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Mauna Loa Solar Observatory Observer's Log  
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Fri Nov 22 16:57:05 GMT 2013

Year: 13 Doy: 326

Observer: berkey

WEATHER COMMENT: berkey: Fri Nov 22 16:57:10 GMT 2013

temp 37f, winds 8mph from sw, clear skies

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

\*\*KCOR PROBLEM COMMENT BY berkey \*\*: Fri Nov 22 16:57:23 GMT 2013

ilx temp reads 33.5F with the TE current LED lit

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

Fri Nov 22 17:20:50 GMT 2013: PSPT Start Patrol

GENERAL OBSERVATORY COMMENT BY berkey: Fri Nov 22 19:14:18 GMT 2013

New guider installed.

The mount points for this guider are about 2" farther apart than the old guider. In its current arrangement the thor labs Ba2 plate at the back of the guider is installed such that the long axis of the plate is perpendicular to the guider's optical axis and is held down with 2 screws. The front ba2 plate is installed parallel to the optical axis and is held down with only one bolt. The post that attaches the guider to the ba2 plate is nearly inline with the top plate of the spar; and the solar side mounting hole for the front ba2 plate sticks out past the end of the spar and is not secure.

At some point I would like to drill and tap a new set of holes for the back of the guider so we can move the front plate fully onto the spar. In order to do this the counterweight shelf of the south side of the spar may need to be removed, or at a minimum the weights will need to be removed to get enough room to drill that area. Since the spar would be unbalanced during this drilling I think it is best to wait until a 2 person day on the mountain. Alternatively we could attempt to build an adaptor plate with a hole pattern that matches both guides and install it between the spar and the new guider.

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

Fri Nov 22 19:29:54 GMT 2013 COMP Start Patrol

Fri Nov 22 19:42:10 GMT 2013 KCOR Start Synoptic Patrol

KCOR COMMENT BY berkey: Fri Nov 22 19:42:07 GMT 2013

Per request from Joan, exposure time has been increased from .16 to .6ms

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

KCOR COMMENT BY berkey: Fri Nov 22 19:52:48 GMT 2013

Socketcam has been rebuilt with no LUT applied to the streaming data. A quick test of the streaming seems to produce reasonable raw dark files.

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

Fri Nov 22 20:49:29 GMT 2013 KCOR End Patrol

Fri Nov 22 21:41:36 GMT 2013 COMP End Patrol

KCOR COMMENT BY berkey: Fri Nov 22 21:49:18 GMT 2013

Starting kcorDiffuser test with the LSD. Occulting disk has been removed for this test.

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

KCOR COMMENT BY berkey: Fri Nov 22 21:50:30 GMT 2013

Taking a few frames with the LSD in the beam at .16ms integration time.

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

KCOR COMMENT BY berkey: Fri Nov 22 21:55:08 GMT 2013

Taking data with ND in the beam.

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

KCOR COMMENT BY berkey: Fri Nov 22 21:56:25 GMT 2013  
Cover keyword is wrong :( I guess that bug crept back on.  
\_\_\_\_end\_\_\_\_

KCOR COMMENT BY berkey: Fri Nov 22 22:14:49 GMT 2013  
Opal installed in telescope  
\_\_\_\_end\_\_\_\_

KCOR COMMENT BY berkey: Fri Nov 22 22:16:08 GMT 2013  
Taking opal data exposure set to .16ms  
\_\_\_\_end\_\_\_\_

KCOR COMMENT BY berkey: Fri Nov 22 22:17:38 GMT 2013  
First pass check of the opal data looks like it is 6x dimmer than the old diffuser  
\_\_\_\_end\_\_\_\_

KCOR COMMENT BY berkey: Fri Nov 22 22:22:27 GMT 2013  
Taking more nd data for fun and profit. This should be identical to the pervious set of ND data  
\_\_\_\_end\_\_\_\_

KCOR COMMENT BY berkey: Fri Nov 22 22:33:02 GMT 2013  
Occulter reinstalled  
\_\_\_\_end\_\_\_\_

Fri Nov 22 22:35:51 GMT 2013 COMP Start Patrol  
Fri Nov 22 22:45:30 GMT 2013 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg.ini  
Fri Nov 22 23:01:21 GMT 2013 KCOR End Calibration Script  
Fri Nov 22 23:02:30 GMT 2013 KCOR Start Synoptic Patrol  
Fri Nov 22 23:14:26 GMT 2013 KCOR End Patrol  
Fri Nov 22 23:16:04 GMT 2013: PSPT Abort Patrol  
Fri Nov 22 23:16:08 GMT 2013: PSPT Abort Patrol  
Fri Nov 22 23:16:58 GMT 2013 COMP End Patrol

KCOR COMMENT BY berkey: Sat Nov 23 00:29:22 GMT 2013  
Alice is creating gif images in ulua:/gallery/kcor so I plugged a montior into ulua to display the movies. Note the keyb  
oard and mouse are sitting on top of ulua and the monitor is installed on the 3x3 monitor rack, so typing into the console  
isn't very egronomic. But for the first time since July(?) we have videos of the corona playing at MLSO.  
\_\_\_\_end\_\_\_\_

KCOR COMMENT BY berkey: Sat Nov 23 01:11:44 GMT 2013  
Added some logic to initialize the cover,diffuser,calpol and shutter fits headers into the proper state. Up until now the  
y were alwasly initialized as out of the beam with no poling to check proper state. Now as before things that move the sta  
ges update the header.  
\_\_\_\_end\_\_\_\_

KCOR COMMENT BY berkey: Sat Nov 23 02:25:42 GMT 2013  
Doing an end of the day streaming dark test. Files are in /data/20131122 and are labled 20131123\_022600...  
\_\_\_\_end\_\_\_\_