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Mauna Loa Solar Observatory Observer's Log  
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Tue Jun 2 16:42:41 GMT 2009

Year: 09 Doy: 153

Observer: koon

WEATHER COMMENT: Tue Jun 2 16:42:42 GMT 2009

Clear sky, very dark blue sky for the last few days, wind=5mph from the SE,  
Temp=45F.

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

Tue Jun 2 16:47:36 GMT 2009 CHIP Start Patrol

Tue Jun 2 16:48:08 GMT 2009 PICS Start Patrol

Tue Jun 2 16:49:54 GMT 2009 MKIV Start Patrol

\*\*MKIV PROBLEM\*\*: Tue Jun 2 17:10:33 GMT 2009

Left hump decreases about 30% between barrel angle of 330 and 130, right  
hump stays the same, both humps are very low due to dark sky but also lower  
than they've ever been in the past.

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

Tue Jun 2 18:01:33 GMT 2009 PICS Flat

Tue Jun 2 18:02:37 GMT 2009 CHIP LSD

Tue Jun 2 18:04:08 GMT 2009 PICS End Flat

Tue Jun 2 18:04:17 GMT 2009 PICS ReStart Patrol

Tue Jun 2 18:04:04 GMT 2009 CHIP End LSD

Tue Jun 2 18:04:15 GMT 2009 CHIP BiasLSD

Tue Jun 2 18:05:02 GMT 2009 CHIP End BiasLSD

Tue Jun 2 18:05:10 GMT 2009 CHIP Bias

Tue Jun 2 18:05:52 GMT 2009 CHIP End Bias

Tue Jun 2 18:06:05 GMT 2009 CHIP ReStart Patrol

\*\*MKIV PROBLEM\*\*: Tue Jun 2 19:17:11 GMT 2009

Left hump only reduces by about 15-20% now. Pausing to check some things.

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

Tue Jun 2 19:17:58 GMT 2009 MKIV End Patrol

Tue Jun 2 19:21:37 GMT 2009 MKIV Start Correct

Tue Jun 2 19:23:11 GMT 2009 MKIV End Correct

\*\*MKIV PROBLEM\*\*: Tue Jun 2 19:36:27 GMT 2009

Minimum for left hump seems to be around barrel angle of 50 degrees.

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

Tue Jun 2 20:34:25 GMT 2009 MKIV Start Correct

Tue Jun 2 20:36:08 GMT 2009 MKIV End Correct

Tue Jun 2 20:36:18 GMT 2009 MKIV Start Cal

\*\*MKIV PROBLEM\*\*: Tue Jun 2 20:36:34 GMT 2009

Fixed left hump variability by turning left top screw on folding prism about  
1/8 tp 1/4 turn CCW. Checking hairlines before and after adjustment abd they  
were at 108 and 109 both times so this adjustment didn't move them, I didn't  
turn the single bottom screw that I used to adjust the hairline position  
previously. Also taped over potential light leak places like the front plate  
of the camera and a few screw holes and wire holes in the camera chamber, then  
closed and taped up that. Ran a Correct and a Calibration before continuing with Patrol.

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

Tue Jun 2 20:50:13 GMT 2009 MKIV Start Cal

\*\*MKIV PROBLEM\*\* : Tue Jun 2 20:50:26 GMT 2009

Barrel got stuck at CCW limit when tried Cal, cycled KCC power and will try again.

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

Tue Jun 2 21:08:53 GMT 2009 MKIV End Cal

Tue Jun 2 21:08:59 GMT 2009 MKIV Start Patrol

\*\*MKIV PROBLEM\*\* : Tue Jun 2 21:24:33 GMT 2009

Scans look bad, corona not visible in realtime scan (fainter than before?), adjusted images look mostly white except for near the limb, will stop and try another Correct.

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

Tue Jun 2 21:26:50 GMT 2009 MKIV End Patrol

Tue Jun 2 21:27:07 GMT 2009 MKIV Start Correct

Tue Jun 2 21:28:40 GMT 2009 MKIV End Correct

Tue Jun 2 21:29:17 GMT 2009 MKIV Start Patrol

\*\*MKIV PROBLEM\*\* : Tue Jun 2 21:37:55 GMT 2009

Corona is back again after that last Correct, I don't understand it but apparently there is something flaky related to running a Correct. Anyway, the corona is still faint.

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

Tue Jun 2 21:47:20 GMT 2009 MKIV End Patrol

Tue Jun 2 21:47:25 GMT 2009 MKIV Start Cal

MKIV COMMENT: Tue Jun 2 21:51:30 GMT 2009

I'm proceeding with Step #6 of the camera installation writeup, a Cal is running then I'll run 2 more Cals with an ND in the lightpath.

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

Tue Jun 2 22:06:05 GMT 2009 MKIV End Cal

Tue Jun 2 22:06:26 GMT 2009 MKIV Start Cal

MKIV COMMENT: Tue Jun 2 22:07:34 GMT 2009

Started the 1st Cal with the ND in place.

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

Tue Jun 2 22:15:53 GMT 2009 PICS End Patrol

Tue Jun 2 22:15:45 GMT 2009 CHIP End Patrol

NICE PICSDISC IMAGE: 1724

NICE PICSLIMB IMAGE: 1852

NICE MK4 IMAGE: 1900

Tue Jun 2 22:25:13 GMT 2009 MKIV End Cal

Tue Jun 2 22:26:09 GMT 2009 MKIV Start Cal

MKIV COMMENT: Tue Jun 2 22:26:52 GMT 2009

Running 2nd Cal with ND in place.

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

Tue Jun 2 22:45:00 GMT 2009 MKIV End Cal

COMMENT: Tue Jun 2 22:55:32 GMT 2009

2 new laptops arrived from CSMT, they work fine.

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

WEATHER COMMENT: Tue Jun 2 23:20:54 GMT 2009

Low clouds are moving in, I'll continue with step #7 of mk4 stuff tomorrow.

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

Tue Jun 2 23:32:40 GMT 2009

MkIV

16_49.rawmk4	17_39.rawmk4	18_29.rawmk4	21_05.rawmk4	22_21.rawmk4
16_52.rawmk4	17_42.rawmk4	18_32.rawmk4	21_08.rawmk4	22_29.rawmk4
16_55.rawmk4	17_45.rawmk4	18_35.rawmk4	21_11.rawmk4	22_35.rawmk4
16_58.rawmk4	17_48.rawmk4	18_38.rawmk4	21_14.rawmk4	22_41.rawmk4
17_01.rawmk4	17_51.rawmk4	18_44.rawmk4	21_17.rawmk4	c20_50.rawmk4
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17_16.rawmk4	18_06.rawmk4	19_00.rawmk4	21_38.rawmk4	c21_59.rawmk4
17_19.rawmk4	18_09.rawmk4	19_03.rawmk4	21_41.rawmk4	c22_06.rawmk4
17_22.rawmk4	18_12.rawmk4	19_05.rawmk4	21_44.rawmk4	c22_12.rawmk4
17_25.rawmk4	18_15.rawmk4	19_08.rawmk4	21_50.rawmk4	c22_18.rawmk4
17_28.rawmk4	18_18.rawmk4	19_11.rawmk4	21_56.rawmk4	c22_26.rawmk4
17_31.rawmk4	18_21.rawmk4	19_14.rawmk4	22_02.rawmk4	c22_32.rawmk4
17_34.rawmk4	18_24.rawmk4	20_53.rawmk4	22_09.rawmk4	c22_38.rawmk4
17_37.rawmk4	18_26.rawmk4	20_59.rawmk4	22_15.rawmk4	