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Mauna Loa Solar Observatory Observer's Log  
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Mon Jul 31 16:07:43 GMT 2017

Year: 17 Doy: 212

Observer: waters

WEATHER COMMENT: waters: Mon Jul 31 16:07:51 GMT 2017

Temp 45F with windspeed at about 9-14mph from the East-Southeast. The sky looks wonderfully clear this morning!

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

Mon Jul 31 16:35:34 GMT 2017 SGS Alignment complete

CoMP COMMENT BY waters: Mon Jul 31 16:35:19 GMT 2017

CoMP center occulter had 0 for the focus, horizontal and vertical translation. Comp occulter only needed a little bit of centering but when I tried to move it the whole GUI stopped responding. Restarting the computer to hopefully get things working again.

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

CoMP COMMENT BY waters: Mon Jul 31 16:44:47 GMT 2017

Comp computer wouldn't shut down; power cycled it.

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

Mon Jul 31 16:54:00 GMT 2017 CoMP occulter has been re-centered

CoMP COMMENT BY waters: Mon Jul 31 16:51:23 GMT 2017

Once rebooting the computer and got the CoMP GUI back up, the only value that wasn't right for the center occulter was the horizontal. Luckily I remembered the value from Friday and was able to get it back pretty fast. Everything seems to be working now.

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

Mon Jul 31 16:56:50 GMT 2017 COMP Start Patrol on cookbook: synoptic-00010.cbk

Mon Jul 31 16:56:59 GMT 2017 SGS Alignment complete

Mon Jul 31 17:04:59 GMT 2017 Kcor Focus/alignment program exited

KCOR COMMENT BY waters: Mon Jul 31 17:05:28 GMT 2017

socketcam is very unhappy with me. When I initially started the KCor synoptic gui, socketcam only put out three lines and then froze. It didn't finish looking at the bins or give a camera lag readout. Then I stopped running the synoptic gui. The program stopped immediately but nothing showed up in socketcam. After about 45 seconds, socketcam registered the rest of the bins and the camera lag. Nothing about stopping the program. Quit socketcam and started the synoptic gui again. Socketcam popped up and immediately showed the gentlestop. It seems to me that the gui and socketcam were completely out of sync.

Restarting computer to hopefully fix the issue.

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

Mon Jul 31 17:19:27 GMT 2017 Kcor Focus/alignment program exited

Mon Jul 31 17:22:44 GMT 2017 KCOR Start Synoptic Patrol

GENERAL OBSERVATORY COMMENT BY waters: Mon Jul 31 17:19:09 GMT 2017

Looks like most (hopefully all) of the bugs are out of the computers this morning and things are looking better. :)

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

KCOR COMMENT BY waters: Mon Jul 31 17:21:16 GMT 2017

KCor O1 blown off before start up.

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

KCOR COMMENT BY waters: Mon Jul 31 17:47:18 GMT 2017

SPiiPlusCOM660 error. Hit stop and then used the User-Mode Driver on the desktop. Seems to have gotten everything back up and running.

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

Mon Jul 31 18:59:12 GMT 2017 KCOR End Patrol

Mon Jul 31 18:59:13 GMT 2017 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20150323.ini  
Mon Jul 31 19:03:49 GMT 2017 Kcor sees an SGS Guiding Error closing lens cover  
Mon Jul 31 19:04:03 GMT 2017 Kcor sees an SGS Guiding Error closing lens cover  
Mon Jul 31 19:04:22 GMT 2017 KCOR ABORT Calibration Script  
Mon Jul 31 19:04:40 GMT 2017 KCOR Start Synoptic Patrol  
Mon Jul 31 19:04:41 GMT 2017 KCOR Start Synoptic Patrol  
Mon Jul 31 19:04:41 GMT 2017 KCOR Start Synoptic Patrol  
Mon Jul 31 19:04:42 GMT 2017 KCOR Start Synoptic Patrol  
GENERAL OBSERVATORY COMMENT BY waters: Mon Jul 31 19:00:41 GMT 2017  
Dec slipped during calibration; aborted and restarting.  
\_\_\_\_end\_\_\_\_

Mon Jul 31 19:06:33 GMT 2017 KCOR End Patrol  
Mon Jul 31 19:06:36 GMT 2017 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20150323.ini  
GENERAL OBSERVATORY COMMENT BY waters: Mon Jul 31 19:09:45 GMT 2017  
From 19:04:40 to 19:06:33 should not have been marked as science as the lens cover was in.  
\_\_\_\_end\_\_\_\_

Mon Jul 31 19:21:53 GMT 2017 KCOR End Calibration Script  
Mon Jul 31 19:22:02 GMT 2017 KCOR Start Synoptic Patrol  
Mon Jul 31 19:38:30 GMT 2017 COMP End Patrol  
Mon Jul 31 19:38:31 GMT 2017 COMP Start Patrol on cookbook: waves-00001.cbk  
Mon Jul 31 21:11:09 GMT 2017 COMP End Patrol  
Mon Jul 31 21:12:43 GMT 2017 KCOR End Patrol  
Mon Jul 31 21:13:59 GMT 2017 SGS Alignment complete  
Mon Jul 31 21:15:10 GMT 2017 KCOR Start Synoptic Patrol  
Mon Jul 31 21:14:40 GMT 2017 CoMP occulter has been re-centered  
Mon Jul 31 21:14:42 GMT 2017 COMP Start Patrol on cookbook: synoptic-00010.cbk  
Mon Jul 31 21:17:03 GMT 2017 Kcor sees an SGS Guiding Error closing lens cover  
Mon Jul 31 21:17:05 GMT 2017 KCOR End Patrol  
Mon Jul 31 21:17:17 GMT 2017 Kcor sees an SGS Guiding Error closing lens cover  
Mon Jul 31 21:17:19 GMT 2017 KCOR End Patrol  
Mon Jul 31 21:16:36 GMT 2017 CoMP Paused for clouds  
GENERAL OBSERVATORY COMMENT BY waters: Mon Jul 31 21:12:09 GMT 2017

Spar started oscillating due to some gusts from the East. Put the lower shutter up to help keep the influence of the wind on the spar but no dice. Wind is at 12-17mph with gusts between 20-25mph from the East. Every time the wind suddenly picks up, the spar oscillates, Kcor closes it's shutter and CoMP looks shakey. Idling instruments for a bit.  
\_\_\_\_end\_\_\_\_

GENERAL OBSERVATORY COMMENT BY waters: Mon Jul 31 21:20:47 GMT 2017  
Just in time for some cirrus to come into view.  
\_\_\_\_end\_\_\_\_

Mon Jul 31 22:00:33 GMT 2017 KCOR Start Synoptic Patrol  
Mon Jul 31 21:59:40 GMT 2017 CoMP Restarted from pause  
GENERAL OBSERVATORY COMMENT BY waters: Mon Jul 31 21:56:59 GMT 2017  
Found a position for the dome so the spar wouldn't shake as much!  
\_\_\_\_end\_\_\_\_

KCOR COMMENT BY waters: Mon Jul 31 21:59:11 GMT 2017

While the cirrus passed, I rotated the dome West and conducted a test for Alfred regarding which direction the polarizer rotated (cw or ccw when looking up at the Sun) rotating it from 0-90 degrees. When looking at the polarizer towards the Sun, it rotates counter clockwise.

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

GENERAL OBSERVATORY COMMENT BY waters: Mon Jul 31 22:22:57 GMT 2017

The normal image at 22:00:01 UT is from when the lens cover on K-Cor was coming out of beam, I believe.

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

Mon Jul 31 22:31:06 GMT 2017 KCOR End Patrol

Mon Jul 31 22:32:50 GMT 2017 KCOR Start Synoptic Patrol

GENERAL OBSERVATORY COMMENT BY waters: Mon Jul 31 22:28:42 GMT 2017

Dome occulted Kcor.

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

Mon Jul 31 23:24:36 GMT 2017 KCOR End Patrol

Mon Jul 31 23:24:20 GMT 2017 COMP End Patrol

GENERAL OBSERVATORY COMMENT BY waters: Mon Jul 31 23:28:10 GMT 2017

Interesting morning with the instruments but otherwise a wonderful day to take data!

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