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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_wavelenght_coronal_flat.cbk lin
e 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 b
ut hazy skies. Thick gray blue inversion layer visible on the horizon just above Haleak
ala. 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 O1
___end___
GENERAL COMMENT BY mcotter: Sun Mar 27 17:42:45 GMT 2022
PM Blew off Kcor O1
___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_wavelenght_coronal.cbk line 0
Sun Mar 27 18:23:30 GMT 2022 Running UCOMP Cookbook all_wavelenght_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 Suns surface at appr
ox  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_wavelenght_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 eject
ed away from the Sun.
___end___
Sun Mar 27 19:18:58 GMT 2022 Running UCOMP Cookbook all_wavelenght_coronal_flat.cbk lin
e 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_wavelenght_coronal.cbk line 0
Sun Mar 27 21:03:26 GMT 2022 KCOR Start Calibration script: c:\kcor\mlso-calibration22d
eg-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_wavelenght_coronal_flat.cbk lin
e 0
Sun Mar 27 21:34:17 GMT 2022 Running UCOMP Cookbook all_wavelenght_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 primari
ly 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_wavelenght_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_wavelenght_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 v
iewing 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 o
bserving the beam of light from the spotlight we use for looking at the optics. The bea
m is quite powerful and when a person is sitting next to the spotlight anything floatin
g 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 sheath
ing. Our doorway was a seam where two sheets of the plastic overlapped. After repeatedl
y entering the area, we began to realized our bodies were rubbing up against the exteri
or plastic sheathing wall. This unknowingly was dragging considerable amounts of foreig
n particles into the area.

I have redone the entry area of the clean room and have made an entry way that allows u
s 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 us
ing 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 pu
rifier in this area (the clean room dimensions are approximately 8' x 10') has proven b
e very effective and is doing a 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 ligh
t 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 for
m above the observatory in the early afternoon.
___end___
ONSITE STAFF: