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-------------------------------------------------------------------------------
                Mauna Loa Solar Observatory Observer's Log
-------------------------------------------------------------------------------
          Sun Jun  6 16:33:01 GMT 2004
Year: 04  Doy: 158
Observer: koon
Sun Jun  6 16:40:31 GMT 2004     CHIP     Start Patrol
Sun Jun  6 16:40:44 GMT 2004     PICS     Start Patrol
Sun Jun  6 16:41:47 GMT 2004     MKIV     Start Patrol
WEATHER COMMENT: Sun Jun  6 16:33:02 GMT 2004
Clear sky, no wind, temp=50F.
ECHO COMMENT: Sun Jun  6 16:46:00 GMT 2004
Time OK.
A NEW TAPE HAS BEEN PUT INTO KAIEE DLT DRIVE, Sun Jun  6 16:59:35 GMT 2004
PSPT COMMENT: Sun Jun  6 16:59:52 GMT 2004
Observing.
Sun Jun  6 18:01:52 GMT 2004     CHIP     LSD
Sun Jun  6 18:03:39 GMT 2004     CHIP     End LSD
Sun Jun  6 18:03:52 GMT 2004     CHIP     BiasLSD
Sun Jun  6 18:04:04 GMT 2004     PICS     Flat
Sun Jun  6 18:04:51 GMT 2004     CHIP     End BiasLSD
Sun Jun  6 18:05:01 GMT 2004     CHIP     Bias
Sun Jun  6 18:05:54 GMT 2004     CHIP     End Bias
Sun Jun  6 18:06:31 GMT 2004     PICS     End Flat
MKIV COMMENT: Sun Jun  6 18:42:29 GMT 2004
Centered occulting.
Sun Jun  6 18:57:17 GMT 2004     MKIV     End Patrol
Sun Jun  6 18:57:22 GMT 2004     MKIV     Start Cal
Sun Jun  6 19:16:08 GMT 2004     MKIV     End Cal
Sun Jun  6 19:16:18 GMT 2004     MKIV     Start Patrol
COMMENT: Sun Jun  6 19:34:44 GMT 2004
Extended the dome slot.
CHIP COMMENT: Sun Jun  6 20:27:15 GMT 2004
Image was centered low, manually corrected it.
MKIV COMMENT: Sun Jun  6 21:16:32 GMT 2004
Centered occulting.
**PICS PROBLEM**: Sun Jun  6 22:21:10 GMT 2004
A few minutes ago I heard a couple of quiet pops and looked at the LED tsatus boards above the MCC in time to see a little
 smoke come out from the center
region.  I shut off the MCC switch and went outside to avoid breathing the
smoke.  Now the stink is bearable so I'll track down what happened.
Sun Jun  6 23:05:55 GMT 2004     CHIP     Start Patrol
Sun Jun  6 23:08:33 GMT 2004     PICS     Start Patrol
**PICS PROBLEM**: Sun Jun  6 23:03:18 GMT 2004
I found a burnt power component on the PICS Halle Filter Drive board, I
removed and set aside the board, then replaced it with the unused PICS
Dust Cover Drive board and relabeled it.  There is an empty slot in the
MCC Drive boards rack for a new spare board to be replaced.  Upon powerup
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and restarting the Patrol I saw the drive LEDs go on then off indicating
the filter was driven out, but later there was more quiet pops and smoke,
maybe as it tried to drive the filter back in. I turned off the MCC power
switch and will pull out this 2nd board. Then I'll check the instrument
upstairs.
Sun Jun 6 23:53:32 GMT 2004   MKIV   End Patrol
PICS PROBLEM: Sun Jun 6 23:52:04 GMT 2004
I'm going to pause the spar instruments so I can work on the PICS problem
more safely upstairs. I found that a pin had worked its way loose and fell
out of the L-shaped limit switch actuator arm for the IN position of the
Halle filter, and the adjustable actuator knob that rides on the Halle
stage has been damaged on one side - I think I can reverse that to use it,
and I think I can reuse the pin if I rough-up the end so it stays in place
better. So the Drive board kept trying to drive the stage though it was
at a physical limit jammed against the limit switch L-shaped arm. I'll
check the limit switch function too.
PICS PROBLEM: Mon Jun 7 00:24:55 GMT 2004
The knob actuator that rides with the stage is normal, it is different than
the OUT side on purpose apparently, so I don't need to repair that. But
the limit switch is crushed so I need to replace that.
PICS PROBLEM: Mon Jun 7 01:21:44 GMT 2004
I slightly flattened the end of the shaft pin that fell out of the L-shaped
actuator arm, I pressed it back into place, it won't fall out again. The
pin for the Out switch side isn't loose but I'll put a little dimple next to
it and the other pin that will tighten the end of the holes they are set in,
to be doubly sure they stay in place.
PICS PROBLEM: Mon Jun 7 02:30:12 GMT 2004
Finally finished soldering in a new limit switch, it was tight and slow.
PICS PROBLEM: Mon Jun 7 02:44:27 GMT 2004
I had to remove and replace the entire Halle filter stage assembly to fix
things, it is back in and ready to go. I need to find another spare driver
board. I put the 2 bad driver boards on the tool chest in the PSPT dome
since they stink too much to keep in the main area.
PICS PROBLEM: Mon Jun 7 03:21:38 GMT 2004
Success! The Halle filter can go in and out again, the limit switches are working.
I adjusted the L-shaped arm setscreww to actuate the switch well, there is
no need to adjust that. I tested via VCP but not with Patrol, it is getting
late and I'm worn out for now. It should work well via Patrol tomorrow.
I used the PICS O2 stage drive board for the Halle filter, we'll need to
repair the other 2 boards, they burnt out trying to drive the stage in after
it was all the way in - due to the limit switch not telling it to stop.
Mon Jun 7 03:50:19 GMT 2004
        MkIV

16_41.rawmk4   18_07.rawmk4   19_42.rawmk4   21_07.rawmk4   22_36.rawmk4
16_44.rawmk4   18_10.rawmk4   19_45.rawmk4   21_10.rawmk4   22_39.rawmk4
16_47.rawmk4   18_13.rawmk4   19_48.rawmk4   21_13.rawmk4   22_42.rawmk4
16_50.rawmk4   18_15.rawmk4   19_51.rawmk4   21_16.rawmk4   22_45.rawmk4

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16_53.rawmk4    18_18.rawmk4    19_54.rawmk4    21_19.rawmk4    22_48.rawmk4
16_56.rawmk4    18_21.rawmk4    19_57.rawmk4    21_22.rawmk4    22_51.rawmk4
16_59.rawmk4    18_24.rawmk4    20_00.rawmk4    21_25.rawmk4    22_54.rawmk4
17_02.rawmk4    18_27.rawmk4    20_03.rawmk4    21_28.rawmk4    22_57.rawmk4
17_05.rawmk4    18_30.rawmk4    20_06.rawmk4    21_31.rawmk4    23_00.rawmk4
17_08.rawmk4    18_33.rawmk4    20_09.rawmk4    21_34.rawmk4    23_03.rawmk4
17_11.rawmk4    18_36.rawmk4    20_12.rawmk4    21_37.rawmk4    23_06.rawmk4
17_14.rawmk4    18_39.rawmk4    20_15.rawmk4    21_40.rawmk4    23_09.rawmk4
17_17.rawmk4    18_42.rawmk4    20_17.rawmk4    21_43.rawmk4    23_12.rawmk4
17_20.rawmk4    18_45.rawmk4    20_20.rawmk4    21_46.rawmk4    23_15.rawmk4
17_23.rawmk4    18_48.rawmk4    20_23.rawmk4    21_48.rawmk4    23_17.rawmk4
17_25.rawmk4    18_51.rawmk4    20_26.rawmk4    21_51.rawmk4    23_20.rawmk4
17_28.rawmk4    18_54.rawmk4    20_29.rawmk4    21_54.rawmk4    23_23.rawmk4
17_31.rawmk4    19_00.rawmk4    20_32.rawmk4    21_57.rawmk4    23_26.rawmk4
17_34.rawmk4    19_06.rawmk4    20_35.rawmk4    22_00.rawmk4    23_29.rawmk4
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17_40.rawmk4    19_16.rawmk4    20_41.rawmk4    22_06.rawmk4    23_35.rawmk4
17_43.rawmk4    19_19.rawmk4    20_44.rawmk4    22_09.rawmk4    23_38.rawmk4
17_46.rawmk4    19_22.rawmk4    20_47.rawmk4    22_15.rawmk4    23_41.rawmk4
17_49.rawmk4    19_25.rawmk4    20_50.rawmk4    22_19.rawmk4    23_44.rawmk4
17_52.rawmk4    19_28.rawmk4    20_53.rawmk4    22_22.rawmk4    23_47.rawmk4
17_55.rawmk4    19_30.rawmk4    20_56.rawmk4    22_24.rawmk4    23_50.rawmk4
17_58.rawmk4    19_33.rawmk4    20_59.rawmk4    22_27.rawmk4    c18_57.rawmk4
18_01.rawmk4    19_36.rawmk4    21_01.rawmk4    22_30.rawmk4    c19_03.rawmk4
18_04.rawmk4    19_39.rawmk4    21_04.rawmk4    22_33.rawmk4    c19_09.rawmk4
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