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Mauna Loa Solar Observatory Observer's Log  
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Tue Aug 17 16:32:43 GMT 2021

Year: 21 Doy: 229

Observer: berkey

Tue Aug 17 16:39:46 GMT 2021 Running UCOMP Cookbook dark\_80ms\_2beam\_16sums\_BOTH.ckb

Tue Aug 17 16:40:08 GMT 2021 Running UCOMP Cookbook 530\_Scan.ckb

Tue Aug 17 16:41:17 GMT 2021 Running UCOMP Cookbook 530\_Scan.ckb

Tue Aug 17 16:41:53 GMT 2021 Running UCOMP Cookbook 530\_Scan.ckb

Tue Aug 17 16:41:53 GMT 2021 Running UCOMP Cookbook 637\_Scan.ckb

Tue Aug 17 16:45:31 GMT 2021 Running UCOMP Cookbook 637\_Scan.ckb

Tue Aug 17 16:45:32 GMT 2021 Running UCOMP Cookbook 656\_Scan.ckb

UCOMP COMMENT BY berkey: Tue Aug 17 16:49:13 GMT 2021

Bug fix applied in the ucomp observing code; to handle an issue where it tried to run a blank recipe if center occulter was run after the last recipe in a cookbook.

The code now makes a check if we are at the end of a cookbook before starting the center occulter code and if so runs next cookbook after the center occulter instead of trying to run an empty string recipe.

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

UCOMP COMMENT BY berkey: Tue Aug 17 16:50:58 GMT 2021

Data taken between 16:39-16:45 were taken with the dome closed to test some functionality of the observing code, and should be considered either to be darks or garbage.

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

Tue Aug 17 17:29:39 GMT 2021 Running UCOMP Cookbook 656\_Scan.ckb

Tue Aug 17 17:34:14 GMT 2021 Kcor Focus/alignment program exited

Tue Aug 17 17:34:14 GMT 2021 Running UCOMP Cookbook 656\_Scan.ckb

Tue Aug 17 17:36:34 GMT 2021 Running UCOMP Cookbook 691\_Scan.ckb

WEATHER COMMENT: berkey: Tue Aug 17 17:37:44 GMT 2021

Temp: 44.9f, Humidity: 18%, Pressure: 28.711in, Wind: 2mph from 218degs, Skies: Clear, but slightly hazy skies with a high inversion layer visible on the horizon at or above Maunakea.

Little to no wind at this time.

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

GENERAL COMMENT BY berkey: Tue Aug 17 17:37:58 GMT 2021

Opened windows upstairs

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

GENERAL COMMENT BY berkey: Tue Aug 17 17:38:04 GMT 2021

PM Blew off UCOMP O1

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

GENERAL COMMENT BY berkey: Tue Aug 17 17:38:09 GMT 2021

PM Blew off Kcor O1

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

GENERAL COMMENT BY berkey: Tue Aug 17 17:38:28 GMT 2021

Ucomp now running.

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

Tue Aug 17 17:39:38 GMT 2021 Running UCOMP Cookbook 706\_Scan.ckb

Tue Aug 17 17:42:31 GMT 2021 Running UCOMP Cookbook 789\_Scan.ckb

KCOR COMMENT BY berkey: Tue Aug 17 17:42:35 GMT 2021

Kcor now running.

Focus routine image showed excessive aerosols. I was able to obtain a satisfactory parabola after a few attempts. Polarization checked good: Mid. Bright, Dark, Mid.

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

Tue Aug 17 17:45:25 GMT 2021 Running UCOMP Cookbook 1074\_Scan.ckb

GENERAL COMMENT BY berkey: Tue Aug 17 17:46:28 GMT 2021

Ben and I spent a short period of time prior to observing reviewing the spar in the dome coming up with a plan for remounting the guider, the targets and the coming up with a new moments and weights structural system. We believe we have a good plan for how to move forward. I am going to create some drawings, so as to give us a bill of material to go forward with.

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

Tue Aug 17 17:48:21 GMT 2021 Running UCOMP Cookbook 1079\_Scan.ckb

Tue Aug 17 17:51:14 GMT 2021 Running UCOMP Cookbook 1083\_Scan.ckb

Tue Aug 17 17:54:07 GMT 2021 Running UCOMP Cookbook all\_coronal\_7\_flats.ckb

Tue Aug 17 18:13:04 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb

Tue Aug 17 18:32:21 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb

Tue Aug 17 18:50:47 GMT 2021 Running UCOMP Cookbook dark\_80ms\_2beam\_16sums\_BOTH.ckb

Tue Aug 17 18:51:10 GMT 2021 Running UCOMP Cookbook 530\_Pol\_Calibrate.ckb

Tue Aug 17 18:55:52 GMT 2021 Running UCOMP Cookbook 637\_Pol\_Calibrate.ckb

Tue Aug 17 19:00:10 GMT 2021 Running UCOMP Cookbook 656\_Pol\_Calibrate.ckb

Tue Aug 17 19:04:26 GMT 2021 Running UCOMP Cookbook 691\_Pol\_Calibrate.ckb

Tue Aug 17 19:08:42 GMT 2021 Running UCOMP Cookbook 706\_Pol\_Calibrate.ckb

Tue Aug 17 19:13:07 GMT 2021 Running UCOMP Cookbook 789\_Pol\_Calibrate.ckb

Tue Aug 17 19:17:33 GMT 2021 Running UCOMP Cookbook 1074\_Pol\_Calibrate.ckb

GENERAL COMMENT BY berkey: Tue Aug 17 19:18:16 GMT 2021

The dome shutter opening alignment sensors were not picking up the dome edge properly, therefore causing the dome alignment not to advance at the proper time. Ben checked the sensors and found that the "Cloud Detection Sensor" (middle sensor) was not aligned properly. Ben realigned the Cloud Sensor, and verified the outer Edge Sensors. The dome is now advancing properly.

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

Tue Aug 17 19:21:51 GMT 2021 Running UCOMP Cookbook 1079\_Pol\_Calibrate.ckb

Tue Aug 17 19:26:07 GMT 2021 Running UCOMP Cookbook 1083\_Pol\_Calibrate.ckb

Tue Aug 17 19:30:22 GMT 2021 Running UCOMP Cookbook dark\_200\_200\_1sums\_80ms.ckb

Tue Aug 17 19:35:23 GMT 2021 Running UCOMP Cookbook all\_coronal\_7\_flats.ckb

Tue Aug 17 19:54:09 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb

Tue Aug 17 20:13:25 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb

Tue Aug 17 20:32:11 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb

Tue Aug 17 20:41:38 GMT 2021 UCOMP Paused for clouds

WEATHER COMMENT: berkey: Tue Aug 17 21:47:16 GMT 2021

Alto cumulus clouds have pushed up from the Saddle Valley into the observatory area and clouds are forming over the observatory. The sky is now overcast and both Kcor and Ucomp have been stopped.

The Dome is now closed.

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

Tue Aug 17 21:47:24 GMT 2021 UCOMP Restarted from pause

GENERAL COMMENT BY berkey: Tue Aug 17 23:05:14 GMT 2021

Mark Rast removed from the PSPT and general emailing lists.

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

WEATHER COMMENT: berkey: Wed Aug 18 01:26:51 GMT 2021

Light steady rain falling and heavy dense fog currently at the observatory.

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

GENERAL COMMENT BY berkey: Wed Aug 18 01:30:14 GMT 2021

The morning started out clear though aerosols were heavy and visible in the Kcor images. At approximately 11:15am HST clouds began forming over the observatory causing us to stop the Kcor and Ucomp instruments.

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

ONSITE STAFF: berkey, mcotter