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Mauna Loa Solar Observatory Observer's Log  
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Mon Aug 23 14:58:50 GMT 2021

Year: 21 Doy: 235

Observer: berkey

UCoMP COMMENT BY berkey: Mon Aug 23 14:58:54 GMT 2021

Changed ucomp recipes to now run 656 and 1083 SCI, DARK, and FLAT images in low gain 80ms to address some saturation/artifacts seen in the levell images. At this time the 2lwavelength scans and Polarization calibration data is still taken at 80ms high gain for all filters.

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

WEATHER COMMENT: mcotter: Mon Aug 23 16:39:38 GMT 2021

Temp: 42.6f, Humidity: 24%, Pressure: 28.7in, Wind: 4mph from 175degs, Skies: Clear but hazy skies. Inversion layer visible at or above Maunakea.

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

GENERAL COMMENT BY mcotter: Mon Aug 23 16:47:44 GMT 2021

Opened windows upstairs

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

GENERAL COMMENT BY mcotter: Mon Aug 23 16:47:54 GMT 2021

PM Blew off UCoMP O1

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

GENERAL COMMENT BY mcotter: Mon Aug 23 16:48:05 GMT 2021

PM Blew off Kcor O1

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

Mon Aug 23 17:04:18 GMT 2021 Running UCOMP Cookbook dark\_80ms\_2beam\_16sums\_BOTH.ckb

Mon Aug 23 17:04:44 GMT 2021 Running UCOMP Cookbook 530\_Scan.ckb

Mon Aug 23 17:07:38 GMT 2021 Kcor Focus/alignment program exited

Mon Aug 23 17:08:07 GMT 2021 Running UCOMP Cookbook 637\_Scan.ckb

UCoMP COMMENT BY mcotter: Mon Aug 23 17:10:00 GMT 2021

Ucomp now running.

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

Mon Aug 23 17:14:36 GMT 2021 Running UCOMP Cookbook 637\_Scan.ckb

Mon Aug 23 17:14:37 GMT 2021 Running UCOMP Cookbook 656\_Scan.ckb

Mon Aug 23 17:17:34 GMT 2021 Running UCOMP Cookbook 691\_Scan.ckb

Mon Aug 23 17:20:31 GMT 2021 Running UCOMP Cookbook 706\_Scan.ckb

KCOR COMMENT BY mcotter: Mon Aug 23 17:21:21 GMT 2021

Kcor now running.

SGS Offsets: X(RA): -128, Y(Dec): 93.

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

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

Mon Aug 23 17:31:27 GMT 2021 Running UCOMP Cookbook 706\_Scan.ckb

Mon Aug 23 17:31:28 GMT 2021 Running UCOMP Cookbook 789\_Scan.ckb

Mon Aug 23 17:34:25 GMT 2021 Running UCOMP Cookbook 1074\_Scan.ckb

Mon Aug 23 17:37:25 GMT 2021 Running UCOMP Cookbook 1079\_Scan.ckb

Mon Aug 23 17:40:21 GMT 2021 Running UCOMP Cookbook 1083\_Scan.ckb

Mon Aug 23 17:43:18 GMT 2021 Running UCOMP Cookbook all\_coronal\_7\_flats.ckb

UCoMP COMMENT BY mcotter: Mon Aug 23 17:59:17 GMT 2021

Ben and I are trying to determine if there is a drift in the occulter for the Ucomp instrument. I started the Ucomp instru

ment as normal and centered the occulter. We went back approximately 15 minutes later and there was a noticeable misalignment in the occulter position. Our initial alignment showed our occulter alligned at X=61.25 & Y=13.1. The change was to X=61.85 & Y= 12.6.

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

Mon Aug 23 18:04:12 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb  
Mon Aug 23 18:11:34 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb  
Mon Aug 23 18:31:04 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb  
Mon Aug 23 18:51:50 GMT 2021 Running UCOMP Cookbook dark\_80ms\_2beam\_16sums\_BOTH.ckb  
Mon Aug 23 18:52:14 GMT 2021 Running UCOMP Cookbook 530\_Pol\_Calibrate.ckb  
Mon Aug 23 18:56:48 GMT 2021 Running UCOMP Cookbook 637\_Pol\_Calibrate.ckb  
Mon Aug 23 19:01:02 GMT 2021 Running UCOMP Cookbook 656\_Pol\_Calibrate.ckb  
Mon Aug 23 19:05:14 GMT 2021 Running UCOMP Cookbook 691\_Pol\_Calibrate.ckb  
Mon Aug 23 19:09:27 GMT 2021 Running UCOMP Cookbook 706\_Pol\_Calibrate.ckb  
Mon Aug 23 19:13:39 GMT 2021 Running UCOMP Cookbook 789\_Pol\_Calibrate.ckb  
Mon Aug 23 19:17:52 GMT 2021 Running UCOMP Cookbook 1074\_Pol\_Calibrate.ckb  
Mon Aug 23 19:22:06 GMT 2021 Running UCOMP Cookbook 1079\_Pol\_Calibrate.ckb  
Mon Aug 23 19:23:49 GMT 2021 UCoMP Paused for clouds

WEATHER COMMENT: mcotter: Mon Aug 23 19:41:41 GMT 2021

Clouds have swiftly moved in from the Saddle Valley into the area of the observatory, additionally Altocumulus clouds have begun to rapidly form over the observatory and in the viewing area.

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

KCOR COMMENT BY mcotter: Mon Aug 23 19:42:06 GMT 2021

Kcor has ben halted due to clouds.

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

UCoMP COMMENT BY mcotter: Mon Aug 23 19:42:28 GMT 2021

Ucomp has been halted due to clouds.

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

GENERAL COMMENT BY mcotter: Mon Aug 23 19:44:40 GMT 2021

The clouds have quickly thickened and the sky is now overcast with darkening Altocumulus clouds.

The dome shutter doors and windows have been closed in the event of precipitation.

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

KCOR COMMENT BY mcotter: Mon Aug 23 19:54:13 GMT 2021

Earlier this morning, at approximately 07:40am HST, I observed particles in the Kcor NRGF image that I suspected to be located on the field lens. I opened the field lens chamber and could see a couple of small particles on the field lens physically located toward myself when observing the lens. I blew off the lens with compressed air and the particles came off. Afterwards I saw that the particles observed in the Kcor NRGF image were no longer present.

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

Mon Aug 23 22:59:29 GMT 2021 UCoMP Restarted from pause

UCoMP COMMENT BY berkey: Mon Aug 23 23:17:07 GMT 2021

Taking some closed dome test sequences to try an debug the issues we are having setting the occulter position in the morning. All data will be dark regardless of foroptics states.

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

Mon Aug 23 23:22:22 GMT 2021 Running UCOMP Cookbook dark\_80ms\_2beam\_16sums\_BOTH.ckb  
Mon Aug 23 23:22:32 GMT 2021 UCoMP Paused for clouds  
Mon Aug 23 23:22:39 GMT 2021 UCoMP Restarted from pause  
Mon Aug 23 23:22:56 GMT 2021 Running UCOMP Cookbook 530\_Scan.ckb  
Mon Aug 23 23:28:49 GMT 2021 Running UCOMP Cookbook 530\_Scan.ckb  
Mon Aug 23 23:28:49 GMT 2021 Running UCOMP Cookbook 637\_Scan.ckb

Mon Aug 23 23:45:30 GMT 2021 Running UCOMP Cookbook dark\_80ms\_2beam\_16sums\_BOTH.ckb  
Mon Aug 23 23:45:55 GMT 2021 Running UCOMP Cookbook 530\_Scan.ckb  
Mon Aug 23 23:49:19 GMT 2021 Running UCOMP Cookbook 637\_Scan.ckb  
Mon Aug 23 23:52:18 GMT 2021 Running UCOMP Cookbook 656\_Scan.ckb  
Mon Aug 23 23:57:31 GMT 2021 Running UCOMP Cookbook 656\_Scan.ckb  
Mon Aug 23 23:57:32 GMT 2021 Running UCOMP Cookbook 691\_Scan.ckb  
Tue Aug 24 00:00:29 GMT 2021 Running UCOMP Cookbook 706\_Scan.ckb  
Tue Aug 24 00:03:26 GMT 2021 Running UCOMP Cookbook 789\_Scan.ckb  
Tue Aug 24 00:06:25 GMT 2021 Running UCOMP Cookbook 1074\_Scan.ckb

WEATHER COMMENT: mcotter: Tue Aug 24 00:07:57 GMT 2021

Overcast skies with a light steady rain falling at this time.

Fog and mist blowing through the science area.

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

Tue Aug 24 00:22:28 GMT 2021 Running UCOMP Cookbook 1074\_Scan.ckb  
Tue Aug 24 00:24:45 GMT 2021 Running UCOMP Cookbook 1079\_Scan.ckb  
Tue Aug 24 00:27:41 GMT 2021 Running UCOMP Cookbook 1083\_Scan.ckb

WEATHER COMMENT: mcotter: Tue Aug 24 00:38:14 GMT 2021

Fog and mist continue.

The rain has picked up and it is now raining quite hard.

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

Tue Aug 24 01:13:41 GMT 2021 Running UCOMP Cookbook dark\_80ms\_2beam\_16sums\_BOTH.ckb  
Tue Aug 24 01:14:07 GMT 2021 Running UCOMP Cookbook 530\_Scan.ckb  
Tue Aug 24 01:17:32 GMT 2021 Running UCOMP Cookbook 637\_Scan.ckb  
Tue Aug 24 01:20:31 GMT 2021 Running UCOMP Cookbook 656\_Scan.ckb

GENERAL COMMENT BY mcotter: Tue Aug 24 02:06:51 GMT 2021

Occulter aperture stop assembly and linear stage physically inspected to try to understand the repeatability of the occulter alignment. Occulter/aperture stop assembly was also removed from the linear stage for inspection, hopefully the post was restored to the final position.

Near as can be told linear stage is moving reliably. Signs now point to a potential shift in the O1 pointing during morning start up. We have a test plan for the morning to try and test this assumption.

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

ONSITE STAFF: berkey, mcotter

ONSITE STAFF: