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Mauna Loa Solar Observatory Observer's Log  
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Wed Mar 30 17:04:27 GMT 2011

Year: 11 Doy: 089

Observer: koon

WEATHER COMMENT: Wed Mar 30 17:04:28 GMT 2011

Clear sky, wind=13mph from the SE, temp=38F.

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

Wed Mar 30 17:10:12 GMT 2011 MKIV Start Patrol

Wed Mar 30 17:12:00 GMT 2011 H-ALPHA Start Patrol

Wed Mar 30 17:12:04 GMT 2011: PSPT Start Patrol

Wed Mar 30 17:15:01 GMT 2011 COMP Start Patrol

Wed Mar 30 17:14:58 GMT 2011 CHIP Start Patrol

Wed Mar 30 17:22:15 GMT 2011 H-ALPHA End Patrol

\*\*H-ALPHA PROBLEM COMMENT BY DARRYL\*\*:  
Wed Mar 30 17:31:26 GMT 2011

This isn't pointed at sun, will repoint.

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

Wed Mar 30 17:50:47 GMT 2011 H-ALPHA Start Patrol

Wed Mar 30 18:00:45 GMT 2011 CHIP LSD

Wed Mar 30 18:02:13 GMT 2011 CHIP End LSD

Wed Mar 30 18:02:22 GMT 2011 CHIP BiasLSD

Wed Mar 30 18:02:59 GMT 2011 CHIP End BiasLSD

Wed Mar 30 18:03:18 GMT 2011 CHIP Bias

Wed Mar 30 18:03:29 GMT 2011 H-ALPHA Start Patrol

Wed Mar 30 18:04:00 GMT 2011 CHIP End Bias

Wed Mar 30 18:04:11 GMT 2011 CHIP ReStart Patrol

Wed Mar 30 18:06:40 GMT 2011 H-ALPHA Start Patrol

H-ALPHA COMMENT BY BEN: Wed Mar 30 18:13:55 GMT 2011

Repointed H-alpha telescope at the sun and realigned the interference filter

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

Wed Mar 30 18:24:30 GMT 2011: PSPT Start Patrol

H-ALPHA COMMENT BY BEN: Wed Mar 30 18:43:52 GMT 2011

Disk images look to saturate and get tagged at limb images starting at 18:38 changed disk integration time to 150, instead of 180microsecs

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

H-ALPHA COMMENT BY BEN: Wed Mar 30 18:45:05 GMT 2011

Before integration time change realtime processing was making disk images pure white, no orange/black disk and no blue background. After integration time change images look GREAT!

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

NOTE BY BEN: Wed Mar 30 18:53:32 GMT 2011

H-alpha going done to 130 because a few white images snuck through

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

H-ALPHA COMMENT BY BEN: Wed Mar 30 19:05:03 GMT 2011

Back to 150 integration time

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

Wed Mar 30 19:08:18 GMT 2011 MKIV End Patrol

Wed Mar 30 19:08:29 GMT 2011 MKIV Start Cal

Wed Mar 30 19:18:34 GMT 2011: PSPT Start Patrol  
Wed Mar 30 19:27:23 GMT 2011 MKIV End Cal  
Wed Mar 30 19:27:39 GMT 2011 MKIV Start Patrol  
Wed Mar 30 20:02:02 GMT 2011 COMP End Patrol  
Wed Mar 30 20:02:32 GMT 2011 COMP Start Patrol  
NOTE BY DARRYL: Wed Mar 30 20:50:53 GMT 2011  
Adjusted dome slot opening.

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

Wed Mar 30 21:10:17 GMT 2011 COMP End Patrol  
Wed Mar 30 21:13:43 GMT 2011 COMP Start Patrol  
Wed Mar 30 21:47:12 GMT 2011: PSPT Start Patrol  
Wed Mar 30 22:07:48 GMT 2011 COMP End Patrol  
Wed Mar 30 22:07:34 GMT 2011 CHIP End Patrol  
NOTE BY BEN: Wed Mar 30 22:07:18 GMT 2011

Clouds starting to move in, idleing everying to check Chip optics before the clouds get too close  
\_\_\_end\_\_\_

Wed Mar 30 22:08:45 GMT 2011 H-ALPHA End Patrol  
Wed Mar 30 22:12:49 GMT 2011 MKIV End Patrol  
Wed Mar 30 22:32:46 GMT 2011 CHIP Start Patrol  
Wed Mar 30 22:39:45 GMT 2011 CHIP End Patrol  
Thu Mar 31 01:52:35 GMT 2011 CHIP Start Patrol  
Thu Mar 31 01:53:30 GMT 2011 H-ALPHA Start Patrol  
Thu Mar 31 01:55:14 GMT 2011: PSPT Abort Patrol  
Thu Mar 31 01:55:58 GMT 2011 CHIP Start Patrol  
\*\*CHIP PROBLEM COMMENT BY BEN\*\* : Thu Mar 31 01:58:29 GMT 2011  
After 1:40UT Chip images are running with tilted lyot filter

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

Thu Mar 31 02:03:54 GMT 2011 CHIP End Patrol  
Thu Mar 31 02:19:15 GMT 2011 H-ALPHA End Patrol  
\*\*CHIP PROBLEM COMMENT BY DARRYL\*\* : Thu Mar 31 02:11:49 GMT 2011  
We checked out the CHIP today. Tilting the O1 and prefilter had no effect on the bad artifacts, translating the O1 and moving the Lyot filter to touch the camera and taping around the filter to camera interface didn't change anything. Tilting the Lyot filter towards the East moving the artifacts about 1/6 solar diameter to the East, that had the best results. It appears that the camera aperture doesn't match the height from the plate of the Lyot filter aperture. The camera (and now the Lyot filter) are tilted slightly to the East. The O1 is at least 0.25" North of center to get the image centered in the camera. We left the Lyot filter tilted, you can see the change in artifact position. Moving the Lyot filter away from the camera moved the artifacts back towards the West and enlarged them and made them slightly fainter. Enough for today, we'll think about it and try more things later.

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

Thu Mar 31 02:25:51 GMT 2011  
MkIV

17\_10.rawmk4 18\_12.rawmk4 19\_23.rawmk4 20\_26.rawmk4 21\_28.rawmk4

17_13.rawmk4	18_15.rawmk4	19_27.rawmk4	20_29.rawmk4	21_31.rawmk4
17_16.rawmk4	18_17.rawmk4	19_30.rawmk4	20_32.rawmk4	21_34.rawmk4
17_19.rawmk4	18_20.rawmk4	19_33.rawmk4	20_35.rawmk4	21_37.rawmk4
17_22.rawmk4	18_23.rawmk4	19_36.rawmk4	20_38.rawmk4	21_40.rawmk4
17_25.rawmk4	18_26.rawmk4	19_39.rawmk4	20_41.rawmk4	21_43.rawmk4
17_27.rawmk4	18_29.rawmk4	19_42.rawmk4	20_44.rawmk4	21_45.rawmk4
17_30.rawmk4	18_32.rawmk4	19_45.rawmk4	20_47.rawmk4	21_48.rawmk4
17_33.rawmk4	18_35.rawmk4	19_48.rawmk4	20_49.rawmk4	21_51.rawmk4
17_36.rawmk4	18_38.rawmk4	19_51.rawmk4	20_52.rawmk4	21_54.rawmk4
17_39.rawmk4	18_41.rawmk4	19_54.rawmk4	20_55.rawmk4	21_57.rawmk4
17_42.rawmk4	18_44.rawmk4	19_57.rawmk4	20_58.rawmk4	22_00.rawmk4
17_45.rawmk4	18_47.rawmk4	19_59.rawmk4	21_01.rawmk4	22_03.rawmk4
17_48.rawmk4	18_50.rawmk4	20_02.rawmk4	21_04.rawmk4	22_06.rawmk4
17_51.rawmk4	18_53.rawmk4	20_05.rawmk4	21_07.rawmk4	22_09.rawmk4
17_54.rawmk4	18_56.rawmk4	20_08.rawmk4	21_10.rawmk4	c19_08.rawmk4
17_57.rawmk4	18_59.rawmk4	20_11.rawmk4	21_13.rawmk4	c19_14.rawmk4
18_00.rawmk4	19_02.rawmk4	20_14.rawmk4	21_16.rawmk4	c19_20.rawmk4
18_03.rawmk4	19_05.rawmk4	20_17.rawmk4	21_19.rawmk4	
18_06.rawmk4	19_11.rawmk4	20_20.rawmk4	21_22.rawmk4	
18_09.rawmk4	19_17.rawmk4	20_23.rawmk4	21_25.rawmk4	