
Mauna Loa Solar Observatory Observer's Log

Mon Sep 5 16:34:41 GMT 2022

Year: 22 Doy: 248

Observer: mlso

WEATHER COMMENT: mcotter: Mon Sep 05 16:47:14 GMT 2022

Temp: 47.7f, Humidity: 10%, Pressure: 28.616in, Wind: 14mph from 175 degs. Clouds with rain and mist from Hilo to approximately 10,000' elevation. Clouds on the eastern horizon are above the level of the observatory with clouds blowing across the summit of Maunaloa. Clear skies overhead as strong gusty winds are keeping the clouds to the east of the observatory. No discernible inversion layer is visible as clouds are scattered across the sky in all directions at different levels.

____end____

GENERAL COMMENT BY mcotter: Mon Sep 05 16:47:32 GMT 2022

Opened windows upstairs

____end____

GENERAL COMMENT BY mcotter: Mon Sep 05 16:47:38 GMT 2022

PM Blew off UCOMP 01

____end____

GENERAL COMMENT BY mcotter: Mon Sep 05 16:47:48 GMT 2022

PM Blew off Kcor 01

____end____

Mon Sep 05 17:13:15 GMT 2022 Kcor Focus/alignment program exited

GENERAL COMMENT BY mcotter: Mon Sep 05 17:14:24 GMT 2022

An attempt was made to start the instruments but wisps of Cirrus are visible on the Eastern Sky in the viewing area and making the sky too bright to observe at this time.

____end____

Mon Sep 05 17:32:22 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Mon Sep 05 17:33:07 GMT 2022 Kcor Focus/alignment program exited

WEATHER COMMENT: mcotter: Mon Sep 05 17:34:12 GMT 2022

The clouds that were obstructing viewing earlier have receded and the sky is now clear to observe.

____end____

KCOR COMMENT BY mcotter: Mon Sep 05 17:34:28 GMT 2022

Kcor now observing.

____end____

UCOMP COMMENT BY mcotter: Mon Sep 05 17:34:44 GMT 2022

Ucomp now observing.

____end____

Mon Sep 05 17:53:14 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Mon Sep 05 18:31:44 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Mon Sep 05 19:09:45 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

GENERAL COMMENT BY mcotter: Mon Sep 05 19:10:06 GMT 2022

PM Blew off Kcor Field Lens.

When observing the Kcor NRGF images a small artifact in the Southeast quadrant, at approximately 125 degs., appeared like dust on the Field Lens.

The artifact is now gone, so blowing off the Field Lens has removed the debris in the light path.

____end____

Mon Sep 05 19:47:49 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Mon Sep 05 20:08:24 GMT 2022 Running UCOMP Cookbook waves_1074_1hour.cbk line 0

Mon Sep 05 20:17:03 GMT 2022 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Mon Sep 05 20:32:17 GMT 2022 KCOR End Calibration Script

Mon Sep 05 21:18:51 GMT 2022 Running UCOMP Cookbook dark_80ms_2beam_16sums_BOTH.cbk line 0

Mon Sep 05 21:20:08 GMT 2022 Running UCOMP Cookbook 637_Pol_Calibrate.cbk line 0

****Possible CME in Progress reported by mcotter**** : Mon Sep 05 21:20:17 GMT 2022

TIME: 18:58:08 UT PA: 90 deg WIDTH: 20 deg

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

This CME appears very faint in the Kcor NRGF Images and was identified using the both the Kcor NRGF and Kcor Diff images together.

____end____

Mon Sep 05 21:24:12 GMT 2022 Running UCOMP Cookbook 706_Pol_Calibrate.cbk line 0
Mon Sep 05 21:28:16 GMT 2022 Running UCOMP Cookbook 789_Pol_Calibrate.cbk line 0
Mon Sep 05 21:32:22 GMT 2022 Running UCOMP Cookbook 1074_Pol_Calibrate.cbk line 0
Mon Sep 05 21:36:35 GMT 2022 Running UCOMP Cookbook 1079_Pol_Calibrate.cbk line 0
Mon Sep 05 21:40:39 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0
WEATHER COMMENT: mcotter: Mon Sep 05 21:53:42 GMT 2022
Orographic clouds are beginning to come up from the Saddle Valley and are beginning to enter the science area. The viewing area is still clear but aerosols are getting heavy.
____end____
Mon Sep 05 22:00:08 GMT 2022 UCOMP Paused for clouds
WEATHER COMMENT: mcotter: Mon Sep 05 22:00:18 GMT 2022
Orographic clouds have entered the viewing area and are now over the observatory.
____end____
GENERAL COMMENT BY mcotter: Mon Sep 05 22:00:44 GMT 2022
Both instruments have been stopped due to poor sky conditions.
____end____
GENERAL COMMENT BY mcotter: Mon Sep 05 22:49:35 GMT 2022
While in the dome area the dome was rotated back and forth to see if anything was loose on the dome drive, as reported by Lisa this past week. I saw that the mounting plate that the dome drive motor mounts to was moving when directions were changed. I tightened down the two main hold down nuts and applied Thread Locker to the threads to inhibit vibration loosening. The mechanism seems tight now and there was no movement to the motor mounting plate when the dome was rotated or reversed.
____end____
Mon Sep 05 23:00:14 GMT 2022 UCOMP Restarted from pause
GENERAL COMMENT BY mcotter: Mon Sep 05 23:00:24 GMT 2022
Instruments are again observing, though aerosols are heavy.
____end____
Mon Sep 05 23:41:07 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 21
Mon Sep 05 23:41:08 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0
Mon Sep 05 23:41:59 GMT 2022 UCOMP Paused for clouds
Mon Sep 05 23:45:27 GMT 2022 UCOMP Restarted from pause
WEATHER COMMENT: mcotter: Mon Sep 05 23:47:22 GMT 2022
Aerosols are increasing dramatically and bits of rogue clouds are frequently entering and exiting the viewing area.
____end____
WEATHER COMMENT: mcotter: Tue Sep 06 00:04:44 GMT 2022
Clouds are beginning to enter the viewing area again and aerosols are very high. Instruments have been stopped.
____end____
GENERAL COMMENT BY mcotter: Tue Sep 06 00:13:55 GMT 2022
Surprisingly good morning despite all the clouds that were around the summit of Maunaloa. Orographic clouds and heavy aerosols began to pick up in late morning early afternoon.
____end____
ONSITE STAFF: mcotter