
Mauna Loa Solar Observatory Observer's Log

Fri Jun 24 16:58:44 GMT 2022

Year: 22 Doy: 175

Observer: mlso

Fri Jun 24 17:01:42 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Fri Jun 24 17:02:19 GMT 2022 Kcor Focus/alignment program exited

Fri Jun 24 17:05:39 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 2

WEATHER COMMENT: mcotter: Fri Jun 24 17:15:19 GMT 2022

Temp: 47.0f, Humidity: 7%, Pressure: 28.653in, Wind: 8mph from 83deg, Skies: Clear but slightly hazy skies. The inversion layer is visible on the horizon at or just below Ha leakala. Light wind from the east.

____end____

Fri Jun 24 17:19:48 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

GENERAL COMMENT BY mcotter: Fri Jun 24 17:42:57 GMT 2022

Opened windows upstairs

____end____

GENERAL COMMENT BY mcotter: Fri Jun 24 17:43:05 GMT 2022

PM Blew off UCOMP 01

____end____

GENERAL COMMENT BY mcotter: Fri Jun 24 17:43:11 GMT 2022

PM Blew off Kcor 01

____end____

GENERAL COMMENT BY mcotter: Fri Jun 24 17:43:30 GMT 2022

The Kcor instrument is now observing.

____end____

KCOR COMMENT BY mcotter: Fri Jun 24 17:43:52 GMT 2022

The Kcor instrument is now observing.

____end____

UCOMP COMMENT BY mcotter: Fri Jun 24 17:44:41 GMT 2022

The Ucomp instrument is now observing.

____end____

GENERAL COMMENT BY mcotter: Fri Jun 24 17:46:04 GMT 2022

PM Blew off Kcor Field Lens.

A small particle was observed in the area of PA 180 deg. The Kcor Field lens was blown off and it is now removed from the images.

____end____

Fri Jun 24 17:47:35 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

****Possible CME in Progress mcotter**** : Fri Jun 24 17:51:52 GMT 2022

Observer reports with Medium confidence a CME seeing launching near PA 250 deg, with a minimum width of 15 deg. The event is in its early stage and was already in progress when observations began.

____end____

****Possible CME in Progress mcotter**** : Fri Jun 24 17:54:57 GMT 2022

A CME was reported with the Automatic Detection Code which was wrong. There was a particle on the Kcor Field Lens that was blown off that triggered the detection.

Please disregard the CME alert sent out for 17:22:51 UT.

____end____

Fri Jun 24 18:15:03 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Fri Jun 24 18:42:32 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Fri Jun 24 18:57:44 GMT 2022 Running UCOMP Cookbook waves_1074_1hour.cbk line 0

Fri Jun 24 20:07:33 GMT 2022 Running UCOMP Cookbook dark_80ms_2beam_16sums_BOTH.cbk line 0

Fri Jun 24 20:08:50 GMT 2022 Running UCOMP Cookbook 637_Pol_Calibrate.cbk line 0

Fri Jun 24 20:12:53 GMT 2022 Running UCOMP Cookbook 706_Pol_Calibrate.cbk line 0

Fri Jun 24 20:16:56 GMT 2022 Running UCOMP Cookbook 789_Pol_Calibrate.cbk line 0

Fri Jun 24 20:21:01 GMT 2022 Running UCOMP Cookbook 1074_Pol_Calibrate.cbk line 0

Fri Jun 24 20:25:14 GMT 2022 Running UCOMP Cookbook 1079_Pol_Calibrate.cbk line 0

Fri Jun 24 20:29:17 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Fri Jun 24 20:45:35 GMT 2022 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Fri Jun 24 20:57:25 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Fri Jun 24 21:00:49 GMT 2022 KCOR End Calibration Script

Fri Jun 24 21:12:46 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

WEATHER COMMENT: mcotter: Fri Jun 24 21:20:31 GMT 2022

Aerosols are gradually increasing at this time. The Level 0 Kcor Synoptic images are beginning to lighten from the center of the image adjacent to the coronal ring outwards. The Kcor Quicklook image readily shows aerosols traversing the overall image as the aerosols increase over time. The Kcor NRGF image also shows increasing aerosols by becoming gradually more grainy on the outer perimeter of the overall image. Eventually the Kcor NRGF will show heavy aerosol by becoming very grainy along the outer perimeter of the overall image and the center of the image closer to the occulter disk appears flat looking and slightly out of focus.

____end____

Fri Jun 24 21:41:04 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Fri Jun 24 22:08:31 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Fri Jun 24 22:27:34 GMT 2022 UCOMP Paused for clouds

Fri Jun 24 22:34:02 GMT 2022 UCOMP Restarted from pause

Fri Jun 24 22:38:03 GMT 2022 UCOMP Paused for clouds

Fri Jun 24 22:57:32 GMT 2022 UCOMP Restarted from pause

Fri Jun 24 23:01:45 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

GENERAL COMMENT BY mcotter: Fri Jun 24 23:26:11 GMT 2022

Michael Galloy is visiting the Mauna Loa Solar Observatory today to witness and familiarize himself with Observatory/Instrument operations. We both arrived at dawn and I went through all the operations of opening the Observatory and getting the instruments operating, on sky and observing. Once we got the Kcor and Ucomp instrument operating and observing we went over the various aspects of the observatory. A full tour of the various areas of the observatory was performed and then we went over the scheduled observatory refurbishment that is to take place later this summer and the improvement to be made.

Later in the morning Joan, Ben Mike and myself had a video conference to take advantage of Mike being onsite and his input to improve process's. Dashboard changes and improvements were discussed, as well as the upcoming SHINE conference. On point of discussion to be noted was a method for improving CME alerts and retractions. This morning a dust particle was found located on the Kcor 01 field lens that triggered an automated CME alert when it was blown off and removed with compressed deionized air. When we saw the Automated CME alert we sent out a retraction describing what had taken place. Joan, Ben and Mike discussed methods for improving these announcement methods.

____end____

GENERAL COMMENT BY mcotter: Fri Jun 24 23:28:21 GMT 2022

The day started off fairly clear but slightly hazy. By mid morning aerosol levels began to climb making them noticeable in the images. By late morning early afternoon Orographic clouds blew up from the Saddle Valley to the north and with an hour the entire sky was overcast with ground level fog in various areas.

____end____

ONSITE STAFF: mcotter, Mike