
Mauna Loa Solar Observatory Observer's Log

Sat Jun 4 16:36:56 GMT 2022

Year: 22 Doy: 155

Observer: mlso

WEATHER COMMENT: mcotter: Sat Jun 04 16:38:04 GMT 2022

Temp: 47.9f, Humidity: 24%, Pressure: 28.648in, Wind: 5mph from 148deg, Skies: Clear skies in all directions. A blue gray inversion layer is visible on the horizon just below Hu'alalai. Little to no wind.

____end____

GENERAL COMMENT BY mcotter: Sat Jun 04 16:38:29 GMT 2022

Opened windows upstairs

____end____

GENERAL COMMENT BY mcotter: Sat Jun 04 16:38:43 GMT 2022

PM Blew off UCOMP 01

____end____

GENERAL COMMENT BY mcotter: Sat Jun 04 16:38:51 GMT 2022

PM Blew off Kcor 01

____end____

Sat Jun 04 16:42:09 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Sat Jun 04 16:49:18 GMT 2022 Kcor Focus/alignment program exited

KCOR COMMENT BY mcotter: Sat Jun 04 16:50:02 GMT 2022

Kcor instrument now observing.

____end____

UCOMP COMMENT BY mcotter: Sat Jun 04 16:50:29 GMT 2022

Ucomp instrument now observing.

____end____

Sat Jun 04 16:57:38 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Sat Jun 04 17:25:23 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

****Possible CME in Progress mcotter**** : Sat Jun 04 17:43:40 GMT 2022

Observers report with MEDIUM confidence a CME seeing launching near PA 270 deg with a minimum width of 10 deg at UT time 16:52:07. This event was already in progress at the start of observing and was identified using a combination of Kcor NRGF and Kcor Diff Images.

____end____

Sat Jun 04 17:53:21 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Sat Jun 04 18:20:57 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Sat Jun 04 18:36:07 GMT 2022 Running UCOMP Cookbook waves_1074_1hour.cbk line 0

Sat Jun 04 19:45:54 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Sat Jun 04 20:07:11 GMT 2022 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

WEATHER COMMENT: mcotter: Sat Jun 04 20:09:42 GMT 2022

The sky has some high altitude Cirrus in the south-southwest sky that appears to be moving toward the observatory. So far the sky remains clear and conditions are good, but I will continue to monitor the clouds and watch for any "Brightening" of sky conditions.

____end____

Sat Jun 04 20:14:21 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Sat Jun 04 20:22:25 GMT 2022 KCOR End Calibration Script

Sat Jun 04 20:29:32 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Sat Jun 04 20:57:37 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

GENERAL COMMENT BY mcotter: Sat Jun 04 21:22:12 GMT 2022

Aerosols are beginning to pick up and the sky is starting to get a little bright.

As I look at the Kcor Synoptic images the center of the image adjacent to the coronal ring is beginning to brighten and the image appears to brighten from the center outward.

As I mentioned in the log earlier this week, when the sky brightens while observing with Kcor it presents itself in two distinct manners:

- 1) Brightening from the center outwards, appearing that the coronal ring is brightening and getting larger.
- 2) The background begins to brighten turning from a dark background, through many shades of gray eventually becoming very light gray or a dark white, all the while maintaining a relatively distinct intact coronal ring until the background washes out the coronal ring.

____end____

Sat Jun 04 21:25:03 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Sat Jun 04 21:44:34 GMT 2022 UCOMP Paused for clouds

WEATHER COMMENT: mcotter: Sat Jun 04 21:47:28 GMT 2022

Orographic clouds have moved into the viewing area with the addition of increasing high altitude Cirrus and Cirrostratus clouds.

____end____

KCOR COMMENT BY mcotter: Sat Jun 04 21:48:18 GMT 2022

Kcor has been stopped due to cloud coverage in the viewing area.

____end____

UCOMP COMMENT BY mcotter: Sat Jun 04 21:48:52 GMT 2022

Ucomp has been paused due to clouds in the viewing area.

____end____

****EVENT COMMENT BY mcotter**** : Sat Jun 04 22:00:19 GMT 2022

A very well defined protrusion has been observed emanating from the southwest quadrant of the Sun (approximate PA 135 deg), beginning at approximately 17:50:01 UT. Unfortunately due to clouds in the viewing area observations were paused at approximately 21:48:00. As soon as the viewing area clears observations will continue.

____end____

WEATHER COMMENT: mcotter: Sat Jun 04 23:14:24 GMT 2022

The sky has gotten quite overcast with Orographic clouds as well as aerosols moving up from lower elevations. Wisps of fog and mist are beginning to blow through the science area, blowing up from the Saddle Valley.

____end____

GENERAL PROBLEM COMMENT BY mcotter : Sat Jun 04 23:15:55 GMT 2022

The dome shutter doors and windows have been closed due to overcast skies and fog in the science area.

____end____

Sun Jun 05 00:02:36 GMT 2022 UCOMP Restarted from pause

GENERAL COMMENT BY mcotter: Sun Jun 05 00:05:22 GMT 2022

The day began with clear skies in all directions. By late morning some high altitude Cirrus was observed on the south-southwest skies. In the early afternoon Orographic clouds blew up from the Saddle Valley and shortly later fog and mist arrived in the science area.

____end____

ONSITE STAFF: mcotter