

-----  
Mauna Loa Solar Observatory Observer's Log  
-----

Tue Mar 28 16:26:11 GMT 2017

Year: 17 Doy: 087

Observer: waters

GENERAL COMMENT BY waters: Tue Mar 28 16:49:41 GMT 2017

Temp 43F with windspeed at about 8-13mph from the Southeast. Sky is clear.

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

Tue Mar 28 17:03:30 GMT 2017 SGS Alignment complete

Tue Mar 28 17:04:56 GMT 2017 CoMP occulter has been re-centered

Tue Mar 28 17:06:38 GMT 2017 COMP Start Patrol on cookbook: synoptic-00010.cbk

Tue Mar 28 17:29:46 GMT 2017 Kcor Focus/alignment program exited

Tue Mar 28 17:33:08 GMT 2017 KCOR Start Synoptic Patrol

GENERAL COMMENT BY waters: Tue Mar 28 17:40:05 GMT 2017

Ran some dome shutter tests this morning to see if I could get the shutters to stop moving either going up or down. First off, there seems to be no problem with the upper shutter opening or going up. It's only when the top shutter is closing or going down that the motor stops. The bottom shutter has trouble with both opening and closing.

I first had the dome rotating since that's when I noticed the problem. I also started with just the top shutter. Going clockwise, there didn't seem to be a problem with the top shutter opening (going up); it went up smoothly with no hitch/stop in the motor. Then I rotated counter-clockwise and had the top shutter close. There were a couple of spots where the motor stopped but started again. I stopped rotating the dome when I heard the motor stop and it stayed motionless for about two minutes and then the top shutter continued to lower. I did not move the dome from the spot. Opened the top dome once it finished closing; motor was perfectly fine opening. Then I switched the top shutter to close again; wouldn't budge. Note that about two minutes elapsed between switching the dome from going up to going down. After about five minutes of nothing moving, I tried lowering the bottom shutter; it wouldn't budge either. About fifteen minutes later, Allen came up and pushed on the lower shutter and both motors for the shutters started moving again. Interesting to note, the motors did not stop moving once they had started up.

I'm not entirely sure what is happening and to be honest, it might not show up again but we may try to do some tests later today if we have any down time during observations (clouds, mainly).

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

KCOR COMMENT BY waters: Tue Mar 28 18:00:08 GMT 2017

On a happy note, the bullet holes we saw in the Kcor data yesterday afternoon are no longer there, just the two faint bullet holes remain in the northwest quadrant.

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

\*\*\*\*Possible CME in Progress waters\*\*\*\*\*: Tue Mar 28 19:16:00 GMT 2017

At PA 270, there is a cme that looks to have started launching before we started taking data at 17:33UT. Can be seen in Kcor.

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

You can check out the image data at:

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

Tue Mar 28 21:21:12 GMT 2017 COMP End Patrol

Tue Mar 28 21:21:21 GMT 2017 KCOR End Patrol

Tue Mar 28 21:22:56 GMT 2017 SGS Alignment complete

Tue Mar 28 21:22:49 GMT 2017 KCOR Start Synoptic Patrol

Tue Mar 28 21:23:25 GMT 2017 CoMP occulter has been re-centered  
Tue Mar 28 21:23:28 GMT 2017 COMP Start Patrol on cookbook: synoptic-00010.cbk  
GENERAL OBSERVATORY COMMENT BY waters: Tue Mar 28 21:23:31 GMT 2017  
Comp occulter adjusted

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

Tue Mar 28 22:51:13 GMT 2017 KCOR End Patrol  
Tue Mar 28 22:51:50 GMT 2017 CoMP Paused for clouds  
GENERAL COMMENT BY waters: Tue Mar 28 22:51:53 GMT 2017

It's really a mixed bag this morning with the areosols; sometimes it's bad but then sometimes they clear up.

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

GENERAL COMMENT BY waters: Tue Mar 28 22:52:13 GMT 2017  
Some clouds have come up instruments idled for a bit.

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

Tue Mar 28 23:04:31 GMT 2017 CoMP Restarted from pause  
Tue Mar 28 23:05:14 GMT 2017 KCOR Start Synoptic Patrol  
Tue Mar 28 23:45:05 GMT 2017 KCOR End Patrol  
Tue Mar 28 23:45:09 GMT 2017 CoMP Paused for clouds  
GENERAL COMMENT BY waters: Tue Mar 28 23:49:26 GMT 2017

Clouds up again

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

GENERAL COMMENT BY waters: Wed Mar 29 00:19:58 GMT 2017  
Closed the dome for some low clouds coming up, just in case.

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

Wed Mar 29 01:37:45 GMT 2017 CoMP Restarted from pause  
Wed Mar 29 01:37:46 GMT 2017 COMP End Patrol  
Wed Mar 29 01:39:04 GMT 2017 SGS Alignment complete  
Wed Mar 29 01:39:02 GMT 2017 CoMP occulter has been re-centered  
Wed Mar 29 01:39:43 GMT 2017 Kcor Focus/alignment program exited  
Wed Mar 29 01:41:12 GMT 2017 CoMP occulter has been re-centered  
Wed Mar 29 01:41:21 GMT 2017 COMP Start Patrol on cookbook: synoptic-00010.cbk  
Wed Mar 29 01:45:37 GMT 2017 KCOR Start Synoptic Patrol  
Wed Mar 29 02:15:29 GMT 2017 KCOR End Patrol  
Wed Mar 29 02:15:46 GMT 2017 COMP End Patrol

GENERAL COMMENT BY waters: Wed Mar 29 02:27:18 GMT 2017

Nice day early, but then light variable winds caused aerosols and clouds to come and go.

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