
Mauna Loa Solar Observatory Observer's Log

Sat Aug 13 16:53:36 GMT 2022

Year: 22 Doy: 225

Observer: mlso

WEATHER COMMENT: mcotter: Sat Aug 13 16:56:20 GMT 2022

Temp: 47.4f, Humidity: 21%, Pressure: 28.706in, Wind: 10mph from 178deg. Clear but hazy skies. The sky appears a bit bright in the Yawcam-Preview image. A light pink brown inversion layer is visible on the horizon above Haleakala. Steady winds from the South-Southeast.

____end____

Sat Aug 13 17:05:27 GMT 2022 Kcor Focus/alignment program exited

Sat Aug 13 17:15:06 GMT 2022 Kcor Focus/alignment program exited

****UCOMP PROBLEM COMMENT BY mcotter**** : Sat Aug 13 17:17:05 GMT 2022

The Ucomp controller program did not open properly this morning as the filter wheel was not found. I closed the program and restarted the computer. After restarting the computer a couple of GUI's came up that said open programs were not closed properly and asked if they were to be saved, which I did. The Ucomp controller program has now come up with the filter wheel identified, but now the camera LED is not illuminated. Last week I received instructions from Ben that if the Ucomp Controller program comes up and does not see the camera to notify him, which I will now do.

____end____

****KCOR PROBLEM COMMENT BY mcotter**** : Sat Aug 13 17:18:56 GMT 2022

The Kcor Stand Alone Image Acquisition program did not respond when it came up this morning. I restarted the computer and now the Kcor programs seem to be operating normally.

____end____

KCOR COMMENT BY mcotter: Sat Aug 13 17:19:19 GMT 2022

The Kcor instrument is now observing.

____end____

Sat Aug 13 17:43:44 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

UCOMP COMMENT BY mcotter: Sat Aug 13 17:51:07 GMT 2022

The Ucomp instrument controller program was not working this morning when initiated. The filter wheel was not found at start up. After closing the program and restarting the computer the controller program opened and found the filter wheel correctly, but this time it could not find the cameras. After calling Ben he was able to diagnose a problem with the camera sequence that was not being met which was causing the problem. Ben reviewed the program logic commands and corrected the sequencing. The Ucomp Controller program was restarted and it came up correctly and found the cameras with no problem. The Ucomp instrument is now operating correctly and observing.

____end____

Sat Aug 13 17:51:59 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 5

Sat Aug 13 18:05:46 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Sat Aug 13 18:46:33 GMT 2022 Running UCOMP Cookbook poor-weather-coronal-with-flats.cbk line 0

Sat Aug 13 18:52:31 GMT 2022 Running UCOMP Cookbook poor-weather-coronal-with-flats.cbk line 6

Sat Aug 13 19:38:08 GMT 2022 UCOMP Paused for clouds

Sat Aug 13 19:39:00 GMT 2022 UCOMP Restarted from pause

Sat Aug 13 19:39:19 GMT 2022 UCOMP Paused for clouds

Sat Aug 13 19:57:20 GMT 2022 UCOMP Restarted from pause

Sat Aug 13 19:57:52 GMT 2022 UCOMP Paused for clouds

Sat Aug 13 20:00:54 GMT 2022 UCOMP Restarted from pause

Sat Aug 13 20:01:26 GMT 2022 UCOMP Paused for clouds

Sat Aug 13 20:10:52 GMT 2022 UCOMP Restarted from pause

Sat Aug 13 21:04:15 GMT 2022 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Sat Aug 13 21:19:26 GMT 2022 KCOR End Calibration Script

****UCOMP PROBLEM COMMENT BY mcotter**** : Sat Aug 13 21:33:11 GMT 2022

The Ucomp background color turned Red while running through the cookbooks.

I checked the Instrument Status field of the Ucomp-Controller program and it appeared that the program was waiting for the filter wheel to move but it had gotten no response and indicated "Waiting over X minutes. for filter wheel to Move Abs _8". Checking the Mech-Controller, the Home/Manual move Tab was selected and the Filter wheel was able to be commanded to move. The Filter wheel was hommanned to home and the final position ind

icated position 8. This was the position that the Ucomp-Controller program was looking for when it got hung up so I started the controller program going again. After a moment or two the image shown on the Ucomp-Controller program came up but it did not look correct, with the appearance that the occulter ring was quite wide and bright. I immediately put the Controller program into cloud mode to prevent over saturation of the detector while I figured out how to proceed next.

I commanded the filter wheel to move 1 position to its relative position and it moved into position 9 according to the "Final Position" field. Again the filter wheel was commanded to move one position and it moved to position 0 with no problem. This command was repeated a few more times to confirm that the filter wheel was moving as commanded and each time it appeared to function and to respond to the command correctly. I restarted the Controller Program and the image continued to look incorrect. I tried skipping to the next recipe step (#4), but after a few moments nothing appeared to change. The program was again paused with the Cloud command and while the program was in pause I advanced the recipe to #5, then released the clouds button and restarted the program, to see if doing the recipe advance while in the pause mode would make a difference. It made no difference and the program restarted and after waiting a few moments the image continued to look incorrect and over saturated. I am uncertain how to proceed, as I believe this anomaly may be due to an issue with the software. I am going to call Ben and see if he may be able to trouble shoot this condition remotely. I was able to reach Ben on the phone and he instructed me to engage the "Reconnect Filter Wheel" icon on the desktop. I engaged the icon and a black GUI appeared. I then went back to the Ucomp-Controller program and unengaged the Clouds button to unpause and restart the Controller Program. I waited a few moments but the image continued to look the same; a very wide coronal ring and over saturation. I relayed this condition back to Ben and he instructed me to try restarting the computer. The computer was restarted (**NOTE** There is a small yellow dot next to the poser button indicating a software update is pending. I did not elect to do any updates at this time, as this is an issue Ben should decide upon). The computer came back up as normal but when the Ucomp-Controller program restarted as it did not find the filter wheel. I again exited the controller program and restarted the Ucomp-Controller program. When the Ucomp-Controller GUI it still did not see the filter wheel. I minimized the Controller GUI and engaged the Reconnect Filter Wheel Icon. The Ucomp-Controller still could not find the filter wheel. This time I went to the Ucomp computer and manually pulled the power plug, waited 30 seconds, then reinserted the power cord and re-energized the computer. Again the computer came up normally. The Ucomp-Controller program was restarted and this time the filter wheel was found but the camera LED did not illuminate. There is an Icon on the desk to called "Power Cycle Camera". I moved the controller GUI out of the way and tried engaging this button but nothing appeared to happen and the Ucomp-Controller program Camera LED remained off. I went to the back of the Ucomp computer rack and could see that on the remote controlled power strip that #13 & #16 power receptacles appeared to be off as the green LED next to them were not illuminated. Number 13 is "Heater/Shutter Power" and #16 is "Camera Power". I again went to the desktop Icon labeled "Power Cycle Camera" and tried it. I could see that a black GUI appeared for a moment and a couple of script commands were noted, but this made no difference and the Ucomp-Controller "Camera LED" still remained off. I am uncertain at this time how to proceed so I have sent a message to Ben and have asked him to call me and give me further instructions.

____end____

WEATHER COMMENT: mcotter: Sat Aug 13 22:16:35 GMT 2022

The sky has become quite bright and Orographic clouds have moved up from the Saddle Valley.

The sky is presently too bright to observe and the instruments are off.

____end____

GENERAL COMMENT BY mcotter: Sat Aug 13 22:20:41 GMT 2022

The sky is too bright at this time to run the instruments.

____end____

GENERAL COMMENT BY mcotter: Sat Aug 13 23:12:16 GMT 2022

____end____

UComp COMMENT BY mcotter: Sun Aug 14 02:36:26 GMT 2022

When Ben called back regarding the Ucomp issues the sky had become overcast and observations were stopped. I explained to him about receptacle #13 & #16 not being lit and asked him if it would have been okay to plug the camera plugs into another receptacle that was energized to see if it would get the cameras working and satisfy the Ucomp controller program. He said that would have been fine to do. Though I could not observe with Ucomp I did plug the camera's power plugs into different "energized" receptacle and the cameras came up and the Ucomp Controller program was satisfied. Ben told me if I did th

is to make sure to plug the camera power plugs back into receptacles #13 & #16 before I shut down so that he could trouble shoot the issue further this evening.

As of now it appears Ucomp is working correctly.

____end____

GENERAL COMMENT BY mcotter: Sun Aug 14 02:40:26 GMT 2022

I cleaned and organized the control room and IT area. The floors were vacuumed and the trash receptacle emptied.

____end____

GENERAL COMMENT BY mcotter: Sun Aug 14 02:42:03 GMT 2022

The day started out clear but a bit hazy. Around noon Orographic clouds came in to the are area and the sky conditions became to bright to observe.

____end____

ONSITE STAFF: mcotter