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Mauna Loa Solar Observatory Observer's Log  
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Sat Feb 12 18:24:59 GMT 2022

Year: 22 Doy: 043

Observer: mlso

Sat Feb 12 18:25:42 GMT 2022 Running UCOMP Cookbook 530\_Scan.cbk line 0

WEATHER COMMENT: mcotter: Sat Feb 12 18:28:15 GMT 2022

Temp: 42.3f, Humidity: 16%, Pressure: 28.659in, Wind: 8mph from 252degs, Skies: Fairly clear skes overall but there were some Cirrus clouds on the lower eastern horizon earlier that have just dissipated. Inversion layer visible on the horizon at approximately the level of Hualalai. Skies remain a little bright.

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

GENERAL COMMENT BY mcotter: Sat Feb 12 18:28:21 GMT 2022

Opened windows upstairs

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

GENERAL COMMENT BY mcotter: Sat Feb 12 18:28:28 GMT 2022

PM Blew off UCOMP 01

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

Sat Feb 12 18:28:11 GMT 2022 Running UCOMP Cookbook 637\_Scan.cbk line 0

GENERAL COMMENT BY mcotter: Sat Feb 12 18:28:33 GMT 2022

PM Blew off Kcor 01

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

UCOMP COMMENT BY mcotter: Sat Feb 12 18:29:15 GMT 2022

Ucomp instrument up and running.

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

KCOR COMMENT BY mcotter: Sat Feb 12 18:29:34 GMT 2022

Kcor instrument up and running.

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

Sat Feb 12 18:30:01 GMT 2022 Running UCOMP Cookbook 691\_Scan.cbk line 0

KCOR COMMENT BY mcotter: Sat Feb 12 18:30:25 GMT 2022

Kcor polarization checked good: Mid, Bright, Dark, Mid.

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

Sat Feb 12 18:31:50 GMT 2022 Running UCOMP Cookbook 706\_Scan.cbk line 0

Sat Feb 12 18:33:40 GMT 2022 Running UCOMP Cookbook 789\_Scan.cbk line 0

Sat Feb 12 18:35:29 GMT 2022 Running UCOMP Cookbook 1074\_Scan.cbk line 0

Sat Feb 12 18:37:18 GMT 2022 Running UCOMP Cookbook 1079\_Scan.cbk line 0

Sat Feb 12 18:39:08 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal\_flat.cbk line 0

\*\*\*\*Possible CME in Progress mcotter\*\*\*\* : Sat Feb 12 18:48:50 GMT 2022

Observers report with medium confidence a CME seeing launching near PA250 deg, with a minimum width of 20 deg, at UT time 18:26:07. The event was already in progress at start of observing.

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

Sat Feb 12 19:31:54 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

Sat Feb 12 20:18:28 GMT 2022 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Sat Feb 12 20:33:41 GMT 2022 KCOR End Calibration Script

KCOR COMMENT BY mcotter: Sat Feb 12 20:37:32 GMT 2022

Kcor calibration run.

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

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

WEATHER COMMENT: mcotter: Sat Feb 12 22:13:08 GMT 2022

Temp: 48.9f, Humidity: 15%, Pressure: 28.647in, Wind: 10mph from 276degs, Skies: So far the skies are remaining nice and clear with only distant clouds visible on the horizon

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

Sat Feb 12 22:54:39 GMT 2022 Running UCOMP Cookbook dark\_80ms\_2beam\_16sums\_BOTH.cbk line 0

Sat Feb 12 22:55:56 GMT 2022 Running UCOMP Cookbook 530\_Pol\_Calibrate.cbk line 0

Sat Feb 12 23:00:30 GMT 2022 Running UCOMP Cookbook 637\_Pol\_Calibrate.cbk line 0

Sat Feb 12 23:04:34 GMT 2022 Running UCOMP Cookbook 691\_Pol\_Calibrate.cbk line 0

Sat Feb 12 23:08:38 GMT 2022 Running UCOMP Cookbook 706\_Pol\_Calibrate.cbk line 0

Sat Feb 12 23:12:42 GMT 2022 Running UCOMP Cookbook 789\_Pol\_Calibrate.cbk line 0

Sat Feb 12 23:16:45 GMT 2022 Running UCOMP Cookbook 1074\_Pol\_Calibrate.cbk line 0

Sat Feb 12 23:20:49 GMT 2022 Running UCOMP Cookbook 1079\_Pol\_Calibrate.cbk line 0

Sat Feb 12 23:24:53 GMT 2022 Running UCOMP Cookbook waves\_1074\_1hour.cbk line 0

GENERAL COMMENT BY mcotter: Sun Feb 13 00:25:19 GMT 2022

There is a noticeable increase in aerosols and the Kcor synoptic images have become a light gray in color. Additionally, the Kcor NRGF image is becoming grainy with the higher presence of aerosols. I am going to allow the instruments to continue to run for now, but will need to pause observations if the aerosols get any worse.

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

Sun Feb 13 00:35:59 GMT 2022 Running UCOMP Cookbook dark\_200\_1sums\_80ms.cbk line 0

Sun Feb 13 00:41:03 GMT 2022 Running UCOMP Cookbook no-occulter-flat.cbk line 0

Sun Feb 13 00:47:34 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal\_flat.cbk line 0

GENERAL COMMENT BY mcotter: Sun Feb 13 00:52:04 GMT 2022

The Kcor Synoptic images have continued to grow brighter and are now a light gray and it is difficult to differentiate the corona from the background. Additionally, the image from the Ucomp instrument shows the background color growing bright in the Ucomp-controller image.

I am pausing both instruments until sky conditions improve.

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

Sun Feb 13 00:52:00 GMT 2022 UCoMP Paused for clouds

KCOR COMMENT BY mcotter: Sun Feb 13 01:00:49 GMT 2022

It is worth noting that during the course of the day there has been a lot of activity going on from approximately PA 200deg to approximately 300 deg. Very large bright limbs can be observed along this entire region, coinciding with high activity as can be seen in the SDO Dashboard images. Incidentally, this is the same region where a CME trail was observed earlier this morning when we were first getting on sky.

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

Sun Feb 13 01:00:43 GMT 2022 UCoMP Restarted from pause

GENERAL COMMENT BY mcotter: Sun Feb 13 01:06:28 GMT 2022

I have restarted the instruments and it looks like the aerosols may have lessened a little bit.

Though the images are still a bit bright I am going to let the instruments continue to run (as much as possible) as the activity on the Sun's western hemisphere is very high.

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

WEATHER COMMENT: mcotter: Sun Feb 13 01:44:26 GMT 2022

Orthographic clouds are beginning to make their way up into the viewing area from the west. Kcor Synoptic images have gotten very bright and the corona is no longer distinguishable from the background.

Both instruments are being paused until sky conditions improve.

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

Sun Feb 13 01:44:24 GMT 2022 UCoMP Paused for clouds

WEATHER COMMENT: mcotter: Sun Feb 13 01:57:33 GMT 2022

More Orthographic clouds are moving into the viewing area and the sky is rapidly filling in clouds from the northwest, north and northeast.

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

**\*\*KCOR PROBLEM COMMENT BY mcotter\*\*** : Sun Feb 13 02:13:32 GMT 2022

Since the aerosols and clouds have been moving in and out of the viewing area I have been stopping and then restarting the Kcor Synoptic image program. This last time I tried to stop the Kcor Synoptic program it was unresponsive to the "STOP" command. I tried engaging the GUI button several times but no luck. Finally I quit the Socket-cam program and the Kcor Synoptic program closed as well. When the Kcor Synoptic program closed it was left in an "error" state with a code 66 showing. I exited the program completely, restarted it and the program came up normally.

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

WEATHER COMMENT: mcotter: Sun Feb 13 02:14:36 GMT 2022

The sky has become very bright with aerosols and clouds are increasing.

Both Instrument are now stopped.

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

GENERAL COMMENT BY mcotter: Sun Feb 13 02:54:18 GMT 2022

Changed tact mat in dome vestibule.

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

GENERAL COMMENT BY mcotter: Sun Feb 13 02:57:38 GMT 2022

Emptied trash receptacle in control room. Changed tact mat in clean room.

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

GENERAL COMMENT BY mcotter: Sun Feb 13 03:18:02 GMT 2022

A few clouds early in the morning but then it cleared nicely for most of the day. Some aerosols in the afternoon making the sky a bit bright, but overall a good day!

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

ONSITE STAFF: mcotter