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Mauna Loa Solar Observatory Observer's Log  
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Wed Sep 9 17:05:33 GMT 2015

Year: 15 Doy: 252

Observer: berkey

WEATHER COMMENT: berkey: Wed Sep 09 17:08:34 GMT 2015

Temp: 49.8f, Humidity: 47%, Pressure: 28.598in, Wind: 7mph from SE, Skies:Clear. Heavy vog is being capped at about 9,000 ft by an inversion layer.

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

Wed Sep 09 17:12:19 GMT 2015 KCOR Start Synoptic Patrol

GENERAL COMMENT BY berkey: Wed Sep 09 17:16:20 GMT 2015

Seeing some aerosols in CoMP images.

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

PSPT COMMENT BY berkey: Wed Sep 09 19:40:39 GMT 2015

PSPT trouble shooting this morning.

Found I was getting a lot of RS232 Xedar errors while the camera power supply box under the PSPT platform was in a weird condition. Power cycling the power supply box fixed the RS232 errors.

Still cannot read out the camera.

Trying to do a full system startup/initialization.

Looks like only can we not read out the camera, but the focus isn't working.

Tried reverting to all of the original PSPT cables (accept the RA/camera trigger cable which was installed on Sunday.

With old cables homing focus still appears to fail

Rebooted everthing.

During the exercise shutter 20 times command I didnt see the Uniblitz blink but I may have looked to late.

The focus home command appears to having a problem again, I dont think anything is working :(

Canceled focus, trying dome home. Dome seems to work

Guider, mirror and cap all seem to work.

Right now we may be having shutter, camera and focus issues.

The Still not seeing uniblitz triggering.

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

CoMP COMMENT BY berkey: Wed Sep 09 19:41:57 GMT 2015

CoMP guiding might be getting out of range. It would be interesting to see if the data passed gates earlier today but started failing around 19:30ish UT.

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

PSPT COMMENT BY berkey: Wed Sep 09 20:11:37 GMT 2015

Trying spare uniblitz. I still didnt see the shutter light blink on the new controller.

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

GENERAL COMMENT BY berkey: Wed Sep 09 20:12:20 GMT 2015

Stopping observing in the main dome. To re-focus kcor and reconfigure the dome.

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

Wed Sep 09 20:12:43 GMT 2015 KCOR End Patrol

Wed Sep 09 20:12:56 GMT 2015 COMP End Patrol

Wed Sep 09 21:24:35 GMT 2015 COMP Start Patrol on cookbook: comp.cbk

Wed Sep 09 21:32:49 GMT 2015 KCOR Start Synoptic Patrol

KCOR COMMENT BY berkey: Wed Sep 09 21:34:50 GMT 2015

Kcor T-focus realigned with the guider mis-pointed to put the middle of the sun on the edge of of the occulter and then I used the focs-df vi to sharpen the transition from occulter to sun.

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

KCOR COMMENT BY berkey: Wed Sep 09 21:46:40 GMT 2015

Dennis still thinks he sees some tip/tilt in both cameras which we will not address today.

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

KCOR COMMENT BY berkey: Wed Sep 09 21:47:16 GMT 2015

Dennis also suspects there is a ding in the occulter edge. I will double check on Firday when we do the occulter swaps.

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

GENERAL COMMENT BY berkey: Wed Sep 09 22:04:33 GMT 2015

Looks like we are starting to get into some thin cirrus.

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

Wed Sep 09 22:45:45 GMT 2015 KCOR End Patrol

Wed Sep 09 22:53:41 GMT 2015 CoMP Paused for clouds

Wed Sep 09 23:36:55 GMT 2015 KCOR Start Synoptic Patrol

Wed Sep 09 23:36:56 GMT 2015 CoMP Restarted from pause

Wed Sep 09 23:44:15 GMT 2015 KCOR End Patrol

Wed Sep 09 23:44:13 GMT 2015 CoMP Paused for clouds

Wed Sep 09 23:46:21 GMT 2015 CoMP Restarted from pause

Wed Sep 09 23:46:29 GMT 2015 KCOR Start Synoptic Patrol

Wed Sep 09 23:47:58 GMT 2015 KCOR End Patrol

Wed Sep 09 23:58:44 GMT 2015 COMP End Patrol

Thu Sep 10 00:00:21 GMT 2015 COMP Start Patrol on cookbook: comp.cbk

GENERAL COMMENT BY berkey: Thu Sep 10 00:00:28 GMT 2015

Re-aligning sgs and comp occulter

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

Thu Sep 10 00:14:21 GMT 2015 CoMP Paused for clouds

Thu Sep 10 00:17:06 GMT 2015 CoMP Restarted from pause

Thu Sep 10 00:20:47 GMT 2015 KCOR Start Synoptic Patrol

Thu Sep 10 00:45:48 GMT 2015 KCOR End Patrol

Thu Sep 10 00:46:00 GMT 2015 Kcor sees an SGS Guiding Error closing lens cover

Thu Sep 10 00:46:01 GMT 2015 KCOR End Patrol

Thu Sep 10 00:46:01 GMT 2015 CoMP Paused for clouds

Thu Sep 10 00:51:03 GMT 2015 CoMP Restarted from pause

Thu Sep 10 00:51:53 GMT 2015 KCOR Start Synoptic Patrol

Thu Sep 10 00:54:39 GMT 2015 KCOR End Patrol

Thu Sep 10 00:54:43 GMT 2015 CoMP Paused for clouds

Thu Sep 10 00:58:32 GMT 2015 CoMP Restarted from pause

Thu Sep 10 00:58:41 GMT 2015 KCOR Start Synoptic Patrol

Thu Sep 10 01:02:48 GMT 2015 KCOR End Patrol

Thu Sep 10 01:12:11 GMT 2015 CoMP Paused for clouds

Thu Sep 10 01:20:46 GMT 2015 CoMP Restarted from pause

Thu Sep 10 01:31:31 GMT 2015 KCOR Start Synoptic Patrol

Thu Sep 10 01:33:57 GMT 2015 KCOR End Patrol

Thu Sep 10 01:34:32 GMT 2015 CoMP Paused for clouds

Thu Sep 10 01:37:34 GMT 2015 CoMP Restarted from pause

Thu Sep 10 01:38:27 GMT 2015 KCOR Start Synoptic Patrol

Thu Sep 10 01:41:34 GMT 2015 KCOR End Patrol

Thu Sep 10 01:50:42 GMT 2015 KCOR Start Synoptic Patrol

PSPT COMMENT BY berkey: Thu Sep 10 02:14:25 GMT 2015

More PSPT troubleshooting swapped back in the new P51/61, P52/62 and P53/63 cables.

I also disabled taking darks during startup.

During the exersize shutter 20 times startup step the shutter light on the uniblitz came on and stay on and remains on minutes later. Historically the light only came on when the shutter moved out of the beam for an image.

During the home fcs step the stage again drove negative and never stopped. (No audio/visual indication that anything actually moved by the screen feed kept incrementing).

At the final step of the startup during taking clear blue the dos machine kept trying to take more and more images. Historically this only would have happend once. Then eventually idl crashed at PSPT\_SHOW\_IMAGE 51

Tried running Daily Obs for more info.

on the clr Blue stop the filterwheel seems to drive on forever.

Nope filter wheel eventually returned.

IDL crashed in the same way PSPT\_SHOW\_IMAGE 51

Reverting back to the old uniblitz

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

Thu Sep 10 02:37:10 GMT 2015 KCOR End Patrol

Thu Sep 10 02:37:38 GMT 2015 COMP End Patrol