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Symbols & Abbreviations

A - Aurora

☉ - Sun

☿ - Mercury

♀ - Venus

♁ - Earth

☾ - Moon

♂ - Mars

♁ - Ceres

♃ - Jupiter

♄ - Saturn

♅ - Uranus

♆ - Neptune

♇ - Pluto

E - Echo - my telescope
(3 1/2 inch refl.)

Gen. - General

Const. - Constellation(s)

Obs. - Observation(s)

Sat. - Satellite

g.c. - general constellation
observations

p. power

R - Ranger - 5 p. Refractor
with tripod

app. - approximately

☿ by a planet -
above, indicates
I have observed

* - Something
"new" acco

✳ - A "milestone"
reached.

SS^{plus} number - part of "SuoSp"

- Hyades, Capella, Aldebarran, g.c. Oct. 6
 38E 4, 2, 1, g.c., Alberio, Mizar - Echo - 60p.
 8:40-9:40 MST Oct. 7
- 39E g.c. 7:25-7:55 Oct. 8
 39E2 Oct. 8 - 4, 2, 1, Alberio, Mizar, Capella, Pleiades
 8:35-9:30 Capella seen with faint star nearby.
- 40S Oct 9 - 12:35-12:40 - No spots seen.
 Echo - 60p, (projected on fancy paper ^{so re} _{unreliable})
- 40E Oct 9 - 8:37-9:26 - g.c., 4, 2, Pleiades,
 Alberio, Mizar, Capella - Echo - 60p.
- 41S Oct 10 - 8:22-8:25 - 4 spots seen. ^{Echo} 60p
 41S2 Oct 10 - 1:30-1:37 - 4 spots seen.
 41E Echo - 60p. Oct 10 - 6:10-6:50 - 4, 2, 2, g.c., ^{Mizar} ^{Alberio} ^{Arcturus}
- 42S Oct 11 - 1:35-1:40 - 4 spots. Echo - 60p.
 42E Oct. 11. 8:35-9:27 - Echo 60p, - 4, 2, 2, M-31,
 NGC - 663, Pleiades, Hyades, Aldebarran,
 Alberio, Mizar, Capella.
- 43S Oct. 12 12:37-12:42 - Echo 60p. 5 spots.
 43E Oct. 12 - g. 6:05-6:15 g.c. (Bill Earnshaw)
 43E2 Oct. 12 - g.c. & Echo - 9:03-9:15:.
- 44E Oct. 13 - g.c. & 4, 2, 1, Alberio, Pleiades. 9:43-10:00
 45S Oct. 14 - ~~4~~ 11:23-11:30 - 4 spots Echo 60p
 45E Oct. 14 - g.c. 6:45-7:00.
 46S Oct. 15 - g 6:30-1:35 - 4s, Echo - 60p.
 4 spots - noticed that 4 spots have moved

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on the Sun like children on a merry-go-round.

46E 6:35-6:40 - 2 with Echo 6Op. Oct. 15

47S 12:25-12:33 - No spots (under light cloud) Oct 15

47E Oct. 16 - ~~6:30~~ 5:35-6:10 - 2 for a few minutes. Par. Echo-6Op. ~~the~~ Mostly cloudy.

48S Oct. 17 1:35-1:40 Echo 6Op. ^{clear} 1 spot group

48S2 Oct 17. 5:25-5:45 / Clear / Echo 6Op. / 1 group in centre.

48E Oct 17 5:50-6:00 / Clear / Echo-6Op / 2 as a slim crescent, 2, 2, Alberio, M-31, Arcturus.

48E2 Oct. 17 - 8:45-9:10 / Clear / Echo-6Op / 2, 2, Pleiades, g.c.

49L Oct 18 - 8:25-8:30 / Clear / Echo-6Op & naked eye. ~~F~~

49S Oct 18 ~~12:30~~ 1:30-1:35 / Clear / Echo-6Op
No spots seen.

49E Oct 18 - 5:35-5:40 / Partly Cloudy / Echo-6Op / 2.

49E2 Oct. 18 - ~~5:6~~ 6:35-6:55 / Partly Cloudy / Echo-6Op / 2, Capella.

49E3 Oct. 18, 8:55-9:25 / Partly Cloudy / Echo-6Op. / 2, 2 (Bill Earnshaw) Aurora in the white

50X Oct. 20/62 / 9:30-11:30/Echo-60p / Lunar Observing - No

*50E11 Oct. 20/62 / 6:02-12:15 / Naked eye, ^{Orionid} meteors; (2 ~~7~~ seen by me); also with Echo-60p. Mapped ^{region} ~~obs~~ ^{Pegasi}; saw Pleiades, Clear/g.c.

51SL Oct. 21/62 / 9:20-9:27 / ~~Long~~ Clear Echo-60p / Lunar Obs / No spots seen on Sun.

51E Oct. 21/62 / 6:10-6:20 / ~~gen~~ clear gen. const. obs. (Bill Earnshaw)

*52E Oct 23/62 / 6:08-6:55 / Clear / Echo-60p. 3 ² Alberio, Arcturus, Capella mapped ^{alpha Perse} region; g.c.

52E2 Oct 23/62 / 8:50-9:15 / Clear / Echo-60p - 1 Andromeda Galaxy - What a beautiful sight!

*53E Oct. 25/62 / 7:10-8:45 / Clear / M-31 Mapped Double Cluster + region; ^{Faintest} Pleiades, Hyades; Aldebarran; Mizar. ¹³⁰ ~~130~~ ^{60p}

53E2 Oct 25/62 19:15-9:25 / Clear / g.c.

54E Oct. 26/62 / 2 hr. system: 20:50-21:20 Observed 3 ² M-31, M-45, ~~Hyades~~, NGC - 869 + 884, Mizar, Alberio with Echo-60p.

54M Oct. 27/62 / 04:00 - 04:15 / Clear / g.c. / M-42

with a 5p. Refractor -

55E Oct. 27/62 / 18:30 - 18:37 / Mainly
Cloudy / Echo-6 Op. / γ , Arcturus,
Vega.

55M Oct. 28/62 / 01:20 - 01:50 / Partly
Cloudy / g.c.

56S Oct. 28/62 / 13:35 - 13:40 / Clear / 5p.
Refractor; / β / spot seen.

56E Oct. 28/62 / 17:30 - 18:50 / Clear /
Echo-6 Op. / γ , γ , Mizar, Alberio, M-31,
ngc 869 + 884 / g.c.

56E² Oct. 28/62 / 20:15 - 20:45 / Devoted
entirely to general constellation
observations / Clear

57E Oct 29/62 / ~~12:30~~ 17:30 - 18:30 /
Clear / γ , γ / g.c. / Echo-6 Op.

57E² Oct 29/62 / 20:45 - 21:20 / Clear /
Echo-6 Op. / γ , γ , ngc 869 + 884,
M-31, M-45, Alberio, Altair / David
Finn. / gen. const. obs.

57E² Oct 29/62 / 18:50 - 19:00 / g.c. / Clear

57M Oct. 30/62 / 01:00 - 02:30 / gen.
const. obs. / Clear

58E Oct 30/62 / 17:35 - 18:35 / Clear / Echo-
6 Op. - / γ , γ , Mizar, ALBERIO, FOMALHAUT,

- M-31, M-13, Oct. 30
 58E2 18.55-19.00 / gen. g.c. + obs. IC leor
 58E3 20.40-21.15 / Clear / Echo-6Op. ~~At NGC-~~
 869 ~~2~~ + 884 / g.c.
 58M Oct. 31 / 03:30-04.00 / Clear / g.c.
 59E Oct 31 / ~~16~~: 17:35-17:40 / Clear / ^{Partly Cloudy} g.c.
 \$ Earthshine.
 59E2 Oct 31 / ~~17:3~~ 18:05-18:10 / Mainly
 Cloudy / g.c.
 59E3 Oct. 31 / ~~20:35-20:45~~ / ~~AA~~ Partly
 Cloudy / g.c.
 59E4 Oct. 31 / 22:35-22:40 / Mainly
 Cloudy / g.c.
 *60E Oct. Nov. 2 / 20:35-21.10 / Clear /
 g.c. / Echo-6Op - / γ , η , M-45, Alberio,
 *61E Nov. 3 / 17:30-21:30 / Saw γ for
 first time w/ th Red spots; η ; ζ ; followed
 Echo Sat. for 8 min. with Echo-
 6Op γ ; M-31, Delta Cephei; g.c.;
 Mira / Echo-6Op / Clear.
 62E Nov. 4 / 17:45-18:20 / Echo-6Op.
 Clear / ζ ; η , M-31 / Echo Sat.
 62M Nov. 5 / 03:30-03:40 / Clear / g.c.
 63E Nov. 5 / 10:55-19.00 / Hazy - / g.c.
 63M Nov. 6 / 05:20-05:30 / Clear / gen.

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const. obs. Saw Regulus for
first time. Leo, Leo Minor.

64E Nov. 6 18:35-19:45 - gen. const. obs.
(Bruce Peak) Clear

64E2 Nov. 6 18:45-18:50 - gen. const. obs. ^{clear}

64E3 Nov. 6 20:50-21:30 - Clear / Echo
60p / 3; 7; 6; Capella; Fomalhaut;
M-45; Hyades; Aldebaran;
Vega; Deneb; Altair; Alberio / g.c.

64M Nov. 7 02:45-02:55 / Clear / gen.

const. obs.

65E Nov. 7 21:23-21:38 / Clear / gen.

const. obs.

65M Nov. 8 06:00-06:10 / g.c. - Sirius

and part of Orion ^{gave} ~~was~~ the only
opportunity for unaided observation /
Clear.

66E Nov. 8 20:45-21:30 - Clear /
gen. const. obs. / ~~A in NE NW~~
~~bright white.~~

67E Nov. 9 20:40-20:50 ^{clear} gen.

const. obs. A in NW. bright-white

67M Nov. 10 04:20-04:30 / g.c. Clear /

*68E ^{g.c.} Nov. 10 17:30-21:30 / Clear / g.c.

Echo-60p/ Made an attempt to chart the Milky Way - failed - (Moon too bright) 2, 2, (mapped region around 4); M: 42 (mapped M42 region); Pollux; Castor (No double seen). Neg-869-871

68m Nov. 11 (04:00 - 04:05) / Clear /

69E g.c. Nov. 11 / 17:30 - 18:45 / Clear /

69E2 g.c. (Bill Farnshaw) ^{Moon thrice as big as usual} Nov. 11 (20:25 - 20:50) Clear /

Ranger - 15; (slight detail);

3, with 1 moon; Pleiades;

Hyades; Capella, Saturn, Mizar;

(.) Alberio; (:). (Robert Hope)

70S ^{Nov. 12} 1:30 - 1:45 / Clear / Ranger / spot group / photographed (3 made)

70E Nov. 12 11:30 - 11:35 - g.c. - (was in Hyades; (was very close to Aldebaran.

71E Nov. 13 - 20:50 - 21:30 - naked eye Milky Way plotting to observation (g.c.)

* 71m Nov. 14 - 03:45 - 04:00 / Cloudy but (was visible through cloud /

Observed for first time ☾
with a halo - Radius about 15° ,
thickness of halo about 2 lengths
of Gibbous Moons. A Beautiful
sight.

72E Nov. 14 20:50-21:10 - Partly
Cloudy + extremely hazy - plotted
out Milky Way in relation
to bright stars and constellations
in preparation for Milky Way II - 2nd
attempt to chart Milky Way.

73E Nov. 18 19:30-20:20 Milky
Way Observation, g.c.

74E Nov. 19 ~~19~~ 20:45-21:05 -
Milky Way Observation.

*75E Nov. 20 - ~~19~~ 19:30-19:40 g.c.

*75E Nov. 20 - ~~19~~ 21:05-21:25 -

Milky Way Obs. & Plotting -

Observed for first time

NGC 869 + 884 (very, very faintly)

and M-31 (extremely faintly)

with the NAKED EYE (Vision

20-20 / 1 mistake in each eye)

76E Nov 21 - 20:50-21:10 - Milky
Way Plotting & Observation.

77E Nov. 22 - Milky Way
Plotting + Observation 20:50-21:00

78E Nov. 23 ~~g.c.~~ Clear - 20:55-21:15
g.c. + Milky Way
Plotting + Observation

78m Nov. 24 - Clear - 04:05-04:10 - g.c.

* 79E Nov. 24 - 17:45 - 22:00 -
Successfully charted Milky Way from Aquila to Gemini with Echo-60p. Saw an est. ~~1,000~~ stars, 1,100 stars.

* 80E DECEMBER 2 - 18:30 - 20:40 -
See 79E - HAD TO BE RECHARTED BECAUSE PAPERS WERE STOLEN. Saw Est. ~~1,250~~ stars, 1,380 stars.

81E DECEMBER 5 - 18:30 - 18:35 / g.c. / ^{Deneb Vega Altair} ~~very~~ ^{very} bright

82m DECEMBER 8 / 06:10 - 06:15 / ^{very} Venus bright / g.c. / saw sp. eq.

83E DECEMBER 9 - 21:30 - 21:35 / Clear / g.c.

84m DECEMBER 14 / 07:05 - 07:10 / 9 obs. with naked eye (MORNING DAY) Clear

85E DECEMBER 15 / 18:25 - 20:00 / Clear / (Hazy (slightly) at first) / GEMINIDS - Observed

alone - seen by me.

85E2 DEC. 15 (21:50-21:55) Clear/g.c.
 *86SL DEC: 21 (07:50-08:00) Observed
 Sun, Moon & Venus together
 for first time. ~~500~~ ip^{cs}

♀ fairly faint
 87M 06:35-06:40 - Clear/ DEC: 23/ photo-
 graphed Venus + Luna (☾) pictures
 did not come out.

87S^h DEC. 23/ Slight Haze in Observing
 Area (Where ♀ should be) 11:55-12:18 Attempted
 to Spot ♀. Failed. (Venus I)

88E DEC. 25/ Clear/ 19:40-19:50/g.c.
 from a car window - beautiful (noticed
 Taurus, Auriga, & Orion.

88E2 Dec. 25/ Hazy 22:30-22:40/g.c.
 from inside (Noticed Ursa Major +
 Leo, Sirius (Canis Major).

*89E Dec. 26/ Partly Cloudy 18:00-19:15/
 Successfully charted the Pleiades
 (M-45) Star Cluster. App. 75 stars
 charted.

☉ 90E Dec 27/ 17:15-17:25/ Observed for
 first time Mercury (♀). Fairly luminous.
 A definite milestone in my life.

*90E2

Dec. 27 / 18:10 - 19:30 / ~~Clear~~
partly cloudy then clear

*91E

Charted Hyades -
Dec. 29 / 18:00 - 19:30 /
Clear - ~~viewed~~ ^{something new} ingress of a
star behind the moon (at 18:44:15)

- Moon set before egress. Observed
Luna, γ , mapped M-35 in
Gemini, observed Castor, Pollux,
M-42, Sirius, + Procyon; M-45 -

*92E

Dec 30 - 17:30 - 18:30 / Clear
Observed γ with Echo-60p. -
gave faint impression as being
between C & D. Also saw γ , β , &
C.

92E2

Dec 30 / 17:22:30 - 22:40 / Clear
Obs. of Regulus through a
closed window.

93E

Dec. 31 - End of year & summary
Session - ~~observed~~ Clear / 16:00 -
20:40 / Observed β , Deneb M-45,
Hyades, Capella, Sirius, Procyon, *
Orion Nebula, Double Cluster in
Perseus, and finally, the Andromeda
Galaxy with M-32.

156 sessions so far 1962 -
144 sessions

1963

- 93M JANUARY 4 / 00:15-00:20 / g.c. / Clear.
- 94E JANUARY 4 / 17:30-18:30 / Clear /
Echo-60p / Observed γ , η , ζ ,
& ϵ , Capella, ~~M-42~~, Vega,
Mizar, Albero, GC 869+884,
M-31 (Louis Thomas; Terry Baker)
- 95E JANUARY 2 / 17:25-18:20 /
Clear / Echo-60p (5+60p for M-45)
Observed γ , η , ζ , ϵ , M-42, M-31,
M-45. (Louis Thomas; Terry Baker)
- 96E JANUARY 5 / 18:00-18:30 / Clear /
Echo-60p - γ , η , ζ , ϵ (L. Thomas, T. Baker)
- 96E2 JANUARY 5 / 23:15-23:20 / g.c. / Clear
- 97E JANUARY 6 / 18:00-18:30 / Clear / Echo-
60p. / ϵ saw 5 craters. (L. Thomas)
- 98E JANUARY 8 / 17:30-18:55 /
Clear / Echo-60p - / ϵ / Saw
2 craters (new to me) & a mount-
ain range (T. Baker, ~~L. Thomas~~)
- 99E January 9 / 17:30-18:15 / ~~Clear~~
Partly cloudy / Echo-60p / Lunar
Observations... 1 crater (new to me).
(T. Baker, L. Thomas)
- 00E JANUARY 11 / 18:35-18:40 / -

Remineral
dunas
Eclipse
atend.
"Letter I"

~~g.c. - 20 - 190°F~~ ^{Hazy} temperature

Here by we adopt a new system of numbering sessions. No number will be repeated twice.

165 Sessions so far

~~165E2~~ → JANUARY 11 / 20:30-2:43)
100E2 Hazy / Echo-60p / Lunar
Observing / Temp. -19°F /
T. Baker, L. Thomas /

Note. Lettering & additional numbering (165E2) will continue to follow the same procedure.

166E JANUARY 12/62 / 18:30-18:45 /
Temp. -10°F / M-42, 4, Castor,
Echo-60p. / T. Baker; L.
Thomas /

167E2 JANUARY 12 / 19:45-20:00 /

Clear / g.c. for 15 minutes.
For a few minutes - obs. of Beta
Ursae Minoris from inside. I was
outside for about 12 minutes
for of the session - Temp. ~~not~~.

168SS1 JANUARY 13 / 15:50-16:10 / Mainly

Cloudy but Clear as a
bell where Sol was. Observed
to 2 spots in Apparent "top" ^{section} of
Sun. Thus I started several
years work on "spot collecting"
in "Sunspot I". The way that
the Sun peeped out after hiding it-
self for two "touch-&-go" hours
really gave me a good feeling.

169E JANUARY 14 / 17:30-18:00 / Clear -

Cold - Echo - 60p. - / 2, M-42,
Procyon. / Naked Eye - Echo I.

170E JANUARY 15 / 18:00-18:20 /
~~Clear~~ ^{partly cloudy} Echo - 60p / 2, M-42,
A Terry Baker - Louis Thomas -
Paul Miller.

171E2 JANUARY 15 / 18:35-18:40 / Clear
Ranger / 2, Sirius, Vega.

- 172 E 18:25-18:35 Jan. 16 / Partly
Cloudy / Echo-6Op / ♀, Capella.
- 173 E Jan. 19 / ~~16:3~~ 17:30-17:55 /
Clear / Echo-6Op. / Obs. of
♀ with 4 moons.
- 174 E2 JAN 19 / 1963 / 19:10-19:35 /
PARTLY Cloudy / Echo-6Op /
Obs. (Procyon + 3 (orally about
1 mn. total) + ♀. ☉ - what I
saw - Compare with picture
(10 October hours etc.) p. 203
of Larousse Ency. of Astronomy.
- 175 E3 1/19/63 / 19:50-20:00 / - Observed
♀ with Echo-6Op through
a closed window, L. Thomas,
Jim Boler.
- 176 E4 - 1/19/63 / 20:35-20:50 / Partly
Cloudy - Echo-6Op / ♂ + g.c.
- 177 S2 1/20 / ~~20~~ 08:20-08:35 - ~~121~~
Spot seen in limb.
- 178 SL Jan. 21 / 07:25-07:30 / Naked eye /
Observed ☉, ☾, + ♀. ☉ had just
risen at the time.
- 179 S Jan. 21 / 13:25-13:50 / Attempted
to see ♀. Failed. (Venus II)

180E-J1 Jan. 21 / ~~18~~ 17:55-18:50 / Very clear - Echo - 60p. / Launched "Jupiter I" - an attempt to pick up the motions of the Moons of J. I might have spotted the G.R.S. & a shadow of one of the moons but as the wind was too great in velocity, I cannot confirm these.

A session marked with an **I** ^{and a} number after the E - indicates that this is a session of "Jupiter I"

181E-J2 Jan. 23 / 17:45-18:10 / Clear / Echo - 60p / Only saw J this time.

182E-J3 Jan. 24 / 17:40-17:55 / got record on J. Saw 4 moons & band & possibly the Great Red Spot. / Clear / Echo - 60p. / L. Thomas & T. Baker.

183E-J4 January 24 / 20:00-20:05 approx. / Mainly cloudy but got a glimpse of Orion. / C.T. the Chamberlain Observatory through the dome of the

2.0-inch refractor.

~~184E-J4~~ ~~Observed~~ Jan. 25 / 18:10-18:20

Cloudy with Hazy periods
Echo-60 pl. "off ton"
Session - very cold
got only one moon ^{084.1} A.

~~185E~~

185E-J5 JAN. 26 - 18:00 - 18:15 /

Observed C + 2. (saw all
4 moons.)

186 S - Jan. 27 - / 08:20 - 08:25 /

Clear / Tried on the
Sun for Sunspots but
the telescope was so
loose & the mirrors &
eyepiece so dirty I
gave up.

187 SS3 JAN. 27 / 11:00 - 11:15 /

Clear / Echo 60p / Cleaned
lense & mirrors with a lens
cleaner before observing.

²/₃ No spots seen

188E-J6 Jan. 28 / 18:00 - 18:25 / Echo 60p. /

Saw C + 2 - 3 moons.

189E-J7 Jan. 28 / 17:40 - 17:55 / Clear /

Echo-60p / Saw 4 moons

(one quite far from ζ)

190E-J8 / 17:55 - 18:15 - Jan. 29 / Partly
Cloudy / Echo-60p / Saw ζ with
its 4 moons.

191E2 Jan. 29 / 18:20-18:30 / Partly
Cloudy / Echo-60p / saw ζ , ϵ , M42?

192E-J9 Jan. 30 / ~~17:55~~ 17:40-18:15 /
Observed ϵ + 4.

193E2 Jan. 30 / ~~21:20~~ 21:20-21:35 / Clear /
Echo-60p + Ranger / Observed ϵ
 ϵ through a closed window.
Appeared hazy but I made out
some major Lunar features.

194E-J10 Jan. 31 / 17:50-18:45 / Partly
Cloudy + very windy / ~~Obs~~ Echo-
60p / ϵ , ζ , Sirius, δ . (L. Thomas, T. Baker, J. Klop-
per. Partly Cloudy)

195E-J11 ~~JAN~~ FEB. 1 / 17:45-18:05 / ζ
Saw only 3 moons / Echo-60p.

196E-J12 ~~FEB~~ FEB. 1 / ~~19:15~~ 19:30-20:25 / ~~Obs~~
~~Clear~~ Clear / Echo-60p / Observed M42,
 ϵ , Regulus, Mizar, δ .

197L February 2 / ~~16:30~~ 16:30-16:35 / Clear / Echo-
60p + 80p / Test session for an 80p. eyepiece.
Observed ϵ .

*198E-J12 17:30-20:45 - / Clear /
Echo - 60 + 80p / Ranger; 2-in 80p-
Reflector 3 (saw 4 moons) C,
+ P. Saw ♂ in opposition
for the first time. Most
of this session was devoted
to Mars.

199SS4 3/2 10:55-11:12 / Partly
Cloudy / One group of 6 spots
200SL 3/16 16:00-16:15 / Partly Cloudy
Naked Eye / Observed ☉ behind
clouds & ☾, not behind clouds.
Observed through a closed
window.

201E 3/16 17:30-18:17 17:45 /
Partly Cloudy / Echo - 60p /
Observed ☾

202E 3/17 17:45-18:08 Feb. 3. /
Cloudy / Echo - 60p. / ☾ & ☽

203E-3-JB 3/18 Feb. 3 / 18:30-18:47 /
Partly Cloudy / ☽ & ☾

*204E-J14 4/2/68 18:25-19:05 / Clear
(Verg) / Echo - 60p / ☽ - 4 moons;
♂ + ☾. Saw the Straight
Wall on ☾ for first time.

205E-J15 5/2/18:06-18:35 - / Mainly
 Cloudy to Partly Cloudy / Echo
 60p. γ , δ (4 moons) (ϵ & 1 star
 nearby (κ + an other gear + that) ~~only~~
~~recorded one however~~ (see γ 's
 record), Deneb, Iau Cygni,
 C (Very, Very hazy - only
 made out a few features.

206E-J16 Feb: 6/63 / Very Clear -
 High gibbous Moon / γ -
 4 moons, C & δ .

207E-J17 Feb. 7/63 / Hazy / γ (3 moons)
 C & δ / # 17:20-17:45, Echo 60p

*208M Feb. 8/63 / 01:15-01:20 / Partly
 to Mainly Cloudy / Naked eye /
 Orion, \downarrow C with a halo. This is
 a "Star" session.

209E-J18 Observed 18:00-18:09 / Clear
 Feb. 8/63 - Saw γ with δ moons. Echo 60p.

*210E2 Feb. 8 / 19:55-20:30 / Clear /
 20 in. Refractor δ - (at Chamberlain
 Observatory) 250p / saw M-42
 C (Man, "what a sight") + δ .

211E-J19 Feb. 11 / 18:02-18:18 / Clear / Echo-
 60p. γ (4 moons); δ First 5 minutes -

212SS5 γ through a closed window,
Feb. 12/1962/ @ 13:44-13:49/

Clear/ Echo-60p/ 1 spot,
213E-J20 Feb. 12 / 17:50-18:00/

Clear/ ~~E~~ Echo-60p/ 3(4
moons) +

214E-J21 Feb. 13 / 17:55-18:05/

Clear/ Echo-60p/ 3 (with
4 moons)

215E Feb 14 / 18:30-18:50/ γ -

very hazy/ Echo-60p/ 3-
NO moons.

216S Feb. 16 / 16:10-16:15/ ~~R~~ Clear/
Ranger/ \odot . No spots seen.

217E-J22 Feb. 16 / ~~16~~ 18:05-18:20/ Clear/

Ranger (first five minutes through
a closed window) + Echo-60p. 1

γ (No moons or markings
with Ranger— but 4 moons
+ markings with Echo. δ)

- 218E2 Feb. 16 / 18:30 - 18:35 / (Clear)
Echo - 60p / γ + through a
closed window. Blurred.
- 219SS6 Feb. 17 / 08:30 - 08:40 / Clear /
Echo - ~~to~~ 60p. / γ 1 spot.
- 220E Feb. 17 / 19:00 - 20:00 / Partly
Cloudy / Echo - 60p. / Observed
M-42, δ ; attempted to
see Crap Nebula - failed.
- 221E-523 Feb. 19 / ~~18~~ 18:30 - 18:45 / Partly
Cloudy / Echo - 60p / γ with
only 2 moons.
- 222E- Feb. 20 / 21:55 - 23:00 / Partly Cloudy
~~Echo 60p~~ / Naked Eye / γ . C. Boundary
Not #
- 223E Feb. 21 / 18:45 - 19:00 / (Clear)
Echo - 60p / γ - too low in
sky to get any moons.
- 224E2 Feb. 21 / 22:10 - 22:15 / Clear /
Naked Eye / Echo γ . C - δ .
- 225E3 Feb. 21 / 22:25 - 22:30 / Clear /
Naked Eye / γ . C. (saw Path - DE)
- *226E-524 Feb. 23 / 63 / 17:55 - 20:45 / (Clear)
Passing Clouds / Echo - 60p. / ~~Not~~ saw
2 moons on γ . ~~For~~ Sirius - failed to
spot ~~the~~ M-1 - mapped M-4, failed to

Spot M-3 - ~~8~~
227SS7 Feb. 24 / 08:05-08:18 /
Clear / Echo-6 Op / 50 spots

*228EJ25 ^{seen.} Feb. 24 / 18:08-18:30 / Echo-6 Op /
Partly Cloudy / 2 with two
moons. Jupiter I is
successful

229EJ26 Feb. 25 / 18:08-18:30 /
Clear / Echo-6 Op. / Saw 2 with
3 moons

*230EJ27 - Feb. 27 / 18:10-18:30 /
Clear & a bit windy - / Echo-
6 Op / 3 with, ~~alt~~ with
difficulty, one moon. This
is the last session for
Jupiter I, an impressively
successful mission.

*231SS8 March 5 / 08:10-08:20 / Clear / Echo-6 Op /
Got a reading & mapping
on SSI, 1 spot.

232E March 5 / 18:25-18:40 /
Partly Cloudy / Echo-6 Op /
C, Sirius (Naked Eye)

*233E March 6 / 18:20-19:00 / Clear /
 Echo-6 Op / Observed α ,
 δ , Castor, Pollux, Sirius
 Procyon, Lambda Orionis,
 Saiph, Capella, Nath,
 Rigel, Betelgeuse, + Bellatrix
 + mapped Orsa Major + Minor
 Region, which includes,
 Alkaid, Mizar, Alcor, Alloth,
 Sheeda, Merak, 'Dubhe', Megrez,
 Polaris, Pherkad + Kochab.
 Also Observed Delta Orionis,
 Epsilon Orionis, and
 Zeta Orionis.

*234E March 7 / 20:35-21:00 /
 Partly Cloudy / Echo 6 Op /
 mapped Orion Region -
 includes Saiph, Rigel,
 Betelgeuse, Bellatrix,
 M-42, Orion's B, B₁, H.
 3 stars, Epsilon, Delta, + Zeta
 Orionis, and Lambda Orionis.

235E March 9 / 20:30-20:50 /
 Clear / Echo 6 Op / Mizar, Alcor, +
 α , δ , M-42, Sirius, M-45, Saiph,

Pollux & Castor (Bela Shreiber)
236557 March 10/63 - 10:40 -
10:50 / Echo - 60p / Clear / No
spots seen

*237501 March 10/63 / 18:40 - 18:45 /
First session for "Sol I"

238E March 10/63 / 21:00 - 21:05 /
Clear / ~~Naked~~ Eye through a
closed window / Arcturus

2395510 March 17/63 / 10:35 - 10:45 /
Clear / Echo - 60p / Observed
one spot.

240E March 20/63 / 22:30 - 22:35 /
Clear / Naked Eye / Echo - ~~60p~~
f.c. - Milky Way plotting.

*241E March 21/63 - 19:20 - 19:05 -
~~clear~~ / Naked Eye / Gen. D
Rabbi Chaim Davidovitch

242E March 21/63 / 21:05 - 21:10 /
Clear / Naked Eye / Gen.
Cont. Obs. - Echo Sat.

243E March 23 - 13:30 -
13:38 / Syncom - 80p / Sol -
1 spot seen.

*244E March 23 / 19:00 - 21:40 /

M-42, North Sirius, Mizour.

251SS 2) March 31 - 63 / 11:16-11:22 /
Clear ^{relatively} where I always / Echo - 60p /

*250SL March 30 / 14:45 - 15:40 /
Observed + charted two spots

Clear / Echo - 60p - Syncom
80p / Compared O+C in
both instruments

*252E March 31 / 20:30 - 21:30 / Echo
no star 21114
~~Successfully charted~~

*253E ~~M-67~~ in Cancer. Failed at M-67.

March 31 April 4 / 21:00 -
21:35 / Very hazy + Partly Cloudy
in places / Beautiful triple
Halo

254SS 3) April 5 - / 21:10 - 8:15 /
Clear

255SS 3) April 6 / 10:05 - 10:10 / Partly
Cloudy / Echo - 60p / 2 spots

256E April 8 - / 9:00 - 10:00 / Clear /
Naked Eye / g.c. / Daddy

257E April 9 / 9:30 - 10:00 / Clear - /
Dad / Clear

258E April 10 - / 9:00 - 10:00 / Clear /
SC / Naked Eye / Gerry - Dad

- 259S April 11/13:30-13:40/
Clear/Kit Peak Solar
Telescope/ Saw Sol on
secondary mirror
- 260B April 11/ 9:30-10:15 g.c./
Clear/ Gerry/ Pop
- 261E April 12/ 20:25-20:35/ Clear/
g.c./ Gerry
- 262E April 12/ 8:50-9:08- / Clear/
g.c./ Gerry
- 263E April 13/ ~~8:21-10:21:40~~
21:10-21:40/ Clear (very)/
David Schreiber - Gerry / g.c. -
Echo I sat, t observed for
first time "mystery
object" - star cluster
shape
- 264E April 14/ ~~22:07-22:15~~
Clear/ Naked eye / g.c. -
saw mystery object again.
- 265S [14] ~~April 14~~ April 14/ 08:20-08:25/
Clear/ Echo-60p/ 2 spots in one
group
- 266E April 19. / 19:45-20:30/ Clear/
Echo-60p / Examined mystery cluster
Beautiful!

267E April 20 - / 19:55 - 2:00 / Clear /

~~Beho bdp / Naked eye / gen.~~
268SS April 21 / 13:35 - 13:50 / Partly

Cloudy / - O spots
269SO April 22 / 18:10 - 18:15 / ~~Partly~~

Clear / ~~Partly~~
270E April 22 / 19:31 - 19:36 - / Clear /
Naked eye / gen. const.
obs. — concentrated on
Bluish-white Rigel.

Here, another session, 271E, is
found to exist. For accuracy's
sake, therefore, there is no
such session as 271.

272E2 April 22 / ~~19:30~~ - 20:45 - 21:15 - /
Mainly cloudy (see diary) - /
Naked eye / saw one independent
meteor. I attempted to
observe ~~Lyrids~~. Lyrids.

273E April 24 / 20:15 - 20:50 /
~~mainly cloudy~~ / Attempted to observe
Lyrids. Note seen.

*274E April 27 / 19:15 - 20:20 /
Partly Cloudy / Syncom-8 Op + 113 pl /
Observed Luna, ~~Rigel~~ Betelgeuse

Series/ Robert Rubiowski + ... Robert Colton / Dr. Chai

275E2 April 27 / 21:38 - 21:43 / Partly Cloudy / Syncom - 80 + 115p / Luna / Louie Thomas /

276E3 April 27 / 22:03 - 22:10 / Clear / ~~Eager Echo~~ / Syncom - 80 + 115p / Luna / Louis Thomas + Leonard Reed / Brooks Johnson - Doug Smith - Jim Dardis /

277SH April 28 / 14:15 - 14:20 / Partly Cloudy - Echo - 60p / 0 spots

278SL April 28 / 14:35 - 16:00 / Partly Cloudy / Syncom - 80 + 115p / etc - both powers.

279E April 30 / 21:00 - 21:23 / Clear / Syncom - 80 + 115p / C, Mizart + Alcor, ♂ (very close to C) / Rabbi Chaim Davidovitch, Don Ortiz, Bob Kristoff, Leonard Reed, B. II Earsnow.

280E May 2 / 18:50 - 18:55 / Clear / Syncom - 80 + 115p / C

281E2 May 2 / 20:30 - 21:35 / Clear / Syncom - 80 + 115p / C, ♂, Mizart fiber

- 282E May 3 / 19:30 - 20:25 / Clear / Syncom
80H15p / Observed ♂, ♀, Castor,
Mizar-Aleo.
- 283E May 4 / 19:30 - 21:50 / Partly to
Mainly Cloudy / Syncom - 80p /
♂, ♀ / Attempted to spot Uranus -
Failed - " " " Crab Nebula -
" "
- 284SS17 May 5 / 11:20 - 11:33 / Clear / Echo-
60p / 2 spots - (1 group), clear
- 285S05 May 5 / 18:11 - 18:19:30 / Shortest
~~se~~ recorded session so far
-
- 286E May 9 - / 21:00 - 21:35 / Clear /
Syncom - 115p / Attempted
to spot CRAB NEBULA -
Failed - Failed to spot ♂
- 287E May 11 / 20:00 - 21:30 / Clear /
Syncom 115p / Observed
Uranus (♂) for first time
- 288M May 12 / 0:20 - 02:40 / Hazy ^{windy}
Syncom - 115p / CA - Naked
Eye Obs of Antares
for first time.
- 289S18 May 12 / 21:32 - 11:37 / Clear /

- 290E Echo-60 p / 1 spot seen
May 16 / 20:45-20:50 /
Partly Cloudy / Naked
Eye g d.
- 291E May 18 / 20:00-20:45 / Main-
ly Cloudy / ~~Eye~~ Syncom - 60 p /
Nothing (Postp'd DEPTUNE I) /
~~Eye~~ / g d.
- 292SSH May 19 / 16:25-16:35 / Partly
Cloudy / Echo-60 p / 6 spots
- 293SS6 May 20 / 18:31-18:32 / Clear /
- 294SS20 May 26 / 08:12-08:17 / Partly Cloudy /
Echo-60 p / 0 spots seen
- 295E ~~May~~ June 1 / 20:00-21:30 /
et mainly Cloudy / Syncom
-80p / ~~Eye~~ / ~~A.E.~~ / ~~M~~
Naked Eye ^{saw} Mars near
Regulus, Louie Thomas, David Finn, Mr. J. Crooks Gene
See
Mn.
Aprk
- 296E June 2 / 18:35-18:55 / Partly
Cloudy / Syncom - 115 p -
(Practice session to test
telescope)
- 297M June 3 / 02:20-03:05 / Partly
Cloudy - Syncom - 160 p /
Nothing (16th Postponement)

Neptune, I) - Naked
eye - gen. const. abs.

298SS21) June 3 / 08:16 - 08:17 /

Clear / Echo-60p / No spots

299507) June 3 / 19:04:30 - 19:05 /

Clear / ~~Syncom~~ 115 NE-
V Sol Session.

300E) June 3 / 18:30 - 18:50 /
Clear / Syncom 7 / 115p /

@ - test session for Syncom

301E2) June 3 / 20:10 - 21:30 / Clear /

Syncom - ~~115~~ 115p / Found

302E) Neptune

June 4 / 20:20 - 21:30 / Clear /

Hanger - Echo-60p (or binder
separate) / Syncom - 80 + 115p /
~~seen for first time - Vesta,~~

apparently / Doug Makenzie

303SS21) June 7 / 20:30 - 22:00 / Clear /

303E) Syncom - 80 + 115p / Gen.
const. abs (NE) - C + D;

sweeping

304SS22) June 9 / ~~10:45 - 10:50~~ 10:45 - 10:50 /

Clear / Echo-60p / 7 spots

305E) See n.

June 10 / 20:30 - 20:35 /

- 306E Clear / gen. const. obs.
June 11 / 20:25 - 20:30 / Almost
clear / gen. const. obs.
- 307M June 13 / 02:55 - 03:04 / Clear /
Ranger - 5p / Arcturus - Mizar
A clear / Closed Window session
- 308M2 June 13 / 03:15 - 03:27 / Clear /
Ranger / Arcturus (observed it
setting) - Alkaid, Mizar Alcor,
Alioth, Phecda, Merak, Dubhe
Megrez, - (observed Arcturus setting
over a rooftop)
- 309E June 13 / ~~20:5~~ 21:15 - 21:50 /
clear / Syncom - Ranger /
Denebola with Ranger -
nothing with Syncom.
- 30S June 14 / 10:30 - 11:00 /
Partly Cloudy & hazy /
Syncom - ~~pop~~ / O through
haze.
- 31KS23 June 17 / 18:13 - 18:23 / Partly
cloudy / Echo - 60p / 1 spot.
- 312508 June 17 / 18:59 - 19:07 / Partly
cloudy / E
- 313E June 17 / 21:00 - 21:15 / H --- session.

Brake Syncom's main [Red
mirror. Whew. Clear
314E June 18 / 20:45 - 21:15 /
Clear / Syncom - 8p /
Vega - Denebola (found
that I did NO, see Vesta
in session ~~302~~ 302E)
~~Vega~~ Deneb, Altair,
Antares (Syncom now

315E almost 90% / Sweeping
June 19 / 20:35 - 21:45
Clear / Syncom - 8p /
Vega, Deneb, Altair,
Polaris / Sweeping

**SUMMER
OF 1963**

316E June 26 / 17:30 - 17:35 /
~~Clear~~ partly cloudy + drizzling
2 spot / Steve Peles

317E June 27 / 20:00 - 21:00 /
~~Clear~~ / Partly to mainly
cloudy / Syncom - 8p /
Vega, Deneb,
Alberio

318E June 28 / 20:35 - 21:50 / Clear /
Syncom - 8p / Sweeping thru of
Mars / Antares - Steve Peles

319E June 29 / 20:55-21:55 / Clear
Syncom - 80p / NEPTUNE,

320SS June 30 / 08:18-08:20 / Clear
Mars, Luna, Polaris / Sweeping,
Syncom Echo - 60p / 0 spots.

321SOA June 30 / 07:18:51-18:58 / Clear

322E June 30 / 20:15-20:30 -
Clear / Syncom - 80p / ♂,

323E NEPTUNE / 20:40-21:25 /
Clear / Syncom - 80p / ♂, ♀,
Polaris.

324E July 4 / 20:40-21:00 / Mainly
Cloudy / Syncom - 80p / ♂, ♀ / Bp
Colton.

325E July 6 / 22:40-22:46 -
Partly Cloudy / Syncom - 80p /
♂, Arcturus

326SS26 July 6 / 11:08-11:05 / Clear / Echo - 0p / 2 spots

327E July 9 / 20:35-21:25 / Partly
Cloudy / ♂, Antares, Alberca,
Polaris.

328E July 12 / 20:35-21:55 / Clear
Syncom - 80p - Ranger / ♂, ♀ / Tot.

~~215/15 failed to spot M 27~~

329E July 13 / 19:30-21:00 - clear /
Syncom - 80p / 0 + 6.

330E July 13 / 20:35-21:35 /
clear / Syncom - 80p / 3, Antares,
failed to spot M 280.

331S27 July 14 / ~~20:20~~ 20:40-21:10 /
Clear / Echo - 60p / 0 spots

331S July 14 / 13:30-13:40 /
Partly Cloudy / Echo - 60p /
No spots - haze or clouds
usually fouged 0.

333S10 July 14 / 18:50-19:50:10 /
Mainly Cloudy / \$ —

*334E July 14 / 20:20-21:15 / Mainly
then partly cloudy / Syncom,
80p / 2, Regulus, M 280

335E July 16 / 20:35-20:45 /
Mainly ~~cloudy~~ Cloudy /
Syncom - 80p / Gen. Const.

336S28 July 17 / Clear / Echo - 60p /
Sun - 0 spots.

337E July 17 / Clear / Naked Eye /
g.c.

EST

3385

July 20 / Partly to Mainly Cloudy 14:00 - ~~15~~ 17:35 Binger Ranger / Total Eclipse of the Sun. / Patched clouds until totality; then clouded over. First contact, Second & Third contacts - Recorded. Clouds prevented obtaining of Fourth contact.

Totality was simply beautiful. Most of program fulfilled. Daddy, Mother, Paul Astrof / Observed at Lake William, Roebec.

339E

July 21 / Clear / ~~14~~ 20:00 - 20:05 / G.C.

340E

July 22 / Clear / Ranger / Altair / 20:30 - 21:30 / Paul Astrof

* 341M

July 26 / Clear / 02:00 EDT 04:15 / Ranger - γ , γ , Fomalhaut / Naked Eye - Observed Delta 2 Aquarids. A grand 3 meteors seen. Session

EDT

however was enjoyed.

342E

July 26 / Clear / Ranger / Lunar / g.c / ~~20:30 - 2~~ 22:00 - 23:22:45

-A

Numbering Mistake see ~~last~~ ^{pages}

EDT
EDT

Pool Astrof.

343EA July 27/20: 21:55-22:05 /
6 in. refractor - RASC / Luna.

344E2A July 27 / 22:30-23:00 /
MST Clear / g.c. / — Paul Astrof.

345EA July 27 / ~~20~~ 20:30-
20:35 / Naked Eye

MST Luna July 31

~~346E2A Aug 5 / 10:30-10:35 / clear~~

~~ERRATUS~~ / ~~347E2A~~ Mainly Cloudy / B Echo-bld
1-2 spots.

342SS30B Aug 1 / 10:30-10:35 /

Mainly Cloudy / O spots

343S011-B Aug 7/18: 18:45? / Mainly ~~to~~

*344E-B Aug 10 / 20:00-21:20 /

Partly Cloudy / Symom-

8 O p / So Saturn - M-7-

ML-6 - mapped both

clusters. Also observed

Titan with 2

345S92-B Aug 12 / 18:15-18:17 /

clear Mainly Cloudy / Robert

*348E-B Aug 12 / ~~20~~ 17:50-19:19:50-

Col for.

YST

20:21:50 - M-8 + ~~A~~ Saturn.
Syncom - 80p / Saw 2
Perseids, Arcturus, Antares

347531 August 13 / 14:35 - 14:40
Mainly Cloudy / Syncom -
80p - (20p. increased +
change in telescope) / O spots
seen.

*348AN August 13-14 / 19:40 - 03:44
Clear / Syncom - 80p + Binoculars
Naked Eye / Observed the
Perseids, 54 meteors seen
by me. / Also saw ~~M-8~~ ^{milky way}
~~M-17~~, M-18, M-22, M-24, M-25,
~~M-41~~ (e.g. ~~4~~ h,
Titan; M-13^{mol.} Longest Session
to date.

349E August 14 / 19:55 - 20:10 /
Clear / Syncom - 80p /
Saturn.

*350E August 15 / 20:05 - 20:35 /
Clear / Binoculars / M-13,
M-5.

*351E Aug 16 / 20:55 - 21:00 / Partly
Cloudy / ~~Naked Eye~~ / Arcturus
Binoculars

#352E Aug. 18 / ~~19~~ 19:50 - 21:05 / Clear /
Syncom 80p / Binoculars /
~~M-57~~ Mapped Milky
Way in MILKY WAY
V from Aquila to
Scorpius. All ~~the~~ Northern
Milky Way is mapped now.

#353E Aug. 19 / 20:40 - 20:55 / Clear /
M-39.

354E Aug. 20 / 20:35 - 20:40 / Partly Cloudy /
Binocs / g.c.

355E August 21 / 19:40 - 20:00 /
Mainly Cloudy / Binocs - Syncom
- 80p / Test session.

356E August 22 / 20:05 - 20:15 /
~~Clear~~ Mainly Cloudy / g.c.

357E Aug. 23 / 20:15 - 20:35 /
Mainly Cloudy / g.c. - Test
Session / Syncom - 80p

358E August 24 / 20:20 - 20:50 /
Partly - Mainly Cloudy - Syncom -
80p / Altair - Luna / Test
session

359E August 25 / 08:15 - 08:35 / Syncom
80p / O spots. Last week we obviously
observed but forgot to
for some other reason
didn't record the session.

- 360 E ~~mainly cloudy~~ August 25 / 23:00 - 23:05 /
~~clear~~ g.c.
- 361 E August 27 / 21:05 - 21:10 /
 Clear / g.c.
- *362 E August 28 / 19:40 - 20:50 /
 clear / Binocs - Syncom - 80p
~~m-11 - m-27 for First time -~~
 m-25 - m-24 - m-39 - m-5 -
 m-31 - gen. const. obs.
 Ring Nebula (m-5) - Luna
- 363 ~~SS31~~ August 28 / 16:40 - 16:50 /
 Mainly Cloudy / 1 spot (see 359
 SS32)
- 364 ~~SS13~~ Aug 29 / 18:00 - 18:08 /
~~clear~~ Partly Cloudy
- 365 E August 29 / 19:20 + 20:25 /
 Clear / Syncom - 80p / Luna, (C),
 Saturn, (R), Arcturus
- 366 E August 30 / 18:30 - 21:08 /
 Mainly Cloudy / Echo - 66p
 syncom - 80p / ~~Luna~~ Luna
 Arcturus. ← stray meteor
- 367 E August 31 / 19:40 - 20:30 /
 Partly to Mainly Cloudy /
 Luna, Saturn.

#362M September 1/10 2:0-03:30 / Clear /
Syncom - 80p / Crab Nebula;
(Spotted it for first time) M-39
(mapped) - ϵ , ζ , Castor. / Binocs /
M-34, Pleiades, Hyades M-42.
~~Binocs~~ see Double Clusters
page 244

↓ September 1 / 08:15-08:20 / Clear /
369SS Echo - 60p / O spots seen.

370E Sept. 1 / ~~08:15-08:20~~ 19:00-19:15 /
Clear / ~~Syncom~~ Echo - 60p / C, η

371E Sept. 1 / ~~08:15-08:20~~ 20:08-20:10 -
Clear / g.c.

372E September 2 / 20:00-20:05 /
Partly Cloudy / g.c. / John
bevy

373E September 3 / 19:35-19:20 /
Clear / g.c. / Pat Patla

374E Sept. 3 / 19:30-20:35 / Clear /
Syncom - 80p / Echo - 60p /
C, Saturn / Pat Patla

375E Sept. 3 / 20:55-21:00 / Clear /

376 Sept. 4 / ~~20:55~~ 15:40-15:50 / Clear / Test
Session / Sol. / Syncom - Echo / (60+80p) /

37252 Sept. 4 / 13: 05-16:10 / Clear /
Echo-60p / Syncom-80p / Sol /
test session

378E Sept. 4 / 21:08-21:05 / Mainly
Cloudy / g.c. / Pat Pat 12

*379M Sept. 5 / 02:15-03:45 / Clear /
Syncom-80p - Echo-60p / ϵ ,
 ζ , Sirius, Procyon, Pollux, Castor /
mapped Deneb Region, did
Lunar work, mapped area of
M-31 - mapped area of M42 /
Scanning, 1 stray meteor -
bright red - mag. 2 - NE - fast.

380S Sept. 5 / 13:30-13:45 / Clear /
Syncom-80p / Echo-60p / Sol /
Test Session

381E Sept. 5 / 13:45 19:50-19:55 /
Mainly Cloudy / g.c.

382E Sept. 7 / 19:30-20:35 / et mainly
cloudy / Vega / Syncom-80p /
Echo-60p / Pat Pat 12.

*383M Sept. 8 / 02:08-02:20 / Mainly
cloudy / Binoculars / Mapped
Pollux Region.

384SS Sept 8 / 08:15-08:35 / Clear /

Syncom-80p / ~~Syncom~~ Echo-
60p / spots
3854 Sept 8 / 10:05-10:15 /
Clear / ~~60p~~ Syncom-80p /
Sol / Lynd with NE & finder
very faint - low in West.

3865014 Sept 8 / 17:30-17:54 /
Mainly cloudy / Sunset / My
first distinct double rainbow
seen.

387E Sept 8 / 20:00-20:20 / Partly
to Mainly Cloudy / Vega-
Jupiter / ~~60p~~ Syncom-80p - Echo-
60p / (77 (about) sessions this summer -
4 star sessions - one of them circled /

End of
Summer
1963

388E Sept 8 / 20:00-20:30 /
Partly cloudy / Syncom-80p /
Echo-60p / 3. / Pat Pat's.

389E Sept 14 / 20:00-20:30 / ~~Partly cloudy~~
Partly cloudy / 3. / 3.

3905536 Sept 15 / 10:40-11:15 /
clear / Echo-60p / 14 spots. R group
- separate.

Here a new recording
system is adopted experimentally.

1	2	3	4	5	6
Session No	Date	Times	Weather	Time	Observations + Remarks
391S	9/16	05:50-05:55	Clear	-	Sunrise (very ^{heavy} +iful)
392S 392S	9/18	05:50-06:00	Clear	-	Sunrise
393SS37	9/22	11:50-12:00	Clear	S80	8 spots
*394S	9/23	05:45-06:00	Clear	-	Sunrise (saw Sun rise (3m) at 05:50) - fantastic

Here we officially adopt the new recording system.

395S015	9/23	07:34-17:35	Partly cloudy	-	
396E	9/25	10:00-20:30	clear	E60 S80	6, 2, 2 - Mom's Parents
397E	9/27	19:45-19:55	Clear	-	g.c.
398SS38	9/29	08:05-08:20	Clear	-	8 spots
*399ES1	10/5	20:10-21:30	clear	E60 S80	2, 6, 4. 5 mi. Radar Mike Otte

→ SI sessions mean "Saturn I" sessions.

400S016	10/6	17:23-17:23:10	Clear	-	
401E-SI2	10/12	19:30-20:00	clear	S80	2,
402SS39	10/16	10:00-10:15	Clear	S80	2 spot
403SS40	10/13	08:00-08:15	Clear	E60	2 spots,
404SS41	10/26	13:08-13:09	Partly cloudy	E60	6 spots
405SS42	10/27	08:15-08:16	Clear	E60	4 spots
406S017	10/27	16:50-17:10	Clear	-	
407S018	11/11	14:03-14:03:10	Clear	-	
408SS43	12/29	2:05-2:15	Partly cloudy	2" refr.	2 spots.
*409M	12/30	03:10-07:40	Clear	2.5" refr.	Lunar Eclipse Very successful
410SS44	12/30	14:45-14:50	Clear	2.5" refr.	2 spots.

415 sessions so far
259 sessions in 1963

415
-156
259

1964 MCMXLIV

Sess. No.	Date	Times	Weather	Inst.	Observations & Remarks
1	2	3	4	5	6
411SS45	1/4	1:35-1:40 PM	Mainly clear	2.5 in refr.	O spots.
412SS46	1/6	4:20-4:21 PM	clear	2.5 refr.	O spots.
*418E	1/11	22:45-22:55	clear	6' refr.	Orion Nebula -
419SS47	1/12	4:12-4:13 PM	clear	4.5 refr.	Horsehead Neb
				2 →	O spots

Sessions starting
at No. 411SS45
are recorded in the
new observations diary.

(A numbering mistake
was discovered
in sessions 342 - 34.
They are numbered
twice.

5 sessions were
numbered again.
So starting
with session
411, 5 are skipped,
411 becomes 416.)

Symbols & Abbreviations

SO - ^{PLUS A} NUMBER - PART OF "SO- II"

S - Syncom - my
telescope
(5 in. refl.)

B - Binoculars

E60 - Echo-60p.
S80 - Syncom-80p

+

Weather Symbols
Clear

~~Partly Cl~~ - Partly Cloudy

~~Cl~~ - ~~Mainly Cl~~ - Mainly Cloudy

~~Mainly Clr~~ - Mainly Clear.

Can be used