
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-occult-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-occult-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-occultor-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: 28.66lin, 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