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Mauna Loa Solar Observatory Observer's Log  
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Mon Jun 22 16:48:46 GMT 2015

Year: 15 Doy: 173

Observer: berkey

Mon Jun 22 17:00:47 GMT 2015 KCOR Start Synoptic Patrol

Mon Jun 22 17:28:36 GMT 2015 COMP Start Patrol

KCOR COMMENT BY berkey: Mon Jun 22 17:42:53 GMT 2015

Did a kcor inspection this morning.

Found the power cable to the transmitted beam was slightly loose due to the way the nut was tighten. The power cable was re-seated and the system came back up in a ready to run state.

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

WEATHER COMMENT: berkey: Mon Jun 22 17:43:07 GMT 2015

Temp: 54.5f, Humidity: 18%, Pressure: 28.58in, Wind: 4mph from the south, Skies:clear

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

KCOR COMMENT BY berkey: Mon Jun 22 17:44:32 GMT 2015

There is a spot on the south end of the kcor image. We should inspect the north side of the field lens for dust.

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

\*\*\*\*EVENT COMMENT BY berkey\*\*\*\* : Mon Jun 22 17:47:47 GMT 2015

Lots of activity in/near ar2371 this morning.

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

\*\*\*\*EVENT COMMENT BY berkey\*\*\*\* : Mon Jun 22 18:12:47 GMT 2015

Large eruption from 2371 at 17:30 as seen in Gong.

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

\*\*\*\*Possible CME in Progress berkey\*\*\*\*: Mon Jun 22 19:31:28 GMT 2015

Distruption can be seen in the Kcor images moving through near PA310. It has an apparent moition from the North to the south about 1/2-1 solar radii away from the photosphere. This activity is seen at around18:30UT and seems to be associated with with the eruption from AR2371 at about 17:30UT.

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

You can check out the image data at:

<http://mlso.hao.ucar.edu>

\*\*\*\*Possible CME in Progress berkey\*\*\*\*: Mon Jun 22 19:32:17 GMT 2015

Following up on the message from a couple minutes ago. Near PA190 we see coronal structures pushed from West to East starting around 18:45UT

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

You can check out the image data at:

<http://mlso.hao.ucar.edu>

Mon Jun 22 19:44:42 GMT 2015 KCOR End Patrol

Mon Jun 22 19:44:59 GMT 2015 CoMP Paused for clouds

Mon Jun 22 19:48:42 GMT 2015 CoMP Restarted from pause

GENERAL COMMENT BY berkey: Mon Jun 22 19:48:53 GMT 2015

Moved top shutter down.

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

Mon Jun 22 19:49:34 GMT 2015 KCOR Start Synoptic Patrol

Mon Jun 22 19:49:37 GMT 2015 KCOR End Patrol  
Mon Jun 22 19:49:37 GMT 2015 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20150323.ini  
Mon Jun 22 20:06:58 GMT 2015 KCOR End Calibration Script  
Mon Jun 22 20:07:15 GMT 2015 KCOR Start Synoptic Patrol  
Mon Jun 22 20:07:16 GMT 2015 KCOR Start Synoptic Patrol  
Mon Jun 22 21:09:44 GMT 2015 KCOR End Patrol  
Mon Jun 22 21:27:01 GMT 2015 COMP End Patrol  
Mon Jun 22 21:27:01 GMT 2015 COMP Start Patrol  
Mon Jun 22 21:38:50 GMT 2015 KCOR Start Synoptic Patrol  
Mon Jun 22 22:05:34 GMT 2015 KCOR End Patrol  
Mon Jun 22 22:06:39 GMT 2015 COMP End Patrol  
GENERAL COMMENT BY berkey: Mon Jun 22 22:06:52 GMT 2015  
Tour group of about 30 6th graders from Colorado stopped by it was nice the sun gave them a eruption and cme to look at.

\_\_\_end\_\_\_  
GENERAL COMMENT BY berkey: Mon Jun 22 22:07:21 GMT 2015  
Re-aligning spar to kcor.

\_\_\_end\_\_\_  
Mon Jun 22 22:09:29 GMT 2015 COMP Start Patrol  
KCOR COMMENT BY berkey: Mon Jun 22 23:32:23 GMT 2015  
Installed the proper .4 and .6 meter camera link cables. And refocused the T camera.

\_\_\_end\_\_\_  
Mon Jun 22 23:34:45 GMT 2015 KCOR Start Synoptic Patrol  
KCOR COMMENT BY berkey: Mon Jun 22 23:41:38 GMT 2015  
After installing the camera link cables I booted up the system in the following order:  
Up stairs fiber link extender  
Camera R  
Camera T  
Down stairs fiber link extender  
Computer

Then went attempted to start socketcam (via the normal observing program) as soon as everything had loaded. This gave a Board 1 error.  
So I then shut down everything again and brought it back up in the same order, but instead ran focus. This gave blank images and no data with a labview error suggesting bad/no handshake with the frame grabber. I then shutdown the focus code and restarted this time we got no error message and started seeing streaming data. After shutting focus down gracefully, I was able to start socketcam with no issues.

Since I started things the same way both times I think socketcam would have run the first time if I attempted to use focus (or some other free running code first). It really seems to be on reboot the system wants/needs to do one connect/disconnect cycle with the framegrabber before things can work properly. Or maybe the above order is not correct perhaps the computer needs to be running and see the downstairs frame grabber start up to be in the right state; this better lines up with the suggested camera/camera-link start up order from Brandon.

\_\_\_end\_\_\_  
\*\*\*\*EVENT COMMENT BY berkey\*\*\*\* : Tue Jun 23 00:02:41 GMT 2015  
Bright filamentary structure seen near PA330 between 22:30 UT when I stopped to refocus and swap camera link cables and 01:53UT when we restarted observations. It does not had an obvious Halpha counterpart.

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

\*\*\*\*EVENT COMMENT BY berkey\*\*\*\* : Tue Jun 23 01:22:14 GMT 2015

The PA330 event from 0:30ish is pretty neat we can see it start to spin and open up as it moves away from the sun.

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

Tue Jun 23 02:03:01 GMT 2015 COMP End Patrol

Tue Jun 23 02:03:05 GMT 2015 KCOR End Patrol

Tue Jun 23 02:12:15 GMT 2015 COMP Start Patrol

Tue Jun 23 02:21:23 GMT 2015 KCOR Start Synoptic Patrol

KCOR COMMENT BY berkey: Tue Jun 23 03:03:56 GMT 2015

T-cam focus still looks soft.

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

Tue Jun 23 03:08:42 GMT 2015 CoMP Paused for clouds

Tue Jun 23 03:09:03 GMT 2015 CoMP Restarted from pause

Tue Jun 23 03:09:23 GMT 2015 COMP End Patrol

CoMP COMMENT BY berkey: Tue Jun 23 03:11:56 GMT 2015

CoMP occulter cannot be moved in the negative horizontal direction. I think the motor is slipping under the weight of the stage. Typically we see this problem in the other direction in the morning when the motor cannot overcome the weight in the positive direction. Shutting down for the day since I cannot zero on the disk light spillage.

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

Tue Jun 23 03:38:15 GMT 2015 KCOR End Patrol

GENERAL COMMENT BY berkey: Tue Jun 23 03:43:22 GMT 2015

Great day for solar activity.

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