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Mauna Loa Solar Observatory Observer's Log  
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Wed Jul 29 18:24:54 GMT 2015

Year: 15 Doy: 210

Observer: berkey

Wed Jul 29 18:26:34 GMT 2015 KCOR Start Synoptic Patrol

Wed Jul 29 18:45:39 GMT 2015 COMP Start Patrol

Wed Jul 29 18:52:11 GMT 2015 COMP End Patrol

Wed Jul 29 18:52:11 GMT 2015 COMP Start Patrol

COMP COMMENT BY berkey: Wed Jul 29 18:53:12 GMT 2015

Opening comp to install the polarizer in the calpol rotator

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

Wed Jul 29 18:56:14 GMT 2015 COMP End Patrol

Wed Jul 29 18:56:25 GMT 2015 COMP Start Patrol

Wed Jul 29 19:02:46 GMT 2015 COMP End Patrol

Wed Jul 29 19:04:22 GMT 2015 COMP Start Patrol

WEATHER COMMENT: berkey: Wed Jul 29 19:04:17 GMT 2015

Temp: 55.9f, Humidity: 13%, Pressure: 28.713in, Wind: 6mph from NE, Skies: clear with an inversion layer at about 10,000 t  
hat appears to be rising.

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

COMP COMMENT BY berkey: Wed Jul 29 19:04:46 GMT 2015

Cover back on comp. Running cal\_pol for real this time.

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

Wed Jul 29 19:05:21 GMT 2015 KCOR End Patrol

Wed Jul 29 19:06:20 GMT 2015 KCOR Start Synoptic Patrol

Wed Jul 29 19:25:03 GMT 2015 COMP End Patrol

Wed Jul 29 19:25:03 GMT 2015 COMP Start Patrol

Wed Jul 29 19:25:26 GMT 2015 COMP End Patrol

COMP COMMENT BY berkey: Wed Jul 29 19:25:22 GMT 2015

pulling comp cover to install the retarder.

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

COMP COMMENT BY berkey: Wed Jul 29 19:30:17 GMT 2015

Cover back on and retarder in beam. Taking more datas

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

Wed Jul 29 19:30:33 GMT 2015 COMP Start Patrol

COMP COMMENT BY berkey: Wed Jul 29 19:53:01 GMT 2015

removing cal retarder.

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

COMP COMMENT BY berkey: Wed Jul 29 19:55:33 GMT 2015

retarder out taking cal\_pol data

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

Wed Jul 29 19:55:47 GMT 2015 COMP End Patrol

Wed Jul 29 19:55:47 GMT 2015 COMP Start Patrol

Wed Jul 29 19:56:10 GMT 2015 COMP End Patrol

Wed Jul 29 19:56:24 GMT 2015 COMP Start Patrol

Wed Jul 29 20:16:32 GMT 2015 COMP End Patrol  
Wed Jul 29 20:16:33 GMT 2015 COMP Start Patrol  
Wed Jul 29 20:16:56 GMT 2015 COMP End Patrol  
Wed Jul 29 20:19:41 GMT 2015 COMP Start Patrol  
GENERAL COMMENT BY berkey: Wed Jul 29 20:19:36 GMT 2015  
Polarizer out taking cal with no special optics.  
\_\_\_\_end\_\_\_\_

Wed Jul 29 20:25:52 GMT 2015 KCOR End Patrol  
Wed Jul 29 20:26:09 GMT 2015 COMP End Patrol  
Wed Jul 29 20:32:05 GMT 2015 KCOR Start Synoptic Patrol  
GENERAL COMMENT BY berkey: Wed Jul 29 20:33:06 GMT 2015  
Dome reconfigured.  
\_\_\_\_end\_\_\_\_

Wed Jul 29 20:44:37 GMT 2015 COMP Start Patrol  
Wed Jul 29 20:44:51 GMT 2015 KCOR End Patrol  
Wed Jul 29 20:44:53 GMT 2015 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20150323.ini  
Wed Jul 29 21:02:04 GMT 2015 KCOR End Calibration Script  
Wed Jul 29 21:02:21 GMT 2015 KCOR Start Synoptic Patrol  
Wed Jul 29 21:02:23 GMT 2015 KCOR Start Synoptic Patrol  
Wed Jul 29 22:02:42 GMT 2015 KCOR End Patrol  
Wed Jul 29 22:03:00 GMT 2015 COMP End Patrol

CoMP COMMENT BY berkey: Wed Jul 29 22:07:23 GMT 2015  
This morning we reinstalled the second 36979-01 board in the ESP-3000 controller to give back programatic control to the calpol rotator. This had been removed July 25th of last year, and send back to Boulder for repair on Gregs visit to do the Kcor camera stage upgrades.  
\_\_\_\_end\_\_\_\_

CoMP COMMENT BY berkey: Wed Jul 29 22:09:14 GMT 2015  
Fixed the ESP 3000 magic numbers for detecting the opal position back to 604/406 which are the appropriate numbers for opal in/out when the calpol rotator board is installed.  
\_\_\_\_end\_\_\_\_

GENERAL COMMENT BY berkey: Wed Jul 29 22:10:55 GMT 2015  
Pausing observing on all systems to do a comp optics inspection.  
\_\_\_\_end\_\_\_\_

Thu Jul 30 01:09:57 GMT 2015 KCOR Start Synoptic Patrol  
CoMP COMMENT BY berkey: Thu Jul 30 01:15:27 GMT 2015  
Took apart filter wheel 1 and clean the 3 interference filters front and back with DI water and Isopropyl alcohol.  
Cleaned the collimation lens with the air compressor.  
Cleaned the camera entrance window with the air compressor.

During the process we adjusted the re-imaging lens baffle. Afterward we realigned the re-imaging lens in X and Y and rotated the camera clockwise looking at the sun by about 5 degrees to align fit the two coronal images onto the detector better. This also squared the camera up to the aft bulkhead.

During inspections the occulting post was rotated to better put the light on the head dump, but this causes the occulter to move w.r.t. the field stop causing out of round images. The occulting post was rotated back to its nominal pre-inspection position and things are looking better.  
\_\_\_\_end\_\_\_\_

Thu Jul 30 01:21:04 GMT 2015 COMP Start Patrol

Thu Jul 30 01:24:36 GMT 2015 COMP End Patrol

Thu Jul 30 01:31:41 GMT 2015 KCOR End Patrol

GENERAL COMMENT BY berkey: Thu Jul 30 01:38:16 GMT 2015

Leaving early for actually valid reasons.

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