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Mauna Loa Solar Observatory Observer's Log  
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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 CHIP 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 O1.

\_\_\_\_end\_\_\_\_

Wed Oct 6 17:07:10 GMT 2004 MKIV Start Patrol

MKIV COMMENT: Wed Oct 6 18:00:10 GMT 2004

Centered O1.

\_\_\_\_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 PICS Flat

Wed Oct 6 18:02:32 GMT 2004 CHIP End LSD

Wed Oct 6 18:02:41 GMT 2004 CHIP BiasLSD

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

Wed Oct 6 18:04:36 GMT 2004 CHIP End Bias

Wed Oct 6 18:04:48 GMT 2004 CHIP ReStart Patrol

NICE MK4 IMAGE: 1804

NICE PICSLIMB IMAGE: 1805

NICE PICSDISC IMAGE: 1804

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 O1.

\_\_\_\_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 MKIV End Patrol

MKIV COMMENT: Wed Oct 6 20:09:46 GMT 2004

Centered O1.

\_\_\_\_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 aproximately 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

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 O1.

\_\_\_\_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.

\_\_\_\_end\_\_\_\_

MKIV COMMENT: Wed Oct 6 22:58:08 GMT 2004

Centered O1.

\_\_\_\_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.

\_\_\_\_end\_\_\_\_

\*\*PICS PROBLEM\*\* : Wed Oct 6 23:34:18 GMT 2004

Forgot to turn ADR back on. ADR is on.

\_\_\_\_end\_\_\_\_

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

00_02.rawmk4	17_48.rawmk4	19_31.rawmk4	21_15.rawmk4	22_46.rawmk4
00_05.rawmk4	17_51.rawmk4	19_34.rawmk4	21_18.rawmk4	22_49.rawmk4
00_08.rawmk4	17_54.rawmk4	19_37.rawmk4	21_21.rawmk4	22_52.rawmk4
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
00_20.rawmk4	18_16.rawmk4	19_49.rawmk4	21_32.rawmk4	23_04.rawmk4
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00_29.rawmk4	18_26.rawmk4	19_57.rawmk4	21_41.rawmk4	23_12.rawmk4
00_32.rawmk4	18_29.rawmk4	20_09.rawmk4	21_44.rawmk4	23_15.rawmk4
00_35.rawmk4	18_32.rawmk4	20_12.rawmk4	21_47.rawmk4	23_18.rawmk4
00_38.rawmk4	18_35.rawmk4	20_15.rawmk4	21_50.rawmk4	23_21.rawmk4
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17_45.rawmk4	19_28.rawmk4	21_12.rawmk4	22_43.rawmk4	