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                     Mauna Loa Solar Observatory Observer's Log
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            Fri Jan 26 17:29:46 GMT 2001
Year: 01  Doy: 026
Observer: yasukawa
WEATHER COMMENT: Fri Jan 26 17:30:29 GMT 2001
Cold, clear, strong south wind.
Fri Jan 26 17:38:34 GMT 2001    CHIP    Start 7 Passband Patrol
Fri Jan 26 17:38:42 GMT 2001    MKIV    Start Patrol
Fri Jan 26 17:38:41 GMT 2001    PICS    Start Patrol
Fri Jan 26 18:02:00 GMT 2001    PICS    Flat
Fri Jan 26 18:05:37 GMT 2001    PICS    End Flat
```
MKIV PROBLEM: Fri Jan 26 18:28:42 GMT 2001
Disconnected BNC at rear of Dalsa camera to test whether the analog
output is loading the camera. This will eliminate the MKIV monitor
display (oscilloscope on OCP). Looking at real-time display for
any differences in output.
```
Fri Jan 26 18:32:05 GMT 2001    MKIV    Start Patrol
```
MKIV PROBLEM: Fri Jan 26 18:33:04 GMT 2001
I do not see any discernable difference in the before and after image.
MKIV PROBLEM: Fri Jan 26 18:42:24 GMT 2001
Hmmm... signal at real-time image disappeared for some unknown reason
after I selected Idle at the turnaround to stop to reconnect BNC at Dalsa
camera.
MKIV PROBLEM: Fri Jan 26 18:44:21 GMT 2001
"disappeared" meaning went flat--like opal or shutter is in, not white.
MKIV PROBLEM: Fri Jan 26 18:47:22 GMT 2001
Reconnected analog output BNC to Dalsa camera.
```
Fri Jan 26 18:47:51 GMT 2001    MKIV    Start Patrol
```
MKIV PROBLEM: Fri Jan 26 18:59:33 GMT 2001
CW scan during cal is "dark" again--no coronal image. CCW scan images
appear normal.
MKIV PROBLEM: Fri Jan 26 19:02:21 GMT 2001
Images that were "dark" on the realtime display also appear blank (white)
on the xanim display.
MKIV PROBLEM: Fri Jan 26 19:03:46 GMT 2001
Coronal image is displaying during the CW scan in the realtime display
this time around.
MKIV PROBLEM: Fri Jan 26 19:13:10 GMT 2001
Changing strap in transformation board to change from 960 Hz to 480 Hz.
I will be switching:
U2 #6 to open
U4 #1 to open
U4 #2 to closed
Then I will reboot the kcc and proceed from there if there are
no errors in the code and if coronal images appear at the real-time
display.

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**MKIV PROBLEM**: Fri Jan 26 19:25:06 GMT 2001
During the kcc boot, I saw the folloring error messages flash by:

dqSetSurfProcRect(): Fatal error
    A fatal error has been encountered, causing the program to terminate.

and

dqSetTimingSwitch( 0x0036d770(INVALID OBJECT), ??_?00005615?. 1 )
dqSetTimingSwitch(): Not an IP device handle
dqSetTimingSwitch(): Fatal error

Done executing startup script /opt/alakai/mech

The gui is up on the monitor and it appears that the boot did proceed to
the end.  Emailed David to see if we should proceed with Patrol.
**MKIV PROBLEM**: Fri Jan 26 19:44:03 GMT 2001
David checked the code, found and corrected the error and I rebooted kcc.
Boot proceeded OK with no error messages this time.
Fri Jan 26 19:46:02 GMT 2001     MKIV    Start Patrol
**MKIV PROBLEM**: Fri Jan 26 19:46:51 GMT 2001
Bummer, all I see is "snow" on the realtime display, no coronal image.
... in both CW & CCW directions.
Fri Jan 26 20:02:50 GMT 2001     MKIV    Start Patrol
Fri Jan 26 20:03:01 GMT 2001     CHIP     LSD
Fri Jan 26 20:05:38 GMT 2001     CHIP     End LSD
Fri Jan 26 20:05:51 GMT 2001     CHIP     BiasLSD
Fri Jan 26 20:06:44 GMT 2001     CHIP     End BiasLSD
Fri Jan 26 20:07:00 GMT 2001     CHIP     Bias7
Fri Jan 26 20:08:03 GMT 2001     CHIP     End Bias7
**MKIV PROBLEM**: Fri Jan 26 20:14:13 GMT 2001
Tried a bunch of adjustments in gains and did not see any corona or
understandable changes in I.  I will restrap the transformation board back
to 960 Hz and David will reinstall the 960 Hz code.  Then I will reboot
kcc to pick it up and then we will (hopefully) proceed with coronal
observations.
Fri Jan 26 20:19:39 GMT 2001     MKIV    Start Patrol
**MKIV PROBLEM**: Fri Jan 26 20:21:35 GMT 2001
UGH! realtime display is displaying concentric streaks, no coronal image.
**MKIV PROBLEM**: Fri Jan 26 20:31:36 GMT 2001
Picking up a new version of code via kcc reboot.
Fri Jan 26 20:33:05 GMT 2001     MKIV    Start Patrol
**MKIV PROBLEM**: Fri Jan 26 20:35:08 GMT 2001
OK. realtime display back to what was normal this morning.
Fri Jan 26 22:10:01 GMT 2001     PICS     End Patrol
Fri Jan 26 22:12:11 GMT 2001     CHIP     End Patrol
Fri Jan 26 22:13:04 GMT 2001
        MkIV
```

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17_38.rawmk4    18_20.rawmk4    20_05.rawmk4    21_00.rawmk4    21_42.rawmk4
17_41.rawmk4    18_23.rawmk4    20_08.rawmk4    21_03.rawmk4    21_45.rawmk4
17_44.rawmk4    18_32.rawmk4    20_11.rawmk4    21_06.rawmk4    21_48.rawmk4
17_47.rawmk4    18_35.rawmk4    20_20.rawmk4    21_09.rawmk4    21_51.rawmk4
17_50.rawmk4    18_38.rawmk4    20_23.rawmk4    21_12.rawmk4    21_54.rawmk4
17_53.rawmk4    18_41.rawmk4    20_34.rawmk4    21_15.rawmk4    21_57.rawmk4
17_56.rawmk4    18_47.rawmk4    20_37.rawmk4    21_18.rawmk4    22_00.rawmk4
17_59.rawmk4    18_50.rawmk4    20_40.rawmk4    21_21.rawmk4    c18_53.rawmk4
18_02.rawmk4    18_56.rawmk4    20_43.rawmk4    21_24.rawmk4    c19_00.rawmk4
18_05.rawmk4    19_03.rawmk4    20_46.rawmk4    21_27.rawmk4    c19_06.rawmk4
18_08.rawmk4    19_09.rawmk4    20_49.rawmk4    21_30.rawmk4
18_11.rawmk4    19_46.rawmk4    20_52.rawmk4    21_33.rawmk4
18_14.rawmk4    19_49.rawmk4    20_55.rawmk4    21_36.rawmk4
18_17.rawmk4    20_02.rawmk4    20_58.rawmk4    21_39.rawmk4
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