
Mauna Loa Solar Observatory Observer's Log

Wed Oct 20 16:49:07 GMT 2021

Year: 21 Doy: 293

Observer: mlso

WEATHER COMMENT: mcotter: Wed Oct 20 16:51:03 GMT 2021

Temp: 43.3f, Humidity: 27%, Pressure: 28.669in, Wind: 4mph from 229degs, Skies: Clear skies in all directions! Inversion layer visible on the horizon below Haleakala. Light wind out of the southwest. Slightly hazy skies at lower elevations.

____end____

GENERAL COMMENT BY mcotter: Wed Oct 20 17:07:31 GMT 2021

Opened windows upstairs

____end____

GENERAL COMMENT BY mcotter: Wed Oct 20 17:07:38 GMT 2021

PM Blew off UCOMP O1

____end____

GENERAL COMMENT BY mcotter: Wed Oct 20 17:07:44 GMT 2021

PM Blew off Kcor O1

____end____

Wed Oct 20 17:14:14 GMT 2021 Running UCOMP Cookbook dark_80ms_2beam_16sums_BOTH.cbk line 0

Wed Oct 20 17:15:31 GMT 2021 Running UCOMP Cookbook 637_Scan.cbk line 0

Wed Oct 20 17:17:55 GMT 2021 Running UCOMP Cookbook 656_Scan.cbk line 0

Wed Oct 20 17:19:56 GMT 2021 Running UCOMP Cookbook 789_Scan.cbk line 0

Wed Oct 20 17:21:34 GMT 2021 Kcor Focus/alignment program exited

Wed Oct 20 17:21:58 GMT 2021 Running UCOMP Cookbook 1074_Scan.cbk line 0

Wed Oct 20 17:24:02 GMT 2021 Running UCOMP Cookbook 1079_Scan.cbk line 0

UCOMP COMMENT BY mcotter: Wed Oct 20 17:24:37 GMT 2021

Ucomp instrument now running.

____end____

Wed Oct 20 17:26:03 GMT 2021 Running UCOMP Cookbook 1083_Scan.cbk line 0

KCOR COMMENT BY mcotter: Wed Oct 20 17:26:18 GMT 2021

Kcor instrument now running.

SGS offsets: X(RA): 45, Y(Dec): -15.

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

____end____

Wed Oct 20 17:28:05 GMT 2021 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

KCOR COMMENT BY mcotter: Wed Oct 20 17:43:11 GMT 2021

There is a very pronounced bullet hole in the Kcor NRGF image located approximately at PA 245 deg. (they can be observed in other places but this is the worse one). I blew of the Kcor O1, then ble off the Kcor Field Lens for good measure. I will need to wait a little while to see whether this action had any positive improvemnet on the existing situation.

____end____

KCOR COMMENT BY mcotter: Wed Oct 20 17:49:53 GMT 2021

I forgot to mention in my earlier Kcor start up comments that when attempting to run the focus routine Auto-focus command I was able to obtain a well shaped parabola, but only in the backward direction. I ran the Auto-focus command twice and each time the parabola came out backwards. The Focus Position came out at 133.51, so I kept it at that setting and started the Kcor Stand Alone Acquisition program. The NRGF image looks good, but I am unsure why this is happening.

____end____

Wed Oct 20 17:53:13 GMT 2021 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

KCOR COMMENT BY mcotter: Wed Oct 20 17:53:56 GMT 2021

The bullet hole(s) are still present in the NRGF image so the corrective action I attempted to mitigate this problem has not worked. Because of the position of the bullet hole(s) I would recommend cleaning the Kcor 01 at the first opportunity.

____end____

Wed Oct 20 19:18:17 GMT 2021 Running UCOMP Cookbook dark_80ms_2beam_16sums_BOTH.cbk line 0

Wed Oct 20 19:19:34 GMT 2021 Running UCOMP Cookbook 637_Pol_Calibrate.cbk line 0

Wed Oct 20 19:24:13 GMT 2021 Running UCOMP Cookbook 656_Pol_Calibrate.cbk line 0

Wed Oct 20 19:28:30 GMT 2021 Running UCOMP Cookbook 789_Pol_Calibrate.cbk line 0

Wed Oct 20 19:32:57 GMT 2021 Running UCOMP Cookbook 1074_Pol_Calibrate.cbk line 0

Wed Oct 20 19:37:25 GMT 2021 Running UCOMP Cookbook 1079_Pol_Calibrate.cbk line 0

Wed Oct 20 19:41:50 GMT 2021 Running UCOMP Cookbook 1083_Pol_Calibrate.cbk line 0

Wed Oct 20 19:46:15 GMT 2021 Running UCOMP Cookbook waves_1074_1hour.cbk line 0

KCOR COMMENT BY mcotter: Wed Oct 20 20:12:12 GMT 2021

The Kcor NRGF image moves about slightly at the beginning of the day. I believe this movement is attributed to me making adjustments to the spar guider offsets. The X&Y offsets have changed due to the use of the new guider position. The guider position is now physically mounted on the north side of the spar at approximately the level of the spars fulcrum. I was at tempting to get a feel for how the positive and negative offset inputs affect the occulter position as seen in the Kcor St and Alone Image Acquisition GUI.

The X&Y offset inputs now affect the occulter position as follows:

Positive X: occulter moves UP.

Positive Y: occulter moves LEFT.

Negative X: occulter moves DOWN.

Negative Y: occulter moves RIGHT.

____end____

Wed Oct 20 20:16:35 GMT 2021 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Wed Oct 20 20:16:43 GMT 2021 Running UCOMP Cookbook waves_1074_1hour.cbk line 66

Wed Oct 20 20:31:53 GMT 2021 KCOR End Calibration Script

Wed Oct 20 20:44:28 GMT 2021 Running UCOMP Cookbook dark_200_1sums_80ms.cbk line 0

Wed Oct 20 20:49:28 GMT 2021 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Wed Oct 20 21:14:59 GMT 2021 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

WEATHER COMMENT: mcotter: Wed Oct 20 21:39:40 GMT 2021

Temp: 57.5f, Humidity: 13%, Pressure: 28.678in, Wind: 9mph from 298degs, Skies: The skies continue to be beautifully clear !

____end____

GENERAL COMMENT BY mcotter: Wed Oct 20 21:42:38 GMT 2021

Ben showed me how to capture SGS Engineering RA & Dec trace values and how to put them into a file on the desktop, so that they may be accessed later for reference.

____end____

Wed Oct 20 22:40:01 GMT 2021 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Thu Oct 21 00:04:38 GMT 2021 Running UCOMP Cookbook dark_80ms_2beam_16sums_BOTH.cbk line 0

Thu Oct 21 00:05:55 GMT 2021 Running UCOMP Cookbook 1074_Pol_Calibrate.cbk line 0

Thu Oct 21 00:10:30 GMT 2021 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Thu Oct 21 00:11:31 GMT 2021 Kcor Focus/alignment program exited

KCOR COMMENT BY mcotter: Thu Oct 21 00:12:35 GMT 2021

Kcor has been stopped due to the sky being very bright.

____end____

Thu Oct 21 00:35:49 GMT 2021 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Thu Oct 21 01:17:11 GMT 2021 Kcor Focus/alignment program exited

Thu Oct 21 01:17:58 GMT 2021 UCoMP Paused for clouds

Thu Oct 21 01:18:26 GMT 2021 UCoMP Restarted from pause

UCoMP COMMENT BY mcotter: Thu Oct 21 01:21:56 GMT 2021

Ucomp instrument has been stopped due to bright skies.

____end____

GENERAL COMMENT BY mcotter: Thu Oct 21 01:54:47 GMT 2021

I tried a couple of times to go back on sky but the sky has remained entirely too bright to do so.

____end____

UCoMP COMMENT BY mcotter: Thu Oct 21 03:00:03 GMT 2021

I removed the Ucomp 01 lens from the instrument and cleaned it repeatedly using only deionized water, as per Ben's instruction. I spot dry the lens frame to absorb any residual water that may have clung to the frame. After cleaning I put the lens into the horizontal nest fixture and left it inside the Cleatech HEPA table and left the fan on to help mitigate dust from falling on the lens and to assist in drying the lens frame.

____end____

GENERAL COMMENT BY mcotter: Thu Oct 21 03:01:15 GMT 2021

Good day to collect data with clear skies for most of the day. The sky became too bright to collect data around 3:30pm HST

____end____

ON SITE STAFF: mcotter