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Mauna Loa Solar Observatory Observer's Log  
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Fri Aug 5 16:23:25 GMT 2005

Year: 05 Doy: 217

Observer: yasukawa

WEATHER COMMENT: Fri Aug 5 16:24:39 GMT 2005

Clear, SE wind 6 mph, temp 46 F.

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

ECHO COMMENT: Fri Aug 5 16:25:50 GMT 2005

Time OK.

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

A NEW PSPT EXABYTE IS LOADED ON KENOBI Fri Aug 5 16:26:03 GMT 2005

Fri Aug 5 16:29:48 GMT 2005 CHIP Start Patrol

Fri Aug 5 16:30:03 GMT 2005 PICS Start Patrol

PSPT COMMENT: Fri Aug 5 16:37:14 GMT 2005

Starting up.

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

PSPT COMMENT: Fri Aug 5 16:49:21 GMT 2005

Observing.

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

Fri Aug 5 16:54:57 GMT 2005 MKIV Start Patrol  
Fri Aug 5 18:00:04 GMT 2005 MKIV End Patrol  
Fri Aug 5 18:00:15 GMT 2005 MKIV Start Cal  
Fri Aug 5 18:01:21 GMT 2005 PICS Flat  
Fri Aug 5 18:02:40 GMT 2005 CHIP LSD  
Fri Aug 5 18:03:38 GMT 2005 PICS End Flat  
Fri Aug 5 18:03:46 GMT 2005 PICS ReStart Patrol  
Fri Aug 5 18:04:34 GMT 2005 CHIP End LSD  
Fri Aug 5 18:04:45 GMT 2005 CHIP BiasLSD  
Fri Aug 5 18:05:43 GMT 2005 CHIP End BiasLSD  
Fri Aug 5 18:05:52 GMT 2005 CHIP Bias  
Fri Aug 5 18:06:46 GMT 2005 CHIP End Bias  
Fri Aug 5 18:06:54 GMT 2005 CHIP ReStart Patrol  
Fri Aug 5 18:19:07 GMT 2005 MKIV End Cal  
Fri Aug 5 18:19:14 GMT 2005 MKIV Start Patrol

NICE MK4 IMAGE: 1803

NICE CHIP IMAGE: 1802

NICE PICSLIMB IMAGE: 1804

NICE PICSDISC IMAGE: 1804

Fri Aug 5 19:29:24 GMT 2005 CHIP End Patrol

Fri Aug 5 19:29:39 GMT 2005 PICS End Patrol

COMMENT: Fri Aug 5 19:29:48 GMT 2005

Reconfiguring dome shutter.

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

Fri Aug 5 19:35:18 GMT 2005 CHIP Start Patrol

Fri Aug 5 19:35:29 GMT 2005 PICS Start Patrol

Fri Aug 5 19:35:50 GMT 2005 MKIV Start Patrol

**\*\*MKIV PROBLEM\*\***: Fri Aug 5 21:46:32 GMT 2005  
Console froze up, xanims on nahenahe display not updating.  
Stopping mk4 and restarting program.

\_\_\_\_end\_\_\_\_  
Fri Aug 5 21:55:36 GMT 2005  
MkIV

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Mauna Loa Solar Observatory Observer's Log  
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Fri Aug 5 21:56:33 GMT 2005

Year: 05 Doy: 217

Observer: yasukawa

Fri Aug 5 21:59:38 GMT 2005 MKIV Start Patrol

**\*\*PSPT PROBLEM\*\***: Fri Aug 5 23:17:59 GMT 2005

Images were very vignetted around noon. Suspected shutter. Removed shutter and tested manually with controller. Operation appeared OK. Swapped in a spare to test.

Recentering image. Offpointed spar while removing shutter.

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

**\*\*PSPT PROBLEM\*\***: Fri Aug 5 23:54:11 GMT 2005

Spare shutter images were the same vignetted images as the originals. Replaced the original shutter into pspt and restarted observation.

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

**\*\*GONG PROBLEM\*\***: Fri Aug 5 23:55:36 GMT 2005

Going down to GONG to do a requested Master DAS board swap and testing.

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

**\*\*GONG PROBLEM\*\***: Sat Aug 6 00:32:48 GMT 2005

Back from GONG.

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

Sat Aug 6 01:18:20 GMT 2005 CHIP End Patrol

Sat Aug 6 01:18:43 GMT 2005 PICS End Patrol

COMMENT: Sat Aug 6 01:19:23 GMT 2005

Reconfiguring dome shutter.

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

Sat Aug 6 01:20:26 GMT 2005 MKIV End Patrol

Sat Aug 6 01:26:47 GMT 2005 MKIV Start Patrol

Sat Aug 6 01:27:01 GMT 2005 CHIP Start Patrol

Sat Aug 6 01:27:13 GMT 2005 PICS Start Patrol

**\*\*PSPT PROBLEM\*\***: Sat Aug 6 01:27:10 GMT 2005

PSPT vignetting problem symptoms fixed. Shut down, exited, rebooted PC, restarted Pspt, restarted observations. Looks like some value somewhere in the program got cumulatively worse from around noon, be it the ephemeris value or an offset that affected guiding, some optical element's position was changing causing it to vignette the image, or a combination of the two. I am not sure whether the vignetting was causing poor centering and introducing offset errors to the guiding or the guiding errors were causing the vignetting.

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

Sat Aug 6 02:28:30 GMT 2005 MKIV End Patrol  
Sat Aug 6 02:29:09 GMT 2005 CHIP End Patrol  
Sat Aug 6 02:29:14 GMT 2005 PICS End Patrol  
Sat Aug 6 02:34:44 GMT 2005

MkIV

00_02.rawmk4	02_02.rawmk4	18_25.rawmk4	20_11.rawmk4	22_12.rawmk4
00_05.rawmk4	02_05.rawmk4	18_28.rawmk4	20_14.rawmk4	22_16.rawmk4
00_11.rawmk4	02_08.rawmk4	18_31.rawmk4	20_16.rawmk4	22_19.rawmk4
00_14.rawmk4	02_11.rawmk4	18_33.rawmk4	20_19.rawmk4	22_22.rawmk4
00_17.rawmk4	02_14.rawmk4	18_36.rawmk4	20_22.rawmk4	22_25.rawmk4
00_20.rawmk4	02_18.rawmk4	18_39.rawmk4	20_25.rawmk4	22_28.rawmk4
00_23.rawmk4	02_24.rawmk4	18_42.rawmk4	20_28.rawmk4	22_31.rawmk4
00_27.rawmk4	16_54.rawmk4	18_45.rawmk4	20_31.rawmk4	22_34.rawmk4
00_30.rawmk4	16_58.rawmk4	18_48.rawmk4	20_34.rawmk4	22_40.rawmk4
00_33.rawmk4	17_00.rawmk4	18_51.rawmk4	20_37.rawmk4	22_44.rawmk4
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01_56.rawmk4	18_19.rawmk4	20_05.rawmk4	22_03.rawmk4	c18_06.rawmk4
01_59.rawmk4	18_22.rawmk4	20_08.rawmk4	22_06.rawmk4	c18_12.rawmk4