
Mauna Loa Solar Observatory Observer's Log

Mon Nov 8 17:17:02 GMT 2021

Year: 21 Doy: 312

Observer: mlso

WEATHER COMMENT: mcotter: Mon Nov 08 17:20:02 GMT 2021

Temp: 43.1f, Humidity: 8%, Pressure: 28.743in, Wind: 11mph from 98degs, Skies: Overcast and wet roads in Hilo to about halfway up to the Saddle Valley. Clear skies overhead with some lower level Altocumulus to the east and west. Skies appear a bit bright as can be viewed in the Yawcam Preview image. Moderate steady wind blowing from the east.

___end___

GENERAL COMMENT BY mcotter: Mon Nov 08 17:20:15 GMT 2021

Opened windows upstairs

___end___

GENERAL COMMENT BY mcotter: Mon Nov 08 17:20:22 GMT 2021

PM Blew off UCOMP 01

___end___

GENERAL COMMENT BY mcotter: Mon Nov 08 17:20:38 GMT 2021

PM Blew off Kcor 01

___end___

KCOR COMMENT BY mcotter: Mon Nov 08 17:37:30 GMT 2021

Kcor instrument up and running. I had to run the focus routine multiple times before I got an acceptable parabola.

SGS offsets: X(RA): 25, Y(Dec): -5.

Polarization checked good: Mid, Bright, Dark, Mid.

___end___

Mon Nov 08 17:39:19 GMT 2021 Running UCOMP Cookbook dark_80ms_2beam_16sums_BOTH.cbk line 0

Mon Nov 08 17:40:36 GMT 2021 Running UCOMP Cookbook 637_Scan.cbk line 0

Mon Nov 08 17:42:45 GMT 2021 Running UCOMP Cookbook 656_Scan.cbk line 0

Mon Nov 08 17:44:34 GMT 2021 Running UCOMP Cookbook 789_Scan.cbk line 0

Mon Nov 08 17:46:24 GMT 2021 Running UCOMP Cookbook 1074_Scan.cbk line 0

Mon Nov 08 17:48:13 GMT 2021 Running UCOMP Cookbook 1079_Scan.cbk line 0

Mon Nov 08 17:50:03 GMT 2021 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

UCOMP COMMENT BY mcotter: Mon Nov 08 17:50:10 GMT 2021

When I came in this morning and tried starting the Ucomp instrument I found the Ucomp Controller program still running. I loaded "daily.menu" menu and then engaged the "Center Occulter" button. After a few moments the center occulter GUI came up but the image was all black. I checked the "mech-controller" and there did not appear to be anything in the beam. I went back to the Ucomp Controller program and tried stopping it but it was unresponsive. I stopped the program manually and then restarted it over. This time it came up and I engaged the Center Occulter button. When the Center Occulter GUI came up it was still just a black screen, but I saw that the mech-controller said that the shutter was in the beam. I retracted the shutter and the center occulter image came up as normal. I centered the occulter and the instrument now appears to be running normally.

___end___

KCOR COMMENT BY mcotter: Mon Nov 08 17:55:27 GMT 2021

Three "Bullet holes" are quite noticeable at the bottom edge (approximately 170 deg) of the Kcor NRGF image. I saw these anomalies on Saturday also and tried blowing off the Kcor 01 several times both Saturday and this morning but they will not budge. We should consider rinsing the Kcor 01 the next time we have overcast skies and are not taking data.

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Mon Nov 08 18:08:20 GMT 2021 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

GENERAL COMMENT BY mcotter: Mon Nov 08 18:14:09 GMT 2021

PM Blew off Kcor Field Lens.

A small particle is visible in the Kcor NRGF image, toward the edge of the display at approximately 75 deg. I blew the Kcor Field Lens off thoroughly to see if I could remove it from the image.

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Mon Nov 08 19:19:41 GMT 2021 Running UCOMP Cookbook dark_80ms_2beam_16sums_BOTH.cbk line 0

Mon Nov 08 19:20:58 GMT 2021 Running UCOMP Cookbook 637_Pol_Calibrate.cbk line 0

Mon Nov 08 19:25:21 GMT 2021 Running UCOMP Cookbook 656_Pol_Calibrate.cbk line 0

Mon Nov 08 19:29:25 GMT 2021 Running UCOMP Cookbook 789_Pol_Calibrate.cbk line 0

Mon Nov 08 19:33:29 GMT 2021 Running UCOMP Cookbook 1074_Pol_Calibrate.cbk line 0
Mon Nov 08 19:37:32 GMT 2021 Running UCOMP Cookbook 1079_Pol_Calibrate.cbk line 0
Mon Nov 08 19:41:36 GMT 2021 Running UCOMP Cookbook waves_1074_1hour.cbk line 0
Mon Nov 08 19:47:25 GMT 2021 Running UCOMP Cookbook waves_1074_1hour.cbk line 12
Mon Nov 08 20:49:11 GMT 2021 Running UCOMP Cookbook waves_1074_1hour.cbk line 121
Mon Nov 08 20:53:07 GMT 2021 Running UCOMP Cookbook dark_200_1sums_80ms.cbk line 0
WEATHER COMMENT: mcotter: Mon Nov 08 20:57:10 GMT 2021
High altitude Cirrus has formed to the southeast, south, southwest and a bit to the west. So far the images from Kcor and Ucomp both look good.
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Mon Nov 08 20:58:10 GMT 2021 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0
Mon Nov 08 21:07:30 GMT 2021 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini
Mon Nov 08 21:16:36 GMT 2021 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0
Mon Nov 08 21:22:47 GMT 2021 KCOR End Calibration Script
GENERAL COMMENT BY mcotter: Mon Nov 08 21:32:12 GMT 2021
This morning when I started the Spar I noticed that the Arc second RA & Dec error graph was on a +10 to -10 full scale. Later this morning (I don't know exactly what time) the scale change to +20 to -20 full scale. I am uncertain why this has happened, other than that the RA & Dec errors have increased in magnitude, but what has contributed to this increase in magnitude.
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GENERAL COMMENT BY mcotter: Mon Nov 08 21:35:56 GMT 2021
High altitude Cirrus is beginning to spread across the sky but so far it has not encroached in the viewing area.
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Mon Nov 08 21:40:56 GMT 2021 UCOMP Paused for clouds
Mon Nov 08 21:44:14 GMT 2021 UCOMP Restarted from pause
Mon Nov 08 21:45:56 GMT 2021 UCOMP Paused for clouds
Mon Nov 08 22:00:08 GMT 2021 UCOMP Restarted from pause
WEATHER COMMENT: mcotter: Mon Nov 08 22:07:53 GMT 2021
A few bands of high altitude Cirrus moved through the viewing area and the instruments were paused for a few minutes. Looking through the Yawcam Preview image I could see the wisps of clouds moving through the image. After a few minutes the Yawcam Preview image looked like the clouds had dissipated and were gone. I restarted the instruments, but the Kcor Stand Alone image looked over exposed so I again stopped the instruments again. I waited about ten minutes and restarted the Kcor instrument and the images look good.
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Both Kcor and Ucomp are again running.
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KCOR COMMENT BY mcotter: Mon Nov 08 22:10:24 GMT 2021
Kcor had been stopped for clouds, but the clouds have passed out of the viewing area: Kcor has been restarted.
____end____
UCOMP COMMENT BY mcotter: Mon Nov 08 22:11:05 GMT 2021
Ucomp had been stopped for clouds, but the clouds have passed out of the viewing area: Ucomp has been restarted.
____end____
Mon Nov 08 22:14:11 GMT 2021 UCOMP Paused for clouds
GENERAL COMMENT BY mcotter: Mon Nov 08 23:12:08 GMT 2021
Just prior to shutting down the instruments because of clouds I noticed that the SGS Arc second RA & Dec error graph changed again and is now on +30 to -30 full scale. Again, I do not know what is causing the increase in RA & Dec error values, but something is occurring to lead to the increase in these values.
____end____
GENERAL COMMENT BY mcotter: Tue Nov 09 02:04:09 GMT 2021
The day started out good but high altitude Cirrus clouds moved into the viewing area in the early afternoon and the instruments were stopped.
____end____
ONSITE STAFF: berkey, mcotter