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Mauna Loa Solar Observatory Observer's Log  
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Fri May 15 16:29:45 GMT 2015

Year: 15 Doy: 135

Observer: berkey

WEATHER COMMENT: berkey: Fri May 15 16:30:38 GMT 2015

Temp: 36.6f, Humidity: 39%, Pressure: 28.779in, Wind: 6mph from the east, Skies: Clear

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

Fri May 15 16:38:00 GMT 2015 COMP Start Patrol

Fri May 15 17:03:27 GMT 2015 KCOR Start Synoptic Patrol

Fri May 15 17:29:27 GMT 2015 KCOR End Patrol

Fri May 15 17:29:27 GMT 2015 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20150323.ini

Fri May 15 17:46:39 GMT 2015 KCOR End Calibration Script

Fri May 15 17:46:56 GMT 2015 KCOR Start Synoptic Patrol

Fri May 15 17:46:56 GMT 2015 KCOR Start Synoptic Patrol

PSPT COMMENT BY berkey: Fri May 15 19:59:40 GMT 2015

Looks like the problem was related a bad connection on CCD\_TRIG wire Ping J64-13/J64-12. As far as I could tell the ground pin J64-13 was never connected inside the optics box. And was spliced into the JP64-8 inside the connector. To solve this I moved the CCD\_Trig wire over to the JP64-8 slot. When I initially tore into the JP65 connector it seemed like JP64-8 was cut and taped over. (This is a ground to the Optical limit switches on the RA drive. Which is X out in a diagram we have on the mountain). With the GND to the optical switch disconnected we have can run the camera and the mount goes to the right place. It MAY be working again :)

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

Fri May 15 20:32:24 GMT 2015 COMP End Patrol

Fri May 15 20:32:25 GMT 2015 COMP Start Patrol

Fri May 15 20:39:09 GMT 2015 KCOR End Patrol

Fri May 15 20:39:14 GMT 2015 COMP End Patrol

Fri May 15 21:09:07 GMT 2015 COMP Start Patrol

Fri May 15 21:19:03 GMT 2015 KCOR Start Synoptic Patrol

GENERAL COMMENT BY berkey: Fri May 15 21:43:24 GMT 2015

Move bottom shutter down around 20:40UT.

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

Fri May 15 22:33:20 GMT 2015 KCOR End Patrol

Fri May 15 22:33:34 GMT 2015 CoMP Paused for clouds

GENERAL COMMENT BY berkey: Fri May 15 22:33:54 GMT 2015

Cirrus patches are leading to high sky brightness. And orthographic clouds are starting to collect just north and west of the observatory.

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

Fri May 15 22:37:57 GMT 2015 CoMP Restarted from pause

Fri May 15 22:38:05 GMT 2015 KCOR Start Synoptic Patrol

Fri May 15 22:44:34 GMT 2015 KCOR End Patrol

Fri May 15 22:50:12 GMT 2015 CoMP Paused for clouds

Fri May 15 23:32:42 GMT 2015 CoMP Restarted from pause

Fri May 15 23:35:53 GMT 2015 CoMP Paused for clouds

Fri May 15 23:56:07 GMT 2015 CoMP Restarted from pause

Fri May 15 23:56:08 GMT 2015 COMP End Patrol

GENERAL COMMENT BY berkey: Fri May 15 23:58:52 GMT 2015

Closed main dome due to fog about 1/2 mile west of the observatory.

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

\*\*GENERAL PROBLEM COMMENT BY berkey\*\* : Fri May 15 23:59:54 GMT 2015

Winds are also picking up now about 15mph and some shaking of the building.

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

Sat May 16 00:57:27 GMT 2015 COMP Start Patrol

Sat May 16 01:01:20 GMT 2015 KCOR Start Synoptic Patrol

\*\*\*\*EVENT COMMENT BY berkey\*\*\*\* : Sat May 16 01:11:24 GMT 2015

There may have been a CME launched associated with the eruptive prominence near PA50 that launched around 21:00UT. We saw an enhancement in the coronal brightness in the area this morning that looked like the signature of a future Mk4 cme eruption. Sky brightness due to cirrus gave us very limited and poor quality data during this time; but in recent images ~1:00UT we can see what looks like the bow shock of the cme extending outward to about 1 solar radii.

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

PSPT COMMENT BY berkey: Sat May 16 01:24:42 GMT 2015

Pspt images look to have non-uniform brightness from west to east. It almost looks like part of the beam is occulted, but if that is the case the occulting is occurring inside the telescope. Perhaps a filter 1/2 in the beam... or something.

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

Sat May 16 02:28:34 GMT 2015 KCOR End Patrol

Sat May 16 02:28:55 GMT 2015 COMP End Patrol

GENERAL COMMENT BY berkey: Sat May 16 02:28:55 GMT 2015

With clouds moving back in this seems like a good time to shut down.

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