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Mauna Loa Solar Observatory Observer's Log
   -----
       Wed Oct 6 16:36:33 GMT 2004
Year: 04 Doy: 280
Observer: yasukawa
WEATHER COMMENT: Wed Oct 6 16:37:07 GMT 2004
Clear, temp 43 F, S wind 11 mph.
  end
Wed Oct 6 16:42:30 GMT 2004
                             CHTP
                                      Start Patrol
Wed Oct 6 16:42:41 GMT 2004
                           PICS
                                      Start Patrol
**ECHO PROBLEM**: Wed Oct 6 16:47:32 GMT 2004
ECHO PC was off this morning. I couldn't power it up, initially. LEDs on
front panel lit up briefly and then wen out. Cycled Computer Power
circuit breaker and the tried again. This time PC stayed on. Restarting
ECHO program as time allows.
end
PSPT COMMENT: Wed Oct 6 16:50:38 GMT 2004
Starting up.
____end_
ECHO COMMENT: Wed Oct 6 16:58:42 GMT 2004
ECHO program restarted, GPS time set.
end
A NEW TAPE HAS BEEN PUT INTO KAIEE DLT DRIVE, Wed Oct 6 16:59:32 GMT 2004
PSPT COMMENT: Wed Oct 6 17:02:12 GMT 2004
Observing
end
MKIV COMMENT: Wed Oct 6 17:06:59 GMT 2004
Centered 01.
end
Wed Oct 6 17:07:10 GMT 2004
                             MKIV
                                     Start Patrol
MKIV COMMENT: Wed Oct 6 18:00:10 GMT 2004
Centered 01.
 end
Wed Oct 6 18:00:26 GMT 2004
                             MKIV
                                     End Patrol
Wed Oct 6 18:00:47 GMT 2004
                             CHIP
                                      LSD
Wed Oct 6 18:01:35 GMT 2004
                                      Flat
                             PICS
Wed Oct 6 18:02:32 GMT 2004
                             CHIP
                                      End LSD
Wed Oct 6 18:02:41 GMT 2004
                                      BiasLSD
                             CHIP
Wed Oct 6 18:03:35 GMT 2004
                             CHIP
                                      End BiasLSD
Wed Oct 6 18:03:43 GMT 2004
                             CHIP
                                      Bias
Wed Oct 6 18:04:01 GMT 2004
                             PICS
                                      End Flat
Wed Oct 6 18:04:09 GMT 2004
                             PICS
                                      ReStart Patrol
```

CHIP

CHIP

End Bias

ReStart Patrol

NICE MK4 IMAGE: 1804 NICE PICSLIMB IMAGE: 1805 NICE PICSDISC IMAGE: 1804

Wed Oct 6 18:04:36 GMT 2004

Wed Oct 6 18:04:48 GMT 2004

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NICE CHIP
             IMAGE: 1805
Wed Oct 6 18:20:58 GMT 2004
                               MKIV
                                       Start Patrol
**** EVENT COMMENT ****: Wed Oct 6 18:44:04 GMT 2004
CME at PA 90-120 starting at 1829 UT. CME appears associated with
an active region near the limb in that area.
  end
MKIV COMMENT: Wed Oct 6 19:02:04 GMT 2004
Centered 01.
  end
Wed Oct 6 19:57:27 GMT 2004
                               CHIP
                                        End Patrol
COMMENT: Wed Oct 6 19:57:38 GMT 2004
Stopping to reconfigure dome shutter.
end
Wed Oct 6 19:57:34 GMT 2004
                               PICS
                                        End Patrol
Wed Oct 6 20:01:10 GMT 2004
                                       End Patrol
                               MKIV
MKIV COMMENT: Wed Oct 6 20:09:46 GMT 2004
Centered 01.
end
Wed Oct 6 20:09:45 GMT 2004
                               CHIP
                                        Start Patrol
Wed Oct 6 20:09:59 GMT 2004
                               MKIV
                                       Start Patrol
Wed Oct 6 20:09:49 GMT 2004
                               PICS
                                        Start Patrol
**PSPT PROBLEM**: Wed Oct 6 20:17:27 GMT 2004
Flat-field image check yesterday indicated Red is better after ND tilt
adjustment but Cak got worse. I measured the incursions of the reflected
image on one of the images and it looks like the the decrease in tilt
from 0.1250 to 0.0890 caused the image to move approximately 110% further
into the FOV. The simple minded solution is to try changing the tilt
a bit more than the change made on Monday in the other direction from
the original tilt, i.e. change the spacer height to more than 0.1610
inches if the rotating shutter's masher screw allows it.
Stopping observations to work on making the change.
  end
PSPT COMMENT: Wed Oct 6 21:27:14 GMT 2004
Resumed observations at 2115 UT.
  end
**PSPT PROBLEM**: Wed Oct 6 21:27:47 GMT 2004
Calculated 110% change in opposite direction from original 0.1250 inch
spacing to be 0.1642 in. Tried several combinations of washers and closest
I could get to 0.1642 + was 0.1680 in. With this tilt, the masher screw on
the rotating shutter brushes against the filter when rotated slowly by hand.
The long screw was probably used because using a shorter set-screw would
make access a bit challenging with the typical L-shaped allen wrench. I
changed the screw for a shorter one that clears the filters when rotating.
Access is made easier by moving a filter to the hatch position and removing
the filter while accessing the screw with a plastic handled straight
Allen driver (9/64). These have a longer reach.
end
**PSPT PROBLEM**: Wed Oct 6 21:57:47 GMT 2004
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I just got email from Randy--they calculated a move to 0.1414. I will stop
observations and make that change as soon as I have some lunch.
  end
MKIV COMMENT: Wed Oct 6 22:02:25 GMT 2004
Centered 01.
end
**PSPT PROBLEM**: Wed Oct 6 22:11:01 GMT 2004
Running a flat-field with the CaK filter ND tilted with 0.1680 stack
to document apparent over-tilt as an FYI while taking a lunch break.
MKIV COMMENT: Wed Oct 6 22:58:08 GMT 2004
Centered 01.
 end
COMMENT: Wed Oct 6 23:00:51 GMT 2004
Spar ran into ladder. Resolved problem.
end
Wed Oct 6 23:01:39 GMT 2004
                              CHIP
                                       End Patrol
Wed Oct 6 23:02:56 GMT 2004
                              CHIP
                                       Start Patrol
CHIP COMMENT: Wed Oct 6 23:02:50 GMT 2004
Image was offset after moving ladder. Stopped patrol and checked image
position with video program. Centering was OK after guider lock.
Resumed Patrol.
end
PSPT COMMENT: Wed Oct 6 23:19:39 GMT 2004
Flatfield pau. removing CaK filter to readjust ND filter tilt.
**PICS PROBLEM**: Wed Oct 6 23:34:18 GMT 2004
Forgot to turn ADR back on. ADR is on.
WEATHER COMMENT: Thu Oct 7 00:20:20 GMT 2004
In broken orographic clouds.
end
PSPT COMMENT: Thu Oct 7 00:20:35 GMT 2004
Observing.
  end
**PSPT PROBLEM**: Thu Oct 7 00:28:21 GMT 2004
Found washer combination that gave me 0.1420 in spacing. Installed
spacer and restarted observation in clouds.
end
WEATHER COMMENT: Thu Oct 7 00:51:24 GMT 2004
In clouds, idling instruments.
 end
Thu Oct 7 00:52:02 GMT 2004
                              CHIP
                                       End Patrol
Thu Oct 7 00:52:05 GMT 2004
                              PICS End Patrol
Thu Oct 7 00:52:55 GMT 2004
                              MKIV End Patrol
Thu Oct 7 01:16:14 GMT 2004
       MkIV
```

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00_05.rawmk4	17_51.rawmk4	19_34.rawmk4	21_18.rawmk4	22_49.rawmk4
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00_11.rawmk4	17_57.rawmk4	19_40.rawmk4	21_24.rawmk4	22_55.rawmk4
00_14.rawmk4	18_04.rawmk4	19_43.rawmk4	21_27.rawmk4	22_58.rawmk4
00_17.rawmk4	18_10.rawmk4	19_46.rawmk4	21_30.rawmk4	23_01.rawmk4
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