/
3-F/JM 2,4.
Penumbra, Regulus/
Moon.

11 Over

Monday, March 9/10, 4673

624	631	638	645	652	659	680	687
800	810	820	830	840	850	860	870
✓NU	71	72	72	72	72	71	72
✓V312	82	82	82	81	81	82	82
✓V361	94	94	94	94	95	94	95
✓LP	96	96	96	96	96	96	97
✓V10	97	97	97	98	98	97	98
✓MX	102	102	102	102	102	102	102
✓NV	102	100	98	98	98	99	99
✓KS	103	103	103	104	103	103	103
✓T	104	104	104	104	104	104	104
✓2	89	89	89	90	90	90	89
✓HU	118	117	118	118	119	118	118
✓V4	123	123	122	121	121	122	121
✓AN	119	119	120	119	119	119	118
✓MR	119	119	119	119	119	119	119
✓NP	124	125	123	124	124	124	123
✓AH	129	130	130	130	130	130	130
✓AI	r-	-133	-	134	133		
✓V360	128	129	128	128	129	128	128
✓NQ	124	125	124	124	124	125	125
✓6	108	109	108	108	108	108	108
✓V351	88	88	88	89	89	89	89

674	701
940	950
72	72
82	82
94	95
96	96
97	97
102	102
99	98
103	104
104	103
89	89
118	118
122	121
119	119
119	119
124	123
130	131
128	128
124	125
108	108
88	90

5164E3 1945-2345/
 5-10-3-f / JM2, 4/
 Spica Regasus, Saturn
 John - VSO-I.

203 var = 313

5165M4 / 0100-0130-13-f/
 Davison Ranch/
 3" r / John B /

Polaris, & UMa, +
 Comet Panther in
 Same field.

* 5166M5. 0200-0250/
 3-f / JM4, B / Regasus,
 Minnowbrook / John.

Comet Panther stays in
 Field of Minnowbrook, as
 mounted on Rosse Mount.

Tuesday, 10/11, 4674.

5167E. 1900-1930/FP/16"/Jim Scott's,
others / Planetarium, inside
and telescope.

* 5168M2 D130-0600/SM-4, B1 Minnowbrook
Pegasus, 2 Sundials. This was
a morning spent studying the celestial pole.
With Pegasus, I was photographing
the area around the pole, including
comet Panther. Because the
entire focusing Ka-apparatus had
been removed, I used Minnowbrook
all night to follow visually the
progress of the comet and to know
where to centre Pegasus.

As well, I set up and
aligned on the pole two
Sundials, one near LCPO and
the other near station 2.

CN3: ON20mE.

119mm=

Wednesday, 11/12, 4675.

5169E. 2000-2030/2-F/SM/ Jim S,
Mike M / -/ general.

5170M. 0100-0430/3-10-3-F/SM4/
* 5170M-Mike, Jim / Pegasus
Minnowbrook
Mira 3

Minnowbrook sighted a //
Session long on comet Panther.
Panther now slightly closer to
pole than Polaris. Photos
with Pegasus.

Thursday, 12/13, 4676.

5171E. 2100-2300/3-F/SM2/

	694	701	708	715	722	729
Spica	400	410	420	430	440	450
NU Ori	72	71	72	72	72	72
V372	81	82	81	82	81	82
V361	94	94	95	95	94	94
LP	96	95	97	96	96	96
VU	97	98	97	97	97	97
MX	102	102	102	102	101	102
NV	101	101	103	100	101	100
KS	103	103	103	103	103	102
VT	100	101	101	102	102	103
J2	89	88	88	89	88	89
J6	108	108	108	109	110	111
V351	89	89	88	90	88	89

FRIDAY, 13/14, 4677.

5172E. 1900-1955 int/8-3-2-1-F/
FP/16/Jim/Moon.

* 5173M2. 0300-0415/3-7-F/
FP/16"/Jim.

Observation of Herschel's
Planet exactly 200 years
after his discovery.
Also: Neptune, M13, 57, 92.

5174M3.

0500-0530/7-11-F/
JM4 + Minnowbrook, Pegasus /
-

Ranther, through Minnowbrook.
Uranus, with Pegasus.

CN3 with Pegasus
Oh 20m -

*

SATURDAY, 14/15, 4678.

5175S. 1230-1730 int/9-F/FP/16/-/
Sun + Spec.

5176E.

SUNDAY, 15/16, 4679.

5177S. 1230-1730 int/9-F/FP/16+
spec/ Sun.

MONDAY, 16/17, 4680.

5178E 2100~ ~ 2300 int/ JMB.

TUESDAY, 17/18, 4681.

5179E. 2 1900-2000/8-fm/3-~~16~~ FP/
16/ general.

5180E2. 2115-2330/8-fm/FP/
TAA/FP Party in honor of
Herschel.

Apollo and others.

Wednesday 18/19,
4682.

5181E. 2100-2130 int/8-fm / Derold + Denise,
Steve Smith.

5181EM2. @ 2350-0150/8-fm/
walk.

Thursday, 19/20

clouds
Friday, 20/21

5182M. ~0000-0015 int/ Moon, Jupiter,
Saturn very close, passing clouds.

5183MP2 ~0100-0105 / same but
at 3MF.

Saturday 21/22, 4685.
5184E. ~2200-2300/3MB/
Rik, Steve S.

Stephen Smith Cleveland Ohio

5185E2. ~2330 - ~0000-
Derold's house / Mira 2.

Sunday, 22/23, 4686.

5186S. 1230-1730 } both

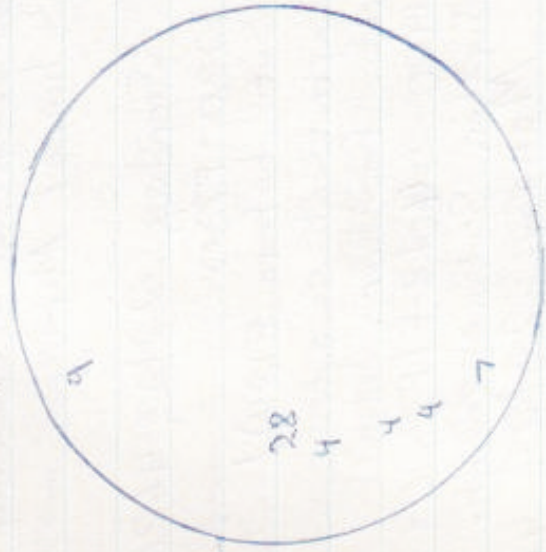
5187S. (Sat., before 5184) / } successful/
intermittent sessions with 16+
Spect. for sun.

5188E. 1900-2100/8-f/FP-16 + Apo 16/
others / Jupiter, Saturn, moon.
Monday, 23/24, 4687.

5189E. to 2045-2200/10-F/3MB/
Leo / Pegasus / M42, etc.

Tuesday, 24/25, 4688

51905. 1400-1500 / 8-F / 3MB /
Rumbra / Leo / SS2.



5191E2 / 1900-1940 / 8-F / FP16 / others /
Rigel.

*5192 M3 / ~0130 ~0200 / 9-F / 3MB-F /
Leo / moon. RCB.

First light for Regulus.

03 81

Wednesday, 25/26, 4689.

5193E. 1800-0030 / 10-7-F /
J/M, 3, 4 / Spica, Saturn,
Pegasus / Leo, Derald.
Ms + NGCs.

CN3 0h 30m

It was a pleasant observing session - Leo tonight.

Thursday, 26/27, 4690.

5194 EM. ~2300 ~0100 / 10-F / 3MB /
Pegasus, Cassiopeia, Rigel / Leo /

~~CN3~~ CN3 0h 15m E. -

Friday, 27/28, 4691.

*5195M 0100-0330 / Houghton Rd.
~100m south of Down rd / - /
Judy + Roy, others / 3-unf /
general look at stars, first 15 mins.
alone, after severe auto accident.

Saturday, 28/29, 4692.

5196M. ~0100 - ~0115 / 3-F / 3M8 /
Mike.

Sunday, 29/30, 4693.

~~5197~~

Monday 30/31, 4694.

5197M. ~0030 - 0145 ~ 3M4 Regulus

CN3 01^h 00^m E. -

Tuesday, 31/32, 4695

5198M. 0130 to 0230.

3M4 Regulus + Cassiopeia
Mike.

CN3 0^h 20^m E. -

April.

Wednesday 1/2, 4696.

5199E. @ 2000-2300 int. w 5 day

CN3 0^h 10^m E. -

Thursday, 2/3, 4697.

5200MP 0130 - ~0135 /
Mike / 2-F.

Friday, 3/4, 4698.

5201M. 0100 to 0330 / 10-F /
3M-4 / Regulus / - /

CN3 0^h 40^m E. -

Friday 10/11.

to

Sunday 19/20

various unrecorded books.

Monday, 21/22.

Tuesday 22/23.

Wed, 23/24.

5211 E. 1930-1955 / FP /

AAVSO / H.

We
5

Wednesday, 23/24.

Thurs.

5212 E. 1930-1955 / FA / 16" / AAVSO

FRIDAY, 24/25, 4719.

* 5213 E.M. 1900 to 0230 / 10-f /
JMB / many inst / see next pages /
AAVSO 70th Spring meeting.

AAVSO meeting

April 24 1981

4719

- Jim Mayan Prescott AZ
- Jim Eckendorf Prescott AZ
- Ed + M + Fortune, Melrose, N.Y.
- U. Ahmann Jr Jackson, MS
- Benny Roberts Jackson, Miss
- Ben Hudgens Clinton, Miss
- John E. Yeates, J.A. Jackson, Miss
- John B. Winters, Glendale, Oregon
- Cathy Wright USA Tucson
- Pat McDonald Mt View, Ca
- Mike Martin Lubbock, Tex
- Jane Meggison St. Charles, Missouri
- Elaine Hazel Youngstown, New York
- Chin Polziani A.A.A., New York
- ANTONIO SANCHEZ NOGALES, SONORA, MEXICO
- MIGUEL NORZAGARAY U. + FLORESCO, SONORA, MEXICO
- Yvonne King Hampton N.Y.
- Winston Wilkerson New York N.Y.
- Ed Harbach Ester Park, Co.
- Bill + Bob Adams Northampton, Mass
- Bob Schmidt Richfield, N.H.

- Tom Van Acker Albany, N.Y.
- R. W. Winkler Lexington, Texas
- Chris Spurr VICTORIA B.C.
- Tom Williams HOUSTON, TEXAS
- Art Stokes Hudson, Ohio
- Kirk Duvach Amherst, NH.
- Ed + Betty Dooms Florence, MA.
- John M. Coover Bloomington, Minnesota
- Ray + Paul Quack YOUNTVILLE CALIF
- Bill Winkler 31 Valentine Ca. (cont from p 8050)
- Harold Lambis Virginia USA
- Morris RippeL 137 FERRIS, N.E. ARLINGTON, VA. N.H. 87110
- John + Irene Stamford, Ohio CT
- Joel Adams "Emerald Heights", Calif
- Amiel Cunningham Kaysville, Utah
- William D. Dushoff, Jr. Milledgeville, GA.
- D. NYE A LONG WALK OVER HERE !!
- Mark + Linda Mues Cuba, Alabama
- Stanley H. Hoyle Wbridge, Massachusetts
- David F. Knowlton RIDGECREST, CT.
- Steve + Betty Hubbard Westboro, Ma
- James Burtel Tucson, Ariz
- Rev. J. Eglin Belmont, Mass.
- Kenneth Wilson Pacifica, Ca
- Gene Maunana Tucson

April 26

Mike Ashwin Tucson, AZ

Pamela & Ronald Hardie

TUCSON

Steve & Kathy Suck N. Kingstown R.I.

Neil & Alice Westside press

James Melwan Springfield VA 22151

Mike Magee Duane!

Bob Loun Tucson

Thran - Bob loved it!

Especially Duane's reporter.

Bob Crowder Tucson

Scott Henning Tucson

~66 people.

Judy Stovell - A terrific evening!

Barbara K. Walker

Harvard - Smithsonian - Centa for

Astrophysics

Cambridge MA, 02138

Thank you for the special time

and for all the great planning

for this memorable Jacoby

Zymerway AAAS meeting.

*52145. 1200-1220/7-f/3MB/

-Penumbral B. Wether / Sun.

*5452E2. 1730-2100/3-4-f/

61" telescope on Mt. Lemmon,

Plus others at Mt. Lemmon obs.

Cliff Cunningham, Muriel, others /

Jupiter with 6^{1/2} inch.

April 29
'68

750

4724.618

'NU 70

V361 95

V5

LP 96

*5215 E. 1940-2200/3-F/
 JM2 + walk/ VSO-I.
 Final Orion view for
 1980-81 season.

MAY.

1/2.

5216 M. 0230-0300/3-F/JMB/
 Al Dyer + Friends from Edmonton/
 2/3

5217 ES. 0 1230-1700/3-F/
 FP16" + spectro/ Sun.

5218 S2. (before 5217) 122
 1030-1130/ Edm. group/
 Sun + demonst. of telescope
 collection.

3/4; Sunday.

5219 S. 1230-1730/ FP16/ Sun+Sp.

5219 E2. 18 1900-2100/ FP16.
 5230

4/5, Monday

5220 MEM. 2130-0300/10-F/
JMB/ 7" Puestar, 8" Celestron,
8" f/6.
Edmonton, Alta.

4/5 Monday

May
2130-0130 hr.

8" f/6 telescope

observed everything from
Uranus, Neptune to
planetary nebulas 6369.
Darrell Cross Edmonton, Alta.

Celestron 8 Telescope

observed RZ Cent, 5138 & mac
other southern wanders. Took
B 20^m-30^m exposures w/180mm lens
piggbacked on CS of Scorpina/Rho
Ophi. area; M6 & M5 area; M8, M20
area.

The most perfect & comfortable
astro-photo session in my long
and undistinguished career.

— Alan Dyer

05 81

Monday
4/5 Tuesday, 4730

5221 M. 0000-0230 in 10-F/3MB/
Pegasus

Omega Cent, the southern part of Scorpina
with all their clusters. The glows stars
clouds of Sagittarius and so much more.
Never has springtime observing been
such a rewarding experience.

Dave Belton & Quentin
5/7/81

@

5/6 Tuesday, 4730
5222 M2. 0230-0430/10F/3M4/
Peg, C8

observed a couple of γ nebulae
in CrA, and an attempted
observation of 6822, but not definitely
seen. Watched the rapid onset
of morning twilight.

— Alan Dyer

CN3 0125^m -
5231 S - Tues / KPNO

Razdow + Vis. Center

May 6/7, 4731.

Took 2 photos w/ 180 mm F/2.8 lens piggybacked on C8 - 30" exposure, one of M16 - M17 area, one of Southern Star cloud.

- Alan Dyke
The drawing and astute photography here was great. I don't want to go back to Edmonton!

5223M. 0330-0430/2 10-F/
JMB/ Pegasus C8/

CN3 0h35mE.-

Thursday, 7/8 4732.

5224MP ~ 0100 ~ 0110 (JMB) general

5225 SP before 223, Wed.
1730-1740 / FP 16 / Sun.

Friday, 8/9, 4733

5226E. FP 16", 2130-2145.

5227S. 1230 to 1730 / FP-16,
SP, 6" Apollo, Sun. TAAA
May 9/10, 4734.

Allen Ross

5228 EM. 1900-0310/10-F/
JMB. Tucson Public Library,
4 lectures, plus viewing.

DON KIRK

MaryAnn Antikovich
Dennis C. Wilson

Pat Anderson

John - Anderson

Rigby + Barbara Hoelle

Theresa Berg

Lisa Fisk

Frederick + Frances Welke

Gene + Buzz Benton - Green Valley

Barbara Brien

Charl, Bill + Jim Mequard

Valerina Quintana + da

muchas gracias por tu hospitalidad.

Nick Bahn - Tracking Century 21

Anne Reed

Harvey Danwacker

Chris Johnson

James V. Sytte

Judy Stovell

Sunday, 10/11, 4735.

5229S. 1230-1730 / FP 16,

Sp., Sun

30-see after 5219

31-see after 5222

5230E2. 1920-2200/

Small sessions during week.

Friday, 15/16.

5233 E. 2000-2200 int / FP 16 Sun.

Sat, 16/17

5234S. ~~at~~ 1230-1730 int / FP 16 + Sp/Sun.

Saturday, May 16/17.

Agnesa Lapping

Paul Barrow

VIC Middle East Obs, mt. LEMMON.

Spine Survey

Lucho Jones

How many cases...

Lucho Jones?

John Denver's untalented look-alike!

Denise to D

JD Looky/k #2 Paul

Michael Victor Magee (AA)

52335EM. 1900-0300/

7-fm. See above. General.

Sunday, 17/18

5236S. 1230-1730 int / FP 16 + Sp,

Sp malfunctions.

5237E. ~~at~~ 192000-2200 int / FP 16.

Monday, 18/19.

5238E. 1900-2300 / SMB / Fentes Halls.

. Moon, Plamets (3, 7) M3.

5239M2 0100 ~ ~ 0115 / SM4 / Pegasus Moon.

8 Tuesday, 19/20.

5240EM / ~ 02350 ~ ~ 0015 / SMB.

Wed, 20/21.

5241M. 0000 ~ ~ 0025 / SM4. general

Thursday, 21/22.

5242E. 2300-2320 / G-F / Motel 6 Blythe, California / Virgo, Maria / Mike / Aa Jupiter, Saturn / Moon.

Friday, 22/23.

* 5243E. 1930-2200 / 10-F / Riverside / several inst / Bart Bok, Mike Magee, many others / Jupiter Saturn M81, 82, etc.

Saturday, 23/24. 5244S. 1500-1515 / 3-F / Riverside / - Children, + Mary Ann Reese / Virgo / Sun.

5245EM. 2200-~~2215~~ 0130 / Riverside / 8 10-F / several inst / others / M81, 82, etc.

Sunday, 24/25.

5246MS. 1450-1515 / 3-F / Riverside / Children, + M.A.R. / Sun.

5247E2. 2330-2345 / 4-3-F / R'side / - / general.

Monday, 25/26.

5248E. 2200-2215 / I-8 / general view.

5249MP 0030-0040 ~ / SMF / general.

Tuesday, 26/27.

5250 ~~E~~ ~~E~~ ~~E~~ MP 0045-0055 / SMF.

Wednesday, 27/28.

5251M. ~ 0030 ~ 0100 / SMB / general.

Thursday, 28/29.

* 5252LM. 0000-0030 / SM4. SS Cyg # 12.1 ✓

JUNE.

Several Sessions
not recorded.5253 S. Saturday, ~~June~~ May
30/31 FP 16.

5254 E. Friday, June 25 Gilbert Ray.

5255 M } Three mornings.

5256 M } CN3 10m -

5257 M } 10m -

5258 } ~~Wed~~ Tues 9/10 10m -5258 M. Friday - Thursday, ~~Wed~~ Thurs
June 7/8 - ~~10/11/12~~ 0300-0400
CN3 On 40m -5259 M. Fri 12/13
0300-0400
On 45m
+ 05m
CN3 On 50m

Saturday, 13/14 06 81

5260 S. 1230-1730 int/3-F/FP/
16" / Sun.

5261 AN.

*5261

1940-0430 17-Fm/3M

Larry Dan Hall of Tucson Arizona

Derald Nye Coronda Tucson

Bruce Nichols - Echo Valley Obs, Tucson.

Mike Mason - PDB Obs. Tucson

James V. Little - Steward Observatory
Tucson Arizona.

First Light Test For Jupiter

16-inch

First object: B Cyp
then F delM13
M15

CN3 On 15m E. - w/legasus.

Sunday, 14/15.

5262E. 2130-2300/7-fm/
FP-16 / Stewart Cramer, Peter/
Aion, Jupiter, Saturn, Uranus, B Cyg.

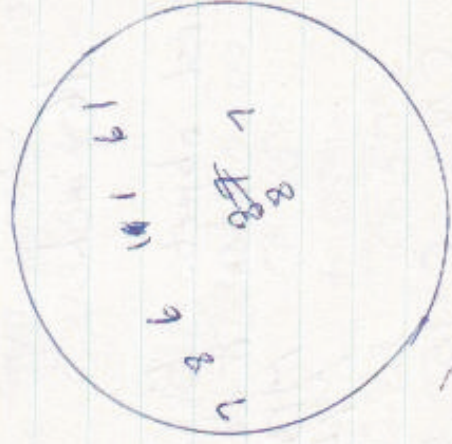
Mon, 15/16.

5263S. 0900-1000 int / JMB/
closing.

5 Tuesday, 16/17.

5264E. 2200-2300 int / Chez Cliff
Holmes / general.
Wed. 17/18.

5265S. 1000-1010 / Cliff, Peter/
Mira - III / SS2.



Thursday, 18/19.

5266E. 2315-2345/7-f/
Glen Oaks Motel, Big Sur/
Mira 3 / Peter / Scorpii, γ, δ, ϵ .



Friday, 19/20.

5267S. ~1000 ~1015/8-f/Glen
Oaks Motel / Mira 31- / SS2.

5268E. 2330-0000 / 8-f /
Tamalpais Motel / Jupiter, Saturn

R G B b.D

5269S2. (66.5268) ~~143000~~ 1400.

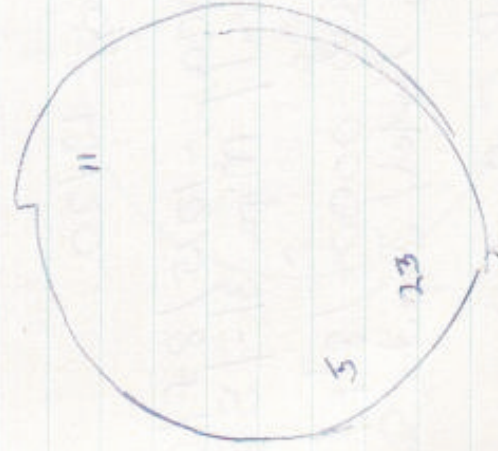
14451 Lick Observatory (10f)
CN-I, Sun Vn. View of 36" fl,
120" fl.

Saturday, 20/21.

5270EP. 1945-2150 ~ 7-f/
Corte Madera - Peter (who
said "David, it's so pretty!") /
Moonrise!

Sunday, 21/22

5271S. 1930-1945 / Crescent Beach,
Calif / Mira 3 / Peter / SS2.



06 81

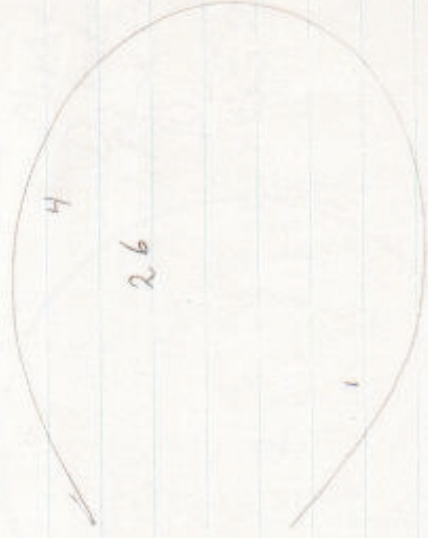
5272EM Int. 2200-0100/
Oregon / Peter /
drawing
General.

Monday, 22/23

cloudy.

Tuesday 23/24

5273S. 1930-1945 / 7-f / Fair Oaks,
Victoria / John Stackhouse, ^{Etna}Wootton,
Peter, / SS2.



00 81

5274AM, 2300-0000 /



5275S.

June 24.

07 81

July

5276S. Wed, July 1.

1940-1955/7-f/SMB/-Mira 3)
By big CPR Lethbridge Bridge,
1909/



5277S.

July 2 / 1800 - 2140-2155/8-f/

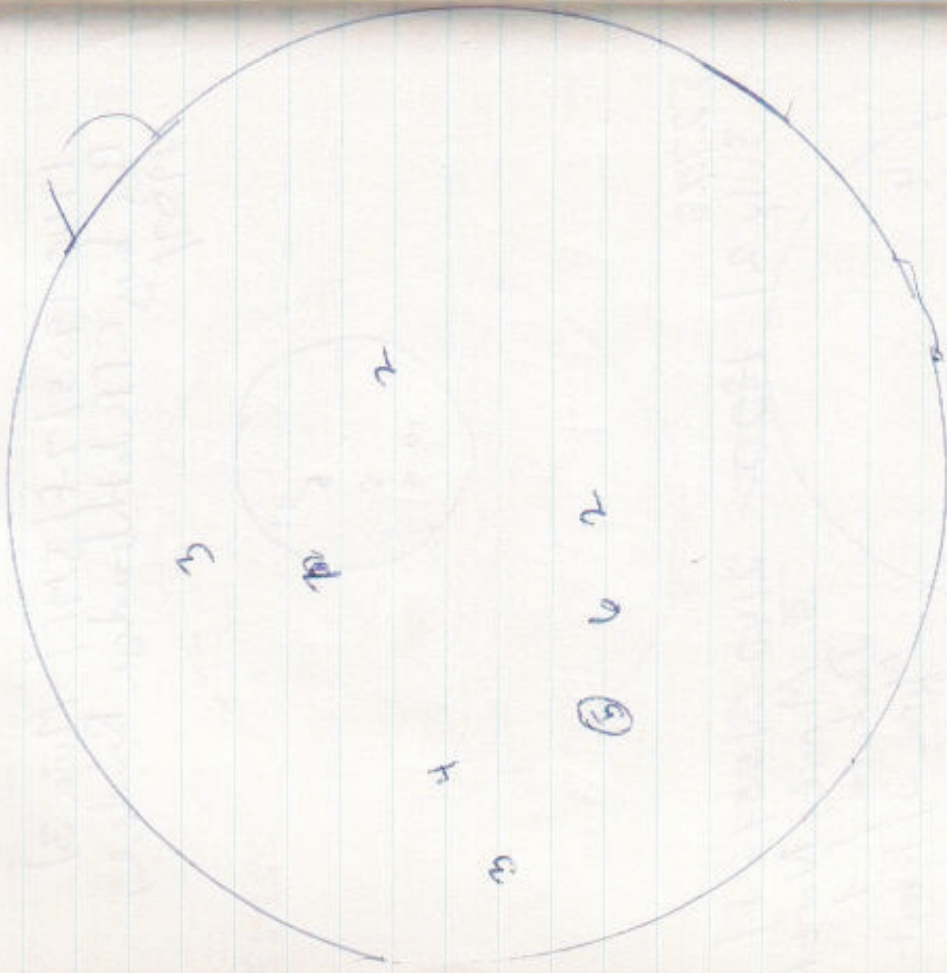
I Minot, North
Dakota / -A
Mira 3 / Retent
Learner /
SS2.



5278M

0050-0105/8-f 7-f / I Minot / Maia /
- / R.G.B. 6.1 -

July 3
52795. Sun. Mira 3

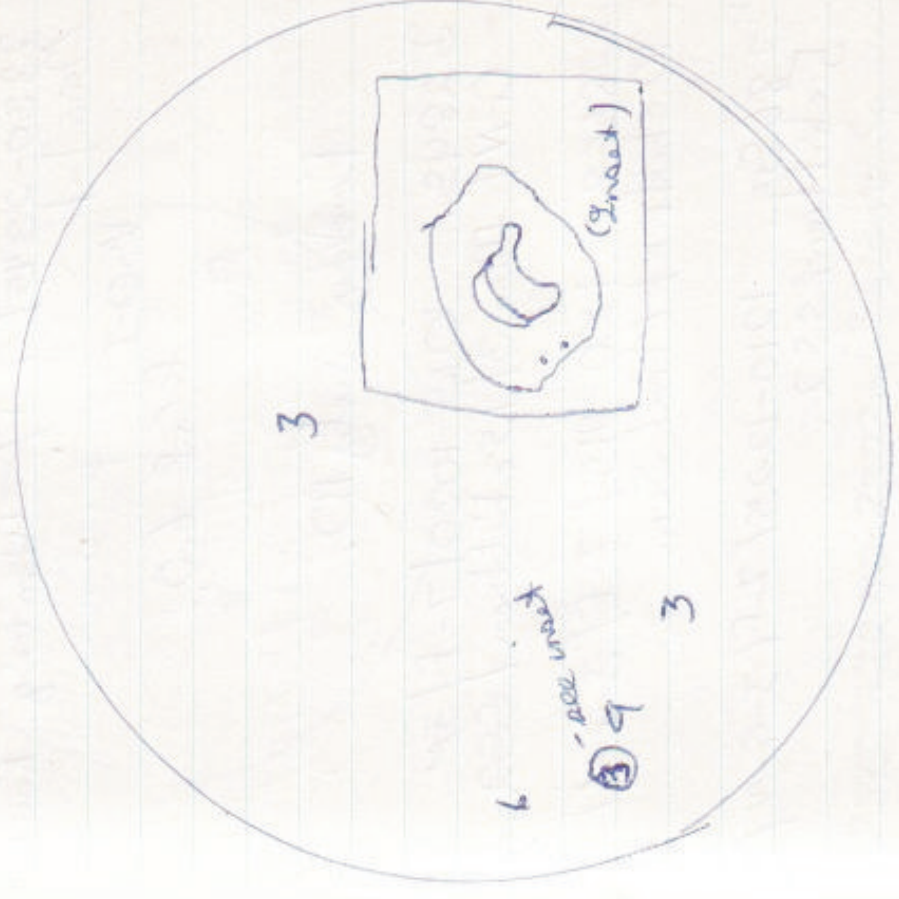


5280E2. (Minnesota) 2140-2200/
7-f / - Mira 3 / Peter + Dianne / Photos
by Peter of Geo. Moon, Venus.

5281EB 2345-2355 / near Duluth /
general.

July 4.

5282ES.
1345-1400 Sun Mira 3.



6
- see insert
③ 9 3

5283 E

Thursday,
July 8/9/10.

2330-2345 / 7-f / - Wsm t. Sg. Roof /
Maia / - /

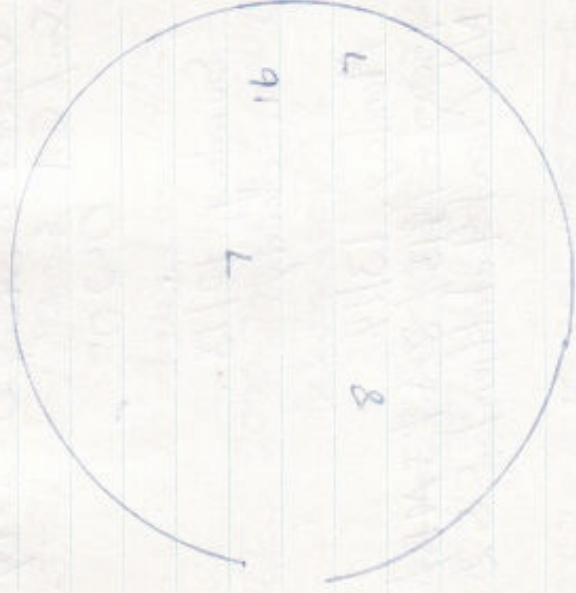
USO-I:
R.G.B 6.0.

Friday July 10.

5284 S. 1015-1030 / 7-f / JA
J- GN / Mira 3 / 15 children / S52, Sun.

5285 S2. 1100-1115 / 7-f / J-G-N /
10 children / Minal Sun.

5286 S3. 1210-1225 / 7-f / J-G-N / →
5 children / S52.



5287 E. ~2240-2300 ~ / 3 Wsm t Sg. vcr /
- / - / A genera).

Saturday, 11/12.
5288AM. 0230-0310 / J-J-D / 7-3F
Little Joe / CN 3
0:20

Sunday, 12/13.
cloudy.

Monday, 13/14.
5289 S. 1500-1515 / 8-F / ~~3MB~~
J-G-N / Mira / 4 children / SS2.



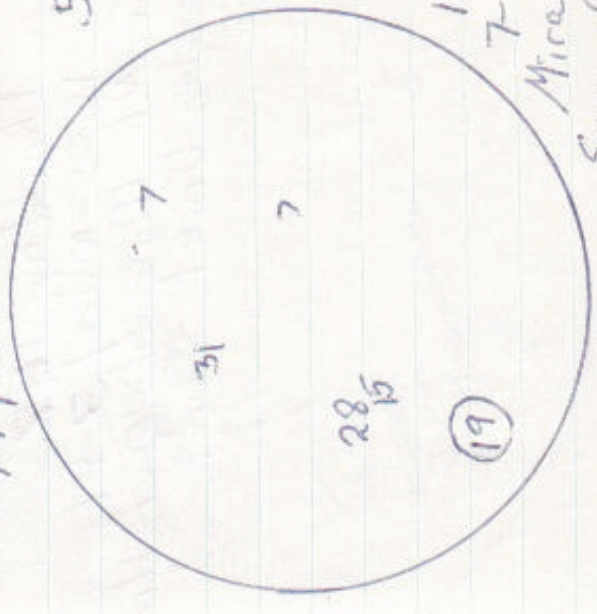
5290E2 2000-2015 / J-218-tuen / 4
3-F / - / - / Moon.

Tuesday, 14/15
cloudy

5296E. 2000-2015 / RAS / 14" Celestron.
Wednesday, 15/16

5291S 0950-1020 / J-G-N / L3, M /
3-4 / ~ 10 boys / photos.

5292S2. 1030-1115 / J-G-N / L3, M /
~ 10 boys / photos.



5293S3.
~ 1240-1254
7-F / J-G-N /
Mira / 1 boy /
Sun.

5294S4.
1330-1350 /
7-F / J-G-N /
Mira / Girls /

5295S5. 1450-1505 / 7-F / J-G-N / Mira / 3 / SS3.

52975.6 1510-1525 / 7-F / J-G-N /
Sun with Mira. also
CN5 Sun ven.

/ other person / to "let the sunshine
in"

*5298E7 2100-2300 / 7-Fm /
J-G-RH / about 50 "Eagle"
children / Moon
Dr. Salem / Murni
Jupiter
Saturn

Little Joe
Session tape
Recorded

Thursday, 14/12.
52995. 1005-1020 / 3-F /
J-G-N / Mira 3/40 children -
Eagles Unit / Sun.

530052. 1415-1440 / 3-F / J-G-N /
~15 kids / Mira / SS2.
Thru record next page.

(# Friday, 17)
53015 1000-1015 / 3-F / J-G-N / Mira / ^{15k}
Sun. ~~CN5~~ Sun Ven



Thurs, 18/17, cont'd.
 *5302EM3 2250-0050/7-3-F/ Summit Park / Mira 3 / Carl / Partial Lunar Eclipse. Observed from before 1st etc to just after maximum eclipse. Although the lookout remained very crowded, we found a good quiet spot in the large field in Summit Park. A fine session.

*5303M4 0100-0115/7-3-F/ former loc. stn. of 8/8 and ven / 24 Carl / finder for Mira 3 / further observations of eclipse, now well past maximum. t
 → now known as Mira 4 - Aug 29/21

5304MP5. 0120-0125/3-fm / parking lot near Wsmt. Sg. / - / Carl / further obs. of Eclipse

5305MP6 0130-0135/3-fm / roof of Wsmt Sg. 1-1-1 / continuing obs. of rapidly waning eclipse.

5306M7 0150-0215/3-fm / Wst. Sg. #115 / - / - / eclipse to # second contact.

Friday, 18/18

(5301S. see 2 pages back)

5307S2 1100-1115/7-f/5-G-N / Mira 3 / ~ 2 children / Sun.

53084S3 1550-1605/2-f/3-G-N / Mira 3 / - / 552. CMS SUN.



Saturday, 18/19

5309E. 2000-2300/87-Fm/
Mira/Mam, Dad, Richard/
Arcturus

Sunday, 19/20/21
cloudy at night.

Monday, 20/21

mostly cloudy
5310S. 1000-1020/3-F/3GN/Sun/kids,
Tuesday, 21/22

cloudy
5312S. 2115-2240/2-F/Green Acres
3-G-R/Little Joe/ ~40 children/
Views of Jupiter, Arcturus,
Mizar, through clouds.

Wednesday, 22/23
5312S. 1000-1030/20 children
4-6 yrs/Beaver Boys + Buffalo
Girls units/Sun.

5313S2 1400-1420/4 children/
3GN/Mira+Sun.



→ huge spot

5314S3 1510-1525/8-F/3GN/
Mira/other/SS2

5315E4. 2200-2245/6-F/RASC/3"
Zeiss/other/B Cyg.

Thurs. Stephen Shelling
Aven Graeman

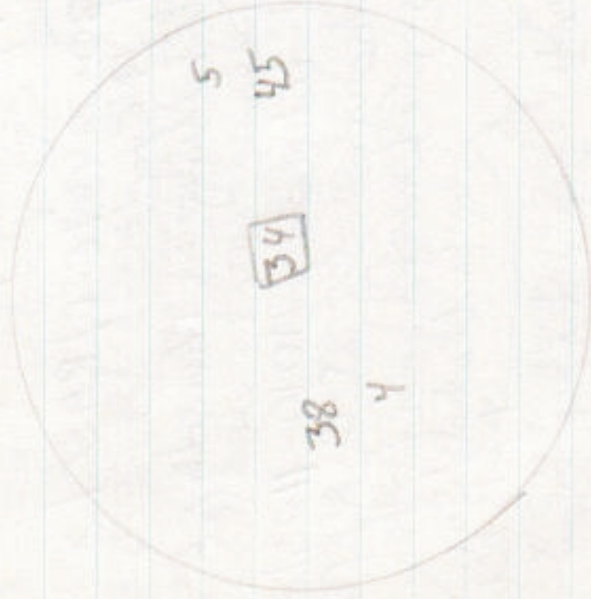
Michael Uddaby } 1010-1125/8F
Karen Sherman } 3-G-N/Mira/
Jeremy, Glenn Farmer/other
Robert } headed/Sun.
for 15 kids more

Sunspots concentrated in 3
huge groups.

531752. 1340-1409 / 8-3-F /
3GN / Mira / ~ 7 boys /
SUN

531853. 1415-1430 / 3-F /
3-G-N / ~ 15 boys girls / M
SUN

531954. 1445-1535 / 3-F /
3GN / Mira / others / SS2.



Central group
sketch.

Problems with drawing because of passing clouds, covering Sun for long periods. Suspect changes were made during that time, near point "A". Smaller spots missed also because of cloud cover.

Drawing finally finished at 1530.

5320EP5 2030-2040 / 7-F /
RASC - 1-1! unsuccessful search
for Ben Q. Too bright still.

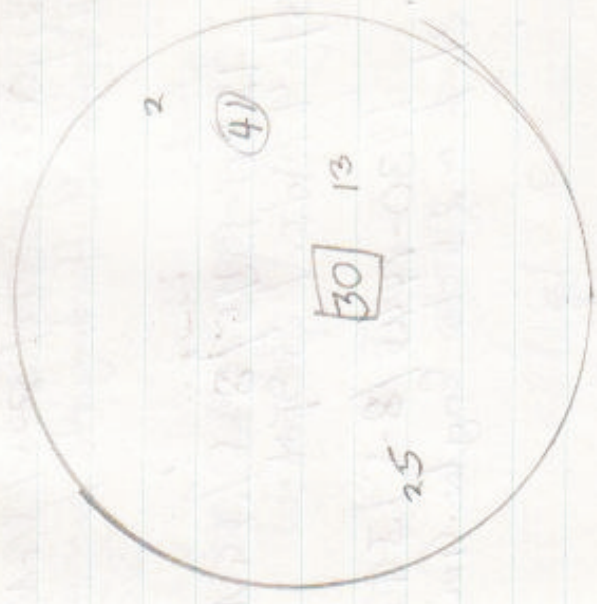
5321EP2 2335-2345/7-f/
Wsmt Sgt - /general.

Friday, Aug. July
27/25.

5322S. 1100-1115/B-f/3GN/
~10 boys, Eagles/Mira/-
Sun.

5323S2 1200-1210/8-f/3GN/
~4 boys/-Mira/Sun.

5324S3 1500-1515/8-f/3GN/
Mira 4 boys - /-SS2.



53254MP 0130-0140/7-f/
Wsmt Sg. Roof/-/general.

5326 M. 0000-0200/1-2-f/
JT-Ox lake/-David Brown/
Vega.

Sunday 26/27
cloudy

Monday, 27/28.

5327S. 1035-1050/8-F/JGN/
Mira III / ~10 Buffalo girls /
Sun.

5328S2. 1220-1245/8-F/JGN/
Mira 3/ 4 kids. / SunSpot.

5329S3. 1430-1445/8-F/JGN/
Mira 3/ ~25 to Eagles Girls /
Sun.



12x51
group of
spirit

148 see 30 from last week

5330S.

1455-1510/8-3-F/JJGGN/
Karen Sherman, Eledy / Mira 3/
SS2.

5331M 0000-0020/7-F/
Went Sq. / - / - / general.

53 Tues
cloudy

Wed
cloudy

Thurs, 30/31.

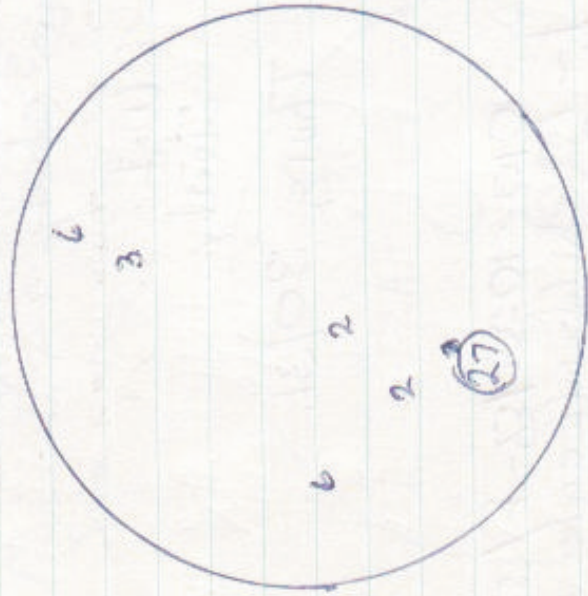
5332

5333S. 1010-1025/8-F/JNG/
Mira / ~10 children (Eagles Boys) /
- / Sun.

5333S2 1035-1115/8-F/JGN/
~10 Eagles Boys different from
above session / Mira 3, Li H6
Soel Sun. Tree viewing.

533453. 1400-1435 / 8-f /
 3A GN / Mira 1 ~ 10 "Eagles" girls /
 - / GA Sun.

533554. 1445-1500 / 8-f / JGN /
 Mira 31-1 SS 2.



533698. ~1630-1640 ~ 18-f / JGN, R /
 - / CN 5 SVen. ^{Swimming Pool}

5337EP6 2050-2100 / 8-f / JGN
 Rt 13 / - / view of Venus, Jupiter,
 Saturn.

* 5338E7. 22 27 2110-2240 /
 9-f / JGN, B / * Little Joe /
 ~ 20 byr. old boys + girls /
 Jupiter - main object.
 Also Saturn, Mizor.

VSO-I:
 2212 SS Cyg 9.4-
 TCB 10.3-
 RCB 6.1-
 KCB 4.7-
 BS Opt 12.1-
 5 var.

Very fine session.

Fri, 31 July.
5339 S 1015-1030 / 7-f / JGN
~15 "Buffalo" boys, age 6 /
- Mira 3 / Sun.

5340 S2. 1040-1055 / 7-f / JGN
~10 "Beaver" boys, age 4 /
Mira 3 / Sun. A star.
+ trees.

5341 S3 1100-1115 / 7-f / JGN /
Mira 3 / 2 boys / Trees.
Later, Sun.

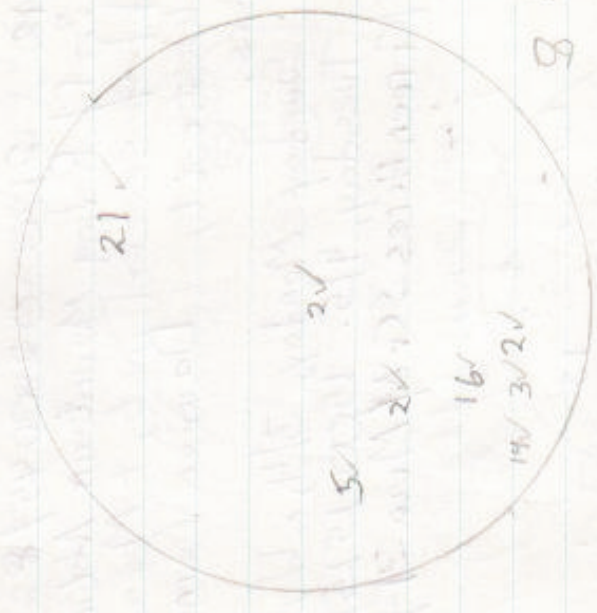
5342 S4. 1125-1140 / 7-f / JGN /
Mira 3 / 4 "Somegirls" / Sun.

5343 S5 1150-1205 / 7-f / JGN /
Mira 3 / "Grad" boys / Sun.

5344 S6 1215-1230 / 8-f / JGN /
Mira 3 + 3 telescopes / 3 boys /
Sun. Also trees.

5345 S7 1515-1535 / 8-3-f /
JGN / Mira 3-f / SSR.
+ 5 food

CN5 S Ven.



*5346 E8. 2100 EDT-2230 CDT.
8-3-f / AC flight between MH +
Winnipeg / - / - 1. Twt essentially
static be all the way. 2. Beautified
Thunderstorm. Many lightening flashes
in high clouds. Arrived at ~ 36,000 ft.
alt. of aircraft. ~ 300 km E of
Winnipeg.
3. Small RA in N, near Winnipeg.
4. 2 dur, circumpolar.

August

Saturday, 1/2. clouds. 2/3, Sun.
53475. 1030-1130+ 8-f/Riding
Mountain Ntl. Park / 8" Celestron
with filter / others / Sun.

5348EM2. 2130-020045/8
10-3-f/ Riding Mountain National
Park / several inst, + Mira
Guy Westcott, Damien Lemay,
others.

Sunday Monday, 3/4, cloudy at night
53495. Tuesday, 4/5. 1500-1515/
7-f/Green Acres JGN/Mira 3/1



Wednesday, 5/6.
5350 S. 1330-1350 1-f/3GN/Mira 3/
others / trees etc.

Thursday, 6/7

5351 S. 1440-1455 / 1-f/3GN/Mira/
Paul Horshon, Bunk 37 / trees.

5352 S2. 1540-1600 / 3-f/3GN/Mira / - /



Friday, 7/8
5353 S. 1130-1145 / 1-f/3GN/Mira 3/
others / trees.

535452. 1430-1445/3-f/JGN/Mira/-/
SS 2.



(drawing copied)

5355E3. 2055-2110/1-f/Rt 87,
near Lewis and ASC/-Mira/-/test.
Saturday, 8/9.

5356S. 2 all day intermittent/0-f/
Stein's house/Mira 3/all 5 Steins +
Friends/ test, playing with
close up capabilities of telescope.

Sunday, 9/10.

5357S. 1350-1410/3-f/Stein's
house, Lake George/Mira 3/
Joyce, Larry, Wendy, Robby,
Ali/Sun.

5358S2. 1450-1510/3-f/Lewis-
Wadhams Rd. at cutoff to
Adirondack Science Camp/
Mira/-/Sun.

Monday, 10/11

5359S. 1000-1015/1-2-f/JGN/
Mira + Paul Hershon/Trees.

5360S2. 1040-1115/JGN/Mira 3/H
Paul Hershon/Trees.

5361S3 1330-1350/3-f/JGN/
Mira 3/~10 Seniors boys/Sun.

5362S4. 1420-1440/3-f/JGN/
Mira 3/~20 Eagles girls/
Sun.

5364EB. 2120-2315 / 5-4-F /
JGM, R, B, etc. / Little Joe /
Constantine plus ~25
children aged 9-13 /

Main object: moon
others: Mizor
Arcturus

not a bad session. Kids
reported, on moon:

Circular ditches.
Lines.
Deer & parts.

on Mizor:
Stars kissing?

(was that a kids boom -
vacation??)

Tuesday, 11/12

536516P. 1510-1520 / 20-F / JGM /
Mira 3 / Paul H. / Grangeone
droplets of water at tips of
pine + spruce needles.

536355. 1500-1515 / 6-F / JGM /
Mira 3/5 - others, incl. Paul /

Paul Hershon

SSQ.

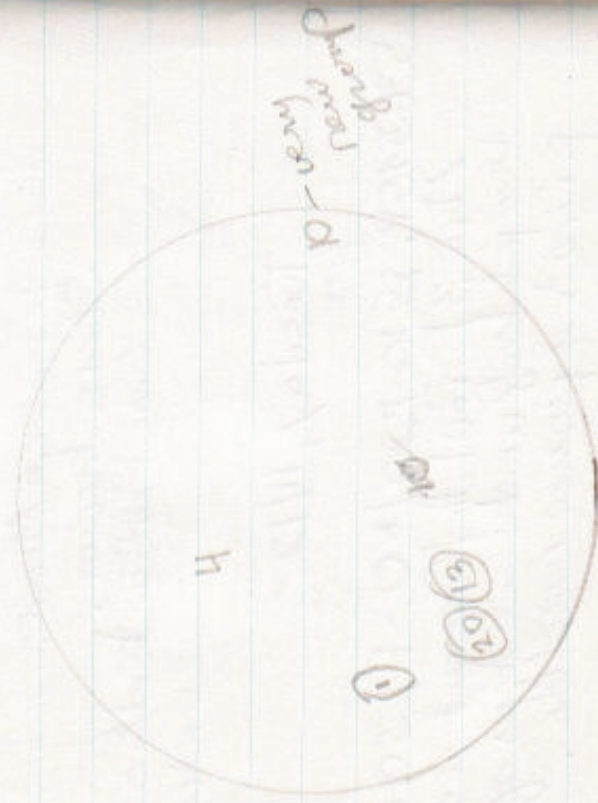


5366E2 ~2340-~2355/
1-2-F/West. Sg. Roof/
-1-moon.

Wednesday, 12/13.
5367S0945-1030/8-F/3GN/
Mira 1-1/Sun, cleaning.

5368S2. 1100-1115/8-F/3GN/
Mira 3-1/Bears 33/Sun.

5369S3 1135-1150/8-F/3GN/
Little Seal - Eagles girls/
Sun.

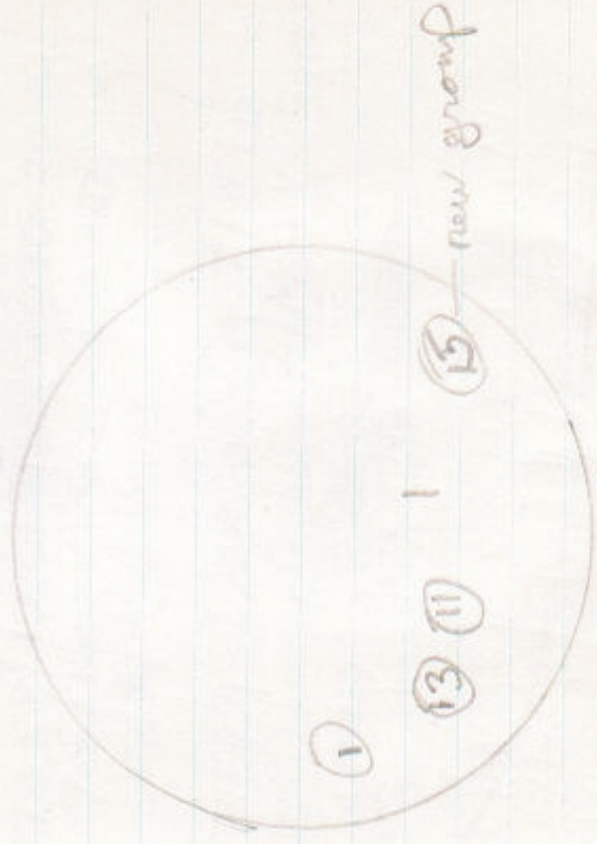


5370S4. 1510-1525/7-F/5GN/
Eddy, Paul/SS2

GN5 SVen.
cloudy at night.

5371S Thurs, 13/14.
1315-1330/7-F/3GN/Mira 3/
Paul, Ronnie o'hand/Sun.
Herishon Mission

5372S2. 1450-1510/3-F/3GN/
Paul/Mira 3/SS2.



Friday, 14/15
NANCY Beard

Bun K. 44.

53765. ~1005-~1020/6-F/SGR/
- / Nancy & others / CN5 S Ven.

Thurs, cont'd.

5373 EP 1020-1030-2030-2040/
7-f / near Miss Williamson's
house / - / - / Venus.

5374 EP 4. 122052210/7-F / Miss
Williamson's house / - / Miss Williamson
general.



*5375 E5 / 2230-2320/6-F/
RASC / - / -

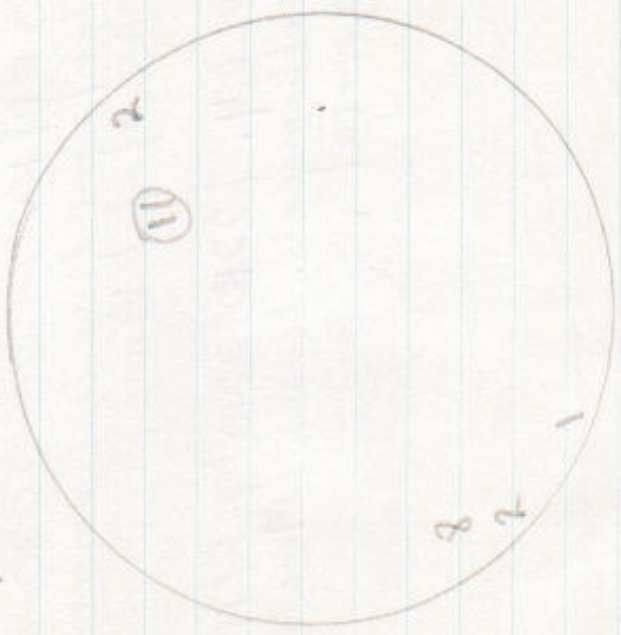
1981 Perseid Watch.

Time	Mag	Sh	Const.
2254	3	P	Draco
2310	0	P	Oph

Fri, 14/15

5376- see overleaf

5377 S2, 1045-1100/8-F/ JGN/
1-1 Mira 3/Sun.



5378 S3 110+125/8-ASMAN/
- Mira 3 / Pav / Sun.

5379 M3-0100-0130-1-F/Oso
observatory / view of 8+14-inch
Celestron instruments.
- pleased to have a guest from Arizona
Levinright.

Saturday
Rain

F

Sunday
rain

Monday, 14-Aug 17/18.

5380 E. 2100-2230/10-9-F/
Long Lake Creative Arts + Work
Camp / Little Soel ~ 15 children/
B Cys, M31, M11, Moon.

5381 EP2 2350-1200/8-9-F/3
Long Lake / - / - general.

Tuesday, 18/19.

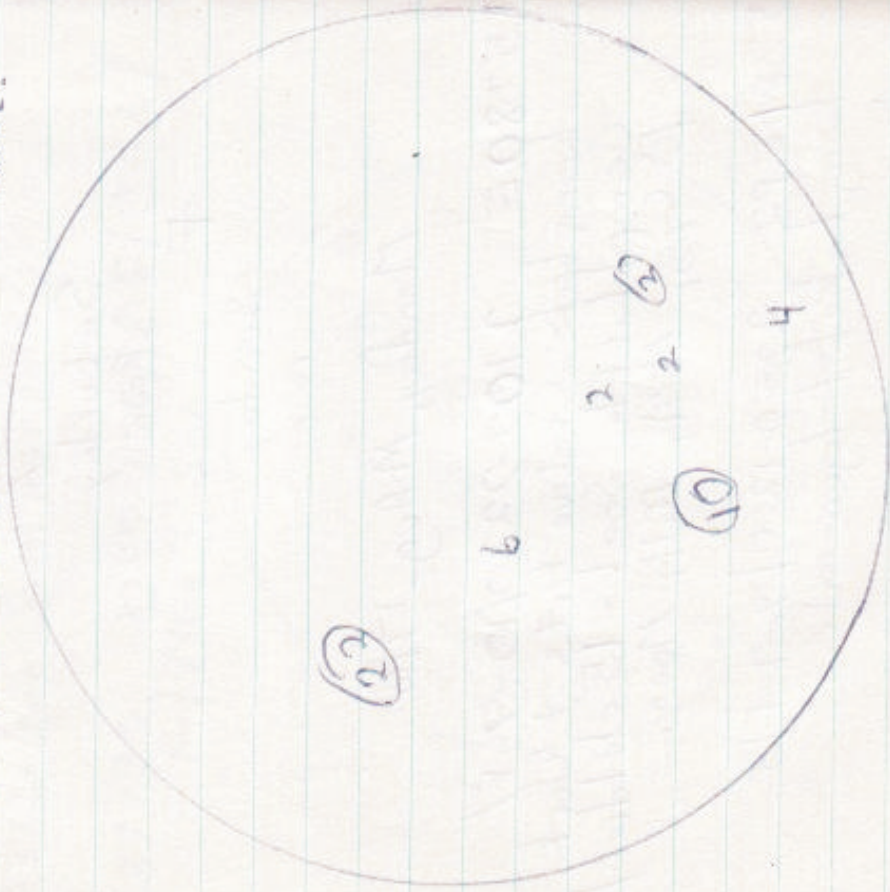
~~Here was always~~

53825. 1000-1200/10-F/ Long Lake/
There was know time when that
was know time because time
was always

Serena; Age 10.

Mira 3/ ~ 5 children

SS2.



Wednesday, 19/20. 08 81

cloudy at night.

Thursday, 20/21

5383 E. 2230-0030k-F/

1. Westmout High
 2. Raslyn School.
 3. LCP-818-LW CN1-40-4
 4. 4902 Raslyn.
- * in between.

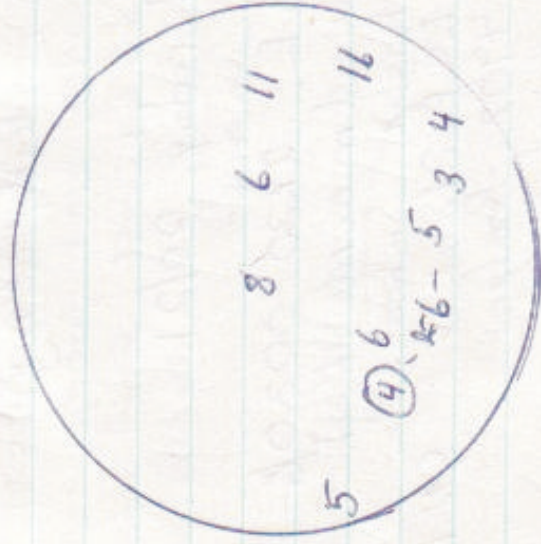
with Mira 4, former funder
for Mira 3.

Friday, 21/22

5384 EP. 2330-~~0000~~2340/8-F/
~~5384~~ Wsmt Sg/-1-general.

Saturday, 22/23
cloudy

Saturday, Sunday, 23/24.



G 13
S 76
R 196

5385 S. 1630-1650/8-3-f/5-5-B/
Mira 3/-/SS2.

then cloudy.

08 81

Monday 24/25
5386 EM. 2040-0330/2-10-f/5#
SSB-D

Peter
Enrico
Alvares

Little Joe
Maia

400mm teleph.
with 22 ma
eyepiece

ISO-I

RCB 6.1-

TGB 10.0-

RSoph 11.6-

2158 SSCyg 11.6-

Tuesday, 25/26.

5387 S. 1345-1400/8-10-f/SJ-B/
Mira 3/
others/
SS2.



G 10
S 60
R 160

5388E2: 2010-2030 / F/RASC/
6" refl - others / Do E Lyr.

Wednesday 26/27
cloudy at night.

Thursday, 27/28
5389AN 2030-0500 / 10-F/
J-J-B-D

Little Joe

Mira

Binoculars

Eprico

Peter

Mom

Dad

CN3 ~~05~~ 3^h 20^m -
W, S, E.

dusk, until dawn

VSO I p Gem 3.2' 0400
See Journal.

Friday, 28/29. 108 81



hi there!

3rd time

around
(cf 5319 S?
and 5372 S?)

G 13
S 123
R 253

5390S 1600-1630 / 10-3-F / 3-J-B/
Mother, Daddy, Emrice/
Mira 3/

Friday 4/5

00 81

5392S. 1500-1530/ near Ft. Wayne, Ind/Mira 3/-/ S52.



5394S. (Should be 29/30 after 5391) ~1630-1645/1-F/ near Gattineau/ -1 Peter/ Sun perfectly filtered by cloud. No spots.

4/5 conc'd.

5395S2. 1900-1915/4-F/near Caticca, Indignay / -1-1 Sun filtered by haze. No spots.

5396E3 2100-2120/9-F/between Champagne + Springfield / -Mira 4/-1

VSO-I
RGB 6.0 -

5391EM2. 2030-0300/3-9-2-6-5-4-3/-f/ J-J-F-D/Mais, telephoto/ Jimmy Constantine, Peter, Alistair, Enrico, Carl, Peggy, Christine, David / general.

VSO-I
RGB 6.3 =

Saturday 29/30. cloudy but →

Sunday, 30/31 cloudy

5392FM. 002330-0030/2-1-F/ J-J-B-F/-1 Peter, Rolf.

Rolf Meier
-saw a few stars

Monday, 31/32 cloudy.

Tuesday, September 1/2.

Wednesday, 2/3 cloudy.

Thursday, 3/4 cloudy.

Saturday, 5/6.

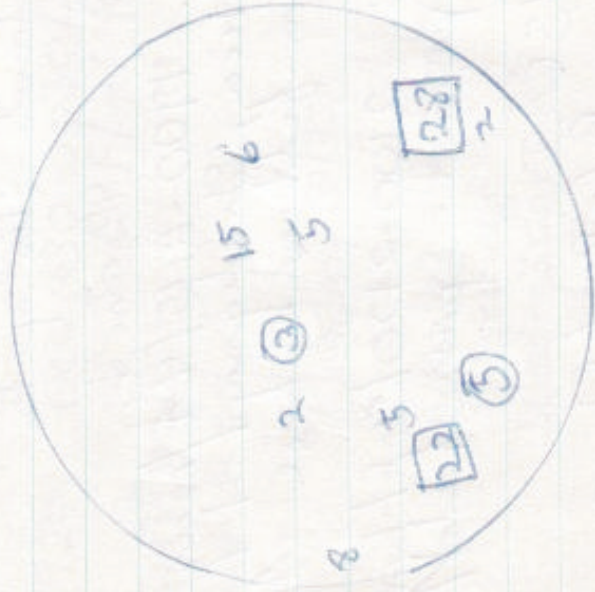
5397 E. ~2100-2115- / ~50 miles E. of
Tulsa, for Turnpike parking
area, no lights / Mira 4 / - / general.
Weather 3.

5398 M2. ~0100-0120- / ~~10~~ 6-3-F / Tulsa /
- / - / ~~10~~ general.

Sunday, 6/7

5399 S.

1900 CST / Vega, Texas / 3-F / Mira 3.
- / SS2.



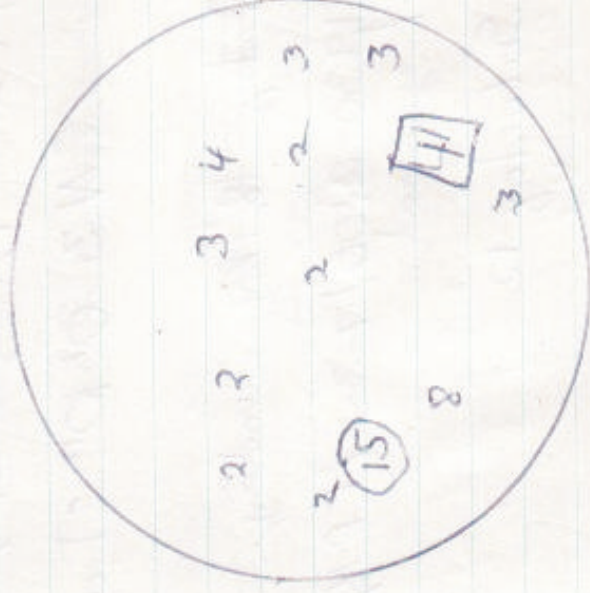
09 81

5400 E2 ~2315-~0000 / 3-F/
Moriarty, N.M. / - Mira 4 / - / general.

Monday, 7/8.

5401 S. 1300-1335 / 3-F / Very
Large Array Radio Telescope /
- Mira 3 / - / SS2.

1300-1335



5440 M. Tuesday, 8/9.
5401 M. ~0030-~0100 / 3-F / South
of JMB / - / - / general.

Wednesday, 9/10.

5402 M. ~0039-0130w/8-f/South of
SM, then SM4/ Pegasus/-/

CN3 0h 10m. =

Thursday, 10/11

5403 M 0200-0300/7-3-f/
SM4, then ^{South} Pegasus/-/

CN3 0h 10m. = Tau

~~Friday, 18/12/19.~~ Sunday, 20/21

5409 E2 1930-2100/7-3-f/FP16/
others/ general.

Saturday 12

Friday, 11/12.

*5404 AN 1930-0600/3-10-f/
SM4, 2,3/ Pegasus

JUPITER: FIRST LIGHT

Duane, Judy, Derald, Bonnie/

CN3 0h 30m ✓

Pollux - Castor

and

Eastern Sky.

Saturday 12/13

mainly cloudy.

Sunday, 13/14.

5405E. 1900-2100 int / 7-fm /
FP 16 / others / general.

Monday, 14/15.

5406M. 0000-0100 / 7-fm /
South of SM / - / general.

Tuesday, 15/16.

5407E. 2000-2300 / 7-fm /
7750 E. Oe Kward / Billy,
Gr + A / Equest Moon.

Wednesday, 16/17.

? mstly cldy.

Thursday, 17/18.

5408E. 1900-2000 / 3-f / SM 4 /
Jupiter / - / CN3

On 10:05m W. ✓

Fri. 18/19.

~~5409~~ see 2 pgs. back cldy.
(5409) ~~SM~~ cloudy

For 5409, see 20/21 Sept.

Saturday, 19/20.

5410S. 1230-1730 / 7-f / FP 16 / Sun.

*5411E2. 1900-2300 / 10-f / SM 2, 3, 4 /
Jupiter, Pegasus, Mira 3 f Penumbra /

CN3 21 05m. ✓

5412M3. 0100-0200 / 7-fm / JM-south
to end of Houghton.

54135. Sunday 20/21.
1100-1151 7-f/3/1B/Pen/Vergis. Pen.
541452 1230-1730 7-f/FP 16/
-1 Sun.

5414E2. See 5409E2.

~~Monday, 2/22.~~

5415E3. 2300-0000/10-f/3M4/
Jupiter -1

CN3 ON 30m E, -

Mon, 21/22.

cloudy.

Tuesday, 22/23

cloudy.

Wednesday, 23/24.

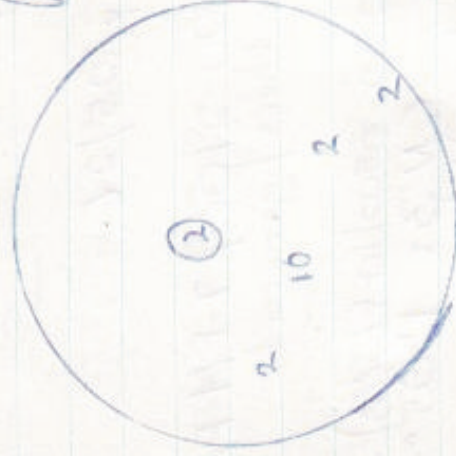
5416S. 1600-1630/3-f/JM4/
Penumbra, Mimow brook, Alpheccel
SS2.

Gonzalo Ferrer

PIETRO MICCOLIS

VIA TODESCHINI, 3
37126 - VERONA (ITALY)

Pietro Miccolis



G 5
S 18
R 68

5417E2. ~2300-0130~ /10-f/
JM4/ Jupiter -1 8

CN3 2100m -

Thursday, 24/25

Friday, 25/26.

5418 E. 1900-2100 / 7-F / FP / 16"
Jim S. + others / general.

5419 M2 0230-0500 / 10-F / JMB / Jupiter
Pegasus / Jim CN3: 1'05"
Saturday 26/27

5420 S. @ 1300-1730 / 10 7-F / FP /
16" / Sun.

5421 E M2. 1900-0200 / 10-F / Saguaros
W/TAA / Little Joe, others.

Sunday, 27/28

5422 S. 1300-1700 / FP / 16" / Sun.
5423 M2. ~0000-0100 / JMB / Jupiter / H
CN3. 0120m E. ✓

Monday 28/29

5424 E M. ~2330-0030 / JM4 / 10-F /
Jupiter / H CN3 0120m. ✓

Tues 29/30

Wed 30/31

10 84

Thursday Oct 1/3

-

Fri 2/3

5425 A E. 1900-2100 / 7-F / FP / Mike / -

5426 M 2. 0830-0913 0530 / 10-F / SMB /

Jupiter / Pegasus / Jim S. CN3 On 39m

Sat 3/4

5427 M ~0000 - ~0100 / 10-F /

JM 4 / Jupiter / - /

CN3 0130m - J

Sun 4/5

5428 E. - 1900-2100 / 7-F / FP /
16- / Mike / general.

Mon 5/6

5429 M ~0000 - ~0020 / 10-F / 3-F /
JM 4 / Jupiter / - /
CN3 0110m ✓

5430 M E. 2100-2230 / 7-F / FP / 16 /
Rich Jim W / M57 contest.
2nd try: 14.3 sec. 18 sec. Rich.
↑ Tues 6/7
5431 M 2. 0230-0520 / 10-F /
JM 4 / Jupiter / - /
CN3 1135m ✓

Wed 7/8

Thu - / -

5432 E. 2000-2030 / 7-F / FP / 16 /
Maria Beth / - / S. NG-C 869/884.

5433 M 2 ~0100 - ~0115 / 3-F / SMB / Penumbra
Thurs 8/9 1-1st general.

5434 M ~0000-0030m / 9-F / 3M 4B /
- / - / general.

Fri 9/10

5435 E. 1900-2100 in E / 7-F /
FP / 40cm / general.

Sat

5436 M 2 / ~0100 - ~0115 / 3-F / 3M 4B / - /
general.

10/81

Sat 10/11
*5437MS. 1600-1730/3-F/
FP/40cm/others/Sun. int.

Sun 11/12
*5438E2. # 1900-2300/
3-F/3M2, 3M3, 3M4/ Astron. class/
Pegasus, Jupiter, Mira, Surveyor 3,
Sky lab.

Others present:

Eric Ferguson
C. W. Ferguson
Bonnie Stowell
Judy Stowell

Sunday 11/12

L10 81

5439S. 1330-1400/3-F/FP-40cm/
brief view. Drive out?

5440M. See Tuesday, 8/9 Sept.,
on bust.

Monday, 12/13

13/4 some cl
W t moon
14/5 problems.
T 15/6

→ 5441E. 1920-1950/7-F/FP40/Mariabets,
Friday, 16/17. Jim.

5442E. 1900-2100 int/7-f/FP-40/
Mike-l

Saturday, 17/18.

5443S. 1230-1730/7-F/FP40+
Spl Sun.

#5444EM2. 1900-0300/10-F/JM2, 3, 4/
 Jupiter, Saturn, Regulus, Mirc 3, Knutbra
 Muesquilyn Carbo
 Joseph E. Guzman. Lewis
 Dick Salvatore
 Thomas H. Jaffe
 Alice Lentz
 John C. Balyntine
 James S. M. S. Bell
 Cassius A. Wasley
 Lynn Rowan
 Barbara Blomhorne 10
 Annette Munzger
 Ed Berkeley
 Dorrell - F. MacWhinnie
 Joan ConDeobos
 Barbara J. Davis
 Danna Goller Elan
 Mrs. + Mrs. Thomas Anico
 Rosemary Andler
 Ralph Peters 20
 Suzanne Bisby
 Elizabeth Holm
 Edna Mac Monte
 Fran & Helen Schwartz
 Catherine J. Manua
 Herman manua

Margaret South

Helen Brook
 John Thompson
 Bill Glance 30
 Thomas Anico
 Ruth C. Baruch
 Walter Popelucko
 Glenn Budy
 Kay Spaword
 Bruce & Pat Whitmore
 Matt Perry
 Lynn Hudock
 Herbert Schubert Jr.
 Edna M. Engh
 Arlene Poplawko
 Wm. D. Lopez
 Jo Thompson
 Jane Faston
 F. T. Welke
 Frances Welke
 Marie Hayes
 Lanny Luke
 Dorothy & Tomell
 Mike Sherman
 Gwn Mack
 Odene Fawer 50

10 81

Melley Muzall.
Karen Adams
Charlene Adams
Fret Adams
Cristina Villa Prokavich
Albert Prokavich
David Schepelberg
Elizabeth Miller
Erin Adams

Richard Hayes
Kai Millard
(Frank Peterson)
Wood Stock,
Ivacio A. Castano

BRAD MYER
DENNIS J. MCCAULEY
Judith Stowell
Joyce Devine
Patty McKea

Le Manon
Ellen Snyder (Sierra Vista)
Gerry + Aubrey Lang 75
75

70

10 81

Sunday, 18/19

5445S. 1230-1730/8-F/FP40+Sp/
Sun.

5446E2. 1900-2100/7-F/FP40/
Mike

Monday, 19/20.

5447E. 1930-0300/8-f/

1081 (NGC 467) SM 4, 3, 2 / Jupiter, Saturn,
Mars 3
2-3th Harmonic (see Cassius) /
field of light, Penumbra / Kai Millard

NGC 7009 "Return Neb." PN Agr. 246: PN in center
with 3 embedded stars
2008-Very blue CN3 1400m W.
small PN in Cyg. used for 8mm to see.

Tuesday, 20/21
clouds.

Wednesday, 21/22
5448E. 0015-0100/10-F/1574/
10 ft
CN3 0.30m. ✓

Al. Ziegler
 Kai Willgoed. Thank you David.

Thursday 22/23
 5449EM 1900-0230/10-F1
 10.2 JMB/2 Pegasus Jupiter
 10.3 Penumbra
 1300 10.1 CN3 1h20m ✓

Friday, 23/24
 5450E. 1900-2100int/
 8-F/FP40/Mike Magee/.

5451E M2. 0030-0300 ✓

DF/ JMB, 4/
 Pegasus, Jupiter, Penumbra.

→ SSCyg 10.1

020657a T2 Rr 13.4
 Sim est: 13.4

↗

CN3 0h30m SV Pegasus.

5452E2. See 04/81, April 26.

Mo. Secretary,

Saturday, 24/25.

5453S. 1230-1715/8-F/FP 40/
 + Spec.

5454EM2. 2100-0100/9-10-F/
 Vivian's house/
 TAAA party
 Virgo + others.

Sunday, 25/26.

5455S. 1230-1715/Sun. FP40+Sp.

5456M2. 0400-0535/10+-F/
 JMB/Jupiter/-/

CN3 1h10m E. -

Monday, 26/27.

5457M. 0400-0535/10+-F/JMB/
 Jupiter/-/ CN3 0h50m E. -

Tues, 27/28
clouds

Wed 28/29

5458M. 0130-0145/10-f/3MB/H
general.

Thursday, 29/30

Friday, 30/31.

5459 E. 1900-2100 int/40cm FP/
Mike M./general.

These sessions out of

Sequence. 10 81

Comet hunt sessions
1st week of November,
Lunation #3.

- 5460 EM. 433B 2 h 10 m ✓
- 5461 M. 2/2/3? On 50m E ✓ predawn.
- 5462 M Nov 3/4. On 30m E ✓ predawn.
- 5463 m 4/5? On 15m E ✓ predawn.

all with Jupiter.

F.

- Sat. Oct 30/31.
5464 S. FP40 + Sp. Sun. 1230-1700
- Sun. Nov 1/2 1230-1700
5465 S. FP40 + Sp. Sun.

Fri 6/7 5466 E. FP #40 w. Mike.

Monday. Sat Nov 6/7/8

5467 S. FP 40 + SP. 1230-1700
Sun Nov 8/9. see next page.

5468 S. FP 40 + SP 1230-1330

Mon, Nov 9/10 Sunday 8/9

5469 Ea. 1900-2100 / Mike / FP40.

Mon, 9/10,

5470 M. ~0200-0215/7-fm/3M3/
Mira / -1 moon.

Tues 10/11.

5471 M. 0140-0155/7-fm/3M3/Mira / -1
moon.

Sat. 7/8.

5472 A E. 2100-2230/7-fm/3MB/
Pegasus, Mira, Saturn, Penumbra,
Jupiter. Rich + Denise.

Fri 5/6 Nov.

5473 S. 1300-1400/7-F/3M4/
Re Jupiter / Inst. of Io. + Callisto

5474 S2. 1600-1700/8-f/3M4/
Jupiter / Moon with
Jupiter

Io
Europa
Ganymede
Callisto.

5475 M3. ~0200-~0400/3-f/3M4/3m / m74
-Herschel 2
Sat. 7/8.

5476 M2. 0300-0430/10-f/3M4
Jupiter, Mira² / Rich + Denise.
Horsehead Nebula.

days + sessions now in order.

Wednesday, 11/12.

5477 E M. 0130-0150/8-fm/3M3/
Mira 3/-1 Moon, M42.

Thursday, 12/13

5478 M. 0130-~0145/7-fm/3M3/
Mira 3/-1 Moon, M42.

Friday, 13/14

5479 E. 2200-~1900-2100/7-f/
FP40 / Mike.

Saturday, 14/15.

5480 S. 1045-1710/3-f/8.FP40+Sp/
At others / Sun.

5481 E2. 1900-1930/3-f/FP40/Mike.
Jaquefn / B Cyg.

5482 E3-2300-2315~13-f/1-Duane's
Place.

Sunday, 15/16.

5483 E.S. 1240-1710/7-F/3.FP40⁴⁰
Sp / - / Sun.5484 E. 1900-2100/7-F / FP 40/
Mike + others / - / Sun
Algol at minimum.
i CassLUNATION IVMonday, 16/17
5485 E. 1830-2100/10-F/
JMB / Jupiter / Judy
CN3 1400 m. (W + E). ✓5486 M2. ~ 0000-0030 ~ / 7-F m/
JM4 / Jupiter / - /
Tuesday, 17/18.
5487 E. ~ 2000 ~ 2015 / 3-2-F /
JMB.

Wednesday, 18/19.

5488 E. 1830-2100 / 10-F / JM4 /
Jupiter 14 CN3
1400 m W.

Thursday, 19/20.

5489 E.M. 0205-0200 / 10-F - /
South walk, + JM4, JM3 /
- ~~Sp~~ Cass / Europa! /
general.

Friday, 20/21.

5490 E. 1900-2100 / 7-F / FP40 /
Mike. / general.5491 M2 0100-0200 / 10-3-F /
JM4 / Jupiter, I° / - /CN3 0300^m E - ✓Saturday 21/22
5492 E.S. 1245-1715 / 3-F /
FP40 + Sp / - / Sun.5493 E2. 1935-2115 / 7-3-F /
FP40 / Mike + others /
i Cass
i And
M45.

5494 ER3 2215-2225/N Campbell/
7-3-f/Mike, Jim/ end of
bright meteor. Confirmed also
by someone who called the
planetarium the next night.

5495 M4. ~0200-0230-19 $\frac{1}{2}$ -f/JM2/
-/-Pegasus/ M44.

Sunday, 22/23

5496 S. ~~220~~ 1230-1630 / 7-f/
FP40 + Sp / Sun.

5497 F2. 1900-2109 / 7-f / FP40
Mike Wickman 40 / Saturn
Nebula. Good session.

Two years ago I watched
Rik run the Schmidt at KPNO.
Now I'm watching Mike do
almost the same thing. I do
a lot of watching with, + of,
friends.

Monday, 23/24.

5498 E. 1830-2000/10-f/
JM2, 4/ Bonny, Judy, Derald,
Denise, Mr. + Mrs. David Levine/
Jupiter/

CN3 1100m. W ~ W

5499 M2. 0100 ~ ~ 0230 / 10-f/
JM4, 2 / Jupiter, Pegasus with
newly cut adaptor / - /

CN3 1100m. ✓

Tuesday, 24/25.

5500 E. 1920-~~20~~2000 / 7-f / FP40/
Mike. / Venus

5501 E2. 2130-2215 / 7-f / FP40/
Mike.

5502 M3 0400-0600 10-3-f / JM4/
Jupiter / - /

CN3 1115m E. -

11 81

Wed 25/26

5503E, 1850-2000/10-11-F/3M4

Jupiter 1-1

CN3 0^h30^m. W -

5504M2, 0415-0600/11-F/3M4

Jupiter 10/-1

CN3 0^h50^mE. -

Thursday, 26/27

cloudy.

Friday, 27/28

cloudy.

Saturday, 28/29.

Storm warning.

5505S. 1235-1650 / 3-F / FP40at

Spec.

11 81

*5506EM2. 1825-0100 /

10-F / 3M4, 3, 2-1/ see below /

10 until 2045 except for cloud in North.

First Light

Ceremony

for

Jupiter

Daryl W. Boyer

Stephen Graham

Bill Gause

Stewart Cannon

James Smith ← reserved

Bonnie Stroud

Janine Stroud

Karen Oliver

Jim Oliver
Sam Ferdie

222 S. Harrison
Tucson AZ 85728

Mike Ferdie
 Geraldine
 Theresa Kappm
 Brenda Lapper

SOCIETY (M via a M elsewhere)

ASTRONOMY

ORION

Aling Belia & other M.
 Antonio Sanchez J.

Jenny Patterson
 David Patterson
 Rachel Peters
 Jacques Servin
 Shelly J. Cassinger
 C. W. Ferguson

Erica Ferguson
 Denise & Ideal Brown
 Judy Stowell

Gail Lorenz
 Scott Hyming
 Garofino Cook
 Pat Comenath
 Doug Comenath
 David & Denise Mye
 Eugene & Kelly

Jaquelyn Gumbo
 Shelly Gumbo
 Nancy Chertson

Neil Levine
 Denise Wortley + Bob Wortley
 Gary Elliott
 Craig W. Grunby - Las Cruces, N. Mex.
 Jeffrey Shynk - Las Cruces, N. M.
 Susan Hebe
 Amy Gumb
 Michael Magee
 David Amerson, Co. Co
 Mariakete Ford
 Amy Burton
 Debbie Y (Thevar: owner of a 16 + 1/2" f4
 (Roy Stowell))

52

CN3 0405 m W -
 M31 as main object; also M1, 42, 27.
 Sunday, 29/30.

55075 1240-1310/3-0-f/FP 40
 + Sp/ - /Sun. closed for rain.

550852. 1515-1540/3-0-f/FP 40+
 Sp/ Sun.

550953. 1610-1715/3 -f/FP 40+
 Raleigh Grumbly + Peggy Shinn / Sun.

11.81

5510 E4. 1900-2100 / int
3-F / FP Wickman 40 / Mike +
others /

M31 M57.
E Lyf

5511 M5. ~1205-0200 / 3-F / JM4 +
Southern walk / - / - / watching
alternate clouding over +
then clearing.

Monday 30/31.

5512 SE 1700-1800 / 10-F / JM2 / Pegasus /
Moon + Venus.

5513 E2. 1835-1900 / 10-F / JM4 / Jupiter /
CN3 0h05m W. -

0315 - VZ Cam 5.2

- 2 Ori 1.0

- n. Gem 3.1

- R Leo 9.8 8.8

5514 M3. 190030-0230 / 10-F but
very humid (25%) / JM4 / Jupiter
Europa, Io / Probably successful
search for 15 Eumonia.

5515 M4. 0310-0325 / 10-F / JM4 / Mars
- VSO-I, see 4est. above.

December.

12.81
11.81,



1/2. Tues.

5516 S. 1130-1210 / 10-F / JM3 / Jupiter,
Penumbra - Sun.

5517 E2. 2100-2230 / 10-F / JM4 / Jupiter /
- / Eumonia (15) sighting confirmed.
CN3 0h10m W. -

5518 M3. 0030-0200 / 10-F but humid /
JM4 and JM5 / Jupiter,
Antares / Eumonia,

. CN3 0h35m SE. -

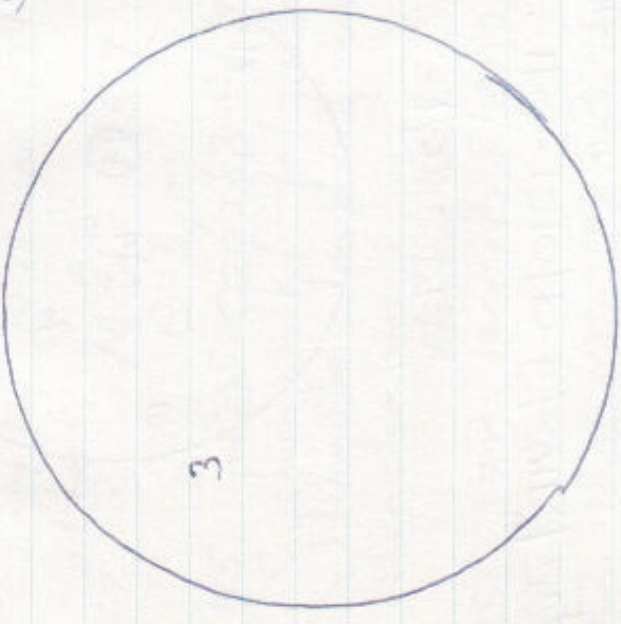
11.81 r

12.81 r

2/3, wed.

55195, 1600-1615 / 8-f / JMB/Renumbraf- / SS2.

Trees obst.



5520E2 1800-1930 / 8-f / Naini Library / - Mike M., Clerk Chapman, Tom Grahels, etc.

M45
Db C1
Moon, Venus
15 Eumoria

with Antares, 10" + 8" rks.

12.81,

11.81 r

5521E3. 2100-2200 / 8-f / Naini / Antares, 8+ Dirks / Mike M., Clark / - / Eumoria mostly.

5522M4. 0030 ~ 0100 / 10-f / JMF / Antares- / M42.

Thursday, 3/4.

5523E 1900-1915 / 7-f / FP40 / Mike.

5524M2 0030 ~ 0045 / 3-f / JMF / Mira 2 / M42.

Friday, 4/5

5525E. 1900-2100 int / FP40 / Mike.

5526M2. 0100-0115 / JMF. / general.

5527M3 0440-4455 / JMF / 3-f / - / sky too poor for CN3.

Saturday, 5/6.

5528S. 1520-1545 / 2-f / FP40 + Sp / slight clearing for sun.

5529E2. 1900-2050 int / FP 40 / 3-f / Mike, Jim et al. Moon.

Sunday, 6/7.

5530ES. 1235-1700 / FP40 + Sp / 8-f /

12.81

12.81

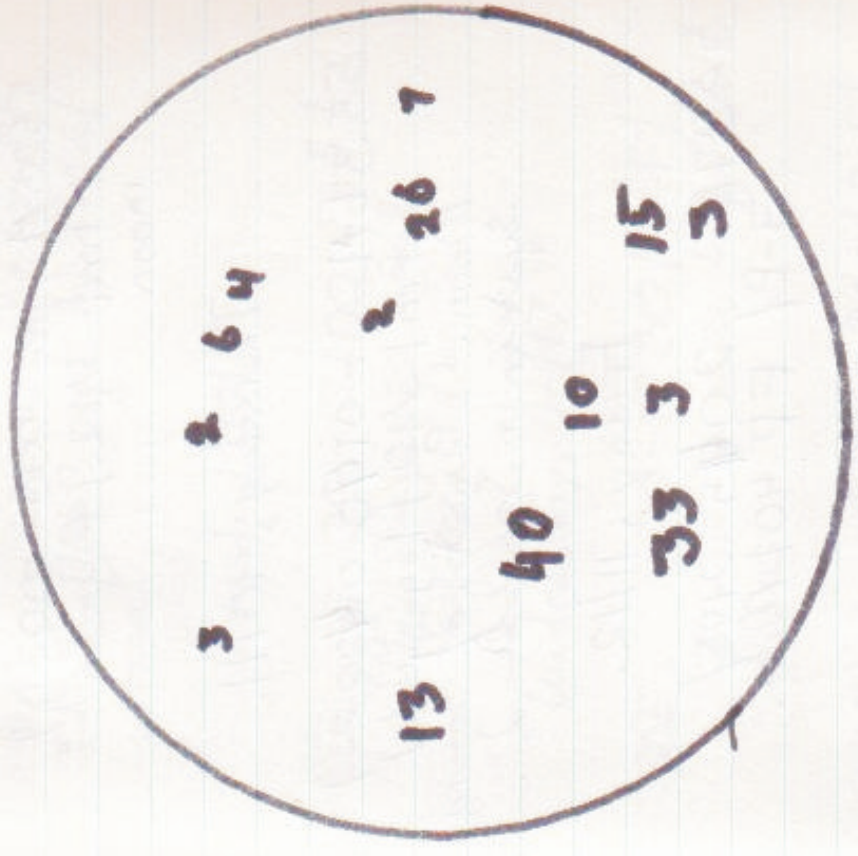
5531 E. ¹⁹³⁰ 1800-2100 int/8-F/3A through
 car window / ~~At the~~ Jim, Nyes / moon,
 General.
 5532 E. 2300-2340 int/8-F/
 again through car window.

Monday, 7/8.

5533 E.M. 0425-0600/10-F/
 JM4 / Jupiter / - / ~~SS~~
 CN3. 1405m E. -

Tuesday, 8/9.

* 5534 S. 1500-1545/10-F/JMB/
 Penumbra / Judy, Bab Cohen /
 SS 2. Record for spots +
 groups?



GS 14!
 R 167!
 307!

Robert Cohen

12.817

Wednesday, 9/10.

5535M. ~ 0000-0030 /
7-fm | 3M2 | Pegasus /
Moon.

Thursday, 10/11.

5536M. ~ 0140-0200 /
3-fm | 3M2 | Pegasus /
Moon. Great. of sound
System in Sarnade 2. ?

Friday, 11/12.

5537E. 2045-2145 /
3-f | FP 40 | Mike.

Saturday, 12/13.

5538M. 0145-0245 /
78-f | 3M2 | - | Moon.

Sunday, 13/14.

5539M. 0030-0150 / 8-fm /
South walk / - | - | 45 Geminids
~ 15 Geminids.

12.818

Monday, 14/15.

5540S. 1600-1700 / 8-f | 3M2-4 | Mira 3.
5540M. ~ 0200-0300 / 8-fm /
3M3 | Mira 3, repl. by Maia /
General.

Tuesday, 15/16.

5541M. 1700-2100 / 3-f /
3M2 | Pegasus and
Equinox | Dan S.

Wednesday, 16/17.

5542SE. 1620-1830 / 3-f /
3M2 | Pegasus, Equinox /
Venus.

5543M. 0230-0300 / 3-f /
3M2 | Pegasus,
Equinox.

Seems that the new
combination works very
well.

Moon - Regulus.

Thursday, 17/18.

* 5545EM 2340-0200/
10-3-f

JM4 + South walk
P. Jupiter
Io, Europa,
Ganymede,
Callisto. P

CN3
1h00m.

Friday, 18/19

NU On	70-	1250	1300
V361	94-	70-	70-
LP	94-	95-	95-
V372	82-	92-	92-
10	95-	82-	81-
MX	101-	95	95-
NV	98-	101-	101-
KS	103-	99-	98-
T	101-	104-	103.
Z	90-	101-	100-
		90-	90-

5546AE. 1900-2100 int/
7-fm / FP40 / Mike.

5547M2. 0030-0105 / 9+10-f /
JM2 / - Regulus, Equinox / - /
Gt USO-I, see above.

Friday 18/19. Sat, 19/20
5548MS. 1205-1700 / 3-f / FP40 /
Sp / Sun.

5549E2. 1700-
1900 int / 7-f / FP40 / Mike
+ others / Venus etc.

5550E3

2145-2205/6-F/FP/Echo IV /
David Harvey, Mike / M42, Sirius.

5551M4. 0045-0130/10-F/IMB, F/
Echo 4/-1 M42. General.

Sunday 20/21.
5552S 1155-1705 /7-F/FP40XSp/
Sun.

5553E2 (Mike's No. 153) /1845-2110/
7-F/FP40/ Mike, etc. / Venus
& Tau, M42.

Monday, 21/22.

5554E. 1950-2105/3-2-F/3MF/
Danny, Bonnie.

5555M2. 0300-0315/10-F/3M3/
Maia / general.
Tuesday, 22/23.

5556E 1855-1910/7-F/Gerry's
place / - / general.

5557M2. 0435-0600/10-F/3M4, 2.
Pegasus, Equinox, Jupiter / - /

CN3 0h20m.E.

Jv. Test for Equinox on
planets. ~~Saturn~~ Offered
a good depth in its interpretation
of Saturn, but showed detail on it +
Jupiter poorly, at least not good
enough to ~~merit~~ pay the price of
a sluggish mount on Pegasus.

Wednesday, 23/24.

5558SE. 1430-1815/10-F/3MB/
~~Disarm~~ Divorce of Equinox + Pegasus.
Repair of Pegasus. + Saturn.

5559E2 1845-2000/10-F/3M4, 3, 2/
Bonny. / Jupiter, Maia, Pegasus.

CN3 On 40m. W

5560B MS3. 0430-0800/3M4, 3, 2
+ South walk / 10+ F / Jupiter,
Maia, Pegasus / - all used for
CN3 1h 15m E. -
+ Sun Moonrise
+ Sunrise pictures.

12.81

Thursday, 2/4/25.

5561S. 1600-1630/10-F

JMB/young David
Brown/gas look at obs.

5562M2. 0250-0310/3-F/JM4

Jupiter with 1,2,3,4/-1
M42.

Friday, 25/26.

5563bSE. 1715-1800/3-F/

Top of Mt Lemmon, Mt. L. Obs
Very summit + Very cold!
Dave Brown - Venus. Sunset
over KPNO.

5564M2. 0200-0240/3-F/

JM4/Jupiter/David
Brown/M42, Manabett's
galaxy, NGC 4585, M81, M82.
M1, M97, M65, M66

(David Brown)
Saturday, 26/27.

5565S. 1315-1710/3-F/JM4:FP

40/David Brown, Also
small ff.

Jupiter: Second Light

Ceremony.

M5566EM2 1830-0230/3-F/3-9-F/

Jornac Obs. 4-3-2/

Jupiter - Io-Europa-Grany mede -
Callisto, Pegasus, Saturn, Minnow-
brook, Penumbra, Maia.

DERALD NIE
Bonnie Stowell

~~Scott Stowell~~

Marcus Stowell

Marilyn Stowell

Eric Stowell

Robert Stowell

Don Stowell

Judy Stowell

Jo Ellen & Bob Snyder, 11533 Canyon Dr
Serranville, AZ

Thomas E. Stowell

Joe Stowell

John Stowell

John Stowell

John Stowell

14950 South

Sherman Oaks - Calif. 91403 -

Amy Rosenbaum

8465 E. Lina Blanca

Tucson Ariz.

Barry Boh

Professional Eclipse Chaser.
Terri & Brenda Lapping
Taren and Jim OLIVER
John W Cartwright

Rael Meier
Eric Clinton
Michael Magee

David, 26 Dec 81
Well this may be a "mushy"
note, but I hope I don't embarrass you, when I came into
the club, it was to follow an
almost life-long ambition to
learn something & possibly every-
thing about astronomy. I was
in awe & especially worried as
everyone seemed to know so
much & I knew next to nothing.
It was almost painful but
especially with your help & pat-
ience as well as that of Jerry,
Mike & Panny I have learned a
lot. The heavens are so beautiful

12.81.

I mustn't forget about Duane
& his help also. And I was
able to make friends & gain
self-esteem at a time in my
life when I was going through
an identity crisis. Thank you
for loaning me your telescope.
It was a great help. Bob & I
as well as the kids have all
enjoyed it. If you & Mike go
to Canada or even you by your-
self, please stop by Provo, Utah.
It is the way to Salt Lake City
which is not that push out of
the way to Canada. We would
enjoy seeing you. Maybe I
could arrange to locate a
dark site. It will really mis-
sueen & you. I know someone
special will come along in your
life, just be patient.

826 N 750 W
Provo, Utah
84661
Love, Jim

David Brown

25

CN3 0h05m E. -
~0200-0210 ~
M31, 42, 33, etc.

55675. 1230-1700 / 3-F/FP40/
Sun. 27/28.

55682. 1900-2100 / 3-F/FP40/
Mike, David B / ~~50~~ 'tenney,
etc.

5569M3. 2 0000-0020 / 10-F /
JM4, 2 / continuation of Rolf + Eric.
- session begun by Rolf + Eric.
Jupiter, Pegasus Propus
Monday 28/29.

5570S. ~1900-1300 / 10-F / JM4.
Rolf, David, Eric / Teat.

5571S2. ~1430 - ~1700 / 10-F /
JM4 / Rolf, David, Eric / Propus.
Jupiter: Graised telescope
, key ~ 25 cm. Venus.

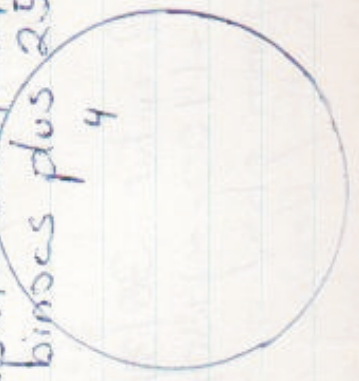
5572E3. 1800-1900 / 10-F /
JM4, 2 / Jupiter, Pegasus
Finally, a view with the 40cm.
of NGC 253!

5573M4. 0600-0620 / 10-F /
JM4 / B. Jupiter / Eric
Propus
+ Pegasus

CN3 0h05m E. -

Tuesday 28/29/30
5574S. ~~1430~~ 1200-1300 /
10-F / JM4 / Pegasus / general.
Rolf, David, Eric

5575S2. ~1530 - ~1545 / 10-F /
Colossal Cave / R, D, E /
B+L binocs plus 254 /
Sun: 4
but there
were much
more.



5576E2. 1900-2030/7-f/FP40/
Stuart, Mike, Rolf, Eric, David/
- ~~Venus~~ Moon.

5577E3. 2215-2300/7-f/FP40/
Mike, David, Eric, Rolf/
- M42.

5578M4. 0430-0530/3-f/3up: M3 -
0h20mE
- Wednesday, 29/30/3

5579S. 2-1200-1400-13-f/5M2/
Pegasus, Mira 4 / Judy, Dan,
Eric, Dan, Rolf / Venus.

5580M2. 0115-0145/9-f-10 after a
cloudy night / ^{Dave} Dan / Pegasus
Pegasus / M42

5581M3. 0220-0240/8-f³⁷ / 5MB/
Pegasus Pegasus / Dan, David. /
M42.

December 30/31/32 Thru
5582S. ~1400-~1430/8-3-f/
Mt Lemmon obs. / - / - Dave,
Eric, Rolf / Venus, moon.
Venus w. naked eye clearly.

5583E2. 1800-1900 int/
3-f/5MB/ Pegasus / Dave,
Eric, Rolf / - / ~~Jupiter~~ Moon.

5584M3 ~0130-~0200/3-f/
5M2 / Pegasus / - M42.

—————
Total sessions in 1981 =
501.

1982.

January.
1/2 Fri.
cloudy.

but:
55855 1245-1315 / 3⁰-F / 5A FP40 /
Sun.

55862 1700-1710 / 1-F / FP40 /
Tour of telescope.

2/3, Sunday.

55875 1205-1700 / 7-f / FP40 /
Sun.

55882 1900-2100 / 7-f / FP40 /
Mike, Greg R, Dave H.

5589M 0500-0630 / 10-f /
JM4 / Jupiter, Maia / - /

CM3 @ 1400mE -
3/4, Mon. Sun.

5590S 1300-1600 int / 3-f / 3MB /
Judy, Dan / Sundial on 3M4,
Roof on 3M3

5590E2 1900-2030 / 7-3-f / 3MB /
Pegasus / Roof on 3M3,
Moon, M42 w/ Pegasus.

5592M3 ~0250-0305 / 2-f / 3M2 /
Pegasus / Regulus.

4/5, Tues/Mon
cloudy. ~~but see 5591E2.~~

4/7, Wed. 5/6, Wed-Tues. (cloudy, but)
5593S ~1530 ~1545 / 3-f /
LaBelle's store /

First Light:
Eunomia

Rolf, Eric
Wed, / Tues. 5/4.

5594S2. (should be before 5593.)
~1300-1400 - 1-f / 3MB /

Saturn / Rolf, Eric
Test of Saturn, repaired by
Rolf - K PVO view

5595S2 6/3 Wed.
7= 1-f / 3MB, F / Rolf, Eric / Virgo /
Camera test.

5596 M3. ~~0245-0100~~ 2-f / JMF /
Eunomia / - / Moon Not bed
for \$20!

Forecast

Thursday 6/7/8 Rolf + Eric /
5597 SP-1500-1510 / 3-f / Grades Pass / Mack Sin.

5598 #3 1900-1915 / 3-f / FP40 /
Eric, Rolf, Mike / Moon.

Friday, 8/9.

5599 S. 1700-1730 / 3-f / dirt road,
2 places near Nogales / 7 Virgo /
Rolf, Eric.

1. Picture of Mt H. w/ MNT + Ridge.
2. Moonrise over mtn. Ya wash.
3. Sundogs - 2 of them.

5600 M2 0100 - 0300 / 8-fm / JMB /
Saturn, Penumbra, Eunomia / Sur-
veyor 2 / Rolf, Eric / Moon, Mars /
Jupiter, Saturn, M42.

Saturday, 9/10.

5601 S. 1300-1530 int. / 3-f /
JMB / Jupiter, Saturn /
Rolf, Eric, Jacquelyn /
Q. Scope Maintenance.

5602 S2. 1730-1845 / 3-f / JMB, F /
Saturn, Virgo / Venus, others
got Mercury while I was inside.
Rolf + Eric.

5603 M3. 0030-0210 / 3-f / JMB /
Saturn, Eunomia (for presentation
photo) / Mars, Moon, Saturn, M42.

Sunday, 10/11.

5604 S. ~~0130-0~~ 1240-1700 /
3-8-f / JFP40, now + sp. / Sun.

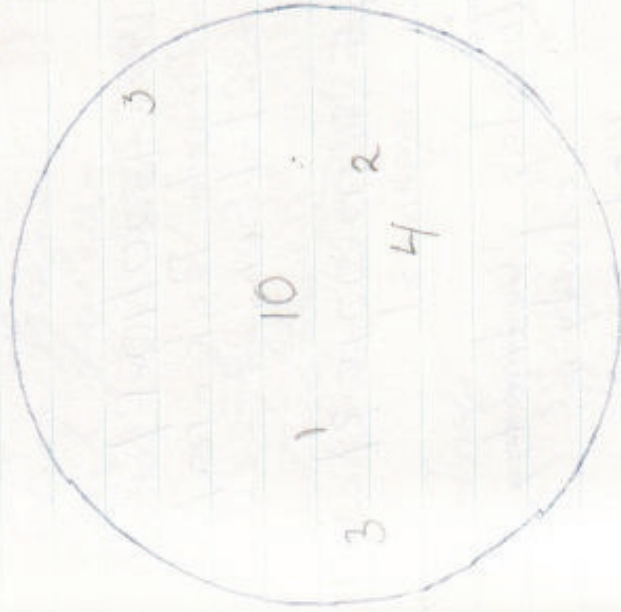
5605 E2 2040-2130 / 3-f /
FP40 / Judy, her father's
her for Roy + Bonnie + others /
Scope opened by me, many
people looked at M42.

Friday, 15/16
5610 E. 1900-2130 int / FP40 / Mike.

Saturday, 16/17.
5611 S. 1330-1715 / 7-F / FP40 + Sp.

No. taken from
monitor.

approx.
only.



Sunday 17/18.
5612 B E. 2200-2215-16-F /
Motel 6, Phoenix / - / Mira 2 /
M42, & CMA. (?)

Monday, 18/19.
5613 E. ~~2000-2100-2200-2215 /~~
8-F / 3MB. / Jupiter. ?

Monday, 11/12.

Cloudy, + occidnt.

Tuesday, 12/13.

Rain.

Wednesday, 13/14.

5606 E. 1855-1935 / 8 10-F / 3M4 /
Jupiter -
CN3 On 30m W. -

5607 E 2. 2140-2205 /
10-F / 3M4 / Jupiter / Judy's
dad M31, 33, 42, & And.

Thursday, 14/15.

5608 S. 1330-1600 / 8-F / KPN0 /
Razdow image / Stowell /
Mike Magee, Roy, Judy, Bonnie
Stowell, Hd. four.

5609 M2. ~0000 - ~0020 / 7-fm /
JM, + walk / - / general.

5617S. Sat. 11330-1715/10-F/FP40TSP
5618EM. 1845-0320/10-F/3MB/ 01 82
Saturday 23/24 Tucson Arizona!

James V. Acute Tucson
Mike Greenwald Tucson
Gary Krenshaw Tucson
Joe E. M. Saha Tucson AZ
Pierce Y. Chuan Tucson AZ
Wes. Fordner Tucson
Glen Ferguson Tucson
Paul Lorenz Tucson
Michael F. Wilson, USSICAMS AF-1069 Long Beach Cal.
Erica Ferguson - Tucson!

Judy Schull
Bobbie Stowell
+ others. Donald,
Dwayne, et.

Inst: Jupiter
Saturn
Pegasus
Maia
others.

M42, 3, 51, etc etc.
Mars Saturn Hercules.



15/5

5613S 1505-1520/10-F/
Pacheco-Picacho Peak area/
Mira 2/-/Sun.

5614E2. ~~15~~ 2200-2215? / 3MB.
general.

Tuesday, ~~wednesday~~.
cloudy?.

wed.

Thursday, 20/22.
5615E. 1900-2000/18 10-F/3M4/
Jupiter 1-Danny, Jeannie/
CN3
On 30m W.

Thursday 21/22
cloudy

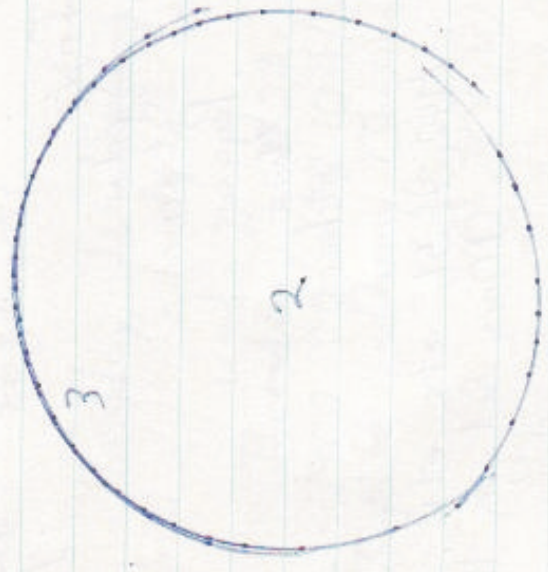
5616E. Fri 22/23/1900-2100/7-F/FP40/Mike.

Sunday, 24/25.

5619S. 1330-1720/8-F/FP40+
Sp/Sun.

5620E2. 1900-2100 int /
8-F/FP40/Mike.

Monday, 25/26. (?)
5621S. 1600-1615/8-F/SMB/
Penumbra/-/SS2.



25/26 cont'd. 01 82
5622E2. 1900-1930/10-F/
JM4/
Jupiter/

\$ CN3 0h 20m W. -

5623E3. 2330-2345/10-F/
JM4/ general.

5624M4. 0430-0615/10-F/JM4/
Jupiter/-/
+Europa CN3 1h 25m E.

Tuesday, 26/27.
5625M. 0430-0600/10-F/
JM4/Jupiter/-/
CN3 1h 10m E.

Wednesday, 27/28.

5626E. 2100-2200/7-F/JM4/
Jupiter/Virgil/General. 181,82,
42.

Thursday, 28/29.

5627M 0000-0930/7-f/windy/
JMB/ - 1 test of new light
flap.

Friday, 29/30.

5628S. 0830-0930 / O-f/
Snowfall! / JMB/
Photos of observatories.

5629E 9 1930-2100int/
O-3-f / FP40 / Mike + /
Opened later in session
after first being a look-at
rather than look-through.
Saw M42, Rigel + Moon.

Saturday, 30/31

5630S. 1330-1715^{int} / 7-f / FP40 + Sp/
Sun. ~~Spots~~^{sun} very active.

5631S E2. 1900-2100 / 7-f / FP40/
Mariabeth Silkey, Mike, other
Moon, M42, Rigel.

L 01 82

5632M3 0120-0145 / 10-f/
JMB / general unaided eye
look at a lovely sky.
Also, installation of Flaypole
system.

Sunday, 31/32.

5633S. 1315-1715 / 3-f / JMB
FP40 + Sp / ^{int} Sun. Lots of
Spots.

5634S. on Friday 29, should be
before 5629E. 1300-1400/
J-O-f / FP40 / unusually
clear image as light cloud
helped filter.

56.

February - 1982.

Still January 1982.

5635 E2. 1900-2100 / 7-f / m/
J FP / Mike, others; conversation
with some Hasidim regarding
our views of C + M42, + the
age of the world. "Well, what
did you think of my guys?" I
asked Mike!

5636M3. 0445-0600/9-3-f/JM4/Jupiter
-/ CN3: 0h 30m E. -
February 1982.

1/2 Mon.

5637S. 1700-1800int/3-f/JMB/
Penumbra / - / Moon. New flags
up at Jarnac 4.

5638E2. 1910-1925/3-f/JMB/
Penumbra/moon / Danny.

5639M3. 0440-0620/11-f/JM4/
Jupiter, Europa.

VSO-I:

- RS Oph 0540 12.1

CN3:

1h 10m E. -

Tues / Wed,
Feb 2/3.

5640M. 0440-0620/10-f/JM4/
Jupiter, Europa/
CN3 1h 05m E. -

Wed / Thu, 3/4.

5641E. ~~5641-46. 2300~~

1900 2000-2100int/7-f/JMB/
-/- painting. General.

5642M2. 0500-0610/10-f/

JMB/ - Jupiter / - Europa

CN3 0h 45m E. -

Thursday, 4/5.

5643 ~~E~~M2. ~~2355-0010~~

0035-0050/7-3-fm/JMB/

JMB/ - Maia / general Moon.

-

5644S. See 3/4, before 5642. 1500-
1700/7-f/JMB/Pegasus, Penumbra/
- / Moon.

5645S. before 5643M2.

- 1500-1540/7-f-windy/
Penumbra / - / Sun.

Friday, 5/6

5646S. 1500-1530/1-f/JM4/
Maintenance. Roof opened.

~~5647E~~ 1900-2 cloudy night

Saturday, 6/7.

5647S. 1300-1700/3-F/FP40
+ Sp | Sun. Spots moving off.

5648E2 2015-2045/3-2-f/
FP40/ Operated scope
for a while so the people
could see the moon with
clouds.

5649M3 0210-0225/3-f/3MB/
penumbra/moon

Sunday, 7/8.

5650S. 1255-1630/7-2-1-f/
FP40 + Sp | Sun.

8 night cloudy.
but...

5651E2 2115-2130/3-2-f/FP40/
~5 others/ opened for a
brief look at the moon.

02 82

Monday, 7/8/9
5652M. ~0100-~0115/7-f/3MB/
penumbra/-/moon.

Tuesday, 8/9/10

cloudy.

Wednesday, 8/10/11

cloudy.

Thursday, 10/11/12

no session.

Friday, 11/12/13.

cloudy.

Sat. 13/14.

5653S. 1100-1145/7-f/FP40 + Sp/
-1 Astro. class / Sun.

5654S2. 1300-1700 int / 7-f / FP40 + Sp |
Sun. Power failure 1310-1340 knocked out sp.

5655 ~~M3~~ EP3. 2300-2310/

8-f/chez Jim and Karen Oliver/
- Jim Karen Oliver, Donald x
Denise Nye - general.

5656 M4. ~ 0100-0130 ~ 110-9-7-fm/
JM4/ Raleigh Crawley/
Jupiter M42, 1, etc.

Sunday, 14/15.

5657 S. 1300-1700 int/10-f/
FP40, Sp. brought back
into line / Sun.

5658 E2. 1730-19: 1900-2130/
7-f / FP40/Mike, Raleigh/
General.

5659 E5. Should be before 5655 EP3/
2030-2045 / 7-f / FP40 / Jim
Scotti.

5660 EM3P. 2350-0030 ~ 17-f.
Moon rising. Driving down
Houghton. Sky brightening.

Monday 15/16. see below 102/82
Tuesday, 16/17. & see below-er.
Wednesday February 17/18.

Ronald D. Zedie
Michael Ferdie - see below.

Mon, 15/16.

5661 M. 0130-0230/10-f / JM4/Jupiter/H
8 M51.

Tues, 16/17.

5662 E. 1900-1940/17-f / JM4 / FP40/
Jep Jim Scotti. M42.

Wednesday, 17/18.

see above for names
of visitors.

5663 E. 2000-2230/8-f 10-f/
JM4, 2/ Ron, Mike F, Darnny
Stowell. / Jupiter Regasus
5664 M2. ~ 0100-0200/10-f / JM2/Pgs / -general
JM4 Star.

Thursday, 18/19.

5665 E. 1830-2200 int/3-10-f / JM4/
Jupiter.

Friday, 19/20.

5666 E. 1900-2100 / 7-f / FP40 / Mike.

5667S. 1110-1130/7-F/FP | Apo 16/Astro class
 5668S2. 1300-1730/7-F/FP40+Sp./Sun.
 Saturday, Feb 20/21

5669EM 2000-0310/10-F/3MB/
 Pegasus, Penumbra, Jupiter
 Io, Europa, Ganymede, Callisto,
 Saturn, M82, 42, NGC2403,
 etc. / Visitors:

- DERALD P. NYE
- Jim Cannon
- Janis Smith
- Cicia Ferguson
- Bonnie Stowell + cast.
- Judy Stowell
- William R. Collings NEWARK CAIF
- Michael Terdie
- Ellye Ruppstein
- Ed Buckman
- Dr. Ed Vega
- Wes Ferguson
- Michael Magee
- Gary A. Hall

SAV ORSC
 ASTR. ASSC.

1 02 82
 Sunday, 17th 21/22.



5670S. 1130-1150/10-3-F/3MB/
 Penumbra | Sims Scotti + Cannon
 Sun: SS2.

5671S2. 13:1245-1730/7-F/3-F/
 FP40+Sp/Sun.

Monday, 22/23.

5672E. 2200-2140-2220/7-F/Gerry's
 place | Mom, Dad, Gerry / General. Spa.

Tues, 23/24.

5673M. 9. 2 1100-1300/8-F/JM/
 Mom, Dad. See next page.

February 23, 1981

team - Daniel Congruent & my parents
wishes from you. Merry you.

DAD & MUM

PRIDE & LOVE

Enjoyed our day with our
dear son David Keith P. Long

Thanks a wonderful morning
to Daddy

Wednesday, 24/25.
hazy, clouds.

Thursday, 25/26

5674M. 0430-0600 / ~~06~~ 10-F /
JMW / Jupiter, etc. Saturn

Venus + CN3 → 11/15 ME!

Friday, 26/27.

5675AE. or 1900-2100 / 7-F / FP.40 /
Mike

5676M2. 0315-0600 / 810-F / JMW /
Jupiter, Europa, Callisto,
CN3 2h 00m

Saturday, 27/28. 02 82

5677S. 1350-1730 /
8-f / ~~5A~~ FP 40 + Sp /
SEA.

5678M2. ~~400 0700-0730~~
0100-0130 / JMF / - /
walk.

Sunday, 28/29

5679S. 131250-1735 / ~~8~~³-F /
FP 40 + Sp / - ~~M~~ Sun.

5680~~4~~^E2. 1700 1900-2100 /
68-f / ~~JMF~~ FP 40.

~~M~~ Rigel.

Barnat

3

2 turns

↪ to 28

1 turn

10

9

↪ to 23

15

Barnat 2

27

34

15

TUCSON OFFICE SUPPLY

WJ-EC20

\$31.64