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Mauna Loa Solar Observatory Observer's Log  
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Sat Sep 11 17:01:06 GMT 2021

Year: 21 Doy: 254

Observer: mlso

WEATHER COMMENT: mcotter: Sat Sep 11 17:03:19 GMT 2021

Temp: 41.1f, Humidity: 66%, Pressure: 28.716in, Wind: 4mph from 182degs, Skies: Somewhat clear skies but there is high altitude Cirrus dispersed across the sky in various areas. Skies are a bit hazy a lower levels with no discernible inversion layer.

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

GENERAL COMMENT BY mcotter: Sat Sep 11 17:03:29 GMT 2021

Opened windows upstairs

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

GENERAL COMMENT BY mcotter: Sat Sep 11 17:03:36 GMT 2021

PM Blew off UCOMP O1

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

GENERAL COMMENT BY mcotter: Sat Sep 11 17:03:44 GMT 2021

PM Blew off Kcor O1

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

GENERAL COMMENT BY mcotter: Sat Sep 11 17:04:57 GMT 2021

Though the sky is a bit hazy and there are signs of high altitude Cirrus clouds in various areas I have opened the dome in the hope that it may be decent enough to observe.

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

Sat Sep 11 17:10:08 GMT 2021 Kcor Focus/alignment program exited

Sat Sep 11 17:14:02 GMT 2021 Running UCOMP Cookbook dark\_80ms\_2beam\_16sums\_BOTH.ckb line 0

Sat Sep 11 17:15:28 GMT 2021 Running UCOMP Cookbook 530\_Scan.ckb line 0

KCOR COMMENT BY mcotter: Sat Sep 11 17:16:43 GMT 2021

Kcor instrument now running.

SGS offsets: X(RA): -130, Y(dec): 90.

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

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

UCOMP COMMENT BY mcotter: Sat Sep 11 17:17:15 GMT 2021

Ucomp instrument now running.

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

Sat Sep 11 17:18:51 GMT 2021 Running UCOMP Cookbook 637\_Scan.ckb line 0

GENERAL COMMENT BY mcotter: Sat Sep 11 17:18:59 GMT 2021

Though the sky looks bright and there are some scattered high altitude Cirrus clouds present the images look good and on Kcor a well shaped parabola was obtained.

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

Sat Sep 11 17:21:51 GMT 2021 Running UCOMP Cookbook 656\_Scan.ckb line 0

Sat Sep 11 17:24:48 GMT 2021 Running UCOMP Cookbook 691\_Scan.ckb line 0

Sat Sep 11 17:27:45 GMT 2021 Running UCOMP Cookbook 706\_Scan.ckb line 0

Sat Sep 11 17:30:42 GMT 2021 Running UCOMP Cookbook 789\_Scan.ckb line 0

Sat Sep 11 17:33:40 GMT 2021 Running UCOMP Cookbook 1074\_Scan.ckb line 0

Sat Sep 11 17:36:40 GMT 2021 Running UCOMP Cookbook 1079\_Scan.ckb line 0

KCOR COMMENT BY mcotter: Sat Sep 11 17:37:10 GMT 2021

Kcor has been stopped for now due to clouds in the field of view.

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

Sat Sep 11 17:39:37 GMT 2021 Running UCOMP Cookbook 1083\_Scan.ckb line 0

Sat Sep 11 17:41:34 GMT 2021 Running UCOMP Cookbook 1083\_Scan.ckb line 1

Sat Sep 11 17:41:35 GMT 2021 UCOMP Paused for clouds

UCOMP COMMENT BY mcotter: Sat Sep 11 17:43:45 GMT 2021

There are clouds present in the viewing area which have caused me to pause the Kcor instrument, but the Ucomp instrument does not show any signs of overexposure. I have paused the Ucomp instrument using the "CLOUDS" button to be on the safe side, but am unsure whether it is necessary to do so if the image does not show signs of overexposure at this time.

I will need to get clarification on this matter.

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

WEATHER COMMENT: mcotter: Sat Sep 11 17:49:53 GMT 2021

High altitude Cirrus clouds are now scattered across the viewing area and it looks like it may stay this way for a while more. The instrument are stopped until sky conditions improve.

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

Sat Sep 11 18:07:59 GMT 2021 UCOMP Restarted from pause

Sat Sep 11 18:09:20 GMT 2021 Kcor Focus/alignment program exited

Sat Sep 11 18:10:23 GMT 2021 Running UCOMP Cookbook all\_coronal\_7\_flats.ckb line 0

UCOMP COMMENT BY mcotter: Sat Sep 11 18:15:01 GMT 2021

Restarted Ucomp.

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

GENERAL COMMENT BY mcotter: Sat Sep 11 18:16:22 GMT 2021

Restarted Kcor.

SGS Offsets: X(RA): -135, Y(Dec): 75.

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

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

KCOR COMMENT BY mcotter: Sat Sep 11 18:19:18 GMT 2021

It took several attempts to get a decently shaped parabola. There were signs of elevated aerosols present in the focus image, but the Kcor Stand Alone images look very good with a dark background and a well defined disk.

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

Sat Sep 11 18:33:51 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb line 0

Sat Sep 11 18:57:33 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb line 0

Sat Sep 11 19:20:57 GMT 2021 Running UCOMP Cookbook dark\_80ms\_2beam\_16sums\_BOTH.ckb line 0

GENERAL COMMENT BY mcotter: Sat Sep 11 19:20:53 GMT 2021

So far the RA & Y suggested offsets are aligning fairly close to the actual numbers. They typically appear to stay in the + or - 5 increments area (roughly). What throws me off sometimes is that when the numbers change from one update to the next the numbers may vary widely (+ - 10 increments or more) and that by the time I have looked at the numbers presented, updated the spar offset position, and then look back at the numbers presented again, there is sometimes a large disparity. I will need to develop an averaging method while keeping watch on the suggested offset values, then actually inputting a change to the spar offsets.

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

Sat Sep 11 19:22:19 GMT 2021 Running UCOMP Cookbook 530\_Pol\_Calibrate.ckb line 0

Sat Sep 11 19:27:01 GMT 2021 Running UCOMP Cookbook 637\_Pol\_Calibrate.ckb line 0

Sat Sep 11 19:31:22 GMT 2021 Running UCOMP Cookbook 656\_Pol\_Calibrate.ckb line 0

Sat Sep 11 19:35:42 GMT 2021 Running UCOMP Cookbook 691\_Pol\_Calibrate.ckb line 0

Sat Sep 11 19:40:02 GMT 2021 Running UCOMP Cookbook 706\_Pol\_Calibrate.ckb line 0

Sat Sep 11 19:44:22 GMT 2021 Running UCOMP Cookbook 789\_Pol\_Calibrate.ckb line 0

Sat Sep 11 19:48:42 GMT 2021 Running UCOMP Cookbook 1074\_Pol\_Calibrate.ckb line 0

Sat Sep 11 19:53:14 GMT 2021 Running UCOMP Cookbook 1079\_Pol\_Calibrate.ckb line 0

Sat Sep 11 19:57:33 GMT 2021 Running UCOMP Cookbook 1083\_Pol\_Calibrate.ckb line 0  
Sat Sep 11 20:01:52 GMT 2021 Running UCOMP Cookbook sumtest-1074.ckb line 0  
Sat Sep 11 20:07:40 GMT 2021 Running UCOMP Cookbook waves\_1074\_1hour.ckb line 0  
Sat Sep 11 20:13:43 GMT 2021 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini  
Sat Sep 11 20:16:39 GMT 2021 Running UCOMP Cookbook waves\_1074\_1hour.ckb line 14  
Sat Sep 11 20:28:56 GMT 2021 KCOR End Calibration Script  
Sat Sep 11 21:14:31 GMT 2021 Running UCOMP Cookbook dark\_200\_200\_1sums\_80ms.ckb line 0  
Sat Sep 11 21:19:36 GMT 2021 Running UCOMP Cookbook all\_coronal\_7\_flats.ckb line 0  
Sat Sep 11 21:22:11 GMT 2021 Running UCOMP Cookbook all\_coronal\_7\_flats.ckb line 4  
Sat Sep 11 21:22:12 GMT 2021 UCoMP Paused for clouds  
WEATHER COMMENT: mcotter: Sat Sep 11 21:28:38 GMT 2021  
Unfortunately Orthographic clouds moved into the observatory area from the northwest, with additional Altocumulus clouds forming over the summit of Mauna Loa as well. It had been a beautiful morning but these clouds moved in rather quickly.  
\_\_\_\_end\_\_\_\_  
GENERAL COMMENT BY mcotter: Sat Sep 11 21:29:38 GMT 2021  
The dome shutter doors and windows have been closed in the event of precipitation.  
\_\_\_\_end\_\_\_\_  
WEATHER COMMENT: mcotter: Sat Sep 11 23:47:07 GMT 2021  
Clouds have increased dramatically and the sky now is completely overcast with some mist.  
\_\_\_\_end\_\_\_\_  
GENERAL COMMENT BY mcotter: Sat Sep 11 23:47:36 GMT 2021  
Emptied trash receptacle in the control room.  
\_\_\_\_end\_\_\_\_  
GENERAL COMMENT BY mcotter: Sat Sep 11 23:51:34 GMT 2021  
The morning started it little bright with some high altitude Cirrus clouds, but the early morning clouds passed quickly and the instruments were able to collect some data. Later in the morning the clouds came in over the observatory very quickly and the observing area was obscured.  
\_\_\_\_end\_\_\_\_  
ONSITE STAFF: