
Mauna Loa Solar Observatory Observer's Log

Tue Jun 7 16:34:47 GMT 2022

Year: 22 Doy: 158

Observer: mcotter

WEATHER COMMENT: mcotter: Tue Jun 07 16:37:12 GMT 2022

Temp: 47.1f, Humidity: 19%, Pressure: 28.638in, Wind: 10mph from 163degs, Skies: Clear but hazy skies. The inversion layer is visible on the horizon just below Hu'ala'lai. Winds are cold and steady from the southeast.

____end____

GENERAL COMMENT BY mcotter: Tue Jun 07 16:37:23 GMT 2022

PM Blew off UCOMP 01

____end____

GENERAL COMMENT BY mcotter: Tue Jun 07 16:37:34 GMT 2022

PM Blew off Kcor 01

____end____

GENERAL COMMENT BY mcotter: Tue Jun 07 16:38:05 GMT 2022

PM Blew off Kcor Field Lens.

____end____

Tue Jun 07 16:40:55 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Tue Jun 07 16:52:30 GMT 2022 Kcor Focus/alignment program exited

KCOR COMMENT BY mcotter: Tue Jun 07 16:53:05 GMT 2022

Kcor is now observing.

____end____

UCOMP COMMENT BY mcotter: Tue Jun 07 16:53:24 GMT 2022

Ucomp is now observing.

____end____

Tue Jun 07 16:56:24 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Tue Jun 07 17:24:20 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Tue Jun 07 17:51:47 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Tue Jun 07 18:19:15 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Tue Jun 07 18:34:35 GMT 2022 Running UCOMP Cookbook waves_1074_1hour.cbk line 0

Tue Jun 07 19:44:24 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Tue Jun 07 20:12:11 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Tue Jun 07 20:22:35 GMT 2022 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Tue Jun 07 20:27:32 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Tue Jun 07 20:37:49 GMT 2022 KCOR End Calibration Script

WEATHER COMMENT: mcotter: Tue Jun 07 20:46:56 GMT 2022

So far there are no clouds on the horizon and the wind has calmed down a bit. VOG can be observed in the distance at lower elevations and the sky in all directions has a light haze.

____end____

Tue Jun 07 20:55:19 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

KCOR COMMENT BY mcotter: Tue Jun 07 21:02:12 GMT 2022

The Kcor-Stand Alone Acquisition Synoptic images look very good, i.e. dark black background with a well defined sharp bright white coronal ring. Though the K-cor synoptic images look quite good the Kcor NRGF image is beginning to show signs of increasing aerosols, i.e. grainy appearance on the outer perimeter with softening less focused center area adjacent occulter shadow. I am unsure why this is happening because typically as the Kcor NRGF image gets poorer in quality the Kcor synoptic images also become poorer by growing brighter in appearance. The appearance of the Kcor Quicklook image is also showing elevated aerosols by getting a little blurry and less defined.

____end____

Tue Jun 07 21:23:07 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Tue Jun 07 21:50:43 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Tue Jun 07 22:05:54 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Tue Jun 07 22:33:40 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

GENERAL COMMENT BY mcotter: Tue Jun 07 22:50:10 GMT 2022

This morning I set the dome slit auto advance control to rotate in the CCW direction to see if it would advance correctly and follow the Sun on it's own. So far so good!

It is at this time (approximately 12:40pm HST) that I have been going to the dome to ma

nually rotate the dome slit because the controls have been getting confused and not tracking correctly after the Sun reaches zenith.

I'll further comment at the end of day if the dome slit has tracked correctly all day or not.

____end____

Tue Jun 07 23:01:07 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Tue Jun 07 23:28:44 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Tue Jun 07 23:43:54 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

GONG PROBLEM COMMENT BY mcotter : Wed Jun 08 00:06:20 GMT 2022

I opened the GONG trailer door as the temp has been increasing and it is now in the yellow.

NOTE : One of the circulation fans has apparently died. I tried the fan on several different settings and also tried plugging it into a different receptacle, but I was unable to get it to work. I took a photo of the fan and will email the GONG support team to let them know.

____end____

Wed Jun 08 00:11:40 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

WEATHER COMMENT: mcotter: Wed Jun 08 00:14:10 GMT 2022

Orographic clouds have come up from the south and west and are now in the vicinity of the science area. Additionally, aerosols are continuing to increase as the Kcor Synoptic images have brightened up a bit, though they still look fairly good. The Kcor NRGF images continue to show elevated aerosols and the images appear a little grainy.

____end____

Wed Jun 08 00:39:19 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

WEATHER COMMENT: mcotter: Wed Jun 08 00:55:20 GMT 2022

Aerosols continue to rise, but so far the clouds to the south and west continue to stay away from the observatory and the viewing area.

____end____

Wed Jun 08 01:06:57 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Wed Jun 08 01:22:07 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Wed Jun 08 01:50:13 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Wed Jun 08 02:17:40 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Wed Jun 08 02:45:07 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

GENERAL COMMENT BY mcotter: Wed Jun 08 02:52:44 GMT 2022

The dome slit has continued to track the Sun all afternoon with no mishaps or problems. Going forward we should put the dome controls in "Auto" & "CCW", until the Sun is in its southerly decent across the horizon; probably sometime mid August.

____end____

Wed Jun 08 03:00:17 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

GENERAL COMMENT BY mcotter: Wed Jun 08 03:22:57 GMT 2022

Emptied all the trash receptacles in the observatory.

Changed the tack mats in the dome vestibule and the clean room.

Filled the clean water reservoir and emptied the waste water container under the sink.

____end____

GENERAL COMMENT BY mcotter: Wed Jun 08 03:35:41 GMT 2022

Aerosols picked up in the early afternoon, but other than that the skies were beautiful and clear all day!

____end____

ONSITE STAFF: