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1/2/83 Jeff here for a checkout tour,
all seems O.K., got in with
chains.

1/7/83 Jeff here for usual estimates,
did 15, 13 L.S., excellent night! Needed
chains to get in, all in good order.

4/3/83 Jeff here for inspection, road
has been closed by snow, but is now
plowed and open. All ok, some
water spots upstairs and the drive
wash oil overflowed on floor, apparently
rain water overflowed it.

4/16/83 PAT THOMAS, JOHN STEPHENSON AND
JEFF SCHROEDER FOR VISUAL OBSERVING.
HORRID SEEING, BRIGHT SKY. STRONG
WIND FROM S.E. IN AM. CLEANED AND
RELUBED WORM.

5/6-8/83 John Stephenson
Here to photograph Comet Iwas, $1\frac{1}{2}^{\circ}$ of coma in ~~10150~~
on 5/7 Easy naked eye, looks very similar to M31.
EOP/WOP switch on Guiding paddle Broken
will fix this week. Road closed by storm
on 5/1 But now open.
Air temp 45° , Rel Hum 45%, No wind.

May 9-10-83 Royer - Stephenson - Padilla - Doff
36°F 45% Comet has a ghostly naked eye apparition near bowl of Little Dipper.
NE to SW Roundish, brighter to the west, no tail, stellar nucleus, fast moving.
wind clear Did some photography with 18" f7 by timing out the rate.
Very little declination correction needed. Comet about 2-3 mag. 1° to eye

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May 10-11, 1983 A very bright sky tonight making comet Sas not as spectacular. It has now moved west of bowl of Big Dipper. It still appears fan shaped to the west, its direction of motion, and it is now moving rapidly south also.

26°F 75%
dying wind from west

We put guide refractor back onto 18" f7 - works well with magnetic balance weight on mirror cell and John Stephensons weight on R.A. shaft.

Many photos again.

Located comet SUGANO? in morning twilight at $1^h 25' +40^\circ$ dec. - about 7th Mag. - maybe slight tail, moving very slowly, no stellar nucleus, condensed ^{a few min. of arc or so} coma, it must still be far away.

All systems working well - thanks Bill Goff!

May 21-22 Stephenson & Thomas. Moon past 1st qtr. Seeing not good enough to photograph planets. Visual observing of Jupiter, Saturn, Venus, Messier & NGC. Mounted finder using big magnet on back of tube - works well and w/ps. balance tube. Tried to locate comet SUGANO? with no luck - could barely see M31 in binoculars due to skyglow & scattered moonlight.

45°-55°
Variable
SW wind

6/45 Bill Goff and Sugimen here for visual observing. Lot of haze in the air, seeing only moderate, humidity 65%. Scope seems to work well, I have the turret flange to get a new screw.

6/7 3³⁰ PM, Goff here for minor maintenance. Installed counterweight on focus case and rebalanced tube, replaced retainer screw under

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turret. Now all seems ready for
usual use.

UB

- June 8 Ford, Bilodeau. Opened up 9:45 PM PDST.
Obs'g: 7 est's, Bilodeau; 5 est's, Ford, 4 of
which were sanctum. No wind temp. 53°-46° at
closing of dome 01:15 AM PDST. All visual
equip't + telescope working OK including rotating
eyepiece cage (still manual operation).
- June 9 Ford, Bilodeau. Opened dome 9:10 AM PDST.
Obs'g: Bilodeau, 16; Ford, 14 est's, 9 of which
were sanctum. Light wind, temp 61°-52° but
dome closing 02:00 AM PDST June 10. All equip't +
telescope working OK. Eyepiece ^{cage} turret rotation
OK but still manual.
- June 11 Ford, Bilodeau, Goff (until 1 AM). Opened
(Goff) 9:15 PM PDST. FD obs'n's: Total =
12, including 9 sanctums. Windy; working
only to the east to be comfortable. Transp'y
fair, seeing poor. Temp. 52°-42°.
FD stopped 2:30 AM, Bilodeau continued
till dawn late 4:15, got total of 19 est's.
Manual operation of rotating cage. All
parts now at hand to motorize that rotation.
- June 13 Ford, alone, Opened up, 10:45 PM PDST. Crescent
moon, setting. Temp 62°-54°. Transp'y OK, seeing
fair; no wind. Obs'd total of 12 var's, including
9 sanctums. Equipment OK; manual cage
rotation. Stopped obs'g 02:50 AM PDST
June 14.

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June 14-15 Ford, alone; crescent moon, setting. Opened dome (Goff) 9:45 PM PDST. Goff + Fd obs'd 4 vars; Goff left obs'y 11:45 PM. Total obs'n's by Ford = 9, including 5 sanctums, Sky transp'y only 'ca. 0.8; no wind; seeing fair. Temp 61°-54°. Stopped, closed dome 01:15 AM PDST, June 15.

June 16-17 Ford, alone. Crescent moon, did not open up until ca. midnite PDST. Temp 64°, Sky transp'y fair + seeing fair. Obs'd 5 vars., 3 of them sanctums. Stopped 02:50 AM PDST. Equipment OK. No wind; comfortable obs'g conditions.

June 17-18 Ford + Goff. First quarter moon, Sky transp'y OK, but seeing poor. Opened 11:30 PM PDST. Temp. 62°-58°. Muggy near horizon. Obs'd total of 9 vars., 5 of them sanctum. Stopped 3:00 AM PDST June 18. Chart - ~~to~~ checking on RX Sge (+ others) "L" chart. Equipment all working OK; manual only cage rotation.

July 1 John Stephenson, Rick Sorensen, Bill Webb, Mike Raserity. Visual all Night testing New Eyepiece (45 mm Burtell). Closed up at 3:30 local time warm all Night No wind

July 3 John Stephenson, Jeff Schroeder Photograph M13 on VR1000. Visual Along milkway. At 2:26 Local watched a satellite transit the moon From Dew E to W Before Satellite "Einstein Satellite."

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- July 13-14 Royer and Maty Poissant. Strong SW wind, no good for planetary photography. Seeing poor, transparency good, but bright sky. Used that new large eyepiece of John Stephenson and saw H II regions of summer Milky Way best ever! Especially good was the Veil Nebula, SNR, in Cyg. A very good, all-around eyepiece giving good magnification with 7° field. Thanks John!
Restored fast R.A. function and wet-mapped the dome.
- July 19 John Stephenson, Bill Goff, and 5 Guests
Visual on Venus, Saturn, Jupiter, M13, M27, M57, and moon temp 55°
Fast motion on RA still out.

- July 30-31 John Stephenson, Laurence Stephenson
Pat Thomas, Dave Phelps. Visual on Planets
some deep sky. Seeing Fair However Clouds
became a problem by midnight. Temp 62°
Rel. Hum. 32° Little wind

8/4/83 Jeff here for some preliminary
checks on new plate holder assembly.
I have the focuser mounting flange,
will return it 8/6.

- Aug. 10-11 Royer + Poissant, Maty. Tried out prime focus camera, probe
tube must be shortened! Did 35mm Perseid photography.
70 \rightarrow 50°F
60 \rightarrow 70%
Saw about dozen Perseids, and almost as many non-shower.
Clear, slight SW wind, seeing poor.
- Aug. 11-12 Royer, Poissant, Sorensen, Stephenson, Royer-Poissant. Did one
52°F 52% Prime focus photo of Ring Nebula - 35MM, VR1000. Watched
NO WIND for Perseids - very sparse - got better after 3:00 A.M.
Clear, Loosened main worm of scope - it was jamming!
seeing average

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Sep 3-4
Clear,
Windy

J. Child here for galaxy photographs.
got 15 in two nights. Used Raper's
PFF-axis guider & 35mm - worked very
well. Telescope is working ok, although

Sep 4-5
clear,
NO WIND

it doesn't sound quite right*. Makes
a 'thump' about every 10 seconds at times.
Everything else is 'A-ok'

* Aluminum bearing plate on drive shaft in motor room?

Sept 6-7 John Stephenson, Bill Webb - Photography
M13, North American, Coathanger, M27, M1, M45,
M42, And Horse Head.

Seeing poor, light to moderate wind

DSE Axis Eyepiece for 4X5 camera Not Functional

Site entry - 9/2 Diff here for visual estimates

9/9 Diff here for estimates, clouded up
early.

9/18 Diff here for maintenance. The drive
worm is serious out of align. Need
work before any long term sessions.

9/20 Diff here for inspection and
measurement. I moved the worm
gear up the polar shaft about
0.125 in. The alignment is improved
but the worm needs to be set up.
We work on it 9/23 probably.

WB

Some water seepage due to
rain around front door, upstairs. ~~It~~
has a few new stains also.

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9/25 Off here for maintenance. Installed motor and control for rotator on big end. All went well, rebalanced easily. Still needs power cord.

Re-aligned worm and set lock. All control now work smoothly on slow and slow motion. Aired out the building a bit.
WS

10/2/83 - Off here for maintenance and observing. Began installation of motor (cage) and control wire. Did some estimates but screws rolled in.

WS

10/9 Off here for maintenance and observing.
WS

10/11 Off here for work on rotator. It now works, but studs are a bit short and I will have to replace them to get the tension right. To operate:

1. on the wall panel in NW corner of upstairs the bottom switch on left side needs to be "on".
2. Turn on control box on switch and red light comes on.
3. Lever then controls motor forward or reverse.

The wire will have to be watched so it doesn't get wrapped up. It will be nailed down after we figure a most convenient position.

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Oct. 12-13 Poyer alone. Photographed R & B at 13.5 mag. ^{-35 mm format}

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58°F

40-80% Light SW wind, lots of drifting cirro-form clouds.

Spent time trying to adapt prime-focus camera, more to do.
Nice job by Goff on motorized unit - but I already
snappped the cable in the dec. circle. Careful!

R. Poyer

10/22/83 Goff here 12³⁰-4³⁰ - repair and maintenance
Re-adjusted motor mount on cage. Closed
gophers, Calibrated outside. Moved circle desk
light. CB

Oct. 27-28
42°F 64%

Poyer and Pon Sabers. Did some work on prime focus camera
and brought same home to spring-load shutter. Track rotation
works well. Visual observing after last quarter moon rose.
Light N.E. wind and some back-moving clouds. Seeing not
too bad. Surprising amount of haze in spite of East wind condition.

10/28 Goff here for visual estimates, transp.
was poor in some parts of sky, seeing
was very good. 11 estimates, 9 inner sanctums.
7-10³⁰ PM. No wind.

10/30 Noon 10/30^{AM} - ca. 2 PM Goff + Ford. CB
Inspection + further adjustment of rotating
eyepiece cage + main worm drive. All OK.

10/30 8 PM - 11:15 PM PST Goff + Ford. Obs'd
total of 9 vars, incl'g 8 sanctums. Light
new, very high humidity, temp 45°-38° F
Seeing + transp'y poor except near zenith

Nov. 1 Ford + Carpenter, 11 AM - 1 PM. Inspectio
ion. Put newly-mall + revised charts in
chart file.

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Nov. 2-3 Goff + Ford, 7 PM - 11:30 PM PST.
Obs'd total of 12 vars, incl'g 9 sanctums.
Corrected some imbalance in telescope,
re-adjusted counterweights. Equipment all OK,
including rotating cage motor. Sky
good, no wind, normal humidity, seeing
fair to good, little transparency. Temp.
45°-48° F.

Nov. 3-4 Ford alone. Transp'y + seeing poor. Temp.
50° F. Obs'd total of 5 vars, including 3
sanctums. Closed up 11:30 PM PST.
~~Had~~ No wind. Chkd out new chart for 000226 SY Sel.

Nov. 4-5 Ford, Goff. Transp'y + seeing fair, light
wind. Temp. 50°. Equipment all OK except
for eyepieces too tight in turret. Obs'd
total of 9 vars, including 5 sanctums.
Stopped at 00:30 AM Nov. 5, PST.

Nov. 5-6 Ford, Goff, Bilodeau & John Bartels.
Transp'y fair to good, seeing fair, Temp.
43°-45° F. Obs'd total of 7 vars, in-
cluding 4 sanctums. Goff cleaned + polished
eyepiece sleeves - work much easier + better.
Closed up 01:45 AM PST Nov. 6.

Nov. 9-10 Ford, Royer, Goff, Bilodeau, Possant bro. Brought up prime-focus
47% 40° F. camera and installed - works and guides fine. Broken clouds
allowed no real observing. SW strong wind; all systems fine.

Dec. 2-3 Royer, Mary Possant, and Lon Sabers. Raining coming
32° F up - clear in Wrightwood and on mountain. Stiff NW
60-45% wind - seeing quite good. Used new camera for the
95% in first time - worked well. Evans supernova in NGC 1365
morning photographed and 3 variable star fields. Saw supernova

at about 13th mag. Also observed other galaxies of
Torrax cluster, quite compact. ~~Quit~~ at 3:00 A.M.
still clear - raining at 9:00 A.M. - windy - foggy.

Dec. 27 Poyer, Padilla, Possant, Ribota. Strong SW wind and much
high-cirrus. Returned to cabin.

Dec. 28-29 " " " " No wind - 80% 40 → 32°F
High-cirrus did not clear till ~ 2:00 A.M. - One plate taken.
Photographed + videoed Saturn occultation at 6:40 A.M.
in dawn-light. Used large eyepiece - very good results!

12/29-30 Off here for visual estimates, some
cirrus, seeing was good, no wind.
WB

12/30 - 1/1 J. Child & Friends from OCA
High clouds Fri nite & Sat, cleared shortly after
1984 New Year's. Visual observing & photo T. Dr.
For F. Royer. Everything tip-top - Bill has
done an absolutely superb job here. Took
autoguide home for corrective surgery.

Jan. 4-5 Poyer alone. No snow around, we are under a several-day
1984 High pressure. Some East wind. Photop N5C 1365,
40°F → 32°F AKTAU, VXTAU, AC AVR, TORI. Seeing fair,
60% → 88% transparency only fair, lots of SW and S light glare.
Scope et al. working well.

1/7-8/84 Off here for visual estimates.
12 variables, 19 inter sections,
excellent seeing, no wind. An extreme
southern declination the rotating
stage still slips a bit, but a
small encouragement from an operator
gets it going. Saw 18.1 mag
on a chart of V66 Mon! WB