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Mauna Loa Solar Observatory Observer's Log  
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Mon Jun 8 16:20:53 GMT 2015

Year: 15 Doy: 159

Observer: berkey

WEATHER COMMENT: berkey: Mon Jun 08 16:22:08 GMT 2015

Temp: 42.9f, Humidity: 11%, Pressure: 28.686in, Wind: 7mph from South, Skies: clear with a weak inversion around 9,000ft roads were icy.

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

Mon Jun 08 16:33:42 GMT 2015 COMP Start Patrol

PSPT COMMENT BY berkey: Mon Jun 08 16:36:23 GMT 2015

fixed time on PSPT sun machine it was 2 minutes slow.

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

Mon Jun 08 16:48:27 GMT 2015 KCOR Start Synoptic Patrol

Mon Jun 08 17:34:32 GMT 2015 KCOR End Patrol

KCOR COMMENT BY berkey: Mon Jun 08 17:35:39 GMT 2015

Kcor may have been started up incorrectly. Corona looks fuzzy today and slightly washed out. Both O1 and cameras were focused this morning. But I see that the O1 is at 132mm where I expect it to be more like 136. Re-doing O1 focus.

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

Mon Jun 08 17:45:18 GMT 2015 KCOR Start Synoptic Patrol

KCOR COMMENT BY berkey: Mon Jun 08 17:48:57 GMT 2015

Re-running focus. The O1 moved 5mm from 132 to 137 and the cameras moved from about 1mm to near zero.

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

GENERAL COMMENT BY berkey: Mon Jun 08 17:54:11 GMT 2015

Turning off the xanim display for the diff images.

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

PSPT COMMENT BY waters: Mon Jun 8 17:50:17 GMT 2015

Pspt was having trouble staying on the Sun again. Ben and I ended up doing a gdr ephm calibration. So far it seems to be doing much better now. We'll see what happens.

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

KCOR COMMENT BY berkey: Mon Jun 08 17:57:45 GMT 2015

The quick look images seem to show more detail after refocusing. The normalized images don't look to have much change.

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

Mon Jun 08 19:02:22 GMT 2015 KCOR End Patrol

Mon Jun 08 19:02:23 GMT 2015 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20150323.ini

Mon Jun 08 19:19:45 GMT 2015 KCOR End Calibration Script

Mon Jun 08 19:20:01 GMT 2015 KCOR Start Synoptic Patrol

Mon Jun 08 19:20:02 GMT 2015 KCOR Start Synoptic Patrol

Mon Jun 08 19:20:37 GMT 2015 KCOR End Patrol

Mon Jun 08 19:20:38 GMT 2015 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20150323.ini

KCOR COMMENT BY waters: Mon Jun 8 19:15:00 GMT 2015

For some reason, there was an error in the RA/Dec and it triggered the lens to close during calibration. Restarting the calibrations.

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

Mon Jun 08 19:37:50 GMT 2015 KCOR End Calibration Script

Mon Jun 08 19:38:07 GMT 2015 KCOR Start Synoptic Patrol

Mon Jun 08 19:38:07 GMT 2015 KCOR Start Synoptic Patrol

GENERAL COMMENT BY berkey: Mon Jun 08 19:38:33 GMT 2015  
boom boom, boom boom. They are playing war down in they valley.

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

KCOR COMMENT BY berkey: Mon Jun 08 20:09:00 GMT 2015

Looks like we are seeing a dust speck about 3/4 of solar diameter away from the limb toward the SW.

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

Mon Jun 08 20:28:17 GMT 2015 KCOR End Patrol

Mon Jun 08 20:28:19 GMT 2015 COMP End Patrol

GENERAL COMMENT BY berkey: Mon Jun 08 20:57:32 GMT 2015

moved the shutter down.

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

KCOR COMMENT BY berkey: Mon Jun 08 20:59:45 GMT 2015

Removed the field lens/occultor assembly and loosened the bolts that hold the field lens onto the o-rings. Dennis was thinking we were getting some bi-birefringence due to stress on the optic by squeezing the o-ring to tight.

While the assembly was out of the telescope, dust was blown off the lens.

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

Mon Jun 08 21:00:24 GMT 2015 COMP Start Patrol

Mon Jun 08 21:05:18 GMT 2015 KCOR Start Synoptic Patrol

GENERAL OBSERVATORY COMMENT BY waters: Mon Jun 8 22:45:31 GMT 2015

While Ben had the field lens/occultor assembly removed, I vacuumed the inside area of where it sits. There were little bits of metal shavings that within it that had to be removed.

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

KCOR COMMENT BY berkey: Mon Jun 08 23:56:32 GMT 2015

Pausing kcor observing for a flat field test w/"perfect" lookup tables

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

Mon Jun 08 23:56:40 GMT 2015 KCOR End Patrol

GENERAL COMMENT BY berkey: Tue Jun 09 00:42:24 GMT 2015

Taking flat data

1 msec 00:00:39 -> 00:01:57 flat data  
.1 msec 00:03:43 -> 00:04:01 flat data  
.2 msec 00:05:24 -> 00:06:42 9e9 9.18e9  
.3 msec 00:07:23 -> 00:09:03 1.05e10 1.04e10  
.4 msec 00:09:53 -> 00:11:26 1.18e10 1.16e10  
.5 msec 00:12:18 -> 00:13:51 1.31e10 1.28e10  
.6 msec 00:14:40 -> 00:16:13 1.44e10 1.40e10  
.7 msec 00:17:16 -> 00:18:49 1.53e10 1.47e10  
.8 msec 00:19:44 -> 00:21:32 1.59e10 1.55e10  
.9 msec 00:22:21 -> 00:23:54 1.73e10 1.68e10  
1 msec 00:24:57 -> 00:26:14 1.87e10 1.82e10  
1.5 msec 00:27:01 -> 00:28:35 2.52e10 2.45e10  
2 msec 00:29:24 -> 00:30:57 3.13e10 3.05e10  
2.5 msec 00:31:40 -> 00:33:13 3.71e10 3.62e10  
3 msec 00:37:57 -> 00:35:15 4.27e10 4.18e10  
3.5 msec 00:35:58 -> 00:37:16 4.83e10 4.73e10  
4 msec 00:37:59 -> 00:38:46 5.21e10 5.20e10  
Clouds may be in the beam in the beam for the last couple 39:01-39:32  
1 msec 00:40:30 -> 00:42:03 1.86e10 1.81e10

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

Tue Jun 09 00:49:18 GMT 2015 COMP End Patrol

Tue Jun 09 00:51:28 GMT 2015 COMP Start Patrol

Tue Jun 09 00:55:05 GMT 2015 KCOR Start Synoptic Patrol

PSPT COMMENT BY waters: Tue Jun 9 01:34:17 GMT 2015

Pspt crashed. When we restarted it, the cluthc had slipped and couldn't find the Sun. Then once we had it back in park and tried to restart, it couldn't move past a certain point due to some cabling restraining it and pulling on the other cable . Rearranged cables and set it on the Sun. Tired to do a daily Ops but it got hung up on centering again. Currently trouble shooting.

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

Tue Jun 09 02:21:19 GMT 2015 COMP End Patrol

Tue Jun 09 02:21:28 GMT 2015 KCOR End Patrol