

- Dec. 2-3
33° 48%
STRONG WIND
some clouds
Boyer alone. 3 photos of Comet Swift-Tuttle into the wind. 1st exposure OK because I could keep bottom shutter closed. About 5.0 mag, but tail weaker. Strong nucleus now. Left early in morning with a storm blowing in.
- Dec. 16-17
63% 27°F
moderate
W WIND
Boyer and Marty Bossant. 1½ hours in over 2 feet of snow. 3 photos of Comet Swift-Tuttle as it fades away to the SW. One M31 photo nova-search.
- Dec. 21-22
65% 20°F
LT. WIND
Jack Child and Ron Boyer skied in 1.5 hours, good snow with recent dusting of powder. Did photo set on Swift-Tuttle low in SW. JC - 5 survey sequences looking for asteroids ~ 7hr +16°, including 2 Fields of Toutatis beautiful weather but seeing poor.
- Dec 23-24
20°F
No Wind
J. Child - well, here I am again. Repeated Dec 22 Fields for follow-up. Gorgeous days & nights, but not very dark. Seeing poor. Brake indicator on RA circle - everything else ok. Tried to get digital circles working but they just don't seem to work. Clutch/brake on RA is very rough, also. * The rectangular piece we sometimes use as a nut for extra counterweight has a very worn & thin thread. I suggest we only use it with the regular retaining nut!
- Jan 2-3
No Wind!
8°F
Happy New Year! J. Child & G. Fisch. Skied in with computer & CCD camera - ygh! Never again, over 2 hrs, lots of snow. Did 10 pairs of images looking for asteroids. Beautiful night, seeing fair to poor. Everything seems to be working ok. Not as much ice on the floor as last time.

238

CLAUDE B. SMITH 1993

R.I.P. Nov. 29, 1992 - died in Lakewood, Calif.

Mar 1-2 J. Child - Asteroid Photog. Lot of water upstairs - maybe Nov. is not a good place to park the dome? Broke the slow switch on control box, will try and find another. Also had probs with RA slow motion. Don't know why that relay sticks - it feels like it's got current in it all the time. I tightened the spring and fixed the brushes on the commutator. Nice night, no wind. Everything else ok.

April 28-29 Poyer + Marty Poissant. Good clear except small portion of snow-gulch. Hiked in last $\frac{1}{2}$ mi. Did full night of photos + visual variables. Slow motions worked flawlessly! Seeing and transparency poor - hard to get below 15.0 mag. SN M81 93 at 11.9 - going down for sure now.

May 2 Stephenson - stopped by to check on things. Everything looks ok. Dropped off microwave oven that I picked up at yard sale.

May 16 Stephenson, Rafferty, Webb, Robinson
75% RH
48°F
Thunder clouds caused problems, between midnight and 3 AM sky was clear enough to do visual overhead and to East. Observed M81, 82, M57, M52, NGC 6826, α Cygni.
Snow is now gone from the road.
The R.A. drive motor was stalling, by turning up the voltage at the motor it works o.k. But move very fast when going to the West.
Changed R.A. drive switch on control paddle.

- May 21-22 J. Child + John Rogers. Chasing those asteroids again. Nice night, clear with fair transparency - seeing fair. Imaged 1993 FZ and 1988 MF, and a poorly focussed M51 which was too big for F7 on the ST6. Everything great, even had electricity.
- May 31 / Jun 1 J. Child + John Sanford. Imaged asteroid 93FZ near Spica with 500x256 Starlight Xpress CCD camera. Clear breezy cold. Also imaged SN 93j in M31.
- June 12-13
60° J. Child & John Rogers. Beautiful night, good seeing early, no breeze. Asteroid images of 1993 KH, 1993 FZ, comet 1993 L, and M51. Everything working great.
- June 16-17
E WIND
50% 45°F Poyer alone. Poor seeing. Did 12 alert status variables visually. Could see Milky Way quite good after midnight.
- June 19-20 Stephenson, Robinson - Broken clouds moved through West Wind 5 KTS
50% 54°F All Night. Visual on Saturn, m21, m57, m2, used CCD on Saturn and m2, I need to read the book for the CCD.
- July 1-2 Poyer and Fred Middendorp S.V. - Visual observation
45% 64°F - lots of moon. All OK
- July 14-15
lt. W. wind Poyer alone. Good night. 60°F 48%. Did 10 alert status variables, and 3 plates of M31 nova search with ST-4. Works perfectly!

240

1993

- July 17-19 Stephenson, Robinson, Schroeder,
 Light Westwind Saturday Visual of, M57, Uranus, M17, M20, M51,
 54°F 48%RH M56, M63, M13, Cluster of NGC ~~5350~~ 5350, 5353, 5354,
 5355, 5371, and NGC 5721, 5717.
 Super Nova in M81 was Approx. 13 mag.
 Sunday the Mallon Family stopped by and
 we showed them ~~Saturn~~, Jupiter, M4, M81-82, and
 the Owl Nebula, Later that Night we shot
 3 exposures of ~~Satellite~~ Cluster of Galaxies
 NGC 5350, 5354, 55, 71.
 Changed Electrical outlets on 220 Volt
 Circuit of dome, I need to bring New Cover Plates
 from L.A.
- July 21-22 Poyer and Marty Possant. Visual observations
 50% 50°F and 2 plates of The Veil in Cyg.
 NO WIND All perfect. Tightened SE motor mount base.
- July 28-29 Poyer alone. Did visuals till moon set at
 46% 60°F 1:30 A.M. Then did 2 long auto-guided
 exposures of M31 and the Veil.
- Aug. 2-3 Poyer and Jim Whelan to fix hydraulic shutter
 opener. All OK. Need to tighten SE motor
 mount screws yet. — OK now! 9-15-93
- Aug 21-22 J. Child & J. Sanford. Chasing asteroids
 for SAO. Nice night, no wind. A:OK
- Sept. 15-16 Poyer. Observed stars on Orpheus mission (EUV)
 52% 44°F Did photos. — Perfect night here yet, easily
 down to 16.0 mag. Even Desert was clouded over.
- Sept. 16-17 Poyer. Continued variables + photos. Photo of
 new nova Sgr.
 Caulked 4 corner roof leaks!

- Sept 18 ^{fr.} Stopped by to fix 220 Volt outlet on West Side of Dome, Royer reported a short last time he was up. the hot wire was pinched and making a intermittent short, Wiring Now Fixed. I oiled the Dome rollers. - Good job!!! There is an extra bottle of Gear oil Next to the clockdrive if its Needed.
- Sep 18-19 J. Child / J. Rogers. Asteroid Follow-up observations w/ST6. Good night, clouds in about 4am. ALL OK.
- Oct. 13-14 Royer alone. Did visual on variables and many photos - some for MAVSO circumpolar project with Hasselblad camera, T.P. and green filter. Some rotates very smoothly and does not jerk! The lube job did it!
The ST-4 did well, but with 7th mag. star and long refractor it takes b-4 at 1" time, and focus must be good. My old black shirt is used to take dark-frame.
- Oct. 14-15 Royer alone. Good night till midnight, then clouds. Continued on variables. Did one plate of M31 for nova search - used 6" f5 refractor and ST-4 on same guide star as ~~above~~ above, but with b-1 instead of b-4. Did some roof caulking.
- 23
ENTRIES
- Nov. 17-18 Royer and Poissant (Marty) drove in over 2" snow on many parts of the road. Found lots of water on dome floor, it leaks from top shutter panel, and buckets left in position. (Caulking next trip!) 4 corners dry!
In spite of weather forecast - clear all night. Did visual variables and M31 nova-search plates.
Left prime focus camera on scope for 11-28 Total Lunar eclipse

242

1993 - 94

Dec. 12, 93

65% 28°F

NO WIND

Royer and ^{Marty} Poissant - first use of Royers new cellular phone - now Ford Obs' is with it, Unfortunately.
 Did some caulking on Dome to prepare for snow leaks. One variable star observation phoned in on cell phone, clouds ending further observing

H

1994

April 20-21

43°F 56%

light w
wind

Royer alone - drove in over rocky road. All OK here. Some leaks appear minimal, but water still somehow drifts down mount into main worm gear oil - pan. Had to clean up and recharge oil. Must be wind-driven snow gets on mount. Important to cover mount well and invest control paddle.

Clear night, did check-up on the 2 supernovae and lots of photos of the one in M51. Quite dark after gibbous moon set - fog in the lowlands.

Had visits from the ranger, and Edison meter-reader - who was inspecting to make sure our meter was OK - no use since Dec. 12. Both were pleased.

May 1

Stephenson, Robinson - Stopped by to rest Feet After Climbing Mt. Baden-Powell. Everything Looks OK Here.

May 25-26

NO WIND
53% 50°F

Royer and Jim Whelan. Have tour to IAPPP group. Full Moon + 1 day. Did visual variables, including new nova Sgr. 94#2 at 11.1. Found that placing large magnet on EAST side of worm wheel eliminates backlash!

June 8-9

NO WIND
46% 50°F

Royer alone. Video of Jupiter for upcoming comet crash. 2 films of M51 - best guiding ever, thanks to pre-load! ST-4 = A1 and A0! Visual observations of stars till 4:00 A.M. - Perfect night - Good seeing.