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Mauna Loa Solar Observatory Observer's Log  
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Tue Jul 12 16:40:32 GMT 2022

Year: 22 Doy: 193

Observer: mcotter

WEATHER COMMENT: mcotter: Tue Jul 12 16:48:20 GMT 2022

Temp: 49.4f, Humidity: 3%, Pressure: 28.588in, Wind: 7mph from 136 degs. Fog and mist in the Saddle Valley with Stratus clouds up to approximately 7500' elevation. Clear but hazy skies overhead with the inversion layer appearing a very dark gray blue and positioned just below Haleakala. Light steady wind from the southeast. The clouds and storms that were approaching the Islands from the west have swung north so far missing the Big Island, though the hurricane to the east-southeast continues to move toward the Hawaiian Islands.

\_\_\_\_end\_\_\_\_

GENERAL COMMENT BY mcotter: Tue Jul 12 16:48:25 GMT 2022

Opened windows upstairs

\_\_\_\_end\_\_\_\_

GENERAL COMMENT BY mcotter: Tue Jul 12 16:48:33 GMT 2022

PM Blew off UCOMP 01

\_\_\_\_end\_\_\_\_

GENERAL COMMENT BY mcotter: Tue Jul 12 16:48:38 GMT 2022

PM Blew off Kcor 01

\_\_\_\_end\_\_\_\_

Tue Jul 12 16:55:57 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal\_flat.cbk line 0

UCOMP COMMENT BY mcotter: Tue Jul 12 16:56:14 GMT 2022

Ucomp instrument now observing.

\_\_\_\_end\_\_\_\_

Tue Jul 12 16:57:04 GMT 2022 Kcor Focus/alignment program exited

Tue Jul 12 17:11:08 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

Tue Jul 12 17:39:26 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

Tue Jul 12 18:07:13 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

Tue Jul 12 18:34:39 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal\_flat.cbk line 0

KCOR COMMENT BY mcotter: Tue Jul 12 18:39:16 GMT 2022

Kcor instrument now observing.

\_\_\_\_end\_\_\_\_

KCOR COMMENT BY mcotter: Tue Jul 12 18:40:23 GMT 2022

The previous log item was from first thing this morning but I failed to post it to the log in a timely manner.

\_\_\_\_end\_\_\_\_

Tue Jul 12 18:49:51 GMT 2022 Running UCOMP Cookbook waves\_1074\_1hour.cbk line 0

KCOR COMMENT BY mcotter: Tue Jul 12 18:55:26 GMT 2022

Ben has compiled a folder with Kcor NRGF File Images taken with and without the "Contrast Enhancement" that Joan has developed. I reviewed many of the before and after file images, as per Ben's instructions, and can state unequivocally that the Contrast Enhanced Images are far superior in image clarity. When an observer collects data it is sometimes difficult to look at the images and differentiate subtle, poorly defined components within the images. With the Contrast Enhanced Images everything appears much clearer and more easily to identify.

I would strongly recommend using this method in the future to further the ability of the observer to identify the fine detail or subtle activity within the images.

\_\_\_\_end\_\_\_\_

Tue Jul 12 19:59:49 GMT 2022 Running UCOMP Cookbook dark\_80ms\_2beam\_16sums\_BOTH.cbk line 0

Tue Jul 12 20:01:06 GMT 2022 Running UCOMP Cookbook 637\_Pol\_Calibrate.cbk line 0

Tue Jul 12 20:05:09 GMT 2022 Running UCOMP Cookbook 706\_Pol\_Calibrate.cbk line 0

Tue Jul 12 20:09:13 GMT 2022 Running UCOMP Cookbook 789\_Pol\_Calibrate.cbk line 0

Tue Jul 12 20:13:26 GMT 2022 Running UCOMP Cookbook 1074\_Pol\_Calibrate.cbk line 0

Tue Jul 12 20:17:38 GMT 2022 Running UCOMP Cookbook 1079\_Pol\_Calibrate.cbk line 0

Tue Jul 12 20:22:09 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

Tue Jul 12 20:26:33 GMT 2022 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Tue Jul 12 20:41:43 GMT 2022 KCOR End Calibration Script

Tue Jul 12 20:50:01 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal\_flat.cbk line 0

WEATHER COMMENT: mcotter: Tue Jul 12 20:57:18 GMT 2022

The skies continue to remain clear but aerosols have increased, as can be observed in the Kcor NRGF and Quicklook images.

\_\_\_\_end\_\_\_\_

Tue Jul 12 21:05:12 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0  
Tue Jul 12 21:32:58 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0  
Tue Jul 12 22:00:26 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0  
Tue Jul 12 22:27:54 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal\_flat.cbk line 0  
Tue Jul 12 22:43:04 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0  
Tue Jul 12 23:10:51 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0  
Tue Jul 12 23:38:30 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

GENERAL COMMENT BY mcotter: Tue Jul 12 23:51:04 GMT 2022

Aerosols are getting high and the sky is getting fairly bright.

\_\_\_\_end\_\_\_\_

Wed Jul 13 00:05:56 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal\_flat.cbk line 0

Wed Jul 13 00:11:13 GMT 2022 UCOMP Paused for clouds

WEATHER COMMENT: mcotter: Wed Jul 13 00:14:08 GMT 2022

The sky has become much brighter and aerosols are increasing. Also Orographic clouds have moved up from the western slope and are now getting in the path of the observations. The clouds are starting to form and disperse above the observatory and in the viewing area.

\_\_\_\_end\_\_\_\_

Wed Jul 13 00:15:07 GMT 2022 UCOMP Restarted from pause

GENERAL COMMENT BY mcotter: Wed Jul 13 00:17:37 GMT 2022

The cloud coverage is not complete and observations are able to be run between the clouds. The sky is bright but not terrible and the data images look acceptable at this time.

Both Kcor and Ucomp instruments continue to observe and take data.

\_\_\_\_end\_\_\_\_

Wed Jul 13 00:24:55 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0  
Wed Jul 13 00:52:40 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0  
Wed Jul 13 01:20:08 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0  
Wed Jul 13 01:40:59 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 14  
Wed Jul 13 01:42:15 GMT 2022 UCOMP Paused for clouds  
Wed Jul 13 01:46:03 GMT 2022 UCOMP Restarted from pause  
Wed Jul 13 01:46:54 GMT 2022 UCOMP Paused for clouds

WEATHER COMMENT: mcotter: Wed Jul 13 01:53:16 GMT 2022

Aerosols have increased and the sky has brightened quite a bit. Also Orographic clouds continue to move into the area of the observatory and are forming then dissipating in the viewing area.

\_\_\_\_end\_\_\_\_

Wed Jul 13 01:56:00 GMT 2022 UCOMP Restarted from pause

Wed Jul 13 02:01:29 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal\_flat.cbk line 0

WEATHER COMMENT: mcotter: Wed Jul 13 02:03:44 GMT 2022

The clouds that were interfering with observations have dissipated and the instruments are again on sky observing.

\_\_\_\_end\_\_\_\_

GONG COMMENT BY mcotter: Wed Jul 13 02:14:37 GMT 2022

Opened GONG trailer door due to rising temperatures inside.

\_\_\_\_end\_\_\_\_

Wed Jul 13 02:16:39 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

Wed Jul 13 02:28:14 GMT 2022 UCOMP Paused for clouds

WEATHER COMMENT: mcotter: Wed Jul 13 02:29:29 GMT 2022

The sky has gotten very bright. Both instruments have been paused due to poor sky conditions at this time.

\_\_\_\_end\_\_\_\_

Wed Jul 13 02:56:02 GMT 2022 UCOMP Restarted from pause

GENERAL COMMENT BY mcotter: Wed Jul 13 03:07:28 GMT 2022

Good day of observing until late afternoon when orographic clouds began encroaching on the viewing area and the sky became too bright to observe.

\_\_\_\_end\_\_\_\_

ONSITE STAFF: