
Mauna Loa Solar Observatory Observer's Log

Wed Sep 21 17:03:22 GMT 2022

Year: 22 Doy: 264

Observer: mcotter

Wed Sep 21 17:10:13 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Wed Sep 21 17:11:23 GMT 2022 Kcor Focus/alignment program exited

WEATHER COMMENT: mcotter: Wed Sep 21 17:13:51 GMT 2022

Temp: 51.3f, Humidity: 9%, Pressure: 28.585in, Wind: 7mph from 159 degs. Clear but hazy skies in all directions. Lower level clouds all around the horizon with no discernible inversion layer. Light steady winds from the Southeast.

____end____

GENERAL COMMENT BY mcotter: Wed Sep 21 17:13:57 GMT 2022

Opened windows upstairs

____end____

GENERAL COMMENT BY mcotter: Wed Sep 21 17:14:03 GMT 2022

PM Blew off UCOMP 01

____end____

GENERAL COMMENT BY mcotter: Wed Sep 21 17:14:10 GMT 2022

PM Blew off Kcor 01

____end____

GENERAL COMMENT BY mcotter: Wed Sep 21 17:18:09 GMT 2022

PM Blew off Kcor Field Lens.

____end____

Wed Sep 21 17:31:04 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Wed Sep 21 18:09:33 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

KCOR COMMENT BY mcotter: Wed Sep 21 18:39:25 GMT 2022

So far this morning none of the fringing pattern which were quite prevalent in the Kcor NRGF images yesterday are present.

It appears that the cleaning of the Kcor 01 yesterday helped the data images considerably.

____end____

Wed Sep 21 18:43:14 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 18

Wed Sep 21 18:48:33 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Wed Sep 21 19:27:44 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 21

Wed Sep 21 19:27:45 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Wed Sep 21 19:48:21 GMT 2022 Running UCOMP Cookbook waves_1074_1hour.cbk line 0

****Possible CME in Progress reported by mcotter**** : Wed Sep 21 20:06:19 GMT 2022

TIME: 19:18:07 UT

PA: 290 deg

WIDTH: 10 deg

Observer reports with Medium confidence a CME at the time, position angle, and width noted.

This CME event appears very faint and was identified using both the Kcor NRGF and Kcor Diff images. Also, the Kcor NRGF video cadence speed was increased dramatically to help in identifying this event.

____end____

Wed Sep 21 20:11:32 GMT 2022 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Wed Sep 21 20:14:02 GMT 2022 Running UCOMP Cookbook waves_1074_1hour.cbk line 44

Wed Sep 21 20:16:50 GMT 2022 UCOMP Paused for clouds

Wed Sep 21 20:17:48 GMT 2022 UCOMP Restarted from pause

Wed Sep 21 20:18:00 GMT 2022 UCOMP Paused for clouds

Wed Sep 21 20:18:29 GMT 2022 UCOMP Restarted from pause

Wed Sep 21 20:26:43 GMT 2022 KCOR End Calibration Script

Wed Sep 21 20:34:46 GMT 2022 Running UCOMP Cookbook waves_1074_1hour.cbk line 50

Wed Sep 21 20:37:15 GMT 2022 Kcor Focus/alignment program exited

Wed Sep 21 20:46:11 GMT 2022 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Wed Sep 21 21:01:25 GMT 2022 KCOR End Calibration Script

GENERAL COMMENT BY mcotter: Wed Sep 21 21:13:32 GMT 2022

After making an occulter adjustment to the Ucomp occulter the controller image came back up and there was a lot of light saturating the image. I engaged the Clouds button to pause Ucomp and went to the dome to see if there was an obstruction to the light path t

hat would account for this and to make sure that the Spar was in the correct position using the Spar target; both looked fine. I came back to the control room and restarted Ucomp, but the condition was now worse. I turned off the "Run Cookbook" and put the Cover and Shutter in the beam. Also, during this anomaly going on with Ucomp the Kcor instrument was in the middle of a calibration, so I could not see what was happening with Kcor until the calibration ended. When it ended the images were completely saturated with light. I put the Lens Cover into the beam and stopped the Kcor Controller program. I have not encountered this before so I called Ben. Ben told me to verify the position of the Ucomp 01 and filter wheel; both appeared to be in the correct position. Ben instructed me to go to the SGS desktop and open an icon called "sgsBestGuess". When this GUI opened it stated that the approximate position for the RA and Dec should be at Y(Dec) 39 and X(RA) 61. Looking at the SGS X&Y values the fields showed both of these values to be off (Y by approximately 4.0 and X by approximately 20.0). I manually updated these values, then I went to the Kcor desktop and shut down the controller and closed Socket Cam. I started the Kcor Focus Routine and with the lens cover in I could see where the occulter was off and light spilling in, but after the updates to the SGS X&Y fields the occulter appeared to be centering until the GUI was completely black. When I took the lens cover out the occulter was perfectly centered. I turned Ucomp back on and the controller images looked good with a well centered occulter. I shut down the Kcor Focus routine without running another focus and restarted the Kcor controller and again the level 0 images looked good.

The position updates being sent to Kcor somehow became corrupted and Kcor was sent the wrong updates.

I have re-run the Kcor calibration, as I believe the first calibration was possibly corrupted.

This anomaly started happening at approximately 10:20am HST.

____end____

KCOR COMMENT BY mcotter: Wed Sep 21 21:16:37 GMT 2022

Some fringing can be seen on the East side of the Kcor NRGF images starting at approximately 18:24:01 UT.

____end____

Wed Sep 21 21:18:19 GMT 2022 Running UCOMP Cookbook dark_80ms_2beam_16sums_BOTH.cbk line 0

Wed Sep 21 21:19:36 GMT 2022 Running UCOMP Cookbook 637_Pol_Calibrate.cbk line 0

Wed Sep 21 21:23:40 GMT 2022 Running UCOMP Cookbook 706_Pol_Calibrate.cbk line 0

Wed Sep 21 21:27:44 GMT 2022 Running UCOMP Cookbook 789_Pol_Calibrate.cbk line 0

Wed Sep 21 21:31:57 GMT 2022 Running UCOMP Cookbook 1074_Pol_Calibrate.cbk line 0

Wed Sep 21 21:36:01 GMT 2022 Running UCOMP Cookbook 1079_Pol_Calibrate.cbk line 0

Wed Sep 21 21:40:06 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Wed Sep 21 22:18:27 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Wed Sep 21 22:39:00 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

GENERAL COMMENT BY mcotter: Wed Sep 21 23:13:32 GMT 2022

Orographic clouds have moved into the science area and aerosols are getting high.

The instruments have been stopped.

____end____

GENERAL COMMENT BY mcotter: Wed Sep 21 23:18:46 GMT 2022

Good morning for collecting data. Aerosols and clouds came into the area in the early afternoon.

____end____

ONSITE STAFF: