
Mauna Loa Solar Observatory Observer's Log

Sat Jun 25 16:39:45 GMT 2022

Year: 22 Doy: 176

Observer: mcotter

WEATHER COMMENT: mcotter: Sat Jun 25 16:42:47 GMT 2022

Temp: 43.3f, Humidity: 11%, Pressure: 28.669in, Wind: 5mph from 165degs, Skies: Clear but slightly hazy skies. Dark blue gray inversion layer visible on the horizon above Haleakala; cannot see Haleakala at this time. Light wind from the southeast.

____end____

GENERAL COMMENT BY mcotter: Sat Jun 25 16:42:53 GMT 2022

Opened windows upstairs

____end____

GENERAL COMMENT BY mcotter: Sat Jun 25 16:42:59 GMT 2022

PM Blew off UCOMP 01

____end____

GENERAL COMMENT BY mcotter: Sat Jun 25 16:43:07 GMT 2022

PM Blew off Kcor 01

____end____

Sat Jun 25 16:45:24 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Sat Jun 25 16:48:29 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 2

Sat Jun 25 16:52:35 GMT 2022 Kcor Focus/alignment program exited

Sat Jun 25 17:02:24 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

UCOMP COMMENT BY mcotter: Sat Jun 25 17:08:48 GMT 2022

Yesterday at the very end of the day I again inspected the Ucomp Diffuser but forgot to make a log entry.

I inspected the diffuser to ensure that it was properly centered over the 01 orifice. It appeared fairly well centered when I had checked it earlier in the day but because of how the spar was facing I could not get a straight on look at the diffuser. This time when I inspected the diffuser I put the spar at zenith and elevated the ladder so that I could look down upon the diffuser, also I was able to get a fairly good X & Y look at the positioning. Again the diffuser looked like it was covering the 01 orifice properly but I did make a slight adjustment to the positioning of the diffuser just to make sure that the shadow of the diffuser frame was not causing any interference with the observing. There was very little adjustment left in the eccentric for this positioning, but I was able to move the diffuser a little bit (went to the end of the eccentric travel). Hopefully this will have remedied and vignetting that is thought to be occurring from the diffuser frame. I took photos of the positioning after the adjustment was made and will send them to Ben and Steve for reference.

It should be noted that the motor shaft that the diffuser frame mounts to has a very small amount of play in it in the Z direction. I checked that the set screws attaching the frame to the shaft were tight and they were. I don't believe this has anything to do with the X & Y positioning of the diffuser as it rotates into position, but it is worth mentioning so that we can keep an eye on it to ensure it does not become worse. In the future when other work is to be done on the instrument and the instrument is down it may be a good idea to take apart the assembly and determine why this movement is occurring.

____end____

UCOMP COMMENT BY mcotter: Sat Jun 25 17:09:08 GMT 2022

Ucomp instrument is now observing.

____end____

KCOR COMMENT BY mcotter: Sat Jun 25 17:09:31 GMT 2022

Kcor instrument is now observing.

____end____

WEATHER COMMENT: mcotter: Sat Jun 25 17:10:34 GMT 2022

The sky is bit bright at this time but the Kcor images look good.

____end____

Sat Jun 25 17:30:12 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Sat Jun 25 17:57:40 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Sat Jun 25 18:25:19 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Sat Jun 25 18:40:31 GMT 2022 Running UCOMP Cookbook waves_1074_1hour.cbk line 0

Sat Jun 25 19:37:37 GMT 2022 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Sat Jun 25 19:50:19 GMT 2022 Running UCOMP Cookbook dark_80ms_2beam_16sums_BOTH.cbk line 0
Sat Jun 25 19:51:37 GMT 2022 Running UCOMP Cookbook 637_Pol_Calibrate.cbk line 0
Sat Jun 25 19:52:51 GMT 2022 KCOR End Calibration Script
Sat Jun 25 19:55:40 GMT 2022 Running UCOMP Cookbook 706_Pol_Calibrate.cbk line 0
Sat Jun 25 19:59:44 GMT 2022 Running UCOMP Cookbook 789_Pol_Calibrate.cbk line 0
Sat Jun 25 20:03:47 GMT 2022 Running UCOMP Cookbook 1074_Pol_Calibrate.cbk line 0
Sat Jun 25 20:07:50 GMT 2022 Running UCOMP Cookbook 1079_Pol_Calibrate.cbk line 0
Sat Jun 25 20:11:54 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0
Sat Jun 25 20:39:41 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

WEATHER COMMENT: mcotter: Sat Jun 25 20:45:42 GMT 2022

Aerosols are increasing as can be observed in the Kcor NRGF and Quicklook images. Also Orographic clouds are approaching from the Saddle Valley and are beginning to encroach on the science area, though so far they have not made it to the observatory or into the viewing area.

___end___

Sat Jun 25 20:51:24 GMT 2022 UCoMP Paused for clouds
Sat Jun 25 20:51:35 GMT 2022 UCoMP Restarted from pause
Sat Jun 25 20:54:08 GMT 2022 UCoMP Paused for clouds
Sat Jun 25 20:56:06 GMT 2022 UCoMP Restarted from pause
Sat Jun 25 20:56:51 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0
WEATHER COMMENT: mcotter: Sat Jun 25 20:57:33 GMT 2022

The clouds I mentioned previously have now entered the area of the observatory and are beginning to pass through the viewing area. So far there have only been a few wisps of clouds go through the viewing area so the instrument are still observing.

___end___

Sat Jun 25 21:08:25 GMT 2022 UCoMP Paused for clouds
Sat Jun 25 21:12:04 GMT 2022 UCoMP Restarted from pause
Sat Jun 25 21:12:56 GMT 2022 UCoMP Paused for clouds
Sat Jun 25 21:14:10 GMT 2022 UCoMP Restarted from pause
Sat Jun 25 21:17:39 GMT 2022 UCoMP Paused for clouds
WEATHER COMMENT: mcotter: Sat Jun 25 21:26:04 GMT 2022

The clouds are now too numerous to try and avoid and pause the instrument then restart; as soon as I restart I have to again pause.

Both Kcor and Ucomp are now paused due to poor sky conditions.

___end___

KCOR COMMENT BY mcotter: Sat Jun 25 21:26:27 GMT 2022
Kcor has been stopped due to poor sky conditions.

___end___

UCoMP COMMENT BY mcotter: Sat Jun 25 21:26:49 GMT 2022
Ucomp has been paused due to poor sky conditions.

___end___

WEATHER COMMENT: mcotter: Sat Jun 25 21:45:07 GMT 2022
Cloud coverage is getting heavy.

The dome shutter doors and windows have been closed in the event of precipitation.

___end___

GENERAL COMMENT BY mcotter: Sat Jun 25 22:41:05 GMT 2022
Emptied trash container in control room.

___end___

GENERAL COMMENT BY mcotter: Sat Jun 25 22:44:47 GMT 2022
The day began with skies a bit bright, but the data images looked fairly good. By mid morning Orographic clouds began to encroach on the science area but they held off until late morning before actually entering the viewing area. An attempt was made to view in the cloud breaks over the observatory, but the clouds became too numerous and the sky was completely overcast within a short while.

___end___

Sat Jun 25 22:46:45 GMT 2022 UCoMP Restarted from pause
ONSITE STAFF: