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Mauna Loa Solar Observatory Observer's Log  
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Sat Nov 21 16:58:22 GMT 2020

Year: 20 Doy: 326

Observer: mlso

WEATHER COMMENT: mcotter: Sat Nov 21 17:00:46 GMT 2020

Temp: 39.9f, Humidity: 64%, Pressure: 28.733in, Wind: 16mph from 140degs, Skies: clear skies overhead. Dense cloud coverage on drive up to summit up to the 9000' level and overmost of the eastern slope of Maunaloa. Cold gusty wind out of the south-south east.

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

GENERAL COMMENT BY mcotter: Sat Nov 21 17:53:48 GMT 2020

Very heavy cloud coverage on the eastern horizon obscuring the Sun making it impossible to observe at this time.

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

Sat Nov 21 18:14:06 GMT 2020 Kcor Focus/alignment program exited

Sat Nov 21 18:38:16 GMT 2020 Kcor Focus/alignment program exited

Sat Nov 21 18:40:57 GMT 2020 Kcor Focus/alignment program exited

Sat Nov 21 18:45:30 GMT 2020 Kcor Focus/alignment program exited

GENERAL COMMENT BY mcotter: Sat Nov 21 18:56:03 GMT 2020

The Sun finally rose above the clouds that are on the horizon. I tried running a Focus routine but the image looked shaky with excessive light first appearing at the top of the occulter position, then light appearing at the bottom of the occulter position. I checked the RA and DEC error wave form in the SGS window and it appeared as a sawtooth shape. It is somewhat windy with some gusts so I thought that perhaps the Spar started oscillating because of the wind. I stopped the Spar and re-homed the position. I realigned the Spar on the Sun and started the tracking again. This time when I started the Focus routine it looked much better and after a few times initiating a Focus routine I was able to obtain a good parabola. The sky is a little bright overall but it is clear out and aside from some windy conditions it is a good day for observations.

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

GENERAL COMMENT BY mcotter: Sat Nov 21 18:57:34 GMT 2020

Kcor image looks good with a possible CME. Need more data to tell for sure.

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

GENERAL COMMENT BY mcotter: Sat Nov 21 20:04:15 GMT 2020

Orographic clouds are forming and pushing up the summit from the south, south-east. Some excessive light is showing in the Kcor image sporadically.

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

GENERAL COMMENT BY mcotter: Sat Nov 21 20:53:15 GMT 2020

Bits of Cirrus clouds forming over the entire sky. Will try pausing Kcor briefly in the hope that the clouds will be spatial enough to allow for some viewing.

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

GENERAL COMMENT BY mcotter: Sat Nov 21 21:29:29 GMT 2020

High altitude Cirrus clouds present. Image is too bright to observe. Pausing Kcor and waiting for less clouds to be present in viewing area.

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

GPS COMMENT by MLSO: Sat Nov 21 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\_322\_1713.bin 362471360

/mnt/usb/dataoutiq\_2020\_323\_1713.bin 43280  
/mnt/usb/dataoutiq\_2020\_324\_1713.bin 0  
/mnt/usb/dataoutiq\_2020\_324\_2146.bin 2147483647  
/mnt/usb/dataoutiq\_2020\_325\_2146.bin 2147483647  
Disk usage: /dev/sdal 916.9G 240.2G 630.1G 28% /mnt/usb  
\_\_\_\_end\_\_\_\_

GENERAL COMMENT BY mcotter: Sat Nov 21 22:42:17 GMT 2020  
Cirrus clouds increasing. Kcot still paused.

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

Sun Nov 22 01:10:29 GMT 2020 Kcor Focus/alignment program exited

GENERAL COMMENT BY mcotter: Sun Nov 22 01:24:39 GMT 2020

High level Cirrus clouds present throughout most of the day. Some observing was accomplished in the morning, but clouds increased and observing was stopped.

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

ONSITE STAFF: mcotter