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Mauna Loa Solar Observatory Observer's Log  
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Sun Mar 27 17:38:20 GMT 2022

Year: 22 Doy: 086

Observer: mcotter

Sun Mar 27 17:38:48 GMT 2022 Kcor Focus/alignment program exited

Sun Mar 27 17:40:16 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal\_flat.cbk line 0

GENERAL COMMENT BY mcotter: Sun Mar 27 17:41:03 GMT 2022

The mouse was not working when I came in and I had to reset the KVM computer.

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

WEATHER COMMENT: mcotter: Sun Mar 27 17:42:20 GMT 2022

Temp: 42.5f, Humidity: 44%, Pressure: 28.688in, Wind: 4mph from 248degs, Skies: Clear but hazy skies. Thick gray blue inversion layer visible on the horizon just above Haleakala. Vey light wind blowing from the north.

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

GENERAL COMMENT BY mcotter: Sun Mar 27 17:42:30 GMT 2022

Opened windows upstairs

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

GENERAL COMMENT BY mcotter: Sun Mar 27 17:42:37 GMT 2022

PM Blew off UCOMP 01

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

GENERAL COMMENT BY mcotter: Sun Mar 27 17:42:45 GMT 2022

PM Blew off Kcor 01

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

GENERAL COMMENT BY mcotter: Sun Mar 27 17:43:16 GMT 2022

Ucomp instrument up and running.

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

KCOR COMMENT BY mcotter: Sun Mar 27 17:44:40 GMT 2022

Kcor up and running.

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

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

Sun Mar 27 17:55:32 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

Sun Mar 27 18:23:30 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

\*\*\*\*EVENT COMMENT BY mcotter\*\*\*\* : Sun Mar 27 18:49:42 GMT 2022

There appears to be a steady stream of out gassing coming from the Sun's surface at approximately PA 120 deg, approx 10 to 20 degs wide, starting at UT 17:44:00.

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

Sun Mar 27 18:51:09 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

\*\*\*\*Possible CME in Progress mcotter\*\*\*\* : Sun Mar 27 18:56:22 GMT 2022

Observers report with medium confidence a CME seeing launching near PA 120 deg, with a minimum width of 10 to 20 degs, at UT time 17:44:00.

This event so far has the appearance of a steady stream of coronal material being ejected away from the Sun.

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

Sun Mar 27 19:18:58 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal\_flat.cbk line 0

Sun Mar 27 19:34:24 GMT 2022 Running UCOMP Cookbook waves\_1074\_1hour.cbk line 0

Sun Mar 27 19:51:02 GMT 2022 Running UCOMP Cookbook waves\_1074\_1hour.cbk line 30

Sun Mar 27 20:44:47 GMT 2022 Running UCOMP Cookbook no-occulter-flat.cbk line 0

Sun Mar 27 20:51:15 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

Sun Mar 27 21:03:26 GMT 2022 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Sun Mar 27 21:18:40 GMT 2022 KCOR End Calibration Script

Sun Mar 27 21:19:00 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal\_flat.cbk line 0

Sun Mar 27 21:34:17 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

WEATHER COMMENT: mcotter: Sun Mar 27 22:01:08 GMT 2022

Clouds are beginning to make their way to the observatory and viewing area from primarily the north but the west as well. Aerosols have also begun to pick up.

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

Sun Mar 27 22:03:00 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 18

Sun Mar 27 22:03:01 GMT 2022 UCOMP Paused for clouds

GENERAL COMMENT BY mcotter: Sun Mar 27 22:04:49 GMT 2022

The instruments have been stopped due to cloudy sky conditions.

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

Sun Mar 27 22:06:32 GMT 2022 UCOMP Restarted from pause

Sun Mar 27 22:06:33 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

Sun Mar 27 22:07:30 GMT 2022 UCOMP Paused for clouds

WEATHER COMMENT: mcotter: Sun Mar 27 22:10:06 GMT 2022

I tried restarting the instruments, as there was a break in the cloud coverage in the viewing area, but as soon as I started the instruments more clouds began to move in and form in the viewing area.

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

WEATHER COMMENT: mcotter: Sun Mar 27 22:33:05 GMT 2022

Cloud coverage has increased quite a bit and the clouds have become dark.

The dome shutter doors and windows are now closed in the event of precipitation.

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

GENERAL COMMENT BY mcotter: Mon Mar 28 00:29:37 GMT 2022

Vacuumed control room floor.

Emptied all observatory trash receptacles.

Scrubbed and cleaned the sink area, emptied the waste water container beneath the sink and added the spare gallon of fresh water to the sink fresh water reservoir.

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

GENERAL COMMENT BY mcotter: Mon Mar 28 01:30:14 GMT 2022

The last time Ben and I had cleaned the optics using the cleaning bench within our self made "Clean Room" we realized that every time we entered the clean room we brought in a considerable amount of dust and other foreign particles. We became aware of this by observing the beam of light from the spotlight we use for looking at the optics. The beam is quite powerful and when a person is sitting next to the spotlight anything floating in the air is easily observed. When the spotlight was first energized the light beam was relatively free from any particles floating in the beam. After going in and out of the clean room a few times we could see a very big increase in the particles floating in the beam. We constructed the walls of the temporary clean room out of plastic sheathing. Our doorway was a seam where two sheets of the plastic overlapped. After repeatedly entering the area, we began to realize our bodies were rubbing up against the exterior plastic sheathing wall. This unknowingly was dragging considerable amounts of foreign particles into the area.

I have redone the entry area of the clean room and have made an entry way that allows us to enter and exit the area without our bodies having to touch any surface other than our feet on the floor, and there we have a tact mat. We'll need to wait until we are using the clean room again to see if this fix is effective.

I should add after the clean room was constructed the portable HEPA room air purifier, formerly in the dome area, was moved to this new sealed off clean room. The HEPA air purifier in this area (the clean room dimensions are approximately 8' x 10') has proven to be very effective and is doing an excellent job of keeping the air within the clean room free of dust and particles.

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

GENERAL COMMENT BY mcotter: Mon Mar 28 01:31:25 GMT 2022

Changed tact mats in dome vestibule and clean room.

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

WEATHER COMMENT: mcotter: Mon Mar 28 02:55:50 GMT 2022

The cloud coverage has increased and there is a light mist in the air. The wind is light and steady from the north.

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

GENERAL COMMENT BY mcotter: Mon Mar 28 02:57:59 GMT 2022

The morning was beautiful and clear. Clouds began to move into the viewing area and form above the observatory in the early afternoon.

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

ONSITE STAFF: