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Mauna Loa Solar Observatory Observer's Log

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Fri Oct 6 16:28:42 GMT 2017

Year: 17 Doy: 279

Observer: berkey

WEATHER COMMENT: berkey: Fri Oct 06 16:29:05 GMT 2017

Temp: 44.1f, Humidity: 10%, Pressure: 28.634in, Wind: 7mph from 144deg, Skies: clear  
\_\_\_\_end\_\_\_\_

GENERAL COMMENT BY berkey: Fri Oct 06 16:46:25 GMT 2017

PM Blew off Kcor 01

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

GENERAL COMMENT BY berkey: Fri Oct 06 16:46:30 GMT 2017

PM Blew off CoMP 01

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

Fri Oct 06 17:17:40 GMT 2017 SGS Alignment complete

Fri Oct 06 17:18:00 GMT 2017 Kcor Focus/alignment program exited

Fri Oct 06 17:17:45 GMT 2017 CoMP occulter has been re-centered

Fri Oct 06 17:19:20 GMT 2017 COMP Start Patrol on cookbook: synoptic-00010.cbk

Fri Oct 06 17:22:10 GMT 2017 KCOR Start Synoptic Patrol

\*\*\*\*EVENT COMMENT BY berkey\*\*\*\* : Fri Oct 06 17:56:20 GMT 2017

Strong enhancement in the corona near PA270. Signal is seen in the raw kcor images. However signal is not easily associated with prominences in Gong Halpha as we would normally expect.

CME detection code suggests this is an on going eruption; but by eye no evolution in the enhancement is obvious over the 30 minutes of data already taken.

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

\*\*\*\*EVENT COMMENT BY berkey\*\*\*\* : Fri Oct 06 17:58:15 GMT 2017

Enhancement is also visible in the CoMP 1079 raw data.

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

GENERAL COMMENT BY berkey: Fri Oct 06 18:24:52 GMT 2017

SGS is seeing periodic shakes/oscillations of about +/- 40 arcseconds that take about 4 seconds to dampen. They look a lot like earthquakes. Not sure if the guider is following an aerosol or there is some mechanical issue.

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

GENERAL COMMENT BY berkey: Fri Oct 06 18:30:15 GMT 2017

SGS "earthquake" appears to have a BIG RA error corresponding with a Big Dec control movement.

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

GENERAL COMMENT BY berkey: Fri Oct 06 18:37:42 GMT 2017

Visual/auditory inspection of the dome found the closed loop Hepa had a large vibration with periodic big jerky jumps.

I assume there is something wrong with the circulation fan in the Hepa box itself. However with the interesting west limb feature; the Closed loop hepa was shut down, and no attempts to troubleshoot the source of the hepa vibration will be made until the feature passes.

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

Fri Oct 06 19:59:17 GMT 2017 KCOR End Patrol

Fri Oct 06 19:59:36 GMT 2017 COMP End Patrol

Fri Oct 06 20:00:16 GMT 2017 CoMP occulter has been re-centered

Fri Oct 06 20:00:20 GMT 2017 COMP Start Patrol on cookbook: waves-00001.cbk

Fri Oct 06 20:01:08 GMT 2017 Kcor Focus/alignment program exited

Fri Oct 06 20:07:17 GMT 2017 KCOR Start Synoptic Patrol

Fri Oct 06 21:31:25 GMT 2017 KCOR End Patrol

Fri Oct 06 21:31:28 GMT 2017 COMP End Patrol

Fri Oct 06 21:32:45 GMT 2017 SGS Alignment complete

Fri Oct 06 21:33:09 GMT 2017 CoMP occulter has been re-centered

Fri Oct 06 21:33:50 GMT 2017 Kcor Focus/alignment program exited

Fri Oct 06 21:35:19 GMT 2017 COMP Start Patrol on cookbook: waves-00001.cbk

Fri Oct 06 21:35:54 GMT 2017 COMP End Patrol

Fri Oct 06 21:35:55 GMT 2017 COMP Start Patrol on cookbook: synoptic-00010.cbk

Fri Oct 06 21:36:33 GMT 2017 KCOR Start Synoptic Patrol

Sat Oct 07 00:11:39 GMT 2017 KCOR End Patrol

Sat Oct 07 00:17:29 GMT 2017 COMP End Patrol

Sat Oct 07 00:17:30 GMT 2017 COMP Start Patrol on cookbook: waves-00001.cbk

Sat Oct 07 00:56:58 GMT 2017 CoMP Paused for clouds

Sat Oct 07 01:00:18 GMT 2017 CoMP Restarted from pause

Sat Oct 07 01:00:18 GMT 2017 CoMP End Patrol

**\*\*CoMP PROBLEM COMMENT BY berkey\*\*** : Sat Oct 07 02:08:37 GMT 2017

Found the CoMP 01 position was reporting at -0.1mm. This appears to be incorrect reporting. 01 was in its nominal position not at the end of the range during cleaning this morning. Running the UComp - Reset 01 motor.vi cleared up the problem.

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

GONG COMMENT BY berkey: Sat Oct 07 02:10:13 GMT 2017

Gong had its pitch errors again this morning until about 10am. Using the gong expert to stop the pitch motor for about 1 minute seemed to stop it from shaking.

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

**\*\*KCOR PROBLEM COMMENT BY berkey\*\*** : Sat Oct 07 02:14:09 GMT 2017

Closed loop (sunward) hepa, needs a new circulating fan. After observing today the hepa filters were temporarily removed to give access to the motor.

When on the motor was louder than accepted with large jumps/noises ever 30 seconds.

The hepa will remain off until the motor is replaced/fixed/etc.

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