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CN3 December 17, 1965
 CN3a large finder
 CN3b larger aperture 1973.
 CN3c catalog 1977

LESLIE C. PELTIER OBSERVATORY

founded during the
 Summer of 1960

assumed current title
 Jan. 11, 1968

19I-19-I ^{Manitou Crescent W} ^{Amherstview Ontario} Stations and Substations
 G- Green Acres Day Camp
 D- DRIVEWAY
 G- Ground in front, + Balcony.
 V- Vladimir Tent site
 N- Nature Lab
 R- Rec Hall
 B- Back field

Station

818- 818 Upper Belmont Ave.
 Westmount, P.Q.

M - Camp Minnowbrook
 Lake Placid, New York

ASC - Adirondack Science Camp
 Lewis, New York, 12950

AKK- Acadia University
 Wolfville, Nova Scotia

J - Jarnac

e.g. - LCP-A-WF LCP = Observatory A = Acadia Station WF = Wheelock Field

Substation

LE - Terrace outside side door, + surrounding area
 UE - Window of Room
 UW - Balcony of Library
 LW - Driveway
 C - Central, in front

I Between Bunk I and Astronomy Rm.
 Ia Inside or on porch of Bunk I
 S Bathroom (small) -2nd floor Boys' House
 Sb Bathroom (large) -2nd floor Boys' House
 B Baseball Field
 D Dock
 T Teahouse
 IV Inside or on porch of Bunk IV

1 - Outside bunks 10, 11, 12, 13
 2 - Teepee area

WF - Large Field behind Wheelock Hall near Tower

Sem - around Seminary

PH - Patterson Hall area

E - Around Eaton House

212 - Tower Residence

T - Tower Roof

H - Corner Highland Ave + Rt. 101

T₂ - Around Tower Residence

D - Dock

B - Balcony

F - Front (around big tree + near garage)

L - Lake in front of balcony, on shore.

Places which are not a part of LCP are written out in full

SUPPLEMENT TO THE JOURNAL

OBSERVING SESSIONS

Symbols

Weather Conditions

- 0 - Precipitation
- 1 - Cloudy
- 2 - Mainly cloudy
- 3 - Partly cloudy
- 4 - Very hazy
- 5 - Hazy
- 6 - Slightly hazy
- 7 - Clear
- 8 - Quite clear
- 9 - Very clear
- 10 - Near Perfect.
- 11 - Grand Canyon.

Projects

- CN1 - Comet & Nova Program - Area check
- CN3 - Comet & Nova Program - Telescopic Comet Hunt
- CN5 - Comet & Nova Program - Sun Vicinity, Twilight Horizon and Dome Checks
- Aurora I (Aur I) - Aurora Check
- SS2 - Sunspot check
- (Con) Constellation I - Constellation study project
- VSP - Variable Star Program
- LPO-1: Planets.
- VSO-1: Variables.

Instruments

- Echo - 3 $\frac{1}{2}$ -inch of mine reflector
- Pegasus - 8-inch reflector
f = 55 5/8"
- Little Joe - 6-inch R.F.T.
f = 23"
- 8x30b - Binoculars, 8 power
30mm lenses
- Syncom* - 5-inch reflector
- Discoverer - 2+-inch reflector

Not of Mine inch reflector*

- Cosmos - 6-inch refractor
- Elmer - 3 $\frac{1}{2}$ -inch reflector
- Arcturus - 6-inch R.F.T.
f = 23"
- 7x50b - binoculars, 7 power, 50mm lenses
- Tiros - 2+-inch refractor
- Moonwatch - 4" inch moonwatch apogee 'scope.
- Spica - 8-inch reflector, f-8 fl=62"
- Antares - 6-inch reflector, f-8 fl=50"
- Apollo - 6-inch reflector, f-8, fl 47.5"

- | | | |
|--------------|---------------------------|------------------|
| p power | NE naked eye | f favourable |
| b binoculars | *special session | unf unfavourable |
| rl reflector | **very special session | |
| rr refractor | (*) extra special session | |

Types of Sessions and maximum times for these sessions.

- S - sunrise to sunset E - sunset to midnight M - midnight to sunrise
- EM - sunset to sunrise but (a) must involve times both before and after midnight
(b) must not last the entire night
- AN - sunset to sunrise - lasts practically all night
- P (following a session type (e.g. AN E, EP)) "petit" - ten minutes or less

Plan for Recording Sessions

- Date, Day - Double date starts at ^{Sunrise} ~~noon~~ the first day.
- Time begun - time ended
- Weather conditions - f or unf (these refer to personal assessment of session accomplishments)
- Place (see next page)
- Instruments
- Observations and Comments

*(Presumed) deceased

LCPO LOG EIGHT
includes sessions 1971-1976 recorded in Journal

09-70

number date / time started - ended / weather conditions (see scale on back page) - Favorable or unfavorable (subjective determination) / Place: Leslie C. Peltier observatory - station - substation / instruments / others present / observations.

1970

2350E September 9/12/2015-2020/10-F/LCP-A-212/-1-CN-5.

2351^{EM}~~AN~~ 2200-0545/7-10-F/LCP-A-T₂, H, T/Little Joe/Mikael/
CN3, CN-5. (long break 2200-2100)

2352S 12/1645-1700/10-F/LCP-A-212/Echo/Mikael/~~SS2~~.

2353S2 12/13/1930-1940/10-F/LCP-A-212/-1/Mik/CN5-Sunset
+ green flash.

2354AN3 2030-0620/7-10-F/LCP-A-T/Little Joe/Mikael/LPO-Saturn,
Aur-I tue, CN-5, CN-3. (7h 40m)

2355S 13/1430-1455/2-F/LCP-A-T₂/Echo/Mikael/SS2.

2356S 14/1715-1730/10-F/LCP-A-212/Echo/Mik/SS2.

2357E2 14/15/2030-2215/7-F(Moon)/LCP-A-H/LJ/Mik/CN-3

2358EM 15/16/2330-0100/1-3-F/LCP-A-H/Discoverer
test session / - / Moon, Saturn, Vega, Altair, Albero.
Recommend Discoverer for use as a lunar scope,
on star parties. very portable; does a good job
on moon but not so good on planets & stars.

2359S2 19/1820-1845/7-F/LCP-A-212/Echo, discoverer/mik/SS2.

2360M2 19/20/0200-0345/8-F/lcp-a-h/little joe/-/cn 3-lpo-s,
luna moon.

2361S 20/190 1830-1900/10-F/lcp-a-212/echo/mik/SS2.

- 2362 ~~AE~~ 20/21/2100-2335/9-3-f/lcp-dave roy's house/little joel/-/cn-3, cn-16 - independent find of comet abe.
- 2363S 21/1700-1730/9-f/lcp-a-212/echo/mik/ea ss 2.
- 2364E 23/24/2030-2210/9 1/2-f/lcp-a-h/little joel/-/cn-3, cn-5, am-1.
- 2365S 24/21/1730-1745/9 9 1/2-10-f/lcp-a-212/echo/mik/SS 2.
- 2366E 24/25/2200-2300/9-3-f/lcp-a-h/little joel, bruce peveril, sköda, charlie morgan, peter budgell, richard skinner, ej m-cellan, mik, others. / i set up mount, put telescope on mount, strapped it in place, inserted eyepiece and peered in. there, in the spot far from the centre of the field, was comet abe! also viewed m-45, m-31, db cl, alberio, rand, & umic, ~~etc~~ and saturn.
- 2367M 26/27/0240-0300/3-f/near morgan house/-/-/cn-5, am-1.
- 2368S 29/1840-1850/2-f/lcp-a-212/echo-1/ss 2.
- 2369 M2 29/30/0015-0215/10-f/lcp-a-h-212/little joel/-/cn-3, m-42, cn-5, am-1.
- 2370E october 2/3/2100-2215/10-f/lcp-a-212/lj/-/cn-3.
- 2371S 9/5/1730-1750/10-f/lcp-a-212/~~lj~~echo-1/ss-2.
- 2372EM 5/6/2330-0130/10-2-f/lcp-a-h/little joel/-/cn-3, am-1, cn-1.
- 2373S 6/1740-1755/10-f/lcp-a-212/echo-1/ss-2.
- 2374M 6/7/0205-0235/10-f/lcp-a-h/little joel/dave roy/cn-3, cn-5, am-1.

- 2375S oct 7/ 1730-1750/8-f/lcp-a-212/echo/-/ss2.
- 2376EM 7/8/2345-0135/9-f/lcp-a-h/little joel/-/cn-3^{cn5}_{ann}
first session for new finder.
- 2377S 8/1730-1750/6-f/lcp-a-212/echo/-/ss-2.
- 2378M 8/9/ 2350-0130/7-f/lcp-a-h/little joel/-/cn-3, cn5.
ann 1.
- 2379E 9/10/ 1900-1915/10-f/airplane between halifax +
montreal/-/cn-5.
- 2380E2 2330^{edt}-2350^{edt}/6-f/summit park in westmt./-/-/-/
cn-5, ann-1.
- 2381S 10/1510-1530^{edt}/5-f/lcp-a-818-~~te~~^{le}/-/ss-2./discoverer.
- 2382S. 13/1730-1745/5-f/lcp-818-uw/discoverer/-/ss-2.
- 2383M 17/18/170230-0345/7-f/7-1-f/lcp-a-t/8x30b^{8x30b}/-/cn-1 new start.
- 2384ME 19/20/2300-2330/7-f/lcp-a-t/8x30b/-/cn-1, cn-5
ann-1.
- 2385S 20/18/1755-1800/9-f/lcp-a-212/8 echo/-/ss2.
- 2390EP 20/21/1845-1855/9-f/lcp-a-wf/-/mik/cn5.
- 2386M 0200-0215/10-f/lcp-a-t/8x30b/-/cn-5.
- 2387S 21/1740-1755/8-3-f/lcp-a-t 212/9 echo/-/cn-6, ss2.
- 2388M 21/22/0100-0130/8-9-f/lcp-a-t/ly/-/cn-1, cn-5, cn3
ann 1.
- ast
2389M 24/25/0400-0100/10-3-1-f/lcp-a-t/little joel/
cn-1, ~~cn-5~~.
- 10J

- 2391M oct 30/31 / 0000-0305 / 10-f / lcp-a-~~h~~ h-t / lj / - /
cn-3, gnl. obs., cn-1, cn-5.
- 2392EP oct 27/28 / 1845-1850 / 7-f / lcp-a-wf / ~~in k~~ - / mik /
Fireball!
- 2393EP 30/31 / 1730-1740 / 8-f / new minas (shopping centre) /
- / dave, dave & donna roy / cn-5.
- 2394S 31 / 1630-1645 / 8-f / lcp-a-212 / echo / - / ss 2.
- 2395EP 31 / 32 / 1745-1750 / ^{10-f} lcp-a-wf / - / mik / cn-5.
- 2396E 2000-2230 / 19 1/2-f / lcp-a-~~h~~ h,t / little joe,
50mm taocol / - / cn-1, cn-3, cn-5.
- 2397S november
1/2 1625-1645 / 7-f / lcp-a-212 / ~~h~~ echo / heather /
ss 2.
- 2398M 1/2 / 0330-0345 / 3-10-f / lcp-a-~~h~~ wf / - / (heather)
awrd, cn-5.
- 2399S 4 / 1600-1615 / 10-f / lcp-a-212 / echo / - / ss-2.
- 2400EP 4 / 5 / 1810-1815 / 10-f / lcp-a-wf / - / - / cn-5.
- 2401S 8 / 1600-1615 / 8-f / lcp-a-212 / echo / - / ~~cn~~ ss-2.
observing cut
- 2402S 12 / 13 / ~~15~~ 1500-1515 / lcp-a-212 / echo / - / ~~cn~~ ss-2.
- ~~2403M~~
2

1971

jan

2/9

- 2403M 8/9 / ~~1545~~ 0345-0400 / 7-F / lcp-a-t / - / - / cn-5, aur-1, moon in west.
- 2404S 9 / 1400-1415 / 7-F / lcp-a-212 / - / echo / ss-2.
- 2405EP2 9 / 10 / 1815-1820 / 9-F / lcp-a-wf / - / - / cn-5. (tw+hen)
- 2406M3 ~~0400~~ 0350-0405 / 7-F / lcp-a-t / - / - / cn-5, aur-1, cin w.
- 2407S 15 / 1600-1615 / 8-F / lcp-a-212 / echo / - / ss-2.
- 2408MP 16 / 17 / 0230-0240 / 7-F / lcp-a-wf / - / - / cn-5; aur 1.
- 2409M ~~18~~ 18 / 0200-0250 / 8-9-F / lcp-a-t / little joe / - / cn-3,
cn-5, aur-1.
- 2410M 22 / 23 / 0200-0210 / 7-F / lcp-a-t / little joe / - / cn-5, aur-1.
- 2411S 24 / 25 / 1430-1515 / 9-F / lcp-a-212 / alberca, echo / mik / ss-2.
- 2412M ~~0200-0~~ 0150-0245 / 9-F / lcp-a-t / little joe / - / cn-3, cn-5
aur-1.
- 2413S 25 / 26 / 1635-1650 / ~~7~~ 9-F / lcp-a-212 / echo, / - / ss-2.
- 2414M 27 / 28 / 0120-0200 / 9-0 (smw) - F / lcp-a-t / (j) / - / cn-3, ~~aur~~ aur-1.
- 2415S 28 / 29 / 1615-1630 / 10-F / lcp-a-212 / ~~echo~~ echo / - / cn-5, ss-2.
- 2416EP2 1745-1750 / 10-F / lcp-a-wf / - / mik / cn-5.
- 2417S 29 / 30 / 1615-1630 / 4-F / lcp-a-212 / echo / - / ~~cn~~ ss-2.
- 2418EP2 1725-1730 / 10-F / lcp-a-212 / - / - / cn-5.

- 2419M3 0150-0220/7-6-F/lcp-a-t/little joel/-/cn-3, cn-5, aux-1.
- 2420S FEBRUARY 1/2/1630-1715/10-F/lcp-a-212/4 echo/-/cn-5,
ss-2.
- 2421M-3 0100-0115/10-F/lcp-a-t/-/-/cn-5, aux-1.
- 2422EP2 (before above) 1800-1805/10-F/lcp-a-wf/-/-/cn-5.
- 2423S 2/3/1622-16 1600-1622/7-F/lcp-a-212/echo/-/ss-2.
- 2424S 3/4/1630-1645/7-F/lcp-a-212/echo/mik/cn-5, ss-2.
- 2425MP 0200-0210/3-7-f/lcp-a-t/-/-/cn-5, aux-1.
- 2426S 4/5/1635-1645/10-F/lcp-a-²¹²~~212~~-wf/echo/mik/cn-5, ss-2.
- 2426SP2 1740-1750/10-F/lcp-a-wf/-/-/sunset + cn5.
- 2427M3 0300-0330/10-F/lcp-a-~~212~~ 212-t/~~4~~ little joel/mik/moon
+ cn5, aux-1.
- 2428S 6/7/1725-17 1700-1730/9-F/lcp-a-t/-/ss-2.
- 2429EZ 1900-1920/9-F/lcp-a-t/-/dr. morgan + others/ gnl. obs.
- 2430S 7/8/1600-1625/7-F/lcp-a-212/echo, albereo/-/ss-2.
- 2431S ^{9/10}~~8/9~~ 1710-1725/3-F/lcp-a-212/echo, l-/ss-2.
- *2432M2 9/10/1630-0400/9-3-1-F/lcp-a-t-212/little
joel/mik, david latham/~~aux-1~~, total lunar
eclipse.
- 2433(M3876 + B7614680437A) S. /1620-1640/10-F/lcp-a-212/-/
-/echo, albereo/-/ss-2.

- 2435S Friday 12/13/1700-1645-1700/3-f/lcp-a-212/alberoo/-/ss-2.
- 2436S 15/16/1645-1700/3-9-f/lcp-a-212/echo, alberoo, /~~1~~
mik/ ss-2.
- 2437S 16/17/1600-1615/9-3-10-f/lcp-a-212/~~etc~~ alberoo/-/ss-2.
- 2438S 22/23/1630-1650/10-f/lcp-a-212/alberoo/-/ss-2.
- 2439M 2 0300-0315/10-f/lcp-a-t/-/cn-5, am-1.
- 2440M ~~28~~ 25/26/0300-0315/9-f/lcp-a-t/-/cn-5, am-1.
- 2441SP 28/0 ~~0315~~ 1715-1725/8-f/lcp-a-212/alberoo/-/ss-2.
- 2442M March 1/2/ ~~2300~~ 0245-0300/9-f/lcp-a-t/-/cn-5, am-1.
- 2443S 2/3/1645-1700/8-f/lcp-a-212/~~etc~~ alberoo/ss-2.
- 2444S 6/7/1750-1800/8-3-f/lcp-a-212/alberoo/-/ss-2.
- 2445S 9/10/1545-1600/7-f/lcp-a-212/alberoo/-/ss-2.
- 2446MP 12/13/0245-0150/9-f/lcp-a-t/-/cn-5, am-1.
- 2447S 10/11/1700-1715/9-f/lcp-a-212/alb/-/ss-2.
- 2448S ~~14/15~~ 13/14/1715-1730/10-f/lcp-a-212/alb/-/ss-2.
- 2449M 0230-0245/¹⁰~~12~~-f/lcp-a-t/-/cn-5, am-1.
- 2450S 14/15/1725-1740/10-f/lcp-a-212/alb/-/ss-2.
- 2451E 1815-1830/10-f/lcp-a-wf/-/-/really beautiful
sunset; (cf. journal) - green flash.

- 24525 16/17 | ¹⁵⁴⁵⁻¹⁶⁰⁰ ~~1710-1715~~ / 9-f / lcp-a-212 / alb-1-1 ~~cm-5~~ ss-2.
- 24535 17/18 | 1700-1710~~5~~ / 9-f / lcp-a-212 / alb-1-1 / ss-2.
24545. 19/20 | 1710-1720 / 7-f / lcp-a-212 / alb-1-1 / ss-2.
- 24555P 26/27 | 1730-1735 / 8-f / lcp-a-212 / echo / ^{David Latham} / ss-2.
- 24565P 30/31 / 1725-1735 / 9-f / lcp-a-212 / alb-1-1 / ss-2.
- 24575P APRIL 1/2 | 1640-1645 / 10-f / lcp-a-212 / alb-1-1 / ~~cm~~ ss-2.

2

2458 1/2/2000-2030 / streets of wolfville

2459 0130-0145 / t
 am-1 neg
 dome 3

2460 4/5 / 1600 / t 212
 ss-2.

2461 0200 / t
 dome 3
 am-1 neg

2462 5/6 / 1600 / 212
 ss-2.

2463 0200 / t
 - mostly cloudy

2464 6/7 / 1600 / 212
 - ss-2.

2465 8/9 / 0300 / t
 - dome 3
 am-1 neg.

✓

2466 9/10/1740/212
SS-2.

2467 12/13/1740/212
SS-2.

* 2468 02350-0150/t
cn-3 : 5 min umi ven.
cn-1 @ 23-6, 40-6.
aur-1 reg 0145
cn-5 dome-3
vso-t/ First night.

2469 13/14/1740/212
SS-2.

2470 14/15/1750/212.
SS-2.

2471 * 24/25/2 1900-2100/ wolfville ridge, H, e
cn-5.
aur-1 reg ~~1900~~ 2100

EOT

2472 May 9/10/0100/818 - oratory
cn-5 dome-3 aur 1 reg

2473 10/11/0100/818 - oratory
cn-5. dome-3 aur 1 reg

2474 15/16/2030-2300/ Bishop whelan h.s. barchine
capella, jupiter, praesepe

2475 16/17/1800/818
SS-2.

2476 ✓ 17/18/1920/818
SS-2.

- 2477 17/18 / 2330-0200 / 818
cn-3 - 1 1/2 hrs - ~~to~~ her, ven.
- 2478 0230-0245 / 818-oratory
aur-1 neg
dome 3
- 2479 18/19 / 1430-1445 / 818
ss-2.
- 2480 0230 / 818-oratory
cn-5-dome-2
aur-1-neg
- 2481 ~~19/20~~ 19/20 / 1520-1535 / 818
ss-2.
- 2482 0130-0200 / 818-oratory
cn-5-dome 2
aur-1 neg
- 2483 22/23 / 2330-0000 / observatory raise
Jupiter drawing
- 2484 ~~23~~ 23/24 / 1515 / paul's countryhouse with a good
north sky
ss-2.
- 2485 0130-0200 / same
cn-3. 5min 3 1/2" aur-1 neg dome 3.
- 2486 24/25 / 1100 / same
ss-2.
- 2487 28/29 / 1800 / 818
ss-2.
✓

- 2488B 29 Sept/30 / 1830/818/
SS-2.
- 2489B ~~30~~ 2300-0000 / Rase obs.
Lpo-1 Jupiter
cn-3 25 min. box + ven
- 2490A 0130 / ~~roslyn school~~ westmount park
first view of mass - unaided eye - in east - this year
- 2491A 0200 / roslyn school
dome-3
cam-1 neg
- 2492 30/31 / 1830/818
SS-2.
- 2493 0000-0200 / 818/mik.
cn-3 1 hr best view by
~~to~~ jupiter view - no formal work - no red spot
cam-1 neg
dome 3
- 2494 31/32 / 1830/818
SS-2.
- 2495 A 2330-0100/818
cn-3 / 30 min / has ven
✓
- ~~2496~~

June 1971

06 71

- 2496 ~~233~~ June 1/2 / 1830/818
g en ss-2.
-er
- 2497 ~~235~~ 2315-0100/818
g cn-3. 45 min her ven.
lpo-1. jupiter
- 2498 June 4/5 / 0130 / Sarnac
gnt obs
- 2499 5/6 / ~~00-23~~ 0000 / Sarnac
gnt obs
- 2500 9/10 / 2230-2300 / 818
cn-3 < 2 hrs. e + s sky
Jupiter-shadow of moon.
vso-1
cn-1 3.23.6.40.6
sun-1
cn-5
- 2501 10/11 / 0000-0230 / 818
cn-3 50m e + s sky
cn-5 (coratory)
sun-1.
- 2502 11/12 / 1820 / 818
ss-2.
- 2503 2300-0200 / 818 / mick / chipper
cn-3 e sky 40m
vs-1, cn-1. cn-5 dome 2
- 2504 12/13 / 2^o 0100-0200 / 818 / chipper
cn-3 e sky, braco, her, ven. 25m
cn-1. sun-1 cn-5 dome 2
0200
- 2505 13/14 / ~~0100-2240~~ 1800 / cart 1818
ss-2.

2506 2145-0350/818 / Clipper + Gerry
 All night. LPO-1 Jupiter desc., Mars: S polar cap
 visible easily, some markings \odot ^{dark} noticed
 Jupiter: white spot in centre of S temperate
 belt; ~~2 red spot~~, Red spot, 2^{size} white spot, east edge, big.
~~NNTB~~ visible NTB visible, NPR barely visible.
 Moon ok.

cn-5-dome 3 0345

aur-1 - 0000 0345

vso-1.

cn-3 24 25m her dra van; e. down sky

2507 14/15/1745/818
 SS-2.

2508 2330-0100

~~cn~~ cn 3 0ⁿ 25^m her, cn b, dra, van.

aur-1 0100 -

cn-5 dome 3

vso-1

lpo-1 Jupiter: SPR visible; SSTB visible;
 STB w spot E side; GRS not visible; SEB tends to be
 stormier in W; dropping festoons into eq. zone; EZ
 tend to have festoons tend to spread across, ez both etc
 NTB visible; NNTB visible; NPR visible. Love detail h

2509 15/16/ ~~1800~~ 1730/818
 SS-2

2510. 2300-0130/818

cn-5-dome 3

aur-1- 0130--

vso-1

lpo-1 jupiter drawing

2511 16/1800/818
SS-2.

2512 22/1800/818
SS-2.

2513 21/22/2330-0130/818
cn-3. 1 hr. 10m Dra, her, vcn.

2514 23/1800/818
SS-2

2515 23/24/2230/RASC
Cpo-1 Jupiter drawing

See Journal

1959	1	1964	316	1979	85
1960	3	1965	316	1970	162
1961	8	1966	713	1971 total	
1962	144	1967	245	113+34=147	
1963	259	1968	149		

YEAR	LAST SESSION FOR THAT YEAR	NUMBER OF SESSIONS.
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Last numbered session = 2515.

1971	2549	34 unnumbered sessions.
1972	2617	68
1973	2720	103
1974	2761	41
1975	2818	57
1976	2843 (counting 76-25m which = 2843m.)	25 in 2 months.

To continue this record...

1976	3096	253 in 10 months.	278 Total.
1976	Total	278.	
1977	3507	411	
1978	3799 (plus 4)	296	
1979	4357 (minus 4)	554	
1980	5083	726 (some record!)	
1981	5584	501	

Hello again!

- 2843M. 1976. February 28/29 - 2837/0015-0100/3-F/LCP-818-LW/Peg, 8x50F/
-/Dome, R Leo 86 SUM. III.
- 2844E. March 7/8-2844/1845-1945/7-F/LCP-818-LW/Peg, Finder/-/R Aur. - note
coincidence of session number = Julian Day.
- 2845E. March 7/8-2845/2300-0000/7-F/818/Pegasus/RAur, RLMi, R Leo.
- *2846M2 2845.9/15~~20~~¹⁵-1730/9-F/LCP-818-LE; St. Jacques/LJ with Her; +
6x50F/Carl/Comet West, VS. See Journal.
- 2847E. March 8/9-2846/1930-2015/7-F/going to Beverley's house/-/-/
Dome.
- *2848M2. 2846.9/1555-17-40/9-F/EST noon St. Jacques/Little Joe with Finder, Dues-
tar, ^{LN's} cameras, Hercules/Leo and Nora/Comet West, VS. Dome.
- **2849E. March 9/10, 2847.6.7/0905-1135/7-8-F/LCP-818-LW/Pegasus with Finder/
-/SEVENTEEN VARIABLE STAR ESTIMATES, Dome, CN3.
- 2850E. March 11/12, 2849.6 0905-1030/7-F/LCP-818-LW/Little Joe with Finder/
-/VS₂, Dome.
- *2851M2 2849.9/1620-1720/9-~~10~~-F/EST St. Jacques/Little Joe with
Finder/-/VS₅, Dome, CN1, 40+23, Comet West. mag 3-3.5
- 2852M March 13/14, 2851.8.9/1515-1730/7-6-F/LCP-818, LK, LE/Pegasus, Little
Joe, Finders/VS₅, CN-1, 23/ Dome, Comet West mag 3.5.
- 2853E 17/18, 2855.6/2130-2200/7-~~unf~~ REG EST. /RASC, outside frogandome. 1-1
2 new members/Dome.
- 2854EM2 2855.7/2355-0025/7-~~unf~~ /Nora's house/Quasar (not
working properly) to Nora/R Leo 8.4.
- *2855EM March 22-23, 2860.7.8/2230-0145/7-1-~~6~~ /LCP-818-LW/Pegasus,
finder 1-1/VS. 20 estimates.

- 2856M March 23/24, 2861.78/0010-0200/6,7-Every F/LCP-818-LW/
Pegasus with finder/-/VS, 8est, CN3, 15min, + 1 double
star observation for Carl, marking the restart of the double
star program. CNS (Dome.)
- 2857E. March 24/25, 2862.6/2130-2245/6-F/~~LEP~~ RASC/Celestron/
R Philip?, Carl Double Stars, CN3.
- 2858M2. 2862.8/0100-0115/63-F/LCP-818-LW/8x266/-/CN-1,
CN-5.
- *2859EM March 24/25/26, 2863.7/7-F/LCP-818-LW/8x266, Pegasus/
Moths/CN3, CN-1. Aurora, very interesting display. of.
Journal entry for details.
- 2860MP2. A 2863.8/7-F/LCP-818-UE/-/-/Aur-1. cf. Journal.
^{10240-0245/}
- 2861EP. March 28-29, 2866.6/2100-2110/^{approx.}8-F/2 Bourne, + Kent ave/-/
Beverly/constellations, dome.
- 2862EM2. 2866.7.8/~~2350-0~~ 2315-0120/8-F/LCP-818-LW/
Pegasus + finder, Binoc /-/CN-1, CN-3 (1hr.), V.S. Dome, ~~GA~~
- 2863M3 2866.9/0325-0355/8-F/LCP-818-UE, ~~LE~~ LE, LW/Binoc
Little Joe/Comet West, VS., Dome.
- 2864M. 29/30 2867.8/~~03~~ 0105-0130/8-3-F/LCP-818-LW, LE/
Binoculars/V.S., CN-1., Dome.
- 2865EP4 28/29 see between 2860 + 2861./1900-1905/8-F/
Debbie's house/-/-/Dome. CNS. Fung/Twilight horizon.
- 2866EM2 30/31, 2868.7/2300-0010/8-3-F/LCP-818-LW/Pegasus,
finder/-/VS.
- 2867E (before 2866) 30/31/2200-2235/3-F/Kent Ave, LCP-818-LW-LE/
-/Tigger/Dome.

- 2868EM. April 1/2, 2870.8. | 2330-0115 | 4-2-1, F / Summit | 8x24 | - /
Dome, Area 40.
- 2869EP. 2/3, 2871.5 | 1930-1935 | 3-F | LCP-818-LW | - / - / Dome.
- 2870MP2. 7 | 0050-0055 | 6-F | LCP-818-LW-LE | - / - / Dome.
- 2871M. 3/4, 2872.8.9 | 8-F | LCP-818-LW, LE | Pegasus, finder | - /
VS., CN-5, CN-1, f Comet West. | 0130-0400.
- 2872EM 5/6, 2874.7 | ~~2225~~ 2240-0010 | 7-F | LCP-818-LW | Pegasus,
finder | - / VS. CN-5 Dome.
- 2873MP2 2874.8 | 0245-0255 | 7-F | LCP-818-UE | 8x246 | - / Comet West.
- 2874E 6/7 2875.7 | 2242145-2250 | 6-F | LCP-818-LW | 8" (Pegasus) |
V.S., † Double Stars. Dome.
- 2875EP 7/8, 2876.5 | 1845-1850 | 7-F | Oratory | - / - / CN-5.
- *2876E2* 2876 | 1940-2020 | 7-F | LCP-818-LW | Pegasus, Little Joe/
Carl | Occultation of E Geminorum by Mars. Ingress ~1958, Egress
~20:03. Also M42, 43, † sep of δ Leonis.
- 2877E3 2876 | 2050-2205 | 7-6-F | RASC | Celestron | Ron Pow,
| other | at RBoo (11.7, TGB 10.2.
- 2878EP4 2876 | 2315-2320 | 3-F | LCP-818-LW-LE | - / - / Dome.
- 2879M4 8/9; 2877.8 | ⁰¹1345 - ⁰²1410 | 7-6-F | LCP-818-UW, UE | 8x246,
Little Joe + finder | - / Comet West, ~7th mag. in sq # 1/gm of
Delphinus.
- 2880EP 9/10, 2878.7 | ~~22~~ 2250-2300 | 7-6-F | LCP-818-LW | - / - / Dome.
- 2881MP2 2878.8 | 0200-0210 | 7-F | LCP-818-UE | Little Joe, hand-
held. | - / observation of Comet West, in middle of 1/gm of
Delphinus, ~7th mag. a wee bit fainter than last night? (dark adapt?)

- 2882 MP. April 14. / 0125-0135 / 5-F / LCP-818-LW, LE, C / - / - / Dome.
- 2883 MP. 17 / 0030-0035 / 5-4-F / LCP-818-LW, LE, C / - / - / Dome.
- 2884 E. 18 / 19, 2887. / 2145-2210 / 7-5-F / LCP-818-LW / Pegasus / Beverley, Mikael / Mars, Saturn, M45. Doubles: β UMa, α Gem.
- 2885 E2 2887.6.7 / 2240-2355 / 5-F / LCP-818-LW / Pegasus / - / V.S., dome.
- 2886 EM 19 / 20, 2888 / ~ 2330-0030 / 7-F / LCP-818-LW / Pegasus / - / V.S., dome.
- 2887 EM 23 / 24 / 1945-0130 / 2-3-7-6-F / RASC / Little Joe / Don Alexander, M. Peach, Carl, Boyd Ramsay, Nora, Constantine, others / Lyrid meteors. 42? seen (maybe that means 15). V.S., Dome. see Journal.
- 2888 EM 20 / 21 / ~ 2330--0030 / 7-F / LCP-818-LW / Pegasus / - / V.S., dome. \nearrow Should appear between 2886 EM and 2887 EM.
- EDT
- 2889 E 30 / 31 / ~~2235~~ 2310-2355 / 6-F 5-F / Bourrat / Little Joe / ~ Manny / general observations, V.S., Dome.
- 2890 EM. May 2 / 3, 2901. / 2320-0025 / 6-F / LCP-818-LW / Pegasus / - / & Aurora (see Journal) V.S., Dome.
- 2891 E. 3 / 4, 2902 / 2230-2340 / 8-F / LCP-818-LW, C, LE / Pegasus / - / V.S., Dome.
- 2892 E. 5 / 6, 2904 / 2130-2230 / 6-F / RASC / Celestron / Bruce Foster, Boyd Ramsay. V.S. Dome.
- 2893 E 8 / 9, 2907. / 2215-2315 / 7-F / RASC / Celestron / Beverley, Peggy, Boyd, Bruce + others / general. V.S. Dome.
- 2894 EM. 9 / 10, 2908. / 2330-0030 / 7-5-F / LCP-818-LW / Peg / - / V.S., Dome.

- 2895S. 10, 2909, /10:30-11:30/7-F/RASC/Cebastion. /
Constantine + 2 others / SS-2.
- *2896E2 10/11, 2909 / 2000-2045 / 5-F / 4960A Kent + vcn / Beverley,
Manny / BOUNDER THE BINOCULARS / First session for the new
binoculars. Moon was First object.
- 2897E3. 2130-2200 / 5-F / 4960A Kent / Bounder / Beverley / V2 Cam.
First reading.
- 2898EM. 2909 / 2335-0030 / 5-4-F / LCP-818-LW / Bounder,
Nelson (2x24b) / - / V.S. Dome, CN-1.
- 2899EP. 12/13, 2911. / 2215-2225 / 7-F / LCP-818-C / Bounder / Carl +
Peggy / Mars + Saturn in conjunction, near Pollux + Castor (...), α UMi.
- *2900EM. 2350-0145 / 7-F / LCP-818-LE-C-LW / Bounder / - /
CN-1, Dome, V.S. - 2 / estimates. a record! (av. 5 min. per estimate.)
- 2901M 13/14, 2912. / 0030-0205 / 7-F / LCP-818-LW + LE-C / Pegasus / 2
policemen! "You live here?" "Yes. Just looking^g stars." "Okay." CN-5, V.S.
- 2902EM 14/15, 2913 / 2330-0025 / 5-F / LCP-818-LW-LE / Pegasus / - / CN5, V.S.
- 2903M. 15/16, 2914. / 0130-0310 / 7-~~8~~-F / LCP-818-LE / Pegasus / - /
CN-5, V.S.
- 2904E2. (before 2903) 15/16 / 2330-2345 / 7-F / Debbie's house / - / Karl,
Beverley, others / moon, constellations ♄.
- 2905E. 16/17?, 2915. / 2300-2345 / 5-unc / LCP-818-LW / Pegasus / - /
V.S., Dome.
- 2906MP 21/22, 2915 / ~~2300-0000~~ - 0010 / 10-F / on the 401 West of Kingston, ♄
travelling at 65 mph / - / Beverley / V.S.: μ Cep at 4.0.
- 2907MP 22/23, 2921. / 0000-0010 / 9-F / outside Toronto, Board of Trade
Club / - / - / Dome.

- *2908M. 23/24, 2922 / 0010-0120 / 8-F / ~~at~~ behind Mikael's apartment, Toronto / Bounder / - / VS, Dome, 2 estimates in one hour.
- 2909MP. 24/25, 2923. / 0015-0020 / 3-2, F / LCP-818-LW / - / - / Dome.
- 2910EM. 27/28, 2926 / 2200-0030 / 7-F / LCP-818-LW, LE / Pegasus w. Finder / - / CN-1, CN-5, V.S.
- *2911EM. 28/29, 2927. / 2215-~~012~~0230 / 9 - after consideration, F / Pegasus, Little Joe, Celestron, others / Constantine, Leo, Rosa Carl, Peggy, Bruce Foster, Mario Caluori, Martin Peach, Granger Robertson, CBC reporter / Granger Robertson's house in Laurentians / CN-5, V.S. - general observations. ∇ Unexpected ~~at~~ sighting of NGC 4605 near SUMa field. see Journal. Double Star.
- 2912M. 30/31, 2929 / 0015-0100 / 5-6-F / LCP-818-LW / Pegasus / - / Double Star Observations.
- 2913S. June 1/2, 2931. / 1730-1800 / 7-F / LCP-818-LW / Celestron / Mom + Dad / SS-II.
- *2914EM 2240-0140 / 7-8-F / LCP-818-LW, LE / Bounder, Celestron / - / CN, II, 41 Variable Star estimates.
- 2915EM. 3/4 ~~3/4~~, 2933 / 4/5, ~~2934~~ / ²⁹³³ ~~00~~ 2330-0030 / 7-F / LCP-818-LW + vcn / Pegasus / - / CN5, V.S.
- *2916M 4/5, 2934. ~~5/6, 2935~~ / 0000-0345 / 10-3 - F / ^{LCP-} ~~LCP-~~ Jarnac / 8-inch celestron, Little Joe / Carl / V.S., CN-5, other observations. (M-11).
- *2917AM. 5/6, 2935. / 2130-0315 / ~~7~~ 10-6-1 - F / ^{LCP-} Jarnac / Celestron, Little Joe / Carl / V.S. CN-5, observ. of M-4 + check on some doubles. see Journal.
- 2918S. 6/7, 2936. 1450-1510 / 5-f / ^{LCP} Jarnac / Celestron / Carl / No spots (granulation observed).

- 2919MP. 8/9, 2939. 0300-0310 / 6-F / LCP-818-LE, C / - / CNS.
- 2920MP. 11/12, 2941. 0200-0205 / 7-F / LCP-818-LE, LW, C / - / CNS.
- 2921M. 12/13, 2942. / 0100-0130 / 7-6-4, 2 $\frac{1}{2}$ - UNF / LCP-818-LE / Pegasus / - / a look at Nova Cygni. Sky gradually clouded + hazed immediately after session began. A useless experience. See Journal entry.
- 2922E. 14/15, 2944. / 2030-2100 / 1-F / chez Dr. Lehmann / 6" rt / Dr. L, Carl / Test session for six-inch reflector.
- 2923E. 15/16, 2945. / 2300-0000 / 4 and then 4-3 / -F / chez Carl / Little Joel \rightarrow Carl / Arcturus, Vega. See Journal.
- 2924E. 17/18, 2947 / 2300-2315 / 5-6-3-F / chez Carl / - / Carl, Sandy / sky conditions check.
- 2925E2M. 2350-0120 / 6-3-F / LCP-818-LE, LW / Boulder / - / V.S. Dome.
- * 2926M. 18/19, 2948 / 0000-0330 / 9-10, then 9, then 7, then 6 / -F / LCP-J-B, D / Celestron / Beverley / Variable Stars. Dome. (Estimate of F RY Lyrae at 14.1 - 1st IS observation.) see Journal.
- 2927S. 19/20, 2949. / 1845-1900 / 1-F / LCP-J-B / Celestron / Beverley / photographs of telescope and observer. See Journal.
- 2928M. 22/23/24, 2952 / 0230-0300 / 1-2-5-F / Summit + ven / - / - / observation of Cygnus and Arcturus.
- 2929MP. 23/24/25, 2953. / 0020-0025 / 2-5-F / LCP-818-C / - / - / general observation.
- 2930SP. 26/27 / 1145-1155 / 3-F / Green Acres / Alberio / Dawn / The Sun.
 Seligman.
- 2931S2. 26/27 / 1430-1500 / 9-3-F / Green Acres / Alberio / Dawn + others / SS2.

- 2956S. July 22/23, 1982. / 11:00-11:30 / 9-F / Green Acres,
Nature / about 20 children / Alberico / SS-2 (no spots).
- 2957S2 1:55-2:15 / 9-F / Green Acres, Nature / Alberico /
about 10 children / SS-2.
- 2958E3 2245-0000 / 7^a-F / LCP-818-LW / Pegasus
and finder, Nelson / - / M-13 (some resolution with 32mm
Eyepiece); CN-1, CN-5, VSO-1.
- 2959EM. July 24/25, 1984. / 2200-0135 / 10⁺, -at, F / LCP-M-B /
Spica, Apollo, Nelson / David Targan, Beverley, about 10
others / Epsilon Lyrae, M-13, + the spiral near it, M71, 31.
CN-1, 5, VSO-1.
- 2960E. 25/26, 1985 / 2 2130-2330 / from Beverley's
apt to LCP-818, then LCP-818-LW-LE / Pegasus, Nelson /
- / CN-1, CN5, VSO-1.
- 2961EM 27/28, 1987 / 2335-0030 / 8-bF / LCP-818-LW /
Pegasus + finder / - / CN-1, CN-5, VSO-1.
- 2962S. 28/29, 1988. / ~~1430-15~~ 1300-1320 / 8-F / Green Acres -
Nature / Alberico / - / SS2 - no spots.
- 2963E. 2988.6 / 2315-2330 / 3-2-F / LCP-818-LW-C-LE /
7x50 binoculars (my first observational instrument) / Gerald
Cecil / M-13. CN-1, CN-5, VSO-1.
- 2964S. 31/32 / 11:15-16:15 / 1-F / Stellafane / Echo, exhibited
as "the compleat ladies telescope", + about 25 other
telescopes / Beverley, Carl + Peggy, Janet Mattei,
Walter Houston, etc-etc. / STELLAFANE.
- 2965E. AUGUST 1/2 / 2230-2245 / 8-3-F / 4960A Kent /
Nelson / Tigger Tat the cat / CN-1, 5. M-13.

- 2966E2 2340-0030/3 -fb+ / LCP-818-LW / Nelson +
Bounder / AA- VSO-1.
296757. Aug 2, 10950-~~11~~1155/7-F/Green Acres/40 people/
Echo, B A Uereo / 1 very large spot.
- 2968EM Aug 2/3, 2993/2325-0025/8-F-A+/LCP-818-LW/
Bouder, Nelson, -/α Del- extremely easy w. unaided eye.
cn-1, vso-1, cn-5.
- 2969S. Aug 3. /11:00-11:30 15-F/Green Acres, Nature Lab/
~20 others / ~~ECHO~~ ALBEREO? / SS-2. ~~no~~ One large spot.
- 2970S2. August 3. /14:30-14:50 / 2-F/Green Acres, Nature Lab/
Echo-60x / Lisa Bornstein, Susan MARKS,
stephanie andky, ROBYN ISRAEL, Tracey
Dalfen, Stephanie Fraiberg, KELLEY ANN LEITH
LEITHMAN / ONE sunspot. (8yr. olds.)
- 2971MP2 (before ~~2970~~ 2969S) Aug 2/3 /0430-0440? / 7-F/LCP-818-UE/
-/- view of Jupiter, and of Mars.
- 2972E. Aug 3/4. /2110-2235/5-A, F/400 Victoria field/
PROCYON, Nelson / Carl / see draft. Lunar observation.
- 2973S2. See between 2967 and 2968 Aug 2. 1400-1430/
7-F/Green Acres, Nature Lab / Echo? / Sun.
- 2974S. Aug 4 / 0930-1200 / 7-F/Green Acres - Nature
Lab / Echo / ~30 children / SS-2. One very large spot.
- 2975S2. 3~1300-1400~ / 6-F/Green Acres - Nature Lab/
others / Echo / Sun.
- 2976E3 4/5, 2995/2145-2215/3-F / St. Clet, P.O. / Little
Joe / MARVIN, ANNIE, BEVERLEY, ALEX, SILVER / see draft.
- 2977S. 5/6, 2996/4-2-F/Green Acres - Nature Lab/
- / a group (~12) / Echo-60p / SS-2. 1140-1200.

- 2978S. Aug 6/300-315 pm/6-F/Green Acres/Echo/^{others} SS-2.
- 2979E. 6/7, 2997./2215-2325/8-F-Bt/Green Acres - R. H./
Pegasus, Little Joe, Nelson./Carland Peggy./CN-1, 5, VSO-1.
- 2980S. 7/8, 2998/1300-1315/6-F/Green Acres Lab./
Echo-60p/ Joyce, Larry, Rona, Jeffrey, Marcy, Wendy,
Robbie, Alison, Beverley, + Joyce's visitor/SS-2?
- 2981E. 10/11/2215-2300/6-3-F-B/LCP-818-LE, C, LW/
Little Joe, Nelson/-/Moon; CN-1, CN5, BCyg.
- 2982S. 11/12/1998/0955-1140/7-F/Green Acres, Nature Lab/
~24 about 30 others/EA SS-2.
- 2983S. 12/13/0955-1020/7-F/Green Acres Nature Lab/
(#2992) Echo - 60p/~24 others/SS-2.
- 2984E. 11/12/1998, 3003/5-F/LCP-818-LW/Pegasus, Nelson,
8x50 Finder./-/CN-1, 5, VSO-1.
- 2985EP. 16/17, 3007/2230-2245-2155/3-2-F/LCP-818-LW/
-1-CN-5.
- 2986S. 17/18, 3008/1010-1030/8-F/Green Acres, Nature
Laboratory/ Echo, 60p/about 10 others/SS-2.
- 2987E2. 1/LCP-818-LW-LE/
Pegasus, 8x50 Finder, Nelson/CN-1, CN5, VSO-1.
- 2988S. 18/19, 3009/1130-1200/8-F/Green Acres, Nature Lab/
Echo-60p/about 12 others, incl. Robby/SS-2. 8 spots.
and Sandra Filiault Bunk 50.
- 2989E2. 2/15-2325/9-F, B/~~LCP-818~~ Green Acres, R. H./
Pegasus, Nelson/~15 others + Constantine + Wendy/
Mizan + Alcon, M-13, 31. VSO-1, CN-5, CN-1.

- 2990-MP3. 0030-0040. /7-F/LCP-818-C-LE-LW/-/-/CN-5.
- 2991S. August 19/20, 3010. /0955-1140/7-6-F-B/Green Acres Day Camp, Nature Lab/Echo-6Op/~25 people, incl. Michael Levy, Dawn Seligman, Wendy /The moon, SS2.
- 2992M. Should be between 2983 and 2985. ^{14/15} /0015-0050/5-3-F/LCP-818-LW-LE/Pegasus, Nelson/-/E Syn. VSO-1, CN-1,5. See draft.
- 2993E2. 19/20, 3010/2250-2350/7-F-B+/LCP-818-LW-LE/Bounder /-/CN1, CN-5, VSO-1.
- 2994S. 21/22/1300-1330/6-F/Green Acres, Nature Lab/Echo-6Op/ Cheryl + Demetrius /SS-2.
- 2995M2. 0030-0150/5-F-B/LCP-818-LW-LE/Nelson, Pegasus/-/CN-1, 5, VSO-1. Satellite.
- 2996S. 22/23/1315-1335/5-F/Green Acres, Nature Lab/Echo, 6Op/ Carl/SS2.
- 2997B2. 2100-2105/⁵/₈-F/LCP-818-LW/-/-/CN-5.
- *2998EM 23/24/2205-0230/8-F, A+/LCP-818-LW-LE/Pegasus, Echo, Bounder, Little Joe, Nelson. /Jupiter with Echo. Doubles. Comet d'Arrest (? unconfirmed). CN-1, CN-5, VSO-1. cf Draft, + Journal. Very enjoyable + productive.
- 2999S. 24/25/1730-1745/8-F/LCP-818-LW/Echo/-/SS2.
- **3000AN2. 3015/7-6-7-8-F-A+/2040-0540/LCP-818-LW-LE/Echo, Pegasus, 8x50 Finder, Nelson, Procyon./Carl.
- Part 1: 2040-2215: Echo, Pegasus, Finder, Nelson: -: CNS, VS, Doubles.
with Carl: - 2: 2215-0220: see above, + Procyon: CNS, CN1, VS, Doubles.
3: 0220-0540: see pt. 1: CNS, VS, Doubles, LPO-1, CN-3.
concl'd.

Please see draft report for details of session, and the Journal for an account. Also M-11, D6C1 in Perseus.

- $\Sigma 2816$, first obs. of a beautiful triple.

- SUMI, first est. with Echo.

- CN-3, 1 hour. - LPO-1, drawing of Jupiter.

A very happy and worthwhile observing session.

- 3001SP. 25/26/1600-1610/6-F/LCP-818-C/-/Echo, 60p/SS-2.
- 3002ER 2100-2235/5-6-F-8/RASC/8" Celestron/Carl, Leo, Ted Pine, Boyd/CN-1, CN5, VSO-1.
- 3003M 28/29/0100-0230/7-1-unF/LCP-J-B/Little Joe/others/very unsatisfactory + variable (rapidly) sky conditions; general obs.
- 3004M2 0330-0550/10-F-B/LCP-J-B/Little Joe, Celestron, Constantine's Maksutov/Constantine, Carl, Jim Hayes/CN-5, VSO-1. Twilight Observations: Faint-Med. Twilight: Nebular Variables, M42. Bright Twt: Jupiter, M42, NGC 869, 884, M45, Hyades, Twt Hzn. Obs. before Twt: 4 variables (SSC group), Dome, M42. See draft.
- 3005S. 29/30/1130-1200/3-F/LCP-J-D-B/Constantine's maksutov/Constantine, Jack+Shelley, Beverley, Carl+Peggy, Gerald, Chris Martin, Jim Hayes, John Hache, etc/SS-2.
- 3006ER 2335-0000/8-2-F-B/LCP-818-LW-LE/Pegasus, Nelson/-/CN5, VSO-1.
- 3007EM 30/31/2330-0115/8-F-A/LCP-818-LW/Pegasus, 8x50F, Nelson/CN1, CN5, VSO-1. First anniversary of Nova Cygni discovery.
- 3008M2. 0440-0515/8-F-B/LCP-818-LE/Little Joe/-/Special session, resulting from insomnia, for observation of nine nebular variables: VSO-1, CN5.
- 3009M. September 2/3/0015-0200/7-F-B/LCP-818-LW-LE/Mira-II, Little Joe w. new finder, Pegasus w. 8x50 finder, Baloon/Constantine/CN-1, 5, VSO-1. Test for Mira-II.

- 3010E 4/5 | 2145-0000 | 7-2-F-B / LCP-J-B / 10-inch Cave refl, Mira-II,
8" Celestron / Carl, David Brown, Peggy, Gerald Cecil, Judy
Litrack / The moon, 13 Cyg, E Lyr, VSO-1.
- 3011S. 5/6 | ~~2-7-8-10~~ 1700¹⁶³⁰-1730 | 3-F / LCP-J-B / other / Mira-II /
GASS-2.
- * 3012AN2 2035-0550 | 2-7-8-10-F-A- / LCP-J-B-L / Jupiter,
transit; Saturn w. Titan; CN-1, CN-5, VSO-1.
Others present: Beverley, Carl, Peggy, Judy, David, Gerald,
John Haché
Instruments used: Mira-II - E Lyr, RY Lyr, Moon - unsuccessful test
Little Joe - only instrument to work without
any problem all night.
Celestron - £2816, Beautiful triple.
Ten-inch refl. V1500 Cyg, etc.
- 3013MP Sept. 7/8 | 0215-0225 | 8-F / LCP-818-LW-LE, (moon) / - / CN-5.
- 3014E. 8/9 | 2145-2245 | 7-8-F / RASC / Celestron / Carl, Boyd /
general observations. ~~B~~ Lyr, E Lyr.
- 3015M. 9/10 | 0100-0205 | 7-F-A / LCP-818-LW-LE / Pegasus, Nelson /
- / CN-1, 5, VSO-1.
- 3016MP ~~10~~ 12/13 | 0100-0110 | 8-F / LCP-818-LW / - / - / Dome.
- 3017EM. 13/14. Part 1: 2145-2220 | 7-F / LCP-818-LW / Pegasus,
~~Procyon~~, Nelson, Little Joe / Carl / CN-1, 5, VSO-1.
P. Intermediary: 2220-2255 - in transit.
Part 2: 2255-0035 | 6-5-F / Procyon, Nelson, L.J. /
(400Vic.) Carl + Peggy / ? (see draft) - (10 features.)
Assessment: A-.
- 3018E. 14/15. ⁴⁻ | ~2100-~2300 | 2-1- / LCP-J-B / - / - / general, a couple
of stars out.
- 3019EM. 16/17 | 2345-0015 | 4-2-F / LCP-J-in lake / - / Mik / some stars:

3020EM. Sept. 21/22. /2325-0040/2-10-2-F-A/Codan, Chazy Lake/Little Joe, Nelson/Mikael/just VSO-1, and m-31, Double Cluster, m-57, m-13. a really enjoyable session.

* 3021E Sept. 22/23/1930-2245: See draft. /FA. | ADIRONDACK OBSERVING SESSION
Part 1: 1930-2130/1-3-10-F/From a spot ~ 3 miles from LCP-ASC, along route 22, 3 and 374 to Chazy Lake. / Hercules 80mm/Mikael / general observations, four photographs.
Part 2: 2130-2245/2-10-3-2-1-F/Codan, Chazy Lake/ Nelson, Little Joe/Mikael/VSO-1.

3022M 23/24/3045/0105-0205/7-3-#7-F/Partly Cloudy, Cold, Gusty winds/LCP-818-LW/Little Joe/no body/ & UMi, ϵ 2816, 19 $\frac{1}{2}$, m31, 2; CN, 5, VSO-1,

3023E. 28/29/2205-2300/3-6-2-F/400 Victoria Field/Little Joe/ Carl/Jupiter, δ Arietis, δ And, NGC 869, 84, CN-1, 5.

3024M OCTOBER 1/2, 3053/0315-0405/7-F-A/LCP-818-LE, c/ Little Joe with finder/ m-42 + the nebular variables $\frac{1}{2}$, CN-1, 5.

3025M 2/3, 3054/0140-0230/6-5-F-B+/Pegasus, Nelson/ LCP-818-LW/noone/ Jupiter. CN-1. VSO-1. CN-5.

3026EM2. 3/4, 3055/2355-0005/400 Victoria Field/Procyon, Little Joe, Nelson/Carl/Double, VSO-1, ϵ CN-5.

3027M. 4/5/3056/12⁰⁰35-0100/LCP-818-LW/Bounder/ $\frac{1}{2}$ -/ VSO-1, CN-5.

3028E. (between 3025+26) ^{Oct 3/4.} /2115-2150/7-F/ between Shaar Hashomayim and LCP-818 /-/-/CN-V.

3029M. 5/6, 3057/0045-0150/7-F, B+, A- /LCP-818-LW-LE/Nelson, Hercules, 80, 250 mm text. /- /CN-5, CN-1, VSO-1, CN-11.

- * 3030M. Oct 11/12 (W-12) | 0015-0110 | 8-F-A | LCP-818-LW-LE / Pegasus / - / Algol caught at minimum; CN-1, CN-5, VSO-1.
- 3031E2 13/14 (-10) | 2030-2100 | 7.5-2-F | RASC / Constantine, others / ~~4~~ 8-inch Celestron, Tigger / general.
- 3032E. (before 3031.) | 1900-1930 | 6-3-F | LCP-818-LW / Tigger / Constantine / Test Session for Tigger. O.K. for price + convenience.
- 3033MP 14/15 | 0100-0110 | 7-F | LCP-818-C-LW / Tigger / - / CN-1, CN-5, VSO-1.
- 3034M. 15/16/17 | 0045-0130 | 7-F | LCP-818-C-LE / Little Joe / - / CN-5, VSO-1.
- 3035EM. 18/19 (W-5) | 2330-0040 | 7-F: Cold: - A- | LCP-818-LW-LE / Pegasus, Nelson / - / CN-1, 5, VSO-1.
- * 3036E. 22/23 (W-1) | 2310-2330 | 7-F | LCP-818-LW-C-LE | Tigger / - / CN-1, CN-5, VSO-1.
- * 3037M. October 23 1976. | 0015-0030 | 7-F / Park opposite Temple Emanuel / Tigger / Carl / CN-5, VSO-1.
- 3038E. 27/28 | 2300-2315 | 7-F | Kingston, Ont. / - / - / CN-5.
- 3039M. 29/30 | 0015-0115 | 7-F-B+ | 11 Silverton, Toronto / Little Joe / - / CN-III, VSO-1.
- 3040E. NOVEMBER 1/2 | # 2300-2335 | 7-F / The Chasen's home, Millburn, N.J. / Little Joe / Harold Chasen. / See draft. General Observations.
- 3041M. 5/6 | 0015-0035 | 6-3-F | The Chasens / Little Joe with new 12.5mm orthoscopic / - / Moon, Jupiter, general. CN-5.

- 3042EM. 6/7 / 2350-0035 / 6-F / The Chasen's / Little Joe / - / Lunar Halo - CN-1, 5, VSO-1.
- 3043EP 7/8 / 2330-2340 / 6-F / The Chasen's / - / - / CN-5.
- 3044E. 8/9 / ~ 23~~00~~³⁰-2345 / 7-F - Bright Lights + Moon / - / - / CN-5
Richmond, Va.
- 3045EP. 9/10 / ~ 2330-2340 / 7-F - Lights + Moon again / Dillon, South Carolina / - / - / CN-5.
- 3046M. 10/11 / 0030-0125 / 7-F-A / Stardust Motel, Woodbine, Georgia / Little Joe / - / CN-1, CN-5, VSO-1. An excellent observing session. Still lights in motel lot but much better than last two nights.
- 3047E. 11/12 / 2200-2215 / 2-3-F / Palm Aire, Sarasota, Florida / Little Joe / Beverley, Murray Harran / Jupiter, M45.
- 3048M. 12/13, 10 115-0205 / 3-2-F - B+ / Palm Aire / Little Joe / - / CN-5, VSO-1.
- 3049EP. 15/16 / ~~22~~ ~ 2100 - ~ 2110 / 7-F / On plane, about 100 miles E of NY City / general observation; a star apparently below obs. site.
- 3050E. 16/17, 3099.2 / ^{1900-A15} 1200-1215 / 7-6-F / Park near Grand Beach Hotel, Tel Aviv, Israel / - / Beverley / general.
- *3051EM. 17/18, 3100⁴ / 1140-1220 Israel Time / ^{8-6-f-Att /} Roof of G.B. Hotel, Tel Aviv, Israel / Boulder / - / CN-1, CN-5, VSO-1.
- 3052E. 18/19, 3101.2 / 1735-1830 / 7-F-A / Roof of G.B. (Tel Aviv) Boulder / 3 others / CN-1, 5, VSO-1.
- 3053E2 3101.3 / 2215-2230 / 8-9-F / Beach at Tel Aviv / Beverley + 2 friends / - / - / general.

- 3054M. 19/20, 3102 / ~ 0000-0015 / 7-F / Parkman G.B., Tel Aviv / - / - / CN-5.
- 3055E. 20/21, 3103.3.4 / 2150-2300 / 7½-F-A- / Parkman G.B., Tel Aviv / Boudier / - / CN-5, VSO-1.
- * 3056E. 26/27, 3109 / 1700-1715 / 8.5 (because of lights) - F / Western Wall, Jerusalem, Israel / - / others, hundreds of others / Jupiter, Venus.
- 3057E. 28/29, 3111 / 1040-1055 / 3-F / Moriah Hotel, Jerusalem, Israel / - / - / General.
- 3058EP. (cf before 3056) : 21/22, 3104 / 2300-2310 / 3-F / Nof Hotel, Haifa, Israel / - / - / General.
- 3059E. 29/30 / 2300-2315 / 3-F / Laromme Hotel, Eilat, Israel / - / - / CN-5.
- 3060E. 30/31 / 2215-2230 / Tennis Courts at Laromme, Eilat / - / - / CN-5, VSO-1. / 3-F.
- 3061EP. DECEMBER 1/2 / 2345-2355 / 3-F / - / Beverley, Mikee Lee / CN-5.
- 3062SP. 2/3 / 1325-1335 / 3-F / Laromme, Eilat / Beverley / - / CN-5.
- 3063E2. 2245 to 0000 / 8-F / - / A / Laromme, Eilat / Boudier / - / CN-1, CN-5, VSO-1. View of Canopus, 1 Geminiid, M31.
- * 3064E. 3/4, 3116.4 / 2225-0000 / 7-F, Bt / Tennis Courts, Laromme Hotel, Eilat, Israel / Boudier / - / CN-1, CN-5, VSO-1. 071044 L² Puppis: my most southerly variable.
- 3065SP. 4/5, 3117. ⁰ / 2 / 1430-1440 ~ / 7-F / Laromme Swimming Pool, from middle... / - / - / CN5 Sun Ven.
- 3066E2. 3117.1.2 / 1720-1810 / 7-F-A / Tennis Courts, Laromme Hotel, Eilat / Boudier / - / CN-1, 5, VSO-1. ♀, ♂, M13, 31, 1 satellite.

- 3067EP3 2/25-2/35/7-F/Eilat/-/Beverley + 2 others/ Beverley pointing out Orion, Jupiter to others.
- 3068E 5/6, 3/18/ 1840-1920/7-F-B+(bright man)/ Tennis courts, Laromme Hotel, Eilat, Israel/ Boulder/-/ CN-1, CN-5, VSO-1.
- 3069E 6/7, 3/19/~~18~~ 1730-1800/3-F-B/ St Katherine's Monastery, Mt. Simi, Israel/Tigger, Hercules, Nikki/Beverley/ Jupiter. CN-1. VSO-1. 3 photos. See draft.
- 3070E2 2045-2145/3-F/St. Katherine's Monastery, Mount Sinai/-/other/general.
- *3071MS3 0330-1000/3-2-F/from St K. to summit of Mt. Sinai and back/Hercules/Beverley + 3 others/photos of sunrise. General.
- 3072E 8/9, 3/21/ 1725-1800/9-F-B+/ Tennis Courts, Laromme Hotel, Eilat/ Boulder/-/ CN-1, CN-5, VSO-1.
- 3073E2 2145-2350/7-F-B+(moon)/Tennis courts, Laromme Hotel, Eilat/ Boulder/-/ CN-5, VSO-1.
- 3074SP 9/10, 3/22/ ~1430-1440~/8-F/Laromme Hotel/-/Beverley/CN-5.
- 3075E 10/11, 3/23.4/~~13~~ 2335-2350/8-F/Moriah Hotel, Jerusalem/Tigger/-/ CN-5, VSO-1. M45, 42. See draft.
- 3076SP 11/12/ ~1500--1510/9-F, a deep blue sky/Montefiore Park, Jerusalem/-/Beverley/CN-5 Sun Vicinity.
- 3077E2 3/24.2/1800-1840/8-F-A-/Herod's Tomb, Jerusalem/Boulder/ | passerby/ M42, 45, 31, Double Cluster. Watching Orion and Poriga rise over old city of Jerusalem: very classy. CN-1, CN-5, VSO-1.
- 3078EP3 2150-2200-~~18~~8-F/Israel Museum, Jerusalem/-/Beverley/ pointing out stars to each other.

- 3079EM4 2320-0025/8-9-F-B./Tigger/Beverley
 Part 1: 2320-0000/From Israel Museum to Moriah Hotel,
 Jerusalem/Views of Jupiter, Saturn, Canopus, CN-5.
 Part 2: 0000-0025/outside Moriah Hotel/M42, 45, VSO-1.
- 3080E 12/13, 3125.4/2245-2315/8-F-Bt/Parkman Grand Beach Hotel,
 Tel Aviv, Israel/Boulder/1 passerby/CN-1, CN-5, VSO-1. 1
 Geminaid. See Journal entry.
- 3081E 15/16/1820-1840~GMT/4-F/around Sebba's house, London,
 England/-7 Beverley/view of Jupiter and magnitude estimate
 of about +3.
- *3082S. 18/19/1575-1600/1-F/Stonehenge, England/Hercules, Arcturus/
 Beverley, others/photographs of Stonehenge. Typical exposure
 was 1/2 sec at f/8.
- 3083E. 20/21/2000-2020/8-F/air over East U.S./-1/Beverley/Orion. Sirius
 rising & getting higher as Earth moves eastward & we move southward.
 Intermittent glances until 2230.
- 3084E. 21/22, 3134.6.7/*10-F/Bt/mild-moderate asthma/Fox home,
 Sarasota, Florida/Little Joe, Nelson/-/CN-1, CN-5, VSO-1: 17var.
- 3085E 24/25, 3137/1830-1940/7-F-B-(dewing very severe)/Hollings-
 worth Campground, Gibsonia, Florida/Little Joel/-/CN-5, VSO-1.
- 3086EM2 2150-0030/9-F-A/Hollingworth Cgd, Gibsonia/
 Little Joel-/CN-5, CN-III, VSO-1.
- 3087EM 26/27, 3139/2250-0010/9-10-F-A/Yogi Bear Cgd, near Disney
 World, Florida/Little Joel/Phil/Jupiter, M31, M45. CN-III, CN-II, VSO-1.
- 3088E. 27/28, 3140/1830-1900~/8-F/Kennedy Space Centre and
 vicinity, Florida/4 Bev, D+P/-/general.
- 3089E2. 2205-2315/8-3-2-F/-Bt/Yogi Bear Cgd, near Dis-
 ney World, Fla/Little Joel/Phil, 2 others./Jupiter, Saturn, Moon. Canopus
 M42, 45. General obs. CN-III, CN-IIr See draft.

- 3090E 28/29, 3141/2200-2315/8-F-B+/ Bryn Mawr Cgd, Fort Pierce, Florida / Little Joel Debby, Phil, Beverley, 2 others / Jupiter, Saturn, M31, M45, M43, CN-I, VSO-I.
- 3091E 29/30, 3142/1830-1915/8-F-B/ Pied Piper Cgd, West Palm Beach, Fla / Little Joel Debby / Venus, VSO-I.
- 3092EM2 2345-0125/8-9-F-B+/ Pied Piper Cgd / Little Joel / CN-III, CN-II, VSO-I.
- 3093E 30/31, 3143/2025-2125/3-2-F-B+/ Pied Piper Cgd, West Palm Beach / Little Joel / Beverley / Jupiter and Lunar Observation. 16 craters observed. See draft.
- 3094M2 0345-0425/8-6-3-2-F-B/ Pied Piper Cgd / Little Joel / CN-II, VSO-I.
- 3095EP 31/32/2330-2335/2-F/ Pied Piper Cgd / - / others / observation of moon + Jupiter, separated by ? less than 1 degree.
- 3096M2 3144/0040-0135/6-F-B+(later, 6-3-2)/ Pied Piper Campground / Little Joel / Beverley / Observation of moon and Jupiter in same field of 32mm eyepiece. VSO-I.
- 3097EP - 1977 -
January 4/5/2110-2120/2-1-F/5455 Belaire Drive, New Orleans / Nelson / - / Full moon, ? Jupiter.
- 3098E 6/7/8/222⁵~~2~~-~~3350~~~~3~~/4-3-2, Full moon -F-B/ Fox Home, Palm Aire, Sarasota / Little Joel / - / VSO-I, Hyades.
- 3099E 7/8/2220-0000/3-F-A- / Fox Home, Palm Aire, Sarasota / Little Joel / - / CN-5, VSO-I.
- 3100E 8/9/1830-2000/9-F-B+/ Fox home, Palm Aire, Sarasota / Little Joel, Zeus-Lic 7x50, Bander / Manny, Mrs. Kaye, Beverley / CN-II, VSO-I. Venus, Jupiter, Hyades.

- 3101EM2 2340-0050/7-F-Bt/Fox home, Palm Aire, Sarasota/Little Joe, Bounder, Zeus-Lic 7x50 binoculars/Manny and Ethel/Moon, Jupiter, Saturn, M42, M44; CN-5, VSO-I. VZ Cam is at 5.4. See Journal.
- 3102E 9/10, 3153.5/1835-1935/Fox home, Palm Aire, Sarasota/9-F-Bt/Little Joe, Bounder/-/CN-5, CN-1, VSO-1.
- 3103EM 10/11, 3154.7/2240-0005/9 $\frac{1}{2}$ -8-F-A-1/Fox home, Palmaire, Sarasota/Little Joe/-/CN-5, VSO-1.
- 3104E 11/12, 3155.5/1840-2010/8-9-F-Bt/Fox home, Sarasota/Little Joe, Nelson/-/Venus, CN-5, CN-1, VSO-1 $\frac{1}{2}$.
- 3105E2 #, 3155.6/2135-2205/9 $\frac{1}{2}$, F-Btor B/Fox home, Palm Aire, Sarasota/Little Joe/-/CN-5, VSO-1, CN-3.
- 3106M. 12/13, 3156.8/0040-0125/3-2-F/B-/Markham State Park, Fort Lauderdale, Fla/Little Joe/-/CN-5, VSO-1. See draft.
- 3107M. 13/14, 3157.7/~0000-~0020/2-F/Markham State Park/-/-/general.
- 3108M. 14/15, 3158.7/0005-0130/9-f-3-B-/Fox Observatory Site, Markham State Park, Fort Lauderdale/Bounder, Little Joe (see draft: heavy fogging)/-/CN-V, VSO-I.
- 3109M 16/17, 31596.7.8/0015-0200/9.5-F-B (Fogging problems)/Fox Observatory/Little Joe, Nelson/-/CN-V, VSO-I. CN-III. 1 catalogue object.
- 3110SP 17/18/~1515-1520/8-f/Fort Lauderdale Beach/-/-/CN-V.
- 3111EM2 3161.7/2245-0010/9 $\frac{1}{2}$ -10-3-F-Bt (NO FOGGING!)/Fox Observatory/Little Joe/-/VSO-I, CN-V.
- 3112E 18/19, 3162.5.6/1945-2030/3-8-1-F-A-/Fox Observatory/Little Joe/-/CN-V, VSO-I, meteor, Saturn.
- *3113E. 19/20, 3163.7/#2325-0025/10-f/A/Fox Observatory/Little Joe,

Nelson / - / M67; Horsehead Nebula, first confirmed view; CN-5,
VSO-I. A superb night. CN-III.

3114SP. 20/21, 3164 / ~1500 - ~1510 / 8-F / Fort Lauderdale Beach / - / - / CN-5.

*3115E2. 1940-0010 / 2-3-8-9 1/2-3-2-F-A / Fox Observatory / Little Joe,
Modified 8-inch Dynamax, 5-inch Celestron, Nelson / A: B. Sickles,
Ralph Boyd, about ten others from the South Florida Amateur
Astronomers Association / B: Trudy, Claude / Jupiter, Venus, Saturn,
M42, Horsehead, M45, CN5, VSO-I. See draft. Great evening.

3116MP3 0035-0045 / 9-3-F / Fox Observatory / - / - / CN-II.

3117M4 ~0135 - ~0145^{2:00} / 9 1/2-F / Fox Obs - inside van / - / - / general.

3118E. 21/22, 3165 / 2110-2320 / 9 1/2-10+ F-A- / Knights Key Park,
Florida Keys / Little Joe^{Nelson} / - / M45: unconfirmed nebulosity; CN-II,
CN-III, VSO-I. Incredible sky.

*3119E. 22/23, 3166.5.6 / 1915-2050 / 10-F-A / Knights Key Park, Florida
Keys / Little Joe, Nelson / Beverley / CN-I, CN-II, VSO-I. Superb.

3120EM2. 3166.7 / 2250-0015 / 10-F-A- / Knights Key Park, Florida
Keys / Little Joe / Beverley / Jupiter, Saturn. ~~to~~ ϵ Carinae at -59° .
Horsehead, D_b C₁, Pleiades. Fantastic structure in Milky Way
of Puppis, Pyxis, Vela + Carina. CN-II, CN-III. Wow!

3121E. 23/24, 3167.5.6 / 1930-2105 / 9 1/2-9-F-B / Knight's Key Park,
Florida Keys / Little Joe, Nelson / - / VSO-I.

3122EM2. 3167.7 / 2250-0050 / 10-F-A- / Knight's Key Park / Little Joe,
Nelson / - / D_b C₁ / M44, 82, 97, 81. 82 has mottled appearance with
averted vision. CN-II, CN-III, VSO-I.

3123SP 24/25, / ~1515 - ~1525 / 9-F- / Knights Key / - / - / CN-II. Sun Ven.

3124^SER ~~18~~ 1750-1830 / 9-F / Knights Key / - / Beverley / Sunset and
CN-II, Tw + Hzn.

- 3125E3 3168.5.6/1850-2040/9-F-B/Knight's Key Park, Florida Keys/
Little Joe/Nelson/-/CN-I, CN-II, VSO-I.
- *3126EM4 3168.6.7/2225-0050/3-10-F-A-/Knight's Key Park, Florida
Keys/Little Joe/-/H.44⁵ in UMa. CN-III. CN-II VSO-I. GK Per at
13.0 with LJ, 4mm. Z Cam at 11.7. Fantastic.
- 3127E 25/26, 3169.5, 6/31910-2055/3-8-9-F-B+/Knight's Key Park, Fla. Keys/
Little Joe, Nelson/one other/Venus, Saturn, Jupiter, Moon. CN-I,
CN-II, VSO-I.
- 3128E2 3169.7/2240-2350/10-F-B or A-/Knights Key Park/Little Joe/-/
CN-III, VSO-I.
- *3129S 26/27, 3170/1600-1710/10-F/Knights Key Park/Little Joe,
Nelson, Boulder/Sun - no spots, SSII. LPO-I; Venus, Jupiter, Moon.
Drawings of Venus and Jupiter. CN-II. See draft.
- 3130E2 1755-1810/3-F/Knights Key Park/~~#~~Per Hercules,
Arcturus/Beverly/Sunset, CN-II.
- 3131E3 3170.5/1910-2010/8-3-2-F-B+/Knights Key Park/
Little Joe, Nelson/-/VSO-I. ~~645~~
- 3132EM4 3170.67/2205-0010/8-3-F-A-/Knights Key Park/Little
Joe, Nelson/-/Jupiter, Saturn, Mizar, Polaris, δ And; D δ Cl,
M44, 45; Moon; CN-II, CN-III; VSO-I.
- 3133E 27/28, 3171.5/1900-1920/3-7-F-B; bright $\frac{1}{4}$ moon, some
haze/Knights Key Park/Boulder/-/VSO-I. 6 var.
- 3134E2 3171.6/2125-2240/7-3-F-B+/Knights Key Park,
Florida Keys/Little Joe, Boulder/Beverly + 2 others/Jupiter,
Saturn, Moon, M42, VSO-I.
- 3135MP 28/29, 3172.7/~0015-0025/2-3-F/Fox home, Palm Aire,
Sarasota/-/-/general.

- 3136E 29/30, 3173.6.7 / 2135-2300 / 4-3-F-B / Fox home, Sarasota, Florida / Little Joe, Nelson / Marvin, Annie / Jupiter, Saturn, Moon, M42. CN-V, VSO-I.
- 3137E 31/32, 3175.6.7 / 2125-2335 / 6-3-F-Bin A- / Fox home, Palmdale, Sarasota / Little Joe, Nelson, Boulder / - / Algol at minimum. CN-V. VSO-I. 2.5 Var = 307 in January.
- * 3138M2 3176.0 / 0555-0625 / 9-F-A / Fox home, Sarasota / Nelson, Boulder, Little Joe / - / CN-5, VSO-I.
- 3139E. — FEBRUARY 5/6, 3180.6 / 2100-2205 / 7-F-A-; Abysmal Conditions: Motel parking lot, lights from motel; Neon lights in van; Full moon; Cold; Windy. / Crossroads Motel, Perry, Georgia / Little Joe, Nelson / - / Jupiter, Saturn, Moon. M42, 44. CN-V, VSO-I; 31 Var.
- 3140EP 6/7 / ~1830-~1840 / 7-F / Atlanta, Georgia / - / - / CN-5.
Twt Hzv.
- 3141E2 3181.5.6 / 2000-2115 / 6-F-B, Motel lights wash everything out. / Alamo Plaza Hotel Courts, Atlanta, Georgia / Little Joe / - / CN-5, VSO-I. Satellite in field of R Cam.
- 3142E 7/8, 3182.6 / 2055-2150 / 7-F-B+. Motel lights / Alamo Plaza, Atlanta, Georgia / Little Joe / - / CN-5, VSO-I. Satellite through M42: See draft.
- 3143E 8/9, 3183.7 / 2245-0020 / 7-F-B+ (more lights than last night) / Alamo Plaza, Atlanta, Georgia / Boulder, Little Joe / - / Moon. CN-5, VSO-I.
- 3144E 9/10, 3184.5 / 1915-2000 / 7-F-B+ / Alamo Plaza, Atlanta, Georgia / Little Joe, Nelson / Venus, M31, CN-5, VSO-I.
- 3145E2 .6.7 / 2040-2310 / 7-F-B or B+ / Alamo Plaza / Little Joe, Nelson / CN-5, VSO-I.
- 3146EM 10/11, 3185.7.8 / 2320-0210 / 6-F-B or B+ / Alamo Plaza, Atlanta, Georgia / Little Joe, Nelson, Boulder (mounted on Vladimir) / one, briefly / CN-V, VSO-I. cf Journal, draft.

- 3147MP2 ~0255-0305/6-F/Alamo Plaza, Atlanta Georgia / Boulder / - / observation of Draco.
- *3148E. 11/12, 3186.6 / 2050-2130 / 1-2-F / Fernbank Science Centre Observatory, Atlanta, Georgia / Thirty-Six inch Tinsley Cassegrain reflector, 55mm (~200p) with 3-inch finder, 6-inch guidescope and coronagraph. Seven other telescopes. / Beverley plus about 30 others / ~~to~~ LPO-I's Jupiter. See draft and Journal.
- 3149SEP 13/14, 3188 / 1820-1830 EST / 3-F / ^{near GORDON,} ~~some~~ here in southern Alabama / - / Bev / CN-5, (Twt Hzn), sunset. Beautiful sunset.
- 3150E2 .56 / 1855-1955 / 3-6-8-F B / Arrowhead Campsites, Marianna, Florida / Little Joe / - / M42, 1 meteor, Isabellite, VSO-I.
- 3151E3 .6.7 / 2120-2225 / Very light cloud covering entire sky. Conditions similar to *2911EM. so 4-F-Bt / Little Joe, Nelson / - / Jupiter, Saturn. CN-II, VSO-I.
- 3152SEP 14/15, 3189 / ~1745-~1755 / 5-7-F / Biloxi, Mississippi / - / Bev / CN-5 (Twt Hzn) + sunset.
- 3153E2 3189.56 / 1845-2025 / 2-F / ^{Bt} Graywood Campground, Gulfport, Mississippi / Little Joe, Nelson / one, briefly / M42, CN-II, VSO-I including X Gem at 12.3 and GK Persei (Nova of 1901) at 13.1, the latter with the 4mm eyepiece.
- 3154E3 3189.7 / 2210-2355 / 8-9-F-A- / Graywood Campground, Gulfport, Mississippi / Little Joe and Nelson / Beverley and four others, for sight seeing. / Jupiter, Saturn, M81, M82, M45. CN-II, VSO-I, including all my Camelopardalis variables: VZ, R, S, A4, X, Z, and RR.
- 3155M4. 3190.0 / 0500-0520 / 9-F-A-or Bt / Graywood Campground, Gulfport, Mississippi / Nelson / - / CN-II. VSO-I.
- 3156SP 16/17, 11045-1055 / 9-F- / Graywood Cgd, Gulfport, Mississippi / - / - / CN-II (Sun Ven).

- 3157E 16/17, 3191.7 / 2150-2245 / 5-3-F-A- / Grandma Pearl's Apartment on St Charles Avenue, New Orleans, Louisiana / Little Joe / - / CN-II, Saturn. VSO-I. See draft.
- 3158EP 17/18, 3192 / ~1930-1940 / 6-F / in front of 3000 St Charles / - / Grandma / general, pointing out Venus + Jupiter. At Mardi's Gras parade.
- 3159E2 3192. / 2110-2220 / 7-F-B / 3000 St Charles Avenue, (Grandma's Apts), New Orleans / Little Joe, Nelson / - / Mizar, Alcor, M42, M35. CN-II, VSO-I.
- 3160EP 18/19, 3193 / 9 ~ 2015 - ~ 2020 / 5755 Bellaire Drive, New Orleans / - / Jeffrey + others / pointing out Venus + Jupiter.
- 3161E2 3193.7 / 2240-2305 / 5-4-3-F-B+ / 3000 St Charles Ave, New Orleans / Little Joe / CN-II, VSO-I.
- 3162M 19/20, 3194.8.9 / 0215-0235 / 7-F-B / 3000 St Charles, Balcony AND Pool area, New Orleans, La / Tigger, Nelson / - / CN-II, VSO-I.
- 3163S. 20/21, 3195 / 0145-0200 / 7-F / 3000 St Charles, Balcony, New Orleans / Little Joe + Jeffrey, Marcy / telescope test. Sign, Sun. (Demonstration.)
- 3164EP2 3195. / ~~~1815~~ ~ 1800 ~ 1830 ~ 1835 / 5455 Bellaire Drive, New Orleans / Beverley, Jeffrey. (others) / - / pointing out to above two: ♀ Venus, Jupiter, Moon, Rigel.
- 3165E3 3195.7 / 2315-2355 / 6-F / Bor. Bt / Balcony Station (of Grandma's Apt) 3000 St Charles Ave, New Orleans / Little Joseph, Nelson / - (but excitement on street below) / M42. CN-II, VSO-I.
- 3166E 21/22, 3196.5 / 1845-1900 / 7-F / 5455 Bellaire Drive, New Orleans, La / - / Jeffrey, Marcy, Beverley / Jupiter, Venus, Moon (near Venus), β Betelgeuse, Pollux, Castor, Polaris, UMa; CN-II, VSO-I.
- 3167EP2 3196.6 / ~ 2215 ~ 2220 / 5455 Bellaire Drive / - / Jeffrey, Marcy / general. Jupiter lower, Venus already down, more of UMa up.

02 77

03 77

- 3168EM3 3/16.7.8/2310-0010/7-F-A/Pool station, 3000 St Charles Avenue, New Orleans / Little Joseph, Nelson /- / CN-II, VSO-I. Mardi-Gras eve.
- 3169MP 22/23, 3197.8/0015-0020/4-3 (rapidly moving clouds) -F/Balcony Station, 3000 St Charles Ave, New Orleans; Mardi Gras Night /- /- / CN-II - Dome - many obstructions - 31.5.
- 3170EP 23/24, 3198 / 1935-1945 / 2-4-F (rapidly moving clouds AFTER storm) / 5455 Bellaire Drive, New Orleans /- /- / Dome, but many obstructions from clouds. 1.5-2 mag.
- 3171EP2 2340-2350/4-F/Pool station, 3000 St. Charles Avenue, New Orleans /- /- / Dome - 1.5.
- 3172M. 24/25, 3199.8/0000-0105/4-F-B/Balcony Station, 3000 St. Charles Ave, New Orleans / Little Joe, Nelson /- / Saturn. Mizar. m44, m67. CN-II, VSO-I.
- 3173E. 25/26, 3200.5.6/1900-2000/6-F/5455 Bellaire Drive, ^{+ sun} New Orleans /- / Jeffray and Marcy / CN-5, Dome. - 2. General explanatory session.
- 3174E. 27/28, 3202.6 7/2125-2240/7-F-A- / 5455 Bellaire Drive, Pool Stn, New Orleans / Little Joe /- / M42. CN-5, VSO-I:19.
- 3175S 28/29, 3203 / ~~2240-2310~~ 1510/7-F / New Orleans Fairgrounds (Race Track) / - Nelson / Beverley / Moon, Venus. Venus is very bright now.
- 3176E2 .7/2140-2255/6-F-BtoBt/5455 Belkair Drive, Pool station, New Orleans / Little Joe / Aunt Bev bh / M42. CN-II. VSO-I:10.
- ** 3177M2 .8/0030-0045/6-7-F-A/5455 Belkair Drive, Driveway Station, New Orleans / Nelson, Boulder /- / VSO-I. RCrB begins descent. cf Draft, Journal.
- 3178E MARCH 1/2, 3204/2305-2350/7-F-A/5455 Bellaire Drive, Pool Stn, New Orleans / Little Joe /- / M42. CN-II. VSO-I:11.

- 3179EP 2/3, 3205/~2000~2010/around Lakeshore, New Orleans (near Bart's Restaurant) | 2-F/-/ Beulah, Jack, Beverley/Venus.
- 3180SEP 4/5, 3207/~1815~1825/not far from Smithville, Texas | 8-F/-/-/ Sunset + ~~2~~ CN-V (TH).
- 3181E2 3207.6/1925-2030 | 8-F-A | Buescher State Park, Smithville, Texas | Little Joe | Beverley/Venus: a beautiful, thick crescent. CN-V, VSO-I: 16.
- 3182EM2 3207.6.7.8/2125-0005 | 8-F (Full moon) - A+ | Buescher State Park, Smithville, Texas | Nelson, Boulder, Little Joe | Many animals not far away (wolves) | CN-V. VSO-I: 34.
- 3183E. 5/6, 3208.7/2235-2345 | 2-3-F-B-, Cold + windy | Caverns of Sonora, Sonora, Texas | Little Joe | Saturn, Jupiter, Moon. M42. CN-V. VSO-I: 3.
- 3184E 6/7, 3209/1900-1910 | 8-F | Trapark, Pecos, Texas | ~~A+~~ -/-/ CN-V. (Twilight Horizon).
- 3185E2. 3209.6/2010-2025 | 8-FB | Trapark, Pecos, Texas | Nelson | -/ CN-I, VSO-I-4.
- 3186E3 3209.7/2240-2350 | 8-F-A (full moon) | ~~L~~ Trapark, Pecos, Texas | Little Joe | -/ Saturn in X Cnc field. M42. CN-V, VSO-I: 21.
- MOUNTAIN STANDARD TIME
- 3187E. 7/8, 3210.8/2310.7/2210-2255 | 4-F (bright moon, worst parking lot yet) - B/ Lakeside Inn Motel, El Paso, Texas | Little Joe | -/ CN-V. VSO-I: 3. Positional sketch of Saturn in X Cnc field.
- 3188E. 8/9, 3211/~1945~2000 | 2-F | near; but east of, Tucson, Arizona | -/ Beverley | observation of Venus + Jupiter through the light clouds | like 3081E in London.
- 3189EP 9/10, 3212/~2010~2015 | 8-F | 6341 E. Brian Kent, Tucson, Arizona | -/ Jerry Schreiber | general.

- 3190E2. March 9/19 3212, 7.8/2110-0000/8½-9-F-A/6341 E. Brian Kent, Tucson
Little Joe/Grandma, Stevie, Jerry, Beverley, (Happy + Chinook).
CN-V. Jupiter, Saturn, Mizar, M42. VSO-I: 29.
- 3191E 10/11, 3213.7.8/2200-2330/7-F-B+orA-/6341 E. Brian Kent,
Tucson/Little Joe/Jerry Schreiber/Saturn, Jupiter, M42. ~~GA-I~~, CN-III,
CN-II. VSO-I: 8.
- 3192E. 11/12, 3214. 7.8 / 2145-2310/8-F-B+/6341 E. Brian Kent,
Tucson/Little Joe, Sears 60mm Refractor/Jerry Schreiber/Jupiter,
Saturn; Constellation Review. M42. CN-I. VSO-I: 11.
- 3193S 12/13, 3215/1500-1530/10-F/ Vista, Mount Lemmon/Tigger/
Beverley/Venus seen with unaided eye, no help from Tigger / → CN-V, Sun Ven.
- *3194E. . 7.8/1930-2330/7-F-A-/6341 E. Brian Kent, Tucson /
Little Joe, Sears 60mm refr., Nelson/Jerry/Venus, Jupiter, Saturn. CN-II:
3 photographs. CN-V. LPO-I; first view of asteroid # 44 NYSA.
GA VSO-I: 22.
- 3195EP1 13/14, 3216/2005-2015/8-F/6341, vcn/ - / Beverley/general.
- 3196EP2 2100-2110/8-F/6341, vcn/ - / Beverley/general.
- 3197E3. 2205-2335/8-F/A/6341 E Brian Kent, Tucson/Little Joe/
Jerry. / LPO-I: Nysa. Jupiter and Saturn of M42, M44. CN-V. VSO-I: 12.
- 3198S 14/15, 3217/1200-1230/10-F/Kitt Peak National Observatory/
4? inch Solar Telescope at visitor's centre/Beverley, Jerry/SS-II: no
spots.
- 3199EP2 3217.6/~1900-~1910/6-F/6341, vcn/ - / Beverley/general.
- 3200EP3 .6/~2000-~2015/6-F/6341, vcn/ - / Beverley/general.
- 3201EM4. . 8/2330-0025/6-8-F-B+/6341 E. Brian Kent, Tucson/Little
Joe, Nelson/~~mt~~ Jerry/ LPO-I: Saturn, Nysa. Saturn in X Cnc Field,
CN-V. VSO-I: 14.

3202EM 15/16, 3218/2220-0005/8-F-A/6341 E. Brian Kent, Tucson/Little Joe/
Jerry/Saturn. LPOI: Nyse. M42, M44, M81, M82, M1. CN-II. VSO-I: 16.

3203E 17/18, 3220/1930-2105/10-F-A-/Gringo Pass Campground, Organ Pipe
Cactus National Monument, Lukeville, Arizona/Little Joe, Nelson/one
other/CN-5. VSO-I: 11.

*3204E2 2225-2355/10-F-A-/Organ Pipe Cactus.../Little Joe/-/
M44, 51. CN-II. VSO-II: 18. First view of a Quasar; 3C-273 Virginis.

PACIFIC STANDARD TIME

3205E 18/19, 3221.7/1930-2110/10-F-A/Pio Pico Park, Jamul, California/
Nelson, Little Joe/-/CN-5. VSO-I: 17.

3206EM2 3221.8/2230-0020/Little Joe, Nelson/10-F-A-/Pio Pico Park,
Jamul, California/Little Joe, Nelson/-/Uranus. Bright Meteor.
CN-III. CN-II. VSO-I: 5.

3207EP 19/20, 3222/1815-1825/7-F/Campland, San Diego, California/
Nelson/Beverley/Venus. Crescent seen w/ unaided eye before binoculars
Jupiter.

3208E2 3222.6.7/1925-2010/6-F-A/Campland, San Diego, California/
Little Joe, Beverley/Venus. (Thin Crescent). Saturn, Jupiter.
CN-5. VSO-I: 14.

3209E3 ~~3200~~ 3222.8/2230-2345/6-F-B+/Campland, San Diego/
Little Joe, Boulder/-/CN-II. VSO-I: 4.

3210MP4. 3222.9/0145-0155/5-F/Campland, San Diego/Boulder/-/
VSO-I: 2.

3211
~~3211E~~ 20/21, 3223.7/1815-1905/Mission Bay Campland, San Diego,
California/-/-/Moon: very thin crescent. Venus crescent visible.
CN-II. VSO-I: 1. A walk around campground.

3212
~~3212E~~ 2115-2135/6-F-B/Mission Bay Campland, San
Diego/Little Joe/Beverley/Jupiter, M42. VSO-I: 3.

- 3213E3. March 20/21, 3223.8 / 2240-2350 / 6-F-Bt / Mission Bay Campground, San Diego / Little Joe / - / Uranus. Procyon. M44. Meteor. CN-V. VSO-I: 6.
- 3214EM 21/22, 3224.8 / 2345-0025 / (some fog) 4-F-B- / Mission Bay Campground, San Diego / Little Joe / - / Saturn, ? Uranus, CN-V, VSO-I: 2.
- 3215E 22/23, 3225 / 2040-2110 / 4-FB / Rancho Corrida Cgd, Pauma Valley (of Palmar Mountain), California / Little Joe / - / VSO-I: 9.
- 3216MP 23/24, 3226 / ~0000-~0010 / 3-F / 2721 S. Beverly Drive, Los Angeles, California / - / - / Dome (2) of CN-V.
- 3217EP 25/26, 3228 / ~2230-~2240 / 5-F / 2721 S. Beverly / - / - / CN-V. Dome 15
- 3218M2 3228.9 / 0005-0055 / 6-f-B / 2721 S. Beverly, Los Angeles / Little Joe, Nelson / - / CN-V, VSO-I: 7.
- 3219E. 26/27, 3229 / 2030-2050^{7-f} / Griffith Observatory, Los Angeles, California / 12" refractor, 9 1/2" refractor, 41x + 140x res p. / Paul Klein, Beverley Moon, ? Alphonse area. CN-V.
- 3220EM2. 26 3229.8.9 / 2150-0025 / 6-F / G 2721 S. Beverly Drive, Los Angeles / Little Joe / Fritziel / CN-V. VSO-I: 19.
- *3221E. 28/29, 3231.7.8 / 2000-2340 / 6-F-Bt / 2721 S. Beverly Drive, Los Angeles / Little Joe, Nelson / - / CN-V. VSO-I: 33.
- 3222EP 29/30, 3232 / 1815-1825 ~ / 7-f / between Anaheim and Los Angeles / - / Bev / sunset + CN-V. (Twt Hzn.)
- 3223E2 2000-2100 / 6-F-Bt on A- / 2721 S. Beverly Drive, Los Angeles / Little Joe / - / VSO-I: 12.
- 3224E3 2205-2305 / 5-F (moon) - Bt / 2721 S Beverly Drive, LA / Little Joe / - / Saturn. ^{moon} LPO-I drawing of Jura mtns. See draft. VSO-I: 1. CN-V.
- 3225EP 30/31, 3233 / 6-7-F / 1815-1825 / see 3222EP / - / - / CN-V.

- 3226E2 1910-2005/7-3-F-BT/2721 S. Beverly Drive, Los Angeles/
Little Joe/-/Saturn. LPO-I: moon. sketch, see draft. VSO-I: 11.
- 3227M3 0015-~~0030~~⁰¹⁵/5-F-A-12721 S. Beverly/Little Joe, Boulder/
-/CN-II. LPO-I: URANUS: on the day that discovery of her
rings was confirmed. VSO-I: 9.
- 3228SEP March 30/31, 32234/1810-1820/7-F/cf. 3222EP/-/Bev/Sunset
and CN-II: TH.
- *3229E2 1915-2025/6-F-A-12721 S. Beverly Drive, Los Angeles/
Little Joe/Jack + Dolores, Shelly + Jack, Joyce, Jerry Colker/
Jupiter, Saturn, Moon & Mizar, M42. VSO-I: 14; total for
March now 404.
- 3230E3 2155-2245/6-F-A/3003 Castle Heights, Los Angeles/
Little Joe/Paul/Saturn, Uranus, Moon/CN-II: VSO-I: 6.
- APRIL
- 3231EP APRIL 3/4, 3237/7-F/1900-1910/2721 S. B. D. + ven/-/Bev/
Lunar obs. some darkening noted.
- 3232MP (cf before 3231) 2/3/3236/~0030-~0040/5-F/3003 Castle Hts/
-/-/general.
- 3233EP (cf before 3232) 1/2, 3235/~2300-~2305/7-F/4-F/2721 S. BD/+-/
general. Order of sessions should be 3233, ~~3232~~ 3232, 3231, 3234.
- *3234E2 3/4, 3237/1955-2110/7-F-BT/2721 S. Beverly Drive, Los Angeles/
Hercules/Jack Horowitz, Luis Soto, Jack Colker/Lunar Eclipse.
See draft.
- 3234⁵SEP 4/5, 3238/1815-1825/7-F/cf 3222/-/Bev/Sunset + CNV: TH.
- 3234⁶MP2 ~0000-~0005/4-F/3003 CH/-/-/general. CN-II: 1,5.
- 3234⁷E 5/6, 3239/2310-2350/5-F-BT or A-13003 Castle Heights, Los
Angeles/Little Joe/Paul/Saturn, Moon. CN-II. VSO-I: 11.

3238EP 6/7, 3240/1915-1925/7-F/Victorian Park, Ventura, California/
-/-/general.

3239E2 ~2030-~2035/7-F/Victorian Park, Ventura, California/
-/-/general.

3240EM 7/8, 8/9, 3242. / 00030-0100 / 7-3-f-A / 3003 Castle Heights,
Los Angeles / Boulder, Nelson / Maxwell / CN-II. VSO-I: 13.

3241M 9/10, 3243. / 0105-0140 / 7-f-A / 3003 Castle Heights, Los
Angeles / Boulder, Nelson / Paul / CN-I. CN-II. VSO-I: 8.

3242E. 10/11, 3244. / 2025-2040 / 7-f-A / 3003 Castle Heights, Los
Angeles / Little Joe / Paul / CN-II VSO-I: 7.

3243M2 8, 9 / 0005-0050 / 7-f-A- / 3003 Castle Heights / Little
Joe / - / CN-II. CN-I. VSO-I: 7.

3244M 11 A / 12, 3245. 8, 9 / 0005-0040 / 6-f-B- / 3003 Castle Heights,
Los Angeles / Little Joe / - / CN-II. VSO-I: 3.

MOUNTAIN STANDARD TIME

32465E2 12/13, 3246 / 1930-~1945 / 9-f / Circle S Campground, Kingman,
Arizona / - / Sunset + CN-II. TH.

*3246E2 + 3246.6, 7 / 2010-2150 / 9-f-A / Circle S Campground, Kingman,
Arizona / Little Joe / Beverley / Mercury!, Saturn, M44. CN-II. VSO-I: 30.

*3247E 13/14, 3247 / 2020-2240 / 10+, f-A+ / Woody Mountain Campground,
Flagstaff, Arizona / Little Joe / - / Saturn. M44, 81, 82, 35, 51. Meteor.
CN-II. VSO-I: 12. See draft.

3248E 14/15, 3248 / 2020-2040 / 10-f-A- / Trailer Village, South rim,
Grand Canyon National Park, Arizona / Little Joe, Nelson / - / VSO-I: 6.

3249E2 2130-2205 / 10+ -f-A / Trailer Village, Grand Canyon / Little
Joe, Nelson / - / VSO-I: 14.

**3250E3 2225-2330 / 11+ -f-A+ / Trailer Village, Grand Canyon /

Little Joe | - | 7.2 (near RGB) seen with naked eye - 4 confirmations. M44, 13. CN-II. VSO-I: 11 van seedraft.

3251E M4. ~0400-~0415/10+-F-/Trailer Village | - | view of bright m.w. cloud overhead in Cygnus.

3252E 15/16/ 2050-2300/11-F-A+/Trailer Village, Grand Canyon Natl. Park | Little Joe, Nelson | - | M35, 44, 50 others. Satellite. CN-II. CN-I. CN-III: 15. VSO-I: 10. See draft.

3253E 16/17, 3250.7/ 2130-2240/10+-F-A/Trailer Village, South Rim, Grand Canyon National Park, Arizona | Little Joe | - | M51, 42. CN-I. CN-III: 15. CN-V. VSO-I: 12.

3254E 17/18, 3251/ 2220-2300/10+-F-A/Thunderbird Motel, Mt. Carmel Junction, Utah | Little Joe, Nelson | - | CN-II, CN-I. VSO-I: 11.
PACIFIC STANDARD TIME

3255E 18/19, 3252/ 2300-2320/2-F-B+/VIP Cgd, Las Vegas, Nevada | Little Joe | - | VSO-I: 2.

3256EP 19/20, 3253/ 1850-1900/10-F-/near Bishop California/HERCULES | Be | Moon over Sierra.

3257E2 2225-2245/6-F/EI Rancho Motel, Bishop, California | Little Joe, Nelson | - | Saturn & Titan. M44. CN-II. CN-I. VSO-I: 2.

3258E 20/21, 1950-2045/10-F-A-/KOA Cgd, Mariposa, California | Little Joe | - | CN-II. VSO-I: 16.

3259E2 2240-2325/10-F-A-/KOA Cgd, Mariposa, California | Little Joe, Nelson | - | CN-I. CN-III: 20.

3260E 21/22/ 2315-2340 Variable light cloud -F-B+/Olema Ranch Campground, Olema, California | Little Joe | - | CN-II. VSO-I: 3.

3261E 22/23, 3256/ 2315-0025 A-FA/ KOA Campground, Petaluma, California | Little Joe, Nelson | - | Uranus. CN-I. CN-II. VSO-I: 18.

- 3262E 23/24, 3257/20p-2025/3-6-F-B+/KOA Cgd, Petaluma, California/Little Joe/-/CN-II: VSO-I: 7.
- 3263EP 24/25, 3258/2340-2350/3-F/KOA Cgd, Petaluma, Calif/H-/CN-II: Dome 2.5, obst. from clouds.
- PACIFIC DAYLIGHT TIME
- 3264E. 25/26, 3259/2300-2345/6-7-3-F-A/KOA Campground, Petaluma, California/Little Joe, Nelson/-/CN-II: CN-I: 3.5 VSO-I: 5.
- 3265E. 26/27, 3260.7.8/2205-2320/7-F-A-/KOA Campground, Petaluma, California/Little Joe, Nelson/-/CN-I, VSO-I: 12.
- 3266M. 27/28, 3261/0055-0115/2-1-F/KOA Campground, Petaluma/Little Joe/-/Moon, Arcturus, C, B stars.
- 3267E. 29/30, 3263/2150 to 2225/2-1-F-B+/Westt Scotland Campgd, Humboldt Redwoods State Park, Westt, California/Little Joe/-/LPO-I: Moon, Saturn. VSO-I: 1. (Saturn in X Cnc field.)
- 3268E. 30/31, 3264.7/2130-2220/6-1-F-A-/Bullards Beach State Park, Bandon, Oregon/Little Joe/-/Moon, Saturn, Arcturus/VSO-I: 4.
- MAY
- 3269EP MAY 3/4, 3267/2350-0000/2-F-B/Dogwood Cgd, Surrey, B.C., Canada/Little Joe/-/VSO-I: 1.
- 3270SP 6/7, 3270/~1600-1610/8-F/Queen Elizabeth Park, Vancouver, B.C./-/-/CN-II: Sun Ven.
- 3271E2 7 12245-2305/4-3-F-B/Dogwood Campground, Surrey, B.C./Little Joe/-/VSO-I: 2.
- 3272EAP 7/8, 3271/~2030-2040/3-F/Don's home, Vancouver, B.C./Bushnell 7x35(?) binoculars/Don Cook/Jupiter, low in west.
- ** 3273EM 8/9, 3272/2150-0115/7-8(lights)-F-A+/Dogwood Campground, Surrey, B.C./Little Joe, Boulder, Nelson/-/CN-I: 4. CN-II: VSO-I: 57. Record for no. var. on a single night, and record for a single session.

- *3274EM May 9/10, 3273.8 / 2315-0035 / 8-F(lights)-A- / Dogwood Campground, Surrey, B.C. / Nelson, Little Joe / one passerby, see draft / CN-I: 4. CN-II. VSO-I: 6. First obs. of Nova Sagittae 1977.
- 3275E ~~10/11~~ 23275 / ~2300 - ~2305 / 8-F / Dogwood Cgd / - / - / CN-II.
- *3276M2 3275.8.9 / 0100-0235 / 8-9-F-A / Dogwood Campground, Surrey, B.C. / Little Joe, Nelson / - / CN-5. VSO-I: 13. First-of-season observations for V1500 Cygni, 2 Cygni, R Scuti and Beverley variables in Vulpecula - R, VZ and DY.
- 3277MP H11/12/13, 3276 / 0000-0010 / 2-F / Dogwood / Little Joe / - / general.
- 3278EP 13/14, 3277 / 2345-2355 / 3-2-F / Dogwood / - / - / general.
- 3279M2 ~0015-~0045 / 2-3-F / Dogwood Cgd, Surrey / Little Joe (hand-held) / - / VSO-I: 1.
- 3280E 15/16, 3279 / 2320-2350 / 2-7-F-B+ / Dogwood Cgd / Little Joe / one passerby / CN-II, VSO-I: 6.
- 3281E 16/17, 3280 / 2215-2240 / 7-3-F-B+ / KOA Campground, near Malahat, near Victoria, B.C. / Little Joe / - / VSO-I: 4.
- 3282E2 2345-0000 / 2-1-F / KOA Cgd, Malahat, B.C. / - / - / general.
- 3283EM 18/19, 3282.8 / 2300-0030 / 6-F-A / Dogwood Campground, Surrey, B.C. / Little Joe, Nelson / - / CN-I. CN-II. VSO-I: 13.
- 3284M 21/22, 3285 / 0040-0400 / 7-6-F-B+ (difficult - damp and fog) / Dogwood Campground, Surrey, B.C. / Little Joe, Boulder, Nelson / one passerby / CN-I. CN-II. VSO-I: 23; 5 parts. Part I: 0040-0055 - ok Part II: 0055-0200 - difficult Part III: 0200-0300 - excellent Part IV: 0300-0340 - difficult Part V: 0340-0400 - ok.
- 3285MP 22/23, 3286 / 0015-0020 / 2-4-F / Dogwood Cgd / - / - / general. view of UMa, Vega, Arcturus.

- 3286S. May 24/25, 3288/1225-1240/3-F/Mark Huggard's cabin, Kelowna, B.C./Nelson/-/SS-II (no spots), CN-II (Sun Ven).
- 3287EM2. 7, 8/2245-0025/3-2-A(moon)-2-F-A/Three Valley Gap Motel, Revelstoke, B.C. ① East side ②+③ West Side/Little Joe, Nelson/2 passersby, see draft/Moon, Satellite. VSO-I: 21 van. Part ①: 2245-~2300, then clouds. Part ②: ~2320-0000, then clouds. Part ③: 0012-0025, then clouds.
- 3288M3. 8/0055-0120/2-1-F-B+/Three Valley Gap Motel, Revelstoke, B.C./Little Joe, unaided eye/-/VSO-I: 1 (Mag: 4.5 with unaided eye.)
- 3289M. 25/26, 3289/0015-0115/2-F-B+/Golden Municipal Park, Golden, B.C./Little Joe, Nelson/-/Saturn. CN-I: 3. VSO-I: 3.
- *3290AN 26/27, 3290/2245-0350/6-A(moon, twilight at start)-3-2-3-9-10-3-F-A+/Sunnyside Trailer Court, Radium (Hot Springs) B.C./Little Joe, Nelson/-/Saturn, Capella as circumpolar. CN-I: 3. CN-II. VSO-I: 35. Twilight until 12:05am. See draft.
- 3291EP 29/30, 3293/2310-2315/1-(mostly)-F/Deer Lodge, Lake Louise, Banff National Park, Alberta/-/-/view of moon.
- 3292EM2 2355-0025/mostly 1-f-B+/Deer Lodge at Lake Louise, Banff National Park, Alberta/Bounder/one passerby/gibbous moon, ?Arcturus + a few other stars. See draft for comment.
- 3293EM 30/31, 3294/2350-0100/4-2-1-3-F-B+/Whistlers Campground, Jasper National Park, Jasper, Alberta/Little Joe, Nelson, Bounder/-/Moon. 1 very fast moving ?satellite, ~1.5mag. (see draft). CN-II, VSO-I: 2.
- 3294MP 31/32, 3295/-0145-0150/2-f/Whistlers Campground, Jasper/-/-/View of Vega.
- JUNE.
- *3295AN JUNE 2/3, 3297/0015-0250/7-F: Twilight lasting all night. First in NW, then NW, N, NE, and N-NE at end. (see draft) At Klondike Valley Tent and Trailer Park, Eilerslie (s. of Edmonton, Alberta)

Little Joe, Nelson - / Capella due Nat 0235. CN-I: 5. CN-II: 1.
VSO-I: 45.

3296SP June 3/4, 1715-1725 / 8-3-F / Elk Island National Park, Alberta /
- / CN-II.

3297EM2 2350-0115 / 8-7-F^{At+} (bright twilight throughout session) / Klondike
Valley Tent & Trailer Park, Ellerslie, Alberta / Little Joe, Nelson /
CN-II. CN-I: 4. VSO-I: 14. M13.

3298MP3 0140-0150 / 7-F-B+ / Klondike... Ellerslie / Little Joe, hand-
held / - / M13. VSO-I: 3.

* 3299AN June 4/5, 3299 / 2335-0310 / 8-F-bright twilight - At+ / Klondike
Valley Tent and Trailer Park, Ellerslie, Alberta / Little Joe, Nelson,
Boulder / - / 3 Satellites. Saturn. CN-I: 5. CN-II: 5 Twt Hz n
checks. See draft. VSO-I: 20. M44.

* 3300M June 5/6, 3300.8 / 0015-0130 / 10-9-f - At+ / Joan Hanson's
House, De Winton, Alberta / Little Joe, Nelson / - / Twt. ended at
around 0030: Aurora, faint HA, then RA4, M31. CN-I: 5. CN-II: 5.
VSO-I: 8 incl. RGB at 13.5 and RS UMa at :140.

3301M2 0215-0230 / 9-1/2-f - A- / Joan Hanson's house / Nelson / - /
CN-II. VSO-I: 93

3302S June 6/7, 3301 / 1830-1850 / Joan's House / \$60mm Turret
Spotting Scope / Joan, Don Cook / SS-II: 2 groups, 3 spots. ☺

3303#AN2 2345-0310 / 9-10-6-3-f - At+ / Joan Hanson's House,
De Winton, Alberta / Little Joe, Nelson / Don (twice), Beverley (4 times),
Joan (3/4 hr), Joan's parents (1/2 hr) / Saturn. β Cyg. M5, 13, 81, 82.
CN-I: 4. CN-II: VSO-I: 10.

3304SP 7/8, 3302 / 1630-1645 / 3-F / Joan's house / Turret Spotting
Scope - / ~~at~~ SS-II (2 groups).

3305S. 9/10, 3304 / 0815-0830 / 7-F / McLean Trans - Canada

Highway Campground, McLean (e. of Regina), Saskatchewan / Little
Joel Beverley / Moon, SS-II. 3 spots. See draft.

- 3306SP2 1200-1205 / 7-F / near Elkhorn, Manitoba / - / CN-II Sun Ven.
(cf draft for 3305.)
- 3307EP3 2245-2255 / 2-1-F / 2245-2255 / see 3308 / - / Arcturus?
- 3308EM4 2330-0020 / 1-1/2-F-B / Cobblestone (Trailer) Resort + Motel,
Raleigh Lake, Ignace, Ontario / Nelson / - / see draft.
- 3309M5 0050-0105 / 2-F / Cobblestone / ^{Nelson} / - / views of C, B + Oph.
- 3310EP - 10/11, 3305 / 2245-2250 / Montreal River Harbour / 3-F / - / Beverley
general.
- 3311M2 0015-0100 / 1-F / Lighthouse Tavern Trailer Park, Batchawane
Bay, Ontario / Nelson / - / see draft.
- 3312EP 11/12 ~~13~~, 3306 / ^{1-F} / 2240-2250 / The Embassy West Motor Hotel,
Ottawa / - / Beverley / general.
- 3313M2 0020-0040 / 2-F-B+ / The Embassy West Motor Hotel, Ottawa /
Nelson, Boulder / - / VSO-I: 7.
- 3314E 13/14 / 2320-2345 / 2-F / 23' LCP-818-LW / Little Joel / - /
Arcturus, & Boo.
- 3315E 14/15, 3309.6 / 2230-2330 / 8-F-A+ / KOA-Kingston
Campground, Kingston, Ontario / Nelson, Boulder / - / CN-I: 4.
CN-II: VSO-I: 16.
- 3316E 15/16, 3310.6 / 2150-2215 / 6-F-A- / Little Joel / Carl + Peggy /
LCP-818-LW / VSO-I: 5. CN-II. 1 Satellite.
- 3317E2. 2300-2325 / 6-F / RASC observatory, Montreal / 8" Celestron /
Carl + Peggy / β Cyg, ϵ Lyr. M57.

- 3318EP June # 21/22 / 2220-2225 / 6-F / Debby + Phil's place,
St. Laurent / Nelson / - / VSO-I: 1.
- 3319EM2 2345-0010 / 9-8-F-A / Green Acres Day Camp,
Vladimir Station / Little Joe, Nelson / - / CN-I, II. VSO-I: 8.
- 3320E 23/24 / 2120-2135 / 5-F / Carl's home, Brossard / Echo / Carl / Moon.
Test for Echo.
- 3321M2 23/24, ⁸ 3322 / 0050-0135 / 6-F-A / LCP-Green Acres - Vlad /
Little Joe / - / CN-II. VSO-I: 6.
- 3322E 26/27, / 2230-2340 / 5-F / LCP-Green Acres - V / Little
Joe, Nelson / - / CN-I, II. VSO-I: 7.
- 3323M 27/28, 3322 / 0050-0140 / 5-F-A / LCP-Green Acres - V /
Nelson, Opera Glass A / - / CN-I, CN-II VSO-I: 21.
- 3324E 30/31 / 2130-2215 / 3-2-F / LCP-Green Acres - RH /
Little Joe / 2 counsellors, ~24 children / Moon, Altair, etc. Seedraft.
- 3371S July 1/2 / 1200-~~1200~~1230 / 7-F / LCP-G-N / Pegasus / other / SS-2.
- JULY
- 3325M2 July 1/2 / 0130-0150 / 7-f-B+ / Ivy Lea KOA Campground,
Ivy Lea, Ontario / Little Joe / Carl + Peggy / Alberca,
the triple in Cephus, M31. CN-II. VSO-I: 4.
- 3326EM 2/3 2200 - 0040 / 7-f-A / Ivy Lea KOA / Little Joe, Opera
Glass A, Boulder / S Boo. M13, 57. VSO-I: 38. CN-I: 2. CN-II.
- (Carl + Peggy.)
- 3327EP 4/5 / ~~2245-2250~~ / 2-~~f-A~~ / 6-F / LCP-818-LW / - / CN-II.
- 3328EM2 0045-0110 / 2-1-f-B+ / LCP-Green Acres - Vlad / LS / - /
VSO-I: 1.
- 3329S 5/6 / 1325-1350 / 3-F / LCP-Green Acres - Nature / Pegasus,
~24 children + counsellors / SS-II. No record taken of
the 2 visible spots.

- 333052 1415-1440 / 3-f / LCP-Green Acres - N / Pegasus / ?
~12 children + counsellors / Sun.
- 3331E3 2130-2350 / 9-8-2-F-B+, A- / LCP-G-B / Pegasus /
~30 children, Leon, Eddy / Mizar. M13. VSO-I: 5.
- 3332S 6/7 / 0950-1015 / 3-f / LCP-G-N / Pegasus / ~25 children +
staff / Sun.
- 3333S2 1150-1230 / 3-f / LCP-G-N / Pegasus / ~30 children + staff
SS-II. 3 kids did drawings.
- ⁴²
3334S3 1510-1525 / 9-f / LCP-G-N / Pegasus / Eric Litwack /
Search for Venus.
- ⁴²
~~3334EM3~~
3334 2130-0015 / 9-f-A- / LCP-G-B / Pegasus / Leon,
Richard, Jeffrey, Beverley (photos). ~20 kids, one
counsellor / M13, Constellations, VSO-I, CN-V.
- 3335S 7/8 / 0955-1045 / LCP-G-N / Pegasus / ~³²25 kids + staff /
Sun, Moon.
- 3336S2 1230-1245 / 8-f / LCP-G-N / Pegasus / ~24 kids /
Sun.
- 3337EM3 2145-0020 / 9 1/2-f-A / LCP-G-B / Pegasus / 25
kids, 1 counsellor / CN-V, CN-I: 4. VSO-I: 10.
- 3338E 8/9 / ~#2345-2350 / 2-f / Kahn's Stepping Stones / - / generd.
- 3339M 9/10 / 0105-0140 / Kahn's Stepping Stones, Diamond Point, NY
Little Joef; Mother's Scholz 7x50 binoculars, my first observing
instrument / - / CN-I, CN-V, VSO-I: 9.
- 3340EP 10/11 / 2145-2155 / 10-f / within 10⁻¹⁵ miles of Adirondack
Science Camp, Lewis, NY. / - / CN-V, 2. VSO-I: 1.
- 3341M2 0100-0145 / 9-f-A / LCP-G-V / Little Joef finder / - /

CN-V. CN-I. VSO-I: 12.

33425. 11/12 / 1015-1030 / 7-F / LCP-G-N / Pegasus / ~ 25 kids / Sun.

334452. 1100-1115 / 7 3-F / LCP-G-N / Pegasus / ~ 10 kids / Sun.

3345M. 0155-0210 / 3-2-1-f-B / LCP-G-V / Little Joe (no
mount) / - 1/4 CN-I. VSO-I: 1.

3346E 13/14, 3338.6.7 / 2200-0000 / 9 1/2-f-A- / LCP-G-B /
Pegasus / 16 Campers, 2 staff / Constellation-I, β Cyg.
CN-I, II. VSO-I: 16.

* 33475 14/15 / 1130-1210 / 3-9-F / LCP-G-N / Pegasus / ~ 12 campers
+ 2 counsellors, Eric Litwack / SS-II. Venus. Kids + staff
really excited, stayed 10 minutes after period ended to
get 2nd + 3rd looks. (7-8 yr. olds).

334852. 1330-1400 / 9-f / LCP-G-N / Pegasus / ~ 12 campers,
1 counsellor, Eric / Sun.

3349E 2145-0000 / 9-f-B+ / LCP-G-R-B / Pegasus /
~ 20 Bear boys + 20 Cos / Con-I, β Cyg. CN-I. CN-II.
VSO-I: 10 Van.

33505 15/16, 1000-1020 / 6-f / LCP-G-N / Pegasus / ~ 24
children + counsellors / Sun - No Spots.

335152 1155-1210 / 5-3 F / LCP-G-N / Pegasus / ~ 12
children, counsellors / SS-II.

~~3352~~
* 3352AN 16/17 / 2220-0355 / 8-f / LCP-J-B-F-D-F-A on A+ /
Little Joe, Oscar (Opera Gl. A) M57, 27, 31 CN-I, II. VSO-I: 30.

~~3353~~ Meteor Watch. See Draft.

33535. 18/19 / 1130-1200 / 7-f / LCP-G-N / ~ 25 children +
staff / SS-2.

- 3354EP2 2245-2255/6⁵-F/LCP-818-LW/-/-/CN-~~III~~V. Dome 2
- 3355S 19/20/1500-1515/5-F/LCP-~~818~~-G-N/Pegasus/~25
kids + staff/SS-2.
- 3356EM2 2335-0945/7-F-A/LCP-G-R-N/Pegasus/
~17 children, 2 staff/β Cyg. Σ 2721; M13. ~~CAE~~. CN-IV,
VSO-I: 6.
- 3357S. 20/21/1100-1115/7-F/LCP-G-N/Pegasus/~20
children/SS-2.
- 3358M2 0309-0325/4-3-F/B+/LCP-G-V/Nelson/-/
CN-I. VSO-I: 3.
- 3359S. 21/22, 3346/1400-1415/8-F/LCP-G-N/Pegasus/
~5 children/SS-II: 0.
- 3360E2 2150-0000/9 1/2-F-B+/LCP-G-N-V/Pegasus,
Oscar, Nelson/β Cygni. CN-V. VSO-I: 13.
- 3361S 22/23, 3347/1130-1200/3-F/LCP-G-N/Pegasus/
~4 children, 1 counsellor/SS-II: 1.
- *3362AN2 2140-0930/9 1/2-F-A+1 LCP-G - In front of office,
R, B/3" Maksutov, 3" finder, 60mm refractor, Little Joe,
Pegasus, Nelson, 7x50b/Jupiter, Venus, Mars. M72, 31, 32, NGC205, M5
CN-5. VSO-I: 23. Planet lineup, Meteors. See Draft. Mothers
- 3363BE 23/24, 3348/~2300-2305~/3-5-f/Fox home,
Bourret, Montreal/-/-/CN-5. Dome 2.
- 3364S. 25/26, 3350/1430-1500/9-f/LCP-G-N/Pegasus/
~24 children (including Wendy) + 1 counsellor/SS-II: 1.
- *3365EM2 26/27, 3351/0945-1030/9-f 2320-0055/7-F-A+1
LCP-818-LW, LE/Little Joe/-/CN-I: 5. CN-III: 21, CN-V. VSO-I: 13.
- 3366S 26/27, 3351/0945-1030/9-f/LCP-G-N/Pegasus/

~ 25 children, 4 wandering counsellors / LPO-I: Venus in daylight

336752 1130 ~~0000~~ - 0045 / 9-f / LCP-G-N / ~ 25 40 children, + staff / Pegasus / LPO-I: Venus. Sun.

336853 1400-1430 / ³9-f / LCP-G-N / ~ 7 children, 2 cos / Pegasus / Sun.

336954 1500-1515 / 3-f / LCP-G-N / 4 children / Pegasus / SSI: 2.

3370E5 f. 2315-2330 / 7-f / B+ / Fox home, Bourret St, Montreal / Little Joe / - / VSO-I: 3.

33715 - see between 3324 and 3325.

33725. 27/28, 3352 / 0945-1305 / 3-f / LCP-G-N / Pegasus / ~ 80 children + 4 counsellors / Sun, + Venus.

337352 2 1430-1445 / 3-f / LCP-G-N / Pegasus / 2 children / SS2: 2.

3374M3 0000-0100 / 7-f (moon) - A / LCP-G-N-V / Pegasus / - / Aur-I: +ve mNE. ? Corona / CN-V. VSO-I: 8.

3375S 28/29 / 0950-1230 (with interruptions) / 7-f / LCP-G-N / Pegasus / ~ 60 children, ~ 10 staff / Sun. SSI.

337652 1400-1415 / ~ 8 children, 1 co. / 3-f / LCP-G-N / Pegasus / Sun.

337753 1455-1500 / 3-f / LCP-G-N / Pegasus / - / SS-II.

3378E4 2230-2335 / 3-2-f - A / LCP-G-N / Pegasus / Thirty 8-yr. old boys / Moon, Deneb. VSO-I: 2.

3379S 29/30 / 1130-1145 / 2-4-f / LCP-G-N / Pegasus / (reveral) children / SS-II: 1.

- 338052 1215-1230 / 2-4-F / LCP-G-N / Pegasus / 1 child /
Sun.
- 3381EM 30/31 / 2350-0010 / 2-f-B+ / LCP-G-V / Little Joe /
- / VSO-I: 1.
- 3382E 31/32 / 2235-2330 / 6-1-f / LCP-G-N / Pegasus / - /
VSO-I: 2.
- AUGUST
- 3383E 1/2 / 2130-2150 / 6-3-f / LCP-818-~~ELW~~+ven / - / CN-II.
Dome 2 (cloud).
- 33845 ~~3/4~~ 2/3 / 1400-1420 / 6-F / LCP-G-N / ~10 children /
Pegasus / SS-II: 3.
- 3385E2 2120-22~~15~~³⁰ / 9-2-f-F-B+ / LCP-G-R+ven, N /
*20 children, 1 counsellor / Pegasus / Constellations +
stars through Pegasus. cf. Draft. (*incl. Wendy)
- 3386SP (after 3384) / ~1500-~1510 / 6-F / LCP-G-N / ~10 children
/ Pegasus without mount / Sun. effective since Sun is so
easy to find.
- 33875 ~~3/4~~ 3/4 / 1520-1535 / 4-3-F / LCP-G-N / Pegasus / - /
SS-II: 1.
- *3388E2 3/4, 3360 / 2200-0000 / 5-3-F-A / LCP-G-N^{Vrt ven} /
Pegasus, Nelson, Boulder / 12 girls†; 2 mating skunks /
CN-II. VSO-I: 8.
- 33896E3 5/6 2320-2345 / 6-F-A / Tree Farm Campground,
Springfield, Vt / Little Joe / Carl, Peggy, Gerald / VSO-I: 4.
- 33905 6/7 / 1200-1830 / Breezy Hill, Springfield / 1-F /
many telescopes / many people / Stellafane.
- 3391E2 200-2230 / 1-2-F / Stellafane / Little Joe, 12x80

~~3392E~~ binoculars/many others/Gerald, Carl, Peggy, Paul Shaffer,
many others/ some views through binoculars + LJ.

3392EM3 8/7/2345-0015/7-1-F-Bt/Tree Farm Cgd/Little
Joe/Carl/VSO-I: 2.

3393EP 7/8/2205-2215/5-F/St Henri, Que./Bouder/Carl
+ Peggy/VSO-I: 1.

3394EP2 2230-2240/7-F/Carl's Home, Brassard/
Bouder/Carl + Peggy/ μ Cep (1 var.).

3395EM. 2350-0010-13-7-F/LCP-818-LW/Bouder/-/
CN-V. VSO-I: 4.

3396S. ~~8/9/1600-1615~~ 8/9/1000-1015/7-F/
LCP-G-N/Peg/=~~Carl~~ Sun. Pegasus/ ~ 20 kids/Sun.

3397S2. 1600-1615/2-F/LCP-G-N/Pegasus/-/
SS-II: 10.

3398M3 0115-0200/9-10-F-A-1/LCP-G-V/
LJ/-/CN-V. CN-I. VSO-I: 8.

3399S. 9/10/1355-1415/7-F/LCP-G-N/Pegasus/
4 or 5 children/SS-II: 13.

3400E2. 2215-2300/2-1-F/LCP-G-Pool Area/-/
14 children/ Perseids: 3.

3401S. Aug 12/1045-1100/7-F/LCP-G-N/Pegasus/ ~ 10
children/Spots on the sun.

3402S2. 1500-1515/7-F/LCP-G-N/Pegasus/ ~ 5 children/SS2

*3403AN3 2115-0420/10+10-F-A+1/LCP-G-J-B, F, D/
Nelson, Pegasus, 7x35b, 6" f/8 cl, 8" f/2.9 astrograph,
• 3 1/2" antique rr, 6" f/8 Criterion, 8" celestron. / Beverley,

Carl + Peggy, Mario, Dennis R, Howard Trotter, David Brown, Gerald C. / Beverley + Peggy were out for sessions of meteor watching on dock. M31, 13, 11. CN-I. CN-V. VSO-I: 33. Meteors from 0115-0145: 14. See draft.

*3404EM. 13/14, 3369 / 2200-0100 / 9 1/2-10-f / LCP-J-B, D / 8" Celestron, 6" Dynascope, several cameras, Pegasus, 7x50b. / Carl, John Hache, Howard Trotter, Gerald Cecil, Raymond Harding, Beverley, Peggy / 95 Her, 57 Aql. M322, 8, 20, 21. CN-V: VSO-I: 12. Meteors from 2355 to 0055: 7 in formal watch. cf. Drafts.

3405MP 14/15, 3370 / 0030-0010-0020 / 9-f / on road to Green Acres / - / Beverley / Aur I: FRA in N, under UMa.

3406M2. 0030-0130 / 9 1/2-f-A+ / LCP-G-N / Pegasus / - / M-31 mottled appearance. VSO-I: 8 + 11. CN-I, V.

3407B 15/16, 3371 / 1105-1120 / 3-f / LCP-G-N / Pegasus / = / ~5 children / SS-II: 6.

34082 1145-1200 / 3-f / LCP-G-N / Pegasus / ~10 kids / Sun.

*3409E3. The Perseid Watch. 15/16, 3371 / 2030-2240 / 9-3-f-A / LCP-G-B + N / Pegasus, 1 small rr / Robby Stein, ~12 others, + 3 staff, Carl, Peggy, David Brown. / Perseid Meteors. cf. drafts. 5 on Peggy's Team, 20 on mine. 2 +ve correlations. CN-V.

3410E4 2315-2330 / 9-3-f / LCP-G-N / Pegasus / Carl, Peggy, ~~Gerald~~ David B. / β Lyr, the triple near μ Cep / Db C in Per. VSO-I: 3.

3411MP 17/18 ~0000-~0010 / 3-f / 1/4 Fox home, Bourret / - / CN-V: Dome 2.5 (obst)

3412S. 18/19 / 1130-1145 / 8-f / LCP-G-N / Pegasus / ~5 children / SS-II: 0.

*3413EM2 18/19, 3374/2314-0100/10^{9/16}-F-A+ | LCP-G-B | Minalta
SRT 101, Pegasus | Gerald / M27, ?56, 71. CN-V. Aug-I: +ve
in Nth. VSO-I: 20. Photos.

3414S 19/20, 3375/1035-1050/9-F- | LCP-G-N | Pegasus/
~24 children, 1 counsellor, Gerald Cecil / SS-II: 4.

*3415AN 20/21, 3376.6.7.8.9/2110-0450/9-3-10-F-A+ |
LCP-Jarnac - Front, Dock, Balcony/
6" Criterion, Pegasus, Nelson, 7x50 binoculars, Minalta SRT 101/
Gerald, Howard Trotter, Carl, Peggy, Boyd/
Venus, Jupiter, Mars. SS Cyg on apparent rise
M7, 6, 72, 31, 32, 13. CN-I: 2 CN-V: 2.
VSO-I: 61. Record for one night.

3416E Aug 22/23, 3378.4/2330-2335/6-3-2-f-B+ | LCP-818-LW/
Little Joe / - | CN-V. VSO-I: 2.

3417EM2 3378.8/0250-0310/7-f-B+ | LCP-818-LW / Little Joe / -/
CN-II: VSO-I: 4.

3418EM. 24/25, 3380.67/2325-0105/7-8-F-A+ | LCP-818-LW/
Little Joe | Beverley / β Cyg. Dra triple. XY Lyr. M13, 31. CN-I: 5.
CN-V: 1. VSO-I: 14.

3419EM. 25/26, 3381.7/2340-0125/7-f-A | LCP-818-LW/
Little Joe | Beverley | CN-I: 5. \vee CN-V: 1. VSO-I: 13. Moon, Arcturus,
M-11.

*3420EM 26/27, 3382/2145-0015/8-f(moon) | Pine Trees Campsite,
Lewis, N.Y. / Little Joe, Zeiss 6 power binocs / Mikael / VSO-I: 17.
CN-I: 5. CN-V: 1.

3421EM. 27/28, 3383/2315-0005/4-2-F-B | Broken Branch KOA
Campground, Woodstock, N.H. / Little Joe | Mikael / Moon.
CN-V: CN-I. VSO-I: 2.

3422EP. 28/29, 3384/2000-2010 | Ashland, ~~B.E.~~^{N.H.} / - | Mik. |

beautiful view of full moon rising in dense haze.

- 3423EM2. 28/29, 3384 / 2240-0005 / 4-f-Bt, A (Full moon, extreme haze) / Cogwood Acres Campground, Ashland, V.H. / Little Joe / Mikael / Moon. CN-I. CN-II. VSO-I: 7.
- 3424E. 29/30, 3385. 6 / 2305-2330 / 2-4-f-Bt (moon, fog) / Mohawk Park Campground, Charlemont, Mass / Little Joe / moon. CN-I. CN-II. VSO-I: 1.
- 3425EP 30/31, 3386 / ~~2220-0130~~²¹¹⁵⁻²¹²⁰ / 3-f (in lights) / South of Sussex, NJ / - / - / CN-II: Dome.
- 3426EM2 2220-0130 / 7-f (moon, slight haze) - 3 / - A / Pleasant Acres Farm Campground, Sussex, NJ / Little Joe, Zeiss 6x bin. / Mikael + family of four / CN-I. CN-II: VSO-I: 23.
- 3427M 31/32, 3387 / 0100-0200 / 4-f (hz + moon) - f Bt / Hide-a-way Campsites, Central Bridge, NY / Little Joe, Zeiss 6x bin / Mikael / CN-I: 5. CN-II: 1. VSO-I: 4.
- 3428E. SEPTEMBER.
1/2, 3388 / 2030-2100 / 7-9.5-f / Bt / Codan, Chazy Lake + ven / Little Joe / Mikael / CN-II. VSO-I: 3 (naked eye).
- 3429SP 3/4, 3390 / 1600-1605 / 8-f / LCP-J-D / - / Mikael / CN-II. SVen.
- ③ 3430 AN2 3/4, 3390. 5. 6. 7. 8. 9 / 2050-0600 / 10, 9-f - A+++ → + / LCP-J-Boat - Front - Canoe - Balcony - Dock / Little Joe, Bounder, Pegasus' Finder / Mikael.
FLPO-I: Venus, Mars + Jupiter within $\frac{1}{2}^\circ$.
M-11, M33 (NE?) + Bounder. M-11. M-13. M-57.
CN-I: 5. CN-II: 4.
VSO-I: 172 Variables.
- 3431EM 6/7, 3393 / 2345-0125 / 6-7-f-Bt / LCP-818-LW / Little Joe / Beverley / VSO-I: 13. CN-I, II.

- 3432M Sept 7/8 | 0115-0140 / 3-2-f-B+ / LCP-19I-G / Little Joe / VSO-I: 2.
- 3433M 8/9, 3395 / 9½-f-B+ on A- / LCP-19I-G / Little Joe / no-ond / CN-5, 1. VSO-I: 6.
- 3434EM 70/11, 3397 / 2140-0300 / 1-3-10-3-2-3-1-0-f-B+ / LCP-J-B-F-D / Little Joe / Jupiter, Mars. CN-V. VSO-I: 10.
- 3435EP 9/10 (before 3434) / 2330-2340 ~ / 2-3-f / LCP-J-B / - / - / CN-V: Dome.
- 3436E 11/12, 3398 / 2015-2100 / 10+ f / LCP-Jamaica + vicinity / Little Joe, Bounder / Gerald, JohnHache, Beverley / CN-V. VSO-I: 8.
- 3437M2 3398 / 0200-0600 / 9.5-f-A+ / LCP-AE- Driveway / Grounds / CN-I, CN-V. VSO-I: 212 variables.
- 3438E. 12/13 / 2015-2040 / 5-f-B+ / LCP-818-LW / Little Joe / - / VSO-I: 4 var.
- 3439E. 14/15, 3401 / 2050-02110 / 9-f-B+ / LCP-19I-G / Little Joe / neighbor / VSO-I: 2.
- * 3440EM2. + 0110-0620 / 9.9½-f (fog near dawn) / LCP-19I-G-D / Little Joe, Bounder / 1 passerby / Venus, Mars, Jupiter. 1 meteor. CN-I: 5. CN-V: 2. VSO-I: 245.
- 3441M. 17/18, 3404 / 0515-0600 / 5-f-B+ / LCP-19I-D / Little Joe / - / CN-V: 1. VSO-I: 38.
- 9 Cloudy Nights —
- 3442E 26/27, 3413 / 2020-2140 / 6-f / LCP-AI-G / Little Joe, Bounder / Beverley / CN-I, CN-V. VSO-I: 27.
- * 3443EM 28/29, 3415 / 2330-0410 / 7-f (moon) -A+ / LCP-19I-G, D / Little Joe, Bounder / Mars, Jupiter, Moon. CN-V: 2. VSO-I: 201.
- 3444E OCTOBER 3/4, 3420 / 2335-2355 / 7-8-f-A / LCP-19I-G /

Little Joe, Nelson | - | M31. Meteor (almost a point meteor.)
CN-I, CN-II VSO-I: 27.

3445MR2 ~0600-~0605 | 8-f | LCP-19I-G | - | - | CN-II: Dome.

3446EM 4/5, 3426.7 | 2335-0030 | 7-6-f-A+ | LCP-19I-G |
Little Joe, Nelson | - | CN-II: 1. CN-I: 5. VSO-I: 13.

3447E 7/8, 3424 | 2020-2105 | 9-f-A- | 19I-G (LCP) |
Little Joe | - | CN-III. VSO-I: 7.

3448E2 2200-2320 | 9½-f-A- | LCP-19I-G | Little
Joe | - | Almost point meteor in Cygn. CN-V. CN-III.
VSO-I: 5.

3449E Oct 10/11 | 2100-2130 | 7-f-A | LCP-19I-G | Little
Joe | - | CN-V. VSO-I: 8.

3450EM2 2345-0015 | 7-f-A | LCP-19I-G | Little Joe, Oscar |
CN-V. CN-I. VSO-I: 5.

*3451S 12/13, 3429 | 1630-1740 | 3-f-A | LCP-19I-G and
inside (through window) | Hercules, 250mm x 2 | Beverley |
1977 Solar Eclipse. Twelve photographs. Successful
& pleasant session.

3452EM2 2350-0020 | 9-f-A | LCP-19I-G | Little Joe, Nelson | - |
CN-I, II. VSO-I: 11.

3453EM 13/14 | 2350-0045 | 9½-f-A+ | LCP-19I-G, D | Little Joe |
- | CN-V. VSO-I: 42

3454EP 14/15 | ~2300-~2310 | 2-3-f | LCP-5-D | - | - | CN-5 Dome
2-clouds.

3455E 15/16 | ~1900-~1930 | 3-f | LCP-J-B | - | Gerald, John H.
| Moonset.

- 3456E2 2100-2300/9-10-1-F-A/LCP-J-F/Little Joe, Graunt
Astrograph/Carl, Gerald/CN-IV. VSO-I:13.
- *3457M 17/18/0245-0410/9 1/2-9-F-A+At/LCP-19I-G/
Little Joe/Hap/Jupiter, open moon. VSO-I:87.
- 3458EM 18/19/2345-0005/7-F-A/LCP-19I-G,D/Little Joe/-/
VSO-I:3.
- 3459M 19/20/0000-0100/7-F-A+LCP-19I,G,D/Little Joe,
Nelson/-/CN-IV. CN-I. VSO-I:17.
- 3460SP ~20/21/~1800-1810~/7-F) Between Queens + LCP-19I/
-/Bev/CN-IV Sven.
- 3461E2 2005-2110/7-f(moon)/Little Joe + finder/
-/VSO-I:13. CN-I. CN-IV.
- 3462E 21/22, Friday/2010-2100/6-f-A/LCP-19I-G/
Little Joe + finder/-/CN-IV. COMET KOHLER, 1977m.
cf. draft. VSO-I:7.
- 3463M 22/23/0105-0155/9-f(moon)/A+/LCP-19I-D/
Little Joe + finder/-/Mars, Jupiter, Moon. Mira, U Ori +
43 other variables. + CNS 1+5.
- 3464M 23/24/0200-0235/7-3-8-f/LCP-19I-D/Little Joe +
finder/-/CN-I, IV. VSO-I:30.
- 3465SP 24/25/1730-1740/5-f/cb 3460SP/-/CN-5 Sven.
- *3466SPE2 24/25/1945-2240/5-f-A/LCP-19I-G/Nelson/-/
Omicron UMa, π Her. CN-IV: Observation of β July 2,
1861 position + size of Comet of 1861. VSO-I:16.
- 3467M3 0040-0120/5-f-A/LCP-19I-D/Little Joe,
Nelson/CN-5, 1, VSO-I:17.
- *3468EM \rightarrow 26/27, 3443/0040-0150/4-5-f-A+/LCP-19I-D/
LJ/-/Jupiter. CN-IV. VSO-I:62. L P Ori + SS Cyg acting up.

- 3469SP Friday, Oct. 28 / 1100-1110 / 7-f (near Queen's) / - / - / CN-5 / Sun Ven.
- 3470E2 ~1800-~1900- intermittently / ~~on~~ 7-f ϵ / on road / Tigger / Bev / CN-5 (Twt Hz n), Moonrise.
- 3471M3 0020-0100 / 7-f^{BT} / near Auberge Richelieu, Montreal / Bounder / - / CN-5, 1, VSO-I: 15.
- 3472E Oct 29 / 1115-1135 pm / 5-f^{BT} / near Auberge Richelieu, Montreal / Bounder / Carl / CN-I: 2. CN-V: 1. VSO-I: 5.
- 3473ESEP Oct 30 / 1630-1640 / 7-f / near on road / - / Bev / CN-II: Sun Ven + Twt Hz n. ~~Cat~~
- 3474E2 1900-1905 / 7-f / on road / - / Bev / | early Taurid? ? - near formalhaut. Moving W, 1st Mag. Very very slow.
- *3475M3 0000-0135 / ~~Sun~~ Sunday / 8-f-A / LCP-19I-G / Little Joel / - / CN-I: 1. VSO-I: 65.
- 3476EP Oct 31 / ~1715-~1725 / 7-f / on road / - / - / CN-II TH.
- 3477M2 0025-0105 / 8-f (moon) / LCP-19I-G / Little Joel / CN-II. VSO-I: 7.
- 3478E NOVEMBER 1 / 1745-1800 / 5-f-BT / near Queens / - / - / CN-5. VSO-I: 1.
- 3479EM2 NOVEMBER 1 / 2 / 2350-0030 / 7-8-f-A / LCP-19IG / Bounder / - / CN-I V. VSO-I: 25.
- 3480M 4/5, 3452 / 0010-0055 / 9 1/2-f-A / LCP-19I-G / Little Joel finder / - / CN-II, CN-I, VSO-I: 48.
- 3481E 13/14, 3460.5 / 1730-1855 / 8-9-f / LCP-19I, -G / Little Joel / Carl / Moon. VSO-I: 27.
- 3482SP 14/15 / 0920-0925 / 7-f / Queens / - / - / CN-V S Ven.
- 3483EP ~2200-~2210 / 6-f / LCP-19I-D / - / Bev / general.

- 3484M Friday, Nov 18 / 0140-0205 / 9-3-f-A- /
LCP-19I-G / Boulder / - / CN-5. VSO-I: 17.
- 3485SP 19 / 1600-1605 / 7-f / LCP-19I-G / - / - / CN-5SVn.
- 3486EP2 1645-1655 / 7-f / same but from inside / - / - / Tw+ Hzn.
- 3487M 1915-2000 / 7-f-B / LCP-19I-G / LJ / - / CN-II.
VSO-I: 5.
- 3488M 21 / 22 / 0205-0300 / 8-f (moon) A+ / LCP-19I-G /
Little Joe / - / Mars, Jupiter, Saturn / M42, M45 / CN-5, CN-I.
VSO-I: 45
- 3489M 22 / 23 / 0125-0155 / 7-f (moon) A+ / LCP-19I-G /
Little Joe / - / CN-II, VSO-I: 31.
- 3490MP 24 / 25 / 0150-0200 / ~~23~~ 23-f (moon) / LCP-19I-G / - / - /
Dome - p mostly cl.
- 3493P Fri 25 / 1:00-1:10 pm / Queen's / 7-f / - / - / CN-5-SVen.
- 3491M 28 / 29 / 0100-0140 / 5-f (moon) - A / LCP-19I-G / LJ / - /
CN-5. VSO-I: 32.
- 3492M Dec 1, 1977 / 0010-0135 / 3-2-f-A+ / LCP-19I-G /
Boulder / - / VSO-I: 11. Very bright Auroral glow,
some F, ~~fs~~ fC.
- 3493HEM Dec 3 / 2330-0005 / 9-f-A / LCP-19I-G / LJ / - / CN-5 VSO-I
- 3495M2 0225-0255 / 3-f-A / LCP-19I-G / LJ / - / VSO-I: 30.
- 3496EP Dec 4 / 1905-1910 / 7-f / Queen's / - / - / general.
- 3497E2 2235-2330 / 8-f-A / LJ / - / VSO-I: 61.
- 3498E 31 / 7 / 2305-2335 / LCP-19I-G / LJ / - / VSO-I: 30.
CN-II.

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- 3499M Fri, Dec 9/0000-0015/8-F/LCP-19I-D/-/-/VSO-I:2.
CN-V.
- 3500M Sat, Dec 10/0145-0225/9-F-A+/LCP-19I-G/LJH/
Aur-I. VSO-I:42. Temp = -23°C.
- 3501EP Sun, Dec 11/ ~1700-1710~/8-F/19I/-/-/CN-V. TH.
- 3502E2 1745-1835/8-F-A-/LCP-19I-G/LJ/-/CN-I CNV
VSO-I:10.
- 3503E 17/-~1900-~1915/3-f-A, B+/11 Silvertan, Toronto/
-/-/VSO-I, CN-5.
- 3504E 26/27/1745-1805/6-F-A-/LCP-818-LW/LJ/-/
CN-I, 5, VSO-I.
- 3505E2 2045-2120/7-F-A-/LCP-818-LE/LJ/-/
VSO-I: CN-5.
- 3506EM 27/28 0015-0100/~~7-f/LCP~~ 6-F-A-/LCP-818-LW-C-
LE/LJ/-/CN-5. VSO-I: 32.
- 3507E 31/32 / ~~0015 ~1800 ~1815~~ / 1830-1815, intermittent/
LCP-G-B, Rec Hall / - / Eddy, Leon / CN-5. TH, Dome 2.5.

1978

- 3508EP 1/2/-1700-1710/ Marwin's Place, Lagare / -/-/CN-5,
Dome 2.5.
- 3509E 3/4, 3512/ ~2300-~2315/9-F/LCP-19I-D/-/-/VSO-I:1
CN-5.
- 3510E 15/16/ 2255-2310/1-f/LCP-19I-G/LJ/-/ moon, [new eye piece].
- 3540M 16/17/ 0000-0015/6-3-f/LCP-19I-D/Boulder/-/draft.
- 3511E 30/31, 3539/ 1830-2020/9-2-f-B+/LCP-19I-G/Hapl
LJ/CN-V, I, VSO-I:75.

- 3512E Feb. FEBRUARY 4/18³⁰-1945/8-F/LCP-19I-D/-/CN-II Dome.
- 3513E 2000-2045/LCP-19I-G/LJ/-/CN-III.
CN-V VSO-I: 1.
- 3514EM Feb 8/9/0105-0135/8-9-F-A+/LCP-19I-G/
Little Joel Hap /CN-II. E VSO-I: 7.
- 3515E 9/10/192200-2215/7-F/U.of.T./-/Ingrid, Laura,
Nilu, Duryll / ♀, ♀, ♂. Orion. CN-II.
- 3516M. 12/13/0000-0040/8-F-A/LCP-19I-G/LJ/-/
CN-II. VSO-I: 31.
- 3517M 13/14/0000-0015/3-2-F/LCP-19I-G/
Boulder /- / ♂, ♀, ♀.
- 3518M 14/15/0000-0025/6-F/LCP-19I-D-G/
Boulder /- / VSO-I: 7. CN-II.
- 3519LME 16/17/1915-1930/5-F/LCP-19I-9G-D+ven/-/VSO-I:
1, CN-II.
- 3520M 17/18/0115-0145/8-F-A/LCP-19I-D/B/-/CNS
VSO-I: 6.
- 3521M 18/19/0120-0150/7-F-A/LCP-19I-G/B, LJ/-/
VSO-I: 5, CNS CN-5.
- 3522MEP 19/20/1910-1920/6-F/LCP-19I-G/-/CN-II.
- 3523M2. 20/21/0115-0145/6-F-A+ -very high cl/ Boulder /-/
VSO-I: 3. CN-II.
- *3524E 20/21/22/2145-2215/6-F(Lmoon)/Queen's U. Obser-
vatory/ Dr A. V. Douglas + others / ♀, ♀, C. Ganym 'shad. in
transit. CN-II.

- 3525M 24/25/26/0210-0230/7-F-A/LCP-818-LW,LE,C/B/-/draft
- 3526E 25/26/27/1905-1915/7-F/LCP-818-L/-/Carl & Peggy/draft.
- 3527M2 ~~27~~ 0130-0150/6⁷-F-A/LCP-818-LE,LW,C/B/-/
See draft.
- F 3528M 26/27/0120-0135/9-F-A/LCP-19I-D/B/-/
draft. RG Bon decline again?
- 3529M 27/28/0030-0045/8-F-A/LCP-19I-D/B/-/draft.
- 3530a-M- 28/29/0010-0045/7-F/ven Querno/Vilu/CN-5.
- 3530MP2. 28/29/0205-0215/4-F/LCP-19I-D/Bounder/-/
VSO-I: 1.
- MARCH
- 3531M MARCH 1/2/0340-0405/7 8½-9-F/LCP-19I-D/
Boulder/-/draft.
- 3532M 2/3/0040-0055/6-F/LCP-19I-D/-/Bo Bounder/-/
draft.
- 3533M 3/4/0205-0235/7-F-A+/LCP-19I-G/LJ/-/draft.
- 3534M 4/5/0205-0230/3-8-7-F-A-/LCP-19I-G/LJ/-/
draft.
- 3535M. ~~8/9~~ 6/7/0200-0220/-/LCP-19I-G/LJ/-/draft.
- 3536E. 7/8/1130-1200/7-F/LCP-19I-G/LJ/-/draft.
- 3537M. 8/9/0215-0250/9-F-A/LCP-19I-G/LJ/Bounder/
draft.
- 3538M. 10/11/0115-0135/6-F-A/LCP-19I-G/LJ/Boun-
der/Saturn. draft.
- 3539M 12/13/0045-0105/7-F/LCP-19I-G/LJ/Bounder/
draft.
- 3540
~~3540~~
- draft
13/14
3510.

04 78

05 78

- 3541M. Mar 17/0105-0120/ 7-F-B+,A- / LCP-19I-D, G / Bounder / Bounder + Smykey /
draft.
- 3542E 23/ 2020-2040 / 7-F / near Queen's / - / - / draft.
- 3543M2 0050-0105 / 7-F / LCP-19I-D+G / - / - / draft
- 3544M 28/ 0030-0045 / 6-F / LCP-19I-G / ^{the cat} Bounder / CN-5.
- 3545MP2 0115-0125 / 5-F / LCP-19I-D+vcn / - / - / CN-5.
- 3546MP 29/ -0115--0125 / 7-F / LCP-19I-G / - / - / CN-5.
APRIL
- 3547M 5/ 0025-0055 / 7-F/A- / LCP-19I-G, D+vcn / Nelson / - /
CN-I, VSO-I. seedraft.
- 3548M 6 / 0030-0100 / 7-F-A- / LCP-19I-D, mostly G /
- / - / CN-5.
- 3549M 7 / -0130--0145 / 7-8-F-A- / LCP-19I-D-G / - / - /
CN-5, VSO-I.
- 3550M. 8 / 0115-0145 / 8-F-A+ / CFB-Kingston / Tigger / - / CN-5.
VSO-I.
- 3551M. 9 / 0040-0055 / 7-F-B+,A- / LCP-19I-D, G / Bounder /
CN-5.
- 3552M 13 / ~0030--0045 / 8-9-F / LCP-19I-D, G / -0030 Dome 3.
- 3553M 14 / 0045-0105 / 3-F / LCP-19I-G-D+vcn / CN-5.
- 3554E. to 23 / 2030-0000 / 6-F / 401 betw. Mt + Kingston / Beverky /
Apr-I, FHA in M.
- 3558M2 23 / 0055-0110 / - / LCP-19I-D+G / Nelson / Bounder / VSO-I.
(illness)
- 3555E MAY 22 1-2300--2320 / 7-F / LCP-818-LW-C-LE / - / - / CN-5.
- 3555M. 24 / 0125-0140 / 5-F / LCP-19I-G / Bounder / Bounder / CN-5. VSO-I.

- 3556M. 2#/27/0230-0315/6-F/LCP-19E-G/LJ/others, see draft
[the party]/Moon, B Cyg, Albero, M13/0300 Dome 3.
- 3557MS2. 3. 27/28/02~0520-0545/6-f/~~6~~ near CFB Kingston/
-|Daryl| Sunrise.
- 3558 see after 3554E.
- 3559M 31/~0025-0040/7-F/LCP-MI/- Nelson?|-| CN-5, VSO-I.
- JUNE
- 3560E. 3/~0915-0945/8-F/BOT Country Club, Toronto|-|Richard/
Mars + Saturn in conj. Venus + Jupiter + CN-5.
- * 3561E. 4/~2300-2315/LCP-19I-G/Little Joe/cats/Mars +
Saturn in centre of h.p. field.
- * 3562M. 5/0040-0240/^{AT}10-F/LCP-J-F, B/Pegasus with
freshly coated optics/CN-5. CN-III. VSO-I. sight seeing
- 3563M. 6/0110-0205/10-F-AT/LCP-J-F(B+D)/
Pegasus + zoom lens/- M13, 57. CN-V. VSOI. 6.
- 3564M 9/0030-0330/10+-F-AT/LCP-J-F(B+D)/Pegasus/
Carl, Peggy, N. Lu | see draft.
- 3565E ~~11~~ (See after 3558M2)
- 3566MP 10/1225-1235pm/3-⁵~~6~~-F(cirrus)/LCP-Jarnac-B|-|Carl|
general.
- 3567M 11/0120-0135/0120-0135/3-F/LCP-AI-G/Boulder|-|draft.
- 3568M 13/14/0210-0230/9 1/2-F-AT/LCP-19I-G(D)/Little
Joel-| Draft.
- 3569E 14/15/2330-0030 intermittent/LCP-J-D(B)|-|Dannel
Loewen/CN-5.
- 3570M 0155-0310/~~11~~ 10+-F-AT/LCP-J-F(D)/Pegasus/
Dannel | draft.

- * 3571AN 15/16/2200-0350/7-F/LCP-J-B, D/Pegasus, Boulder /
Darrel Loewen / CN-I. CN-III. CN-II. VSO-I: 16 Seedraft.
- 3572M 19/20/0100-0115/6-f/ Motel, Rochester, N.Y. / ~~F~~ ~~f~~
Tigger / - / CN-5.
- * 3573S. 22/1640-1735/3-f-A+ / LCP-J-D / inauguration of
Mira Ceti III / - / SS-II.
- 3574AN2. 2205-0315 / full moon / Mira Ceti III; Pegasus /
Carl / CN3. VSO-I. Ms 13, 57. Moon, Vega, Antares
(as first object for Mira). 2 Photos. CN-5. See draft.
- 3575S. 23/1400-1430/3-F / LCP-J-B / Mira / Carl / SS-2.
(LCP-J-F, D)
- * 3576EM2. 23/24/2150-0130/9-F (moon) - A / Nelson, Pegasus,
Mira / Carl / See draft. First JAS session.
- 3577S. 24/1540-1600/10-F / LCP-J-D / Mira / Carl + Peggy /
SS-II.
- * 3578AN2. 2200-0320/9½-10-F / LCP-~~19I~~ J-F, D / Pegasus,
Mira / Carl / CN-3. See draft also.
- 3579S. 25/1600-1620/10-F / LCP-J-D / Mira / Carl + Peggy / SS-2.
- 3580EM2. ~2345-~0005/6-f/ park, near 19I / - / - / CN-5.
- 3581M. 26/ ~0100-~0115/8-f / LCP-19I-D / - / - / CN-5.
- 3583M. 27/28/0130-0230/9½-10-f / LCP-J-B(D) / Pegasus / - / CN-3, 5.
- * 3582S. 28/1600-1615/10-F / LCP-J-B / Pegasus with new
sun screen / - / SS-2.
- 3584EM2 28/29/2200-20130/10-3-2-F / LCP-J-F /
Little Joe, Pegasus / ~~CN-I~~, CN-II, CN-III, VSO-I.
- 3585S 29/1135-1155/10-f / LCP-J-B / Mira / - / SS-2.

- * 3586AN2. June 29/30 | 2235-0340 | 10-f-A++ | LCP-J-B | Mira, Pegasus, Little Joe, Nelson) - | Aurora. CN-I, CN-III, CN-V, VSO-I. See draft. An important session.
- 3587S. 30 | 1150-1210 | 10-f | LCP-J-B | Mira | - | SS-2, CN-5.
- 3588E2 30 | 2315-2330 | 7-f | LCP-818-LW-LE | - | - | CN-5.
- JULY
- 3589S. 31 | 1605-1620 | 10-f | LCP-G-N | Mira | - | ~~CN-5~~. SS-2.
- 3590E2 2255-2340 | 9 1/2-f-A+ | LCP-G-B | Little Joe | - | CN-III, CN-5.
- 3591S. 2 | 1640-1655 | 9-f | LCP-G-N | Mira | - | SS-2.
- 3592M2 ~0230--~0300 | 7-f | LCP-818-LW | ~~7-f~~ Little Joe | - | CN-III, CN-V.
- 3593E. 3 | ~~2~~ 2135-2220 | 3-f-A | LCP-G-B | Procyon, Echo/Carl, Peggy | E Lyr, Antares, Arcturus | CN-5.
- 3594S. 4 | 1615-1630 | 7-f | LCP-G-N | Echo | - | SS2.
- 3595E2 2200-2300 | 7-6-f-A- | LCP-818-LE | Gerald Cecil / Little Joe | see draft.
- 3596E3 0045-0245, intermittent | 6-f | LCP-818 + summit | Little Joe / Gerald / Aurora.
- 3597S. 5 | 1545-1605 | 6-f | LCP-G-N | Echo | - | SS-2.
- 3598S. 6 | ~1600 - ~1615 | 7-f | LCP-G-N | Echo | - | SS-2.
- 3599S. 7 | 1435-1450 | 7-~~8~~f | LCP-G-N | Echo, Ranger | Rafi Wogalter | SS-II.
- * 3600E2 2215-2315 | 8-9-f-A | The Stepping Stones | LJ | ~~Wendy~~ Wendy, Robby, Ali, Joyce, Mother, others | see draft.

- 3601E 9/2030-2045/3-F/LCP-ASC/
Little Joe/-/Moon.
- 3602S. 10/1620-1635/3-F/LCP^G-N/Echo/-/SS-2.
- 3603E2. 2230-2315/7-F-A-/Trahan Park/
Mira/Carl/Moon. β Cyg, Mizar, Σ 2819, CN-5.
- *3604S. 11/0910-1530/3-F-A/LCP-G-N/Procyon/~150 others/
SS-II. See draft and 6 SS II forms.
- 3605E2 2030-2130/3-F-A/LCP-G-R/Little Joe/~30 others,
Carl + Peggy/Venus, Moon.
- 3606S. 12/0930-1200/9-F/LCP-G-N/Procyon/many
others/Sun.
- 3607S2 1450-1505/7-F/LCP-G-N/PROCYON/some others/
SS-2.
- 3608E3 2/25-2230/9-F/LCP-G-R/Little Joe/~60
others/see draft.
- 3609S 13/1430-1445/3-F/LCP-G-N/Procyon/~5 others,
Eddy B/SS-2.
- 3610S. 14/1430-1445/LCP-G-N/Procyon/SS2.
- 3611E^M. 2345-0035/6-5-F-A/LCP-818-LE(C+LW)/Little Joe/-/
VSO-I, CN5.
- 3612S. 15/1930-1945/6³-F/LCP-818-LW/LJ/-/SS-2.
- 3613S. 17/1510-1525/LCP-G-N/Procyon/SS-2.
- 3614S. 18/1435-1450/LCP-G-N/Procyon/SS-2.
- 3618E. 22/2200-22300/3-F/LCP-J-F/R-/Roma + Richard, Gerald C./general.
- 3615E. 24/2135-2150/LCP-818-LE/Little Joe/-/CN5
VSO-I.

- 3616S. 25/1425-1440/LCP-G-N/Procyon/SS-2.
~~3626S.~~ ~~28/1300-1215~~/LCP-G-N/Procyon/SS-2.
- 3617EP. 28/2242-2230-2240/10-F/LCP-J-D/-/-1-Dome-3.
 (12-see after 14)
- * 3619EM2. 2345-0205/10-3-2-F/LCP-J-B/PEGASUS-Echo/
 See draft
- 3620EM. 29/2215-0100/3-2-10-3-2-1-F-A+/LCP-J-B,D/
 Pegasus-Echo/Debby, Phil, Gerald C/ See draft.
- 3621S. 30/1225-1430/10-F/LCP-J-B-B/Pegasus-Echo/Gerald,
 36 Debby, Phil/SS-II. Also precise alignment achieved.
- 3622S2. ~~1800~~¹⁶⁴⁵-1715/9-10-F/LCP-J-D,B/Pegasus-Echo/see above/
 unsuccessful search for Venus. Also ~~to~~ CN-5. Sven.
- 3623EP3. JULY 30/~0035-0045~/7-F/LCP-818-LW, LE/-/-1-Dome
- 3624S. 31/11:10-11:15/8-F/LCP-G-N/~~++~~ Pegasus Procyon/^{10 others}/SS view.
- 3625S2. 1500-1515/8-F/LCP-G-N/Procyon/SS-II.
 26-see after 16.
- 3627E. AU GUST 1/2300-2345/7-F/LCP-818-LE/Little Joe/-/
 VSO-I.
- 3628S. 28/1430-1450/~~3~~-F/LCP-2G-N/Procyon/SS2.
- 3629S. 4/1450-1505/9-F/LCP-G-N/Procyon/-/SS2.
- 3630ES. See after 3614S. Jul 20/1550-1610/⁴/F/LCP-G-N/PI/-/SS-2.
- * 3631E-2. Aug 4/2130-2320/9-F/Pine Trees Composite, Lewis, NY/
 4^{others}/Little Joe/CN-5. VSO-I. CN-III.
- * 3632BS. 5/11¹⁵30-17¹⁵30/3-F/STELLAFANE/many instruments/many
 others/2 obs. of Prominences.
- 3633EP2. ~2200-~2210/3-b-F/Pine Trees/Mik/general.

- 3634S 7/1520-1535/6-F/LCP-G-N/Procyon/-/SS2.
- 3635S. 9~~10~~/1630-1700/12-F/~~4~~ Daleng on, Laval / 1" Tasco Refractor / Daniel Cohen et. al., Vivian Halperin / SS-II.
- 3636E2 2200-2230/6-F/RA SC/C-8, C-90/others (Constantine, Richard, ^{attila} etc. / TC B. Dome.
- 3637S. ~~1300~~ 10/0930-1530, intermittent/9-F/LCP-G-N/
 ≈ 100 others during the day / Procyon / SS-2.
- 3638E2. 2245-2345/7-F/LCP-818-LW; earlier, Summit / ^{walk} Little Joe / - / VSO-I, CN-V.
- 3639S. 11/1220-~~1245~~¹³⁰⁰/7-F/LCP-G-N/Procyon, / ~~12~~ ~ 10 others / SS-2
- 3640S2. ~~12~~ 1345-1415/7-F/LCP-G-N/PROCYON / + 20 others, including Wendy / Sun.
- *3641AN3 ~~12~~ 2215-0345/10⁹-3-F/LCP-J-B, D/Pegasus-Echo, David's 10-inch / David Brown / see draft. Occultation attempt, Perseids, & Aurora. VSO-I: Nova Cyg 14.3.
- 3642S. 12/1530-1600/6-F/LCP-J-B/Pegasus-Echo / David / SS-2.
- 3643EMR Saturday / 2020-0135 / variable-F-A+ / LCP-J-D-B / Beluga, Pegasus-Echo / David Brown / VSO-I, CN-5.
- 3644S. 14/1510-1535/6-F/LCP-G-N/Procyon / SS2.
- 3645E2 ~~15~~ 2230-2315/7~~4~~ 5-F/Trahan Park / Mira / Carl / Moon, β Cyg, CN-5.
- 3646S. 15/1430-1445/6-F/LCP-G-N/Procyon / Pam Cooper / SS2.
- *3647E. ~~16~~ 15/2100-2345/2-5/2CPG-R / Little Joe / ~ 30 children, ~ 10 staff / see draft.

- 3648S 8/17/ 1015-1030/LCP-G-N/Procyon/SS-2.
- 3649S 18/1410-1425/LCP-G-N/8f/Procyon/-/SS-2.
- 3650EM 8/18/ 2200-0100/LCP-J-B/^{Alister}~~S. King~~, Gary Boyle 1-1-1
Little Joe, an 8" F/6, Pegasus-Echo seedraft
(2x30b)
- 3651S 19/ ~~2200~~ 1200-1230/1-f/LCP-G J-B/Little Joe/see above/
bird watching with Little Joe.
- 3652S 20/1330-1505/10-f/Jarmac Observatory (balcony)/
Pegasus-Echo
Little Joe
Cosmos-II (no lens)
Beluga
Gary Boyle's 8" F/7
8x30 binoculars
"Tigger"
} photos taken
1 Gary, Alister/ ~~CN-V~~, SS-II. Large spot.
- 3653E2 2100-2130/7-f/Trahan Park/Mira/Carl/CN-V, VSO-I.
see draft
- 3654E3 2250-2325/7-f/LCP-818-LW(LE)/Little Joe/-/
CN-V, VSO-I.
- 3655S 21/intermittent 1000 to 1515/10 9-f/Green Acres
Observatory/Procyon/many children/SS-2. 1 large spot.
- *3656EM2 2100-0115/9-f(moon)/Green Acres Observatory/
Little Joe, Procyon/36 children ~8yrs, + 6 staff/see draft.
- 3657S. 22/1200-1230/8-f(4) Green Acres/Procyon/others/SS-2.
- 3658S2. 1415-1440/8/f/G/Procyon/~10 others/Sun.
- *3659EM3 2100-0040/9-f/Green Acres Obs/
Little Joe, Procyon/35 children (~6yrs), ~10 staff,
Carl/DB Cl, M31, CN-V, CN-III, VSO-I. Con I.
See draft.

- 3660 S. 23/1440-1500/Green Acres-N/Procyon/4/SS-2.
- 3661 S. 24/1400-1430/G-N/Procyon/SS-2.
- 3662 EM2 2300-0010/7-F/LCP-818-LW(LE, C)/Little
Joe/-/CN-5, VSO-I.
- 3663 S. 25/1100-11340/9-F/G-R, N¹⁰/other children, incl.
Robby/Procyon, Rho/ photo of child + moon, SS-2.
- 3664 MB.MP2. 0040-0050/7-F/LCP-818-LW, LE/-/-/CN-5
- 3665 M3 0110-0125/7 1/2-F/LCP-818-LW, LE/Polaris/-/
see draft. Inauguration of Polaris.
- 3666 E. 26/2030-2120/9-F/Lake Placid area/-/-/CN-5.
- 3667 EP2. ~~27~~/2315-2325/10-F/St Jacques obs. site/-/-/CN-5.
- *3668 M3 0025-0140/~~10~~ 7-F/LCP-818-LW/Apollo/-/
VSO-I. Test for Apollo + König eyepiece. Very
impressed with both.
- *3669 EM. ^{at} 29/3-10-F/2125-0305/Jarnac Observatory -
B, D, I Spica, Echo (married), Apollo/Carl/
Photos, M-11, β Cyg. Aur-I. See draft and Journal
entry. A very satisfying observing session.
- *3670 M 30/0030-0320/10-F-A++/Jarnac E(B/D)/Cosmos II
inauguration. Pegasus with Big Bertha/See draft.
Cosmos saw M31 first, then sep ϵ 185 Cass at
1.8 seconds!
- *3671 AN 31/2100-0515/10-F-A++/Jarnac-B-D/
Cosmos II Beluga
Procyon RANGER
Spica-Echo-Polaris Apollo
Pegasus

/Carl/ Sagittarius Messiers. CN-II. CN-III. VSO-I.
See draft.

September

- 3672EM 11/22, 10-0300/10-7-F/Jarnac/Ranger, Cosmos
Spica-Echo/Carl+Peggy/See draft. Photos, CN-III, CN-V.
- 3673SP 2/0925-0935/through window-7-F/Jarnac/
Apollo/Carl/many sunspots.
- 3674S2. 2/1350-1420/3-F/Jarnac+Pegasus/Carl,
Peggy/SS2. R=63.
- 3675E3 2/1950-2005/3-f/Jarnac+B/Procyon/Carl/
quick look at Venus.
- *3676AN4 2/100-0430./10-1-f-A+/Jarnac-B(D)/Beluga,
Pegasus, Procyon/Carl+Peggy/Picture of Lyra.
CN-III. Comet scare: NGC 157? 11.6 mag
in Cetus!
- *3677AN 2/3/2100-0510/3-11-f-A+/Jarnac Observatory/
Pegasus, Apollo/Peggy, Carl/VSO-I. CN-3. See draft.
- **3678EM 4/2145-0335/4 2145-0335/10-f-A++/
Jarnac-B(D)/Cosmos II, Spica-Echo/Carl, Peggy/
Sightseeing. CN-5. CN-VSO-I. Photo of M-2.
- 3679E. 5/2230-2300/6-f/Trahan Park/Mira/Carl/general.
- S680 E. 7/2315-0006/7-f/Trahan Park/Apollo/Carl/sightseeing.
VSO-F.
- 3681MP2 0100-0110/7-f/Mt. Royal Auto Lookout/Gerald C. I-/
FRA in N.
- 3682M3. 0130-0205/7-f/LCP-818-LW/Apollo-1/CN-5, VSO-I.
- 3683S. 8/1415-1515/3-f/LCP-818-LW/Mira-1/SS-2. drawing
+ photos.

- 3684E2. Intermittent 2000-2230/3-10-F/ betw. Mt. + Kgetn |
- / Gerald, David / general.
- *3685M3. 0210-0300/10-F-A / LCP-19I-G / Little Joe /
David B / CNS. VSO-I. sighting. First session of new
19I season.
- 3686E. 9/2015-2050/3-F / Jarnac / Mira / David / Occ. attempts.
- +3687EM2. 2310-0400/10-2-F-A++ / Jarnac - B, D / Spica - Echo,
Beluga, Mira / David / M2, M42, Rb-C. M13, Veil.
2 photos M2, one is 55 minutes. # CN-3.
- 3688E. ^{intermittent} 12/23 7-10 pm / ~7-F / to Rt 3 in transit, NY / - / - / general
- *3689M2. 0125-0200/9-F (moon) / Pine Trees Cgd,
Lewis / Little Joe / M31. CN3. VSO-I. Independent
discovery of Nova Cygnis 1978.
- *3690S. 13/ ~1400-~1500/10-F / Howard Tedford's Station,
Saranac, N.Y. / Cosmas - III / Mik / Inaugural,
on Sun.
- 3691#M2. 0000-0030/8-F (moon) - very cold /
Pine Trees Cgd, Lewis / ~~Little Joe~~ / VSO-I.
- **3692S. 19/1330-1430/10-9-F / LCP-19I-G / a neigh-
bor / + Cosmas / Prominence inauguration.
- 3693E2. 2045-2250/8-9-F / LCP-19I-G / Cosmas
II / neighbors / β Cys, Mizar, M13, 57. 2 photos of
 β Cysm.
- 3694E. 22/2305-2350/7-F / LCP-818-LW / Apollo / - / CNS. VSO-I.
- 3695M. 23/0050-0135/7-8-F / LCP-818-LW / Apollo / - / CN-5. VSO-I.
- 3696E. 24/2130-2150/3-F / Confederation Park, Kgetn / - / Mik / CN-5.
- *3697M2. 0100-0145/8-F / LCP-19I-G / CN-5, VSO-I / Echo-II inauguration. / Mik.