

-----  
Mauna Loa Solar Observatory Observer's Log  
-----

Sat Jan 8 18:19:57 GMT 2022

Year: 22 Doy: 008

Observer: mlso

Sat Jan 08 18:20:53 GMT 2022 Running UCOMP Cookbook 637\_Scan.cbk line 0

WEATHER COMMENT BY mcotter: Sat Jan 08 18:21:50 GMT 2022

Temp: 42.9f, Humidity: 13%, Pressure: 28.763in, Wind: 2mph from 188degs, Skies: Clear skies in all directions! Inversion layer visible on the horizon below Haleakala. Little to no wind.

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

GENERAL COMMENT BY mcotter: Sat Jan 08 18:21:57 GMT 2022

Opened windows upstairs

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

GENERAL COMMENT BY mcotter: Sat Jan 08 18:22:05 GMT 2022

PM Blew off UCOMP 01

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

GENERAL COMMENT BY mcotter: Sat Jan 08 18:22:10 GMT 2022

PM Blew off Kcor 01

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

Sat Jan 08 18:23:03 GMT 2022 Running UCOMP Cookbook 656\_Scan.cbk line 0

Sat Jan 08 18:24:53 GMT 2022 Running UCOMP Cookbook 789\_Scan.cbk line 0

Sat Jan 08 18:26:43 GMT 2022 Running UCOMP Cookbook 1074\_Scan.cbk line 0

Sat Jan 08 18:28:32 GMT 2022 Running UCOMP Cookbook 1079\_Scan.cbk line 0

Sat Jan 08 18:30:22 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal\_flat.cbk line 0

UCOMP COMMENT BY mcotter: Sat Jan 08 18:37:38 GMT 2022

Ucomp instrument now running.

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

KCOR COMMENT BY mcotter: Sat Jan 08 18:39:13 GMT 2022

Kcor instrument now running.

SGS offsets: X(RA): 46, Y(Dec): -10.

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

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

Sat Jan 08 18:48:31 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

Sat Jan 08 20:00:02 GMT 2022 Running UCOMP Cookbook no-occulter-flat.cbk line 0

Sat Jan 08 20:06:30 GMT 2022 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Sat Jan 08 20:06:35 GMT 2022 Running UCOMP Cookbook dark\_80ms\_2beam\_16sums\_BOTH.cbk line 0

Sat Jan 08 20:07:52 GMT 2022 Running UCOMP Cookbook 637\_Pol\_Calibrate.cbk line 0

Sat Jan 08 20:12:11 GMT 2022 Running UCOMP Cookbook 656\_Pol\_Calibrate.cbk line 0

Sat Jan 08 20:16:15 GMT 2022 Running UCOMP Cookbook 789\_Pol\_Calibrate.cbk line 0

Sat Jan 08 20:20:19 GMT 2022 Running UCOMP Cookbook 1074\_Pol\_Calibrate.cbk line 0

Sat Jan 08 20:21:47 GMT 2022 KCOR End Calibration Script

Sat Jan 08 20:24:23 GMT 2022 Running UCOMP Cookbook 1079\_Pol\_Calibrate.cbk line 0

Sat Jan 08 20:28:27 GMT 2022 Running UCOMP Cookbook waves\_1074\_1hour.cbk line 0

Sat Jan 08 20:44:12 GMT 2022 Running UCOMP Cookbook waves\_1074\_1hour.cbk line 19

GONG COMMENT BY mcotter: Sat Jan 08 21:10:07 GMT 2022

In yesterdays log comments Ben made reference to GONG turret oscillation. Having never experienced this situation, nor ever having heard this expression, I emailed Ben and asked him if he could describe what to look for in the GONG image that would make me aware of this situation. Ben later called me and in detail described what GONG turret oscillation was, how it could be identified and what action(s) to take to correct for this anomaly. If this situation were to arise again I am confident that I could identify the anomaly and correct for it accordingly.

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

Sat Jan 08 21:45:13 GMT 2022 Running UCOMP Cookbook dark\_200\_1sums\_80ms.cbk line 0

Sat Jan 08 21:50:13 GMT 2022 Running UCOMP Cookbook no-occulter-flat.cbk line 0

Sat Jan 08 21:56:45 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal\_flat.cbk line 0

Sat Jan 08 22:15:07 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

\*\*GONG PROBLEM COMMENT BY mcotter\*\* : Sat Jan 08 22:46:31 GMT 2022

The GONG SAO Image showed an error and looked unusual. I stopped both the Pitch and Roll controls via the GUI buttons on the same screen, waited approximately 30 seconds then restarted. After doing this a "Guide Error" came up in the SAO Image and in the GONG T

ool Instrument GUI. I turned off the Guider via the GUI control button, waited 15 seconds then turned the Guider back on. After a few minutes the SAO Image and the GONG Tool Instrument GUI both returned to normal.

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

Sat Jan 08 23:09:02 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 27  
Sat Jan 08 23:27:42 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0  
Sun Jan 09 00:16:20 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 24  
Sun Jan 09 00:41:24 GMT 2022 Running UCOMP Cookbook dark\_80ms\_2beam\_16sums\_BOTH.cbk line 0  
Sun Jan 09 00:42:41 GMT 2022 Running UCOMP Cookbook 1074\_Pol\_Calibrate.cbk line 0  
Sun Jan 09 00:47:06 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal\_flat.cbk line 0  
Sun Jan 09 01:05:13 GMT 2022 Running UCOMP Cookbook no-occulter-flat.cbk line 0  
Sun Jan 09 01:11:26 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

WEATHER COMMENT: mcotter: Sun Jan 09 01:23:14 GMT 2022

Temp: 49.8f, Humidity: 59%, Pressure: 28.661in, Wind: 5mph from 360degs, Skies: The sky is getting a little bright, as can be seen in the images, but the sky remains clear. Some Orthographic clouds can be observed on the northeast and western horizon but nothing nearby so far.

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

Sun Jan 09 01:24:01 GMT 2022 UCOMP Paused for clouds

GENERAL COMMENT BY mcotter: Sun Jan 09 01:27:33 GMT 2022

The Kcor NRGF image looks acceptable but there are a lot of aerosols visible in the image.

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

Sun Jan 09 01:35:02 GMT 2022 Kcor Focus/alignment program exited

GENERAL COMMENT BY mcotter: Sun Jan 09 01:40:36 GMT 2022

Both instruments GUI's looked over saturated and the spar SGS guider voltage dropped off. I paused Ucomp and stopped Kcor and went to the dome to investigate and found that the ladder was not far enough out of the way and it stopped the spar from advancing. I re-homed the spar then re-aligned on the Sun and engaged the close Loop command. The spar is now tracking .

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

KCOR COMMENT BY mcotter: Sun Jan 09 01:48:33 GMT 2022

When I restarted Kcor I thought I would check the focus image because the Kcor NRGF image was beginning to look poor, as it has lots of aerosols in the image. When I started the focus routine the whole image was very over saturated with aerosols. I thought I would try to run the Kcor Stand Alone Image Acquisition control program to see what it looks like and the images were very bright with aerosols and it obviously too bright to run the instrument.

The Kcor instrument is now stopped due to sky conditions.

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

Sun Jan 09 01:49:29 GMT 2022 UCOMP Restarted from pause

UCOMP COMMENT BY mcotter: Sun Jan 09 02:45:38 GMT 2022

The Ucomp instrument is now stopped due to sky conditions.

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

GENERAL COMMENT BY mcotter: Sun Jan 09 02:46:06 GMT 2022

Emptied trash container in control room.

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

GENERAL COMMENT BY mcotter: Sun Jan 09 02:47:54 GMT 2022

Beautiful clear day! Aerosols became heavy in the mid to late afternoon, but still a very clear day.

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

ONSITE STAFF: mcotter