
Mauna Loa Solar Observatory Observer's Log

Sun Jan 2 17:45:22 GMT 2000

Year: 00 Doy: 002 Observer: koon

WEATHER COMMENT: Sun Jan 2 17:45:34 GMT 2000 Clear sky, wind=5 mph from the SSE, temp=39 F.

Sun Jan 2 17:48:14 GMT 2000 CHIP Startup--Initializing new tape

Sun Jan 2 17:52:58 GMT 2000 MKIV Start Patrol

Sun Jan 2 17:53:10 GMT 2000 CHIP CHIP Start Patrol

Sun Jan 2 17:54:29 GMT 2000 PICS Start Patrol

COMMENT: Sun Jan 2 17:57:00 GMT 2000

So far the only Y2K glitch I've seen was the PC date shown as January, 1980.

 Sun Jan
 2 18:03:07 GMT 2000
 CHIP
 Bias

 Sun Jan
 2 18:03:07 GMT 2000
 CHIP
 Bias

 Sun Jan
 2 18:04:06 GMT 2000
 CHIP
 End Bias

 Sun Jan
 2 18:04:13 GMT 2000
 CHIP
 Water

 Sun Jan
 2 18:04:51 GMT 2000
 CHIP
 End Water

PICS PROBLEM: Sun Jan 2 18:05:31 GMT 2000

Getting an Optics: Timeout every time the occulting wheel gets moved, but the wheel was getting moved. Now the wheel is stuck in the occulting position so I paused the program so I can try to fix this ongoing stall problem.

Sun Jan 2 18:10:35 GMT 2000 PICS End Patrol

MKIV PROBLEM: Sun Jan 2 18:13:10 GMT 2000

No xanim animations, I checked the MkIV data directory and there are no .gif files there, and there are some files which look oddly named, like 100d00218_07.mk4.ba, I'm just guessing when I say that maybe that file name should start with 00 instead of 100. But data are going to that directory so I think we're OK.

LOW-L COMMENT: Sun Jan 2 18:29:38 GMT 2000

Tape L00655 had 80 files on it so I replaced it with L00657 in drive #1 after I cleaned that drive, data going to L00656 in drive #0 now. This PC also showed the date as 1/1980 and was 9 minutes fast, but that didn't affect the lowl program screen display. I set the date correctly for the PC and the year in the ctconfig file (not sure if this is still needed).

GONG PROBLEM: Sun Jan 2 18:37:21 GMT 2000

They had a problem with the instruments shortly after the year change. I don't see any solar image although the program is running and there are no error messages. The console took a long time to clear previous error message and "update display" after I clicked on those requesters. GONG people said they are still working on some problems.

MLSO PROBLEM: Sun Jan 2 18:45:41 GMT 2000

Network connection is very slow.

Sun Jan 2 19:03:07 GMT 2000 CHIP Bias Sun Jan 2 19:04:03 GMT 2000 CHIP End Bias

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Sun Jan 2 19:04:10 GMT 2000
                               CHIP
                                         Water
Sun Jan 2 19:04:49 GMT 2000
                                CHIP
                                         End Water
Sun Jan 2 20:01:59 GMT 2000
                               CHIP
                                         Gain
Sun Jan 2 20:07:34 GMT 2000
                                         End Gain
                                CHIP
Sun Jan 2 20:07:41 GMT 2000
                                         Bias
                                CHIP
Sun Jan 2 20:08:33 GMT 2000
                                         End Bias
                               CHIP
Sun Jan 2 20:08:40 GMT 2000
                                CHIP
                                         Water
Sun Jan 2 20:09:20 GMT 2000
                                CHIP
                                         End Water
COMMENT: Sun Jan 2 20:33:32 GMT 2000
Doing a Scintillometer data dump to disk. The date change was handled
correctly by that PC, year is shown as 2000, and abbreviated year is 00
for file creation dates.
Sun Jan 2 21:01:17 GMT 2000
                                CHIP
                                         Bias
Sun Jan 2 21:02:14 GMT 2000
                                         End Bias
                               CHIP
Sun Jan 2 21:02:21 GMT 2000
                                         Water
                               CHIP
Sun Jan 2 21:03:07 GMT 2000
                               CHIP
                                         End Water
**PICS PROBLEM**: Sun Jan 2 21:38:18 GMT 2000
I carefully examined the occulting wheel assembly and found a few loose
screws in the Geneva drive assembly, but nothing bad enough to stall
the motor I think. I guess the motor is just worn out and doesn't have
the starting torque is used to have. I'll replace it with the spare
motor and see if the wheel stalls. Everything else in the system
seems to be within tolerances.
WEATHER COMMENT: Sun Jan 2 21:42:07 GMT 2000
Orographic clouds are passing over.
COMMENT: Sun Jan 2 21:42:55 GMT 2000
Unfortunaately I must have bumped the spar off the sun a while back
when I was working on the occulting wheel, I repointed and reset the guider
now.
Sun Jan 2 22:01:01 GMT 2000
                                         Bias
                                CHIP
Sun Jan 2 22:01:59 GMT 2000
                               CHTP
                                         End Bias
Sun Jan 2 22:02:07 GMT 2000
                               CHIP
                                         Water
Sun Jan 2 22:02:46 GMT 2000
                               CHIP
                                         End Water
Sun Jan 2 22:14:29 GMT 2000
                               CHIP
                                         CHIP End Patrol
Sun Jan 2 22:58:14 GMT 2000
                               PICS
                                         Start Patrol
**PICS PROBLEM**: Sun Jan 2 22:59:31 GMT 2000
I swapped the occulting wheel motor with a spare we had. It worked well
for a few moves then I noticed a Timeout message and it appeared that the wheel
stalled so I stopped Patrol but then the wheel moved. So I tried using the
mouse to move the wheel and it worked without fail, then I tried Video
and it seemed to work but there were Optics: Timeouts, then I tried Patrol
again. I think the Timeouts are at least partially due to the Objective
Wheel card being used for the Occulting wheel, I can see the fields for
the Objective wheel turn red and yellow during Patrol, is this wheel
used during Patrol? The LEDs show that the occulting wheel is moving,
and it looks normal between H-alpha disk to H-alpha limb as the
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occulter is rotated into place, but the GUI fields look funny when rotating back to the Clear position (for H-alpha disk images), the various fields

light up out of order and some of them light multiple times during the move, and the Dark field ends up lit. It's cloudy, but I opened the dome to see if the wheel is making it to the Clear position, but this time the Clear field was white (lit) and the disk image was there, so it worked correctly, very weird, then it kept working correctly after that, I don't understand why. The only thing that changed is that the spar is pointed at the sun now, yet the occulting wheel is moving to the correct position for the limb images and it wasn't before, the "Bit 1" LED is lit for a disk image, but the "Bit 0" LED was lit before. Maybe I didn't align the home limit switch correctly.

PICS PROBLEM: Sun Jan 2 23:32:47 GMT 2000

OK, now the Bit 0 LED is lit for the disk image, wrong LED, I'll check the home switch again.

Sun Jan 2 23:35:43 GMT 2000 PICS End Patrol **PICS PROBLEM**: Sun Jan 2 23:40:43 GMT 2000

I think the home switch is aligned correctly you can see the Bit LED light then the Home LED, then the Home LED goes out, then the Bit LED goes out, this is all correct. I can use the mouse to repeatedly go back and forth from Occult to Clear (stations) without a problem, it seems there is only a problem when this is done from the Patrol program. I tried it in the Video program (using the mouse to move the wheel) and it worked without fail. So currently I haven't seen the wheel stall with the spare motor installed but sometimes the wheel goes to the Dark position when Patrol is running and should be sending it to the Clear position, this may be where the wheel ends up if there is a Timeout (?)

Sun Jan 2 23:55:47 GMT 2000 CHIP ending tape

COMMENT: Mon Jan 3 00:06:26 GMT 2000

TAPES: *****

MKIV: 00002 CHIP: C01003

PICS: No data, occulting wheel problems.

LOWL: L00655 in drive #1 and L00656 in drive #0

Mon Jan 3 00:07:40 GMT 2000 MkIV

17_52.rawmk4	18_45.rawmk4	19_48.rawmk4	20_41.rawmk4	21_34.rawmk4
17_56.rawmk4	18_48.rawmk4	19_51.rawmk4	20_44.rawmk4	21_36.rawmk4
17_58.rawmk4	18_51.rawmk4	19_54.rawmk4	20_47.rawmk4	21_39.rawmk4
18_01.rawmk4	18_54.rawmk4	19_57.rawmk4	20_50.rawmk4	21_42.rawmk4
18_04.rawmk4	19_00.rawmk4	20_00.rawmk4	20_52.rawmk4	21_45.rawmk4
18_07.rawmk4	19_06.rawmk4	20_03.rawmk4	20_55.rawmk4	21_48.rawmk4
18_10.rawmk4	19_12.rawmk4	20_05.rawmk4	20_58.rawmk4	21_51.rawmk4
18_13.rawmk4	19_16.rawmk4	20_08.rawmk4	21_01.rawmk4	21_54.rawmk4
18_16.rawmk4	19_19.rawmk4	20_11.rawmk4	21_04.rawmk4	21_57.rawmk4
18_19.rawmk4	19_21.rawmk4	20_14.rawmk4	21_07.rawmk4	22_00.rawmk4

18_22.rawmk4	19_24.rawmk4	20_17.rawmk4	21_10.rawmk4	22_03.rawmk4
18_25.rawmk4	19_27.rawmk4	20_20.rawmk4	21_13.rawmk4	22_06.rawmk4
18_28.rawmk4	19_30.rawmk4	20_23.rawmk4	21_16.rawmk4	22_09.rawmk4
18_31.rawmk4	19_33.rawmk4	20_26.rawmk4	21_19.rawmk4	c18_57.rawmk4
18_34.rawmk4	19_36.rawmk4	20_29.rawmk4	21_22.rawmk4	c19_03.rawmk4
18_37.rawmk4	19_39.rawmk4	20_32.rawmk4	21_25.rawmk4	c19_09.rawmk4
18_40.rawmk4	19_42.rawmk4	20_35.rawmk4	21_28.rawmk4	
18_42.rawmk4	19_45.rawmk4	20_38.rawmk4	21_31.rawmk4	