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Mauna Loa Solar Observatory Observer's Log  
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Sun Sep 18 17:21:16 GMT 2011

Year: 11 Doy: 261

Observer: koon

WEATHER COMMENT: Sun Sep 18 17:21:44 GMT 2011

Clear sky, wind=20 mph from the SSE, temp=50F.

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

Sun Sep 18 17:30:51 GMT 2011 MKIV Start Patrol

Sun Sep 18 17:31:00 GMT 2011 H-ALPHA Start Patrol

Sun Sep 18 17:31:25 GMT 2011 CHIP Start Patrol

Sun Sep 18 17:43:24 GMT 2011: PSPT Start Patrol

Sun Sep 18 17:52:19 GMT 2011 COMP Start Patrol

\*\*COMP PROBLEM COMMENT BY DARRYL\*\*:  
Sun Sep 18 17:37:17 GMT 2011

The focus curve since Friday today doesn't show a nice bell curve, the curve is high at the left and then turns into the right half of the normal focus curve around 81,000 (normal value). tried cycling power to Newport Motion Controller w/o any change, multiple focus runs don't change anything. Will run it for a while then stop and test focus again.

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

Sun Sep 18 17:59:27 GMT 2011 COMP End Patrol

Sun Sep 18 18:01:44 GMT 2011 CHIP LSD

Sun Sep 18 18:03:13 GMT 2011 CHIP End LSD

Sun Sep 18 18:03:26 GMT 2011 CHIP BiasLSD

Sun Sep 18 18:04:23 GMT 2011 CHIP End BiasLSD

Sun Sep 18 18:04:32 GMT 2011 CHIP Bias

Sun Sep 18 18:05:17 GMT 2011 CHIP End Bias

Sun Sep 18 18:05:30 GMT 2011 CHIP ReStart Patrol

Sun Sep 18 18:06:31 GMT 2011 MKIV End Patrol

Sun Sep 18 18:06:36 GMT 2011 MKIV Start Cal

Sun Sep 18 18:22:21 GMT 2011 COMP Start Patrol

\*\*COMP PROBLEM COMMENT BY DARRYL\*\*:  
Sun Sep 18 18:22:12 GMT 2011

Stopped cookbook tried focus, still weird looking, stopped program, closed COMP observing program and brought it up again, still only have high plateau on left side of curve and right side looks good. Will run cookbook I set the focus at 81000 which looks normal, will keep investigating after one Cookbook cycle.

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

Sun Sep 18 18:25:56 GMT 2011 MKIV End Cal

Sun Sep 18 18:26:06 GMT 2011 MKIV Start Patrol

Sun Sep 18 21:13:34 GMT 2011 COMP End Patrol

Sun Sep 18 21:13:37 GMT 2011 COMP Start Patrol

Sun Sep 18 21:19:49 GMT 2011 COMP End Patrol

\*\*COMP PROBLEM COMMENT BY DARRYL\*\*:  
Sun Sep 18 22:28:55 GMT 2011

Paused obs while I fixed the focus problem. I watched the focus mechanism run while doing a Focus routine, I could see the micrometer drive rod leave the reference stop during part of the routine. I set the Focus position at the

lower end of the normal graph (~75000) using the Occulting routine input field, then I went back to CoMP upstairs to see the gap I wanted to eliminate. The focusing mechanism wasn't springing all the way up to the fixed push point reference because it was bumping into the filter. The filter stage has 2 set screws that seemed too loose, so I think the filter slipped a little over time. The back end of the filter stage was aligned with the 80 cm mark on the optical rail, but I could see a pencil mark around the 79.85 mark so I moved the filter forward to that position (about 1.5 mm toward O1) and tightened those 2 setscrews on the optical rail. That gave a little more travel than I needed so I think it is set very well for normal focus range. I tested the focus routine and the curve looks great, back to obs.

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

Sun Sep 18 22:45:17 GMT 2011 COMP Start Patrol  
Sun Sep 18 23:02:44 GMT 2011 CHIP LSD  
Sun Sep 18 23:04:14 GMT 2011 CHIP End LSD  
Sun Sep 18 23:04:23 GMT 2011 CHIP BiasLSD  
Sun Sep 18 23:05:11 GMT 2011 CHIP End BiasLSD  
Sun Sep 18 23:05:24 GMT 2011 CHIP Bias  
Sun Sep 18 23:06:07 GMT 2011 CHIP End Bias  
Sun Sep 18 23:06:19 GMT 2011 CHIP ReStart Patrol

NOTE BY DARRYL: Sun Sep 18 23:08:34 GMT 2011

Lost dome tracking, repointed dome.

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

Mon Sep 19 01:33:34 GMT 2011 COMP End Patrol  
Mon Sep 19 01:33:37 GMT 2011 COMP Start Patrol  
Mon Sep 19 01:58:46 GMT 2011: PSPT Abort Patrol  
Mon Sep 19 01:59:37 GMT 2011 CHIP End Patrol  
Mon Sep 19 02:00:21 GMT 2011 COMP End Patrol  
Mon Sep 19 02:00:50 GMT 2011 MKIV End Patrol  
Mon Sep 19 02:00:52 GMT 2011 H-ALPHA End Patrol  
Mon Sep 19 02:20:06 GMT 2011

MkIV

00_02.rawmk4	01_45.rawmk4	19_11.rawmk4	20_50.rawmk4	22_30.rawmk4
00_04.rawmk4	01_48.rawmk4	19_14.rawmk4	20_53.rawmk4	22_33.rawmk4
00_07.rawmk4	01_51.rawmk4	19_16.rawmk4	20_56.rawmk4	22_36.rawmk4
00_10.rawmk4	01_54.rawmk4	19_19.rawmk4	20_59.rawmk4	22_39.rawmk4
00_13.rawmk4	01_57.rawmk4	19_22.rawmk4	21_02.rawmk4	22_42.rawmk4
00_16.rawmk4	17_30.rawmk4	19_25.rawmk4	21_05.rawmk4	22_45.rawmk4
00_19.rawmk4	17_33.rawmk4	19_28.rawmk4	21_08.rawmk4	22_48.rawmk4
00_22.rawmk4	17_36.rawmk4	19_31.rawmk4	21_11.rawmk4	22_51.rawmk4
00_25.rawmk4	17_39.rawmk4	19_34.rawmk4	21_14.rawmk4	22_54.rawmk4
00_28.rawmk4	17_42.rawmk4	19_37.rawmk4	21_17.rawmk4	22_57.rawmk4
00_31.rawmk4	17_45.rawmk4	19_40.rawmk4	21_20.rawmk4	23_00.rawmk4
00_34.rawmk4	17_48.rawmk4	19_43.rawmk4	21_23.rawmk4	23_03.rawmk4
00_37.rawmk4	17_51.rawmk4	19_46.rawmk4	21_26.rawmk4	23_06.rawmk4
00_40.rawmk4	17_54.rawmk4	19_49.rawmk4	21_29.rawmk4	23_09.rawmk4
00_43.rawmk4	17_57.rawmk4	19_52.rawmk4	21_32.rawmk4	23_12.rawmk4

00_46.rawmk4	18_00.rawmk4	19_55.rawmk4	21_35.rawmk4	23_15.rawmk4
00_49.rawmk4	18_03.rawmk4	19_58.rawmk4	21_38.rawmk4	23_17.rawmk4
00_51.rawmk4	18_09.rawmk4	20_01.rawmk4	21_40.rawmk4	23_20.rawmk4
00_54.rawmk4	18_15.rawmk4	20_04.rawmk4	21_43.rawmk4	23_23.rawmk4
00_57.rawmk4	18_21.rawmk4	20_06.rawmk4	21_46.rawmk4	23_26.rawmk4
01_00.rawmk4	18_26.rawmk4	20_09.rawmk4	21_49.rawmk4	23_29.rawmk4
01_03.rawmk4	18_29.rawmk4	20_12.rawmk4	21_52.rawmk4	23_32.rawmk4
01_06.rawmk4	18_32.rawmk4	20_15.rawmk4	21_55.rawmk4	23_35.rawmk4
01_09.rawmk4	18_35.rawmk4	20_18.rawmk4	21_58.rawmk4	23_38.rawmk4
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01_15.rawmk4	18_40.rawmk4	20_24.rawmk4	22_04.rawmk4	23_44.rawmk4
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01_21.rawmk4	18_46.rawmk4	20_30.rawmk4	22_10.rawmk4	23_50.rawmk4
01_24.rawmk4	18_49.rawmk4	20_33.rawmk4	22_13.rawmk4	23_53.rawmk4
01_27.rawmk4	18_52.rawmk4	20_36.rawmk4	22_16.rawmk4	23_56.rawmk4
01_33.rawmk4	18_58.rawmk4	20_39.rawmk4	22_19.rawmk4	23_59.rawmk4
01_36.rawmk4	19_02.rawmk4	20_42.rawmk4	22_22.rawmk4	c18_06.rawmk4
01_39.rawmk4	19_05.rawmk4	20_45.rawmk4	22_25.rawmk4	c18_12.rawmk4
01_42.rawmk4	19_08.rawmk4	20_48.rawmk4	22_27.rawmk4	c18_18.rawmk4