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Mauna Loa Solar Observatory Observer's Log  
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Sat Oct 23 16:46:17 GMT 2021

Year: 21 Doy: 296

Observer: mlso

WEATHER COMMENT BY mcotter: Sat Oct 23 16:49:10 GMT 2021

Temp: 40.6f, Humidity: 23%, Pressure: 28.722in, Wind: 7mph from 157degs, Skies: Heavy rain from Hilo to the Saddle Valley. Thick fog with rain and mist from Saddle Road to approximately 7500' level. Clear skies overhead. Inversion layer visible on the horizon above Haleakala. Light wind from the south-southeast.

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

GENERAL COMMENT BY mcotter: Sat Oct 23 16:56:06 GMT 2021

Opened windows upstairs

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

GENERAL COMMENT BY mcotter: Sat Oct 23 16:56:14 GMT 2021

PM Blew off UCOMP 01

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

GENERAL COMMENT BY mcotter: Sat Oct 23 16:56:23 GMT 2021

PM Blew off Kcor 01

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

UCOMP COMMENT BY mcotter: Sat Oct 23 17:14:31 GMT 2021

Tried starting the Ucomp instrument, but when doing the Occulter Centering the image became immediately over saturated. I put the cover in the beam and am now waiting for the Kcor instrument to get above the dome rim to check and see if the sky is just too bright at this time to run the instruments.

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

Sat Oct 23 17:21:12 GMT 2021 Kcor Focus/alignment program exited

Sat Oct 23 17:22:03 GMT 2021 Running UCOMP Cookbook dark\_80ms\_2beam\_16sums\_BOTH.cbk line 0

Sat Oct 23 17:23:20 GMT 2021 Running UCOMP Cookbook 637\_Scan.cbk line 0

Sat Oct 23 17:25:42 GMT 2021 Running UCOMP Cookbook 656\_Scan.cbk line 0

Sat Oct 23 17:27:40 GMT 2021 Running UCOMP Cookbook 789\_Scan.cbk line 0

Sat Oct 23 17:29:40 GMT 2021 Running UCOMP Cookbook 1074\_Scan.cbk line 0

Sat Oct 23 17:31:41 GMT 2021 Running UCOMP Cookbook 1079\_Scan.cbk line 0

Sat Oct 23 17:33:39 GMT 2021 Running UCOMP Cookbook all\_wavelength\_coronal\_flat.cbk line 0

KCOR COMMENT BY mcotter: Sat Oct 23 17:35:46 GMT 2021

Kcor now running.

SGS offsets: X(RA): 45, Y(Dec): - 8.

Polarization checked good: Mid, Bright, Dark, Mid.

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

KCOR COMMENT BY mcotter: Sat Oct 23 17:36:56 GMT 2021

When checking Kcor polarization I got side tracked and left the polarization filter in the beam for a few minutes.

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

UCOMP COMMENT BY mcotter: Sat Oct 23 17:37:13 GMT 2021

Ucomp now running.

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

GENERAL COMMENT BY mcotter: Sat Oct 23 17:37:36 GMT 2021

The sky is a little bright not the images look good.

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

Sat Oct 23 17:52:39 GMT 2021 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

Sat Oct 23 19:04:58 GMT 2021 Running UCOMP Cookbook dark\_80ms\_2beam\_16sums\_BOTH.cbk line 0

Sat Oct 23 19:06:15 GMT 2021 Running UCOMP Cookbook 637\_Pol\_Calibrate.cbk line 0

Sat Oct 23 19:10:50 GMT 2021 Running UCOMP Cookbook 656\_Pol\_Calibrate.cbk line 0

Sat Oct 23 19:15:03 GMT 2021 Running UCOMP Cookbook 789\_Pol\_Calibrate.cbk line 0

Sat Oct 23 19:19:19 GMT 2021 Running UCOMP Cookbook 1074\_Pol\_Calibrate.cbk line 0

Sat Oct 23 19:23:35 GMT 2021 Running UCOMP Cookbook 1079\_Pol\_Calibrate.cbk line 0

Sat Oct 23 19:27:48 GMT 2021 Running UCOMP Cookbook waves\_1074\_1hour.cbk line 0

GENERAL COMMENT BY mcotter: Sat Oct 23 19:27:54 GMT 2021

The spar looks like it is operating well; I have not observed any oscillations or anomalies so far.

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

Sat Oct 23 20:03:01 GMT 2021 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Sat Oct 23 20:05:21 GMT 2021 Running UCOMP Cookbook waves\_1074\_1hour.cbk line 82  
Sat Oct 23 20:18:17 GMT 2021 KCOR End Calibration Script  
Sat Oct 23 20:25:56 GMT 2021 Running UCOMP Cookbook dark\_200\_1sums\_80ms.cbk line 0  
Sat Oct 23 20:30:55 GMT 2021 Running UCOMP Cookbook all\_wavelength\_coronal\_flat.cbk line 0  
Sat Oct 23 20:50:14 GMT 2021 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0  
Sat Oct 23 22:02:33 GMT 2021 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0  
GENERAL COMMENT BY mcotter: Sat Oct 23 22:08:54 GMT 2021

I went to the restroom and when I returned I saw that the Kcor Stand Alone Image was over exposed. I went to the dome and saw that the spar had tracked into the ladder. I had placed the ladder against center of the north wall, but this area is now in the spars way as it tracks. I realigned the spar and moved the ladder adjacent to the door, so I think this should be fine for now.

I don't believe it could have been misaligned more than a few minutes.

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

Sat Oct 23 22:56:33 GMT 2021 UCOMP Paused for clouds  
GENERAL COMMENT BY mcotter: Sat Oct 23 23:07:37 GMT 2021

Clouds are now starting to form over the observatory, with Orthographic clouds beginning to make their way up the slopes of Maunaloa from the east, north and west. There are clouds visible in the souther sky near the summit of Maunaloa, but so far they have not moved toward the science area. There is little to no wind, so it appears the warming air atop of Maunaloa has created an upward convection, drawing the clouds that have formed at lower elevations upward from all directions.

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

KCOR COMMENT BY mcotter: Sat Oct 23 23:08:09 GMT 2021  
Kcor has been stopped due to clouds in the viewing area.

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

UCOMP COMMENT BY mcotter: Sat Oct 23 23:08:36 GMT 2021  
Ucomp has been paused due to clouds in the viewing area.

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

GENERAL COMMENT BY mcotter: Sat Oct 23 23:36:37 GMT 2021

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

Sat Oct 23 23:44:41 GMT 2021 Kcor Focus/alignment program exited

KCOR COMMENT BY mcotter: Sat Oct 23 23:47:00 GMT 2021

There have been a few gaps in the clouds so I tried to run the Kcor focus routine but the sky is entirely too bright to observe at this time.

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

GENERAL COMMENT BY mcotter: Sun Oct 24 00:25:48 GMT 2021

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

Sun Oct 24 01:02:04 GMT 2021 Kcor Focus/alignment program exited

Sun Oct 24 01:02:19 GMT 2021 UCOMP Restarted from pause

GENERAL COMMENT BY mcotter: Sun Oct 24 01:15:23 GMT 2021

The day started out clear but by midday clouds started forming over the observatory and the sky became quite bright with aerosols.

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

ONSITE STAFF: mcotter