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Mauna Loa Solar Observatory Observer's Log  
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Fri Dec 4 17:39:38 GMT 2020

Year: 20 Doy: 339

Observer: mlso

WEATHER COMMENT: mcotter: Fri Dec 04 17:43:35 GMT 2020

Temp: 42.8f, Humidity: 29%, Pressure: 28.844in, Wind: 10mph from 159degs, Skies: Heavy rail and fog on the saddle road to approximately 7000' level. Sporadic rain and fog to approximately 8000' level. Mist and drizzle to approximately 9000' level. Clear skies over summit of Maunaloa, but there appears to be heavy aerosols in sky. Inversion layer at or above Maunakea.

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

Fri Dec 04 17:55:43 GMT 2020 Kcor Focus/alignment program exited

GENERAL COMMENT BY mcotter: Fri Dec 04 17:56:26 GMT 2020

Opened windows upstairs

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

GENERAL COMMENT BY mcotter: Fri Dec 04 17:56:36 GMT 2020

PM Blew off Kcor O1

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

GENERAL COMMENT BY mcotter: Fri Dec 04 17:59:06 GMT 2020

Ran Focus routine and obtained decent parabola. Checked image with Polarizer in beam: Mid, Bright, Dark, Mid. Kcor now running.

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

GENERAL COMMENT BY mcotter: Fri Dec 04 19:30:44 GMT 2020

Re-centered occulter. There appears to be a lot of activity on the western side of the Sun.

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

GPS COMMENT by MLSO: Fri Dec 04 21:45:11 GMT 2020

Successfully logged in to system

Good disk mount

GPS software running

Last 5 GPS data files are:

/mnt/usb/dataoutiq\_2020\_335\_2328.bin 0

/mnt/usb/dataoutiq\_2020\_335\_2338.bin 2147483647

/mnt/usb/dataoutiq\_2020\_336\_2338.bin 2147483647

/mnt/usb/dataoutiq\_2020\_337\_2338.bin 2147483647

/mnt/usb/dataoutiq\_2020\_338\_2338.bin 2147483647

Disk usage: /dev/sdal 916.9G 257.0G 613.3G 30% /mnt/usb

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

Fri Dec 04 22:58:33 GMT 2020 Kcor Focus/alignment program exited

GENERAL COMMENT BY mcotter: Fri Dec 04 23:02:27 GMT 2020

Kcor started acting strangely. An error code GUI popped up and could not be cleared. It read the following: Error in Function Bufin Internal Error. FIFO overflow occurred. I could not stop or quit the Kcor program and the small GUI would not allow me to put the lens cover back into beam. I shut down the Kcor programs and have re-started them. I am no longer getting an error code. I checked that the lens cover can go in and out of position, and it is now working correctly. I have started the Focus routine and re-aligned the occulter, but the amount of aerosols visible in the image is overwhelming. Ran Focus routine several times to finally obtain decent parabola. Put Polarizer into beam to verify polarization: Mid, Bright, Dark, Mid. Kcor running.

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

GENERAL COMMENT BY mcotter: Fri Dec 04 23:21:06 GMT 2020

Orographic clouds coming up the western slope and beginning to cover Maunaloa. Clouds forming over summit.

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

GENERAL COMMENT BY mcotter: Fri Dec 04 23:21:47 GMT 2020

Stopped Kcor. Closed dome shutter doors and windows.

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

GENERAL COMMENT BY mcotter: Fri Dec 04 23:23:25 GMT 2020

Good observation all morning. Aerosols became very heavy around noon HST.

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

ONSITE STAFF: mcotter