

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

Fri Oct 20 16:20:22 GMT 2017

Year: 17 Doy: 293

Observer: waters

WEATHER COMMENT: waters: Fri Oct 20 16:41:35 GMT 2017

Temp 40F with windspeed at about 17-23mph from the Southeast. There's a band of cirrus crossing over the sky in the West and a bit in the South but the sky looks clear.

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

Fri Oct 20 17:19:05 GMT 2017 SGS Alignment complete

Fri Oct 20 17:20:40 GMT 2017 Kcor Focus/alignment program exited

GENERAL COMMENT BY waters: Fri Oct 20 17:25:22 GMT 2017

Cirrus currently impeding data collection this morning, will start up when the sky is clear.

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

GENERAL COMMENT BY waters: Fri Oct 20 17:25:28 GMT 2017

PM Blew off Kcor O1

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

GENERAL COMMENT BY waters: Fri Oct 20 17:25:31 GMT 2017

PM Blew off CoMP O1

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

CoMP COMMENT BY waters: Fri Oct 20 17:59:25 GMT 2017

Since we are not able to take data just yet, Ben is currently taking a look at the CoMP diffuser motor.

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

GENERAL COMMENT BY berkey: Fri Oct 20 19:40:09 GMT 2017

PM Washed Kcor O1

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

Fri Oct 20 19:43:44 GMT 2017 SGS Alignment complete

Fri Oct 20 19:43:50 GMT 2017 Kcor Focus/alignment program exited

Fri Oct 20 19:51:11 GMT 2017 KCOR Start Synoptic Patrol

Fri Oct 20 20:32:39 GMT 2017 KCOR End Patrol

GENERAL COMMENT BY waters: Fri Oct 20 20:32:20 GMT 2017

Pausing to take the diffuser off CoMP.

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

Fri Oct 20 20:38:26 GMT 2017 KCOR Start Synoptic Patrol

Fri Oct 20 20:40:01 GMT 2017 CoMP occulter has been re-centered

Fri Oct 20 20:45:46 GMT 2017 CoMP occulter has been re-centered

Fri Oct 20 20:53:46 GMT 2017 CoMP occulter has been re-centered

Fri Oct 20 20:56:44 GMT 2017 CoMP occulter has been re-centered

Fri Oct 20 20:57:15 GMT 2017 CoMP Start Patrol on cookbook: synoptic-00011.cbk

CoMP COMMENT BY berkey: Fri Oct 20 20:59:29 GMT 2017

With the broken diffuser motor:

The diffuser itself has been removed and the CoMP Observign code has been set to not make any calls to the Diffuser In/Out sub vis.

The cookbooks/menu have been updated to avoid making the call to move opal. New cookbooks: synoptic-00011.cbk and waves-00002.cbk reflect these new calibration free changes.

Hopefully we sort out the motor sooner than later so we can get back to taking calls.

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

CoMP COMMENT BY berkey: Fri Oct 20 21:03:17 GMT 2017

Without the Diffuser in beam the Focus routine cannot function properly (spar motion dominates the brightness signal leading to bad/unproducable results). we should either avoid focusing in the short term. Or the focus will have to be doing slightly manually. The normal lens focus routine can be run to get the graph of the sharpness vs focus position; then the observer must do a visual fit on the graph to find the best focus position. Then on exiting the focus routine the lens can be driving to the best focus position via the focus control on the center occulter sub routine.

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

Fri Oct 20 23:39:26 GMT 2017 COMP End Patrol

Fri Oct 20 23:40:19 GMT 2017 KCOR End Patrol

Fri Oct 20 23:41:19 GMT 2017 SGS Alignment complete

Fri Oct 20 23:41:15 GMT 2017 KCOR Start Synoptic Patrol

Fri Oct 20 23:41:18 GMT 2017 CoMP occulter has been re-centered

Fri Oct 20 23:41:23 GMT 2017 COMP Start Patrol on cookbook: waves-00002.cbk

CoMP COMMENT BY berkey: Sat Oct 21 00:01:39 GMT 2017

As of start of observing today CoMP has been configured to copy fits files to the server as it takes them.

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

\*\*\*\*Possible CME in Progress berkey\*\*\*\* : Sat Oct 21 00:24:32 GMT 2017

Fast CME seen launching near PA:110 at time 23:00. First found with the Found with the sem detection software at 23:00.

Cme not obvious to observers until major images taken at 23:30 (actually seen at 24UT).

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

GENERAL COMMENT BY berkey: Sat Oct 21 00:28:58 GMT 2017

The Comment logger GUI can now submit/send out cme event alerts just like the commandline cmeev tool.

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

CoMP COMMENT BY berkey: Sat Oct 21 00:31:20 GMT 2017

Diffuser and shaft spacer are currently stored on the new flow bench.

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

\*\*\*\*Possible CME in Progress waters\*\*\*\* : Sat Oct 21 00:56:52 GMT 2017

Possible CME seen launching between PA:95-105 at time 23:39UT. This slow moving cme might be part of the previous cme or it may be a new one triggered by that cme. Our kcor CME detection software crashed after spotting the first CME, so we aren't entirely sure.

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

Sat Oct 21 01:13:29 GMT 2017 COMP End Patrol

Sat Oct 21 01:13:29 GMT 2017 COMP Start Patrol on cookbook: synoptic-00011.cbk

Sat Oct 21 02:44:32 GMT 2017 COMP End Patrol

GENERAL COMMENT BY waters: Sat Oct 21 02:45:19 GMT 2017

Dome is starting to block CoMP.

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

Sat Oct 21 02:50:24 GMT 2017 KCOR End Patrol

GENERAL COMMENT BY waters: Sat Oct 21 02:59:21 GMT 2017

A good day. Once the morning cirrus past, the sky was clear with low aerosols. Hope tomorrow brings wonderful weather again.

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