
Mauna Loa Solar Observatory Observer's Log

Thu Nov 4 17:06:50 GMT 2021

Year: 21 Doy: 308

Observer: berkey

WEATHER COMMENT: berkey: Thu Nov 04 17:07:42 GMT 2021

Temp: 45.8f, Humidity: 23%, Pressure: 28.712in, Wind: 13mph from 145degs, Skies: Mostly clear with patchy cirrus in the east.

____end____

GENERAL COMMENT BY berkey: Thu Nov 04 17:41:49 GMT 2021

PM Blew off Kcor 01 front and back

____end____

GENERAL COMMENT BY berkey: Thu Nov 04 17:41:53 GMT 2021

PM Blew off UCOMP 01

____end____

Thu Nov 04 17:42:51 GMT 2021 Running UCOMP Cookbook dark_80ms_2beam_16sums_BOTH.cbk line 0

Thu Nov 04 17:47:55 GMT 2021 Kcor Focus/alignment program exited

Thu Nov 04 17:49:29 GMT 2021 Running UCOMP Cookbook dark_80ms_2beam_16sums_BOTH.cbk line 0

Thu Nov 04 17:50:45 GMT 2021 Running UCOMP Cookbook 637_Scan.cbk line 0

Thu Nov 04 17:52:41 GMT 2021 Running UCOMP Cookbook 656_Scan.cbk line 0

Thu Nov 04 17:54:40 GMT 2021 Running UCOMP Cookbook 789_Scan.cbk line 0

Thu Nov 04 17:56:29 GMT 2021 Running UCOMP Cookbook 1074_Scan.cbk line 0

Thu Nov 04 17:58:19 GMT 2021 Running UCOMP Cookbook 1079_Scan.cbk line 0

Thu Nov 04 18:00:08 GMT 2021 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Thu Nov 04 18:18:17 GMT 2021 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Thu Nov 04 19:29:27 GMT 2021 Running UCOMP Cookbook dark_80ms_2beam_16sums_BOTH.cbk line 0

Thu Nov 04 19:31:15 GMT 2021 Running UCOMP Cookbook diffuser-calibration.cbk line 0

Thu Nov 04 19:43:57 GMT 2021 Running UCOMP Cookbook diffuser-calibration.cbk line 0

Thu Nov 04 19:55:12 GMT 2021 Running UCOMP Cookbook diffuser-calibration.cbk line 0

Thu Nov 04 20:02:31 GMT 2021 Running UCOMP Cookbook diffuser-calibration.cbk line 0

Thu Nov 04 20:16:19 GMT 2021 UCOMP Paused for clouds

Thu Nov 04 20:16:51 GMT 2021 UCOMP Restarted from pause

Thu Nov 04 20:41:00 GMT 2021 Running UCOMP Cookbook find_focus.cbk line 0

Thu Nov 04 21:07:40 GMT 2021 Running UCOMP Cookbook dark_80ms_2beam_16sums_BOTH.cbk line 0

Thu Nov 04 21:08:57 GMT 2021 Running UCOMP Cookbook 637_Pol_Calibrate.cbk line 0

GENERAL COMMENT BY berkey: Thu Nov 04 21:08:45 GMT 2021

Tried running the ucomp diffuser calibration.

We had a couple recipe issues for the first couple passes but starting at 20:02:31, the data set contains flats with the ucomp diffuser, the 1" nd filter and the old comp diffusers.

With the 1" filter in the beam we see a circle of light about the size of the occulter but offset from the occulter toward the edge of FOV. Perhaps the box of the front of the O1 isn't concentric with the O1.

During this test I was worried the O1 the new O1 might have a tilt driving the image of the ND filter off the center of the detector (thinking about it now that the test is done I am less sure this makes sense). But the find_focus.cbk data 789 at various O1 positions was taken with ND filter in the beam to see if there was any beam walk.

____end____

Thu Nov 04 21:13:01 GMT 2021 Running UCOMP Cookbook 656_Pol_Calibrate.cbk line 0

UCOMP COMMENT BY berkey: Thu Nov 04 21:13:38 GMT 2021

At the end of the diffuser test I noticed the edge of the occulter in the "flats" which was also reported this morning by Steve. So post find_focus.cbk, some testing was done moving the occulter in and out of the beam while looking at flats (diffuser in the beam) in real time. Here we noticed that at the end of travel (-3.13mm) for the occulter stage the we no longer see the shadow of the occulter stage in the flats data.

I don't understand what changed such over the weekend to cause the occulter to no longer completely level the beam. But we have at least temporarily solved the issue by now

driving the Occulter stage to -3.13 mm when moving the occulter of the beam instead of the nominal home postilion of 0mm on the stage.

____end____

Thu Nov 04 21:17:05 GMT 2021 Running UCOMP Cookbook 789_Pol_Calibrate.cbk line 0

Thu Nov 04 21:21:08 GMT 2021 Running UCOMP Cookbook 1074_Pol_Calibrate.cbk line 0

Thu Nov 04 21:25:12 GMT 2021 Running UCOMP Cookbook 1079_Pol_Calibrate.cbk line 0

Thu Nov 04 21:29:16 GMT 2021 Running UCOMP Cookbook waves_1074_1hour.cbk line 0

Thu Nov 04 21:32:01 GMT 2021 UCoMP Paused for clouds

GENERAL COMMENT BY berkey: Thu Nov 04 21:33:50 GMT 2021

Lost guiding when the dome controller clipped the egde of the shutter. Shutter now ope ned up a bit further to avoid further clipping.

____end____

Thu Nov 04 21:35:39 GMT 2021 UCoMP Restarted from pause

Thu Nov 04 22:42:32 GMT 2021 Running UCOMP Cookbook dark_200_1sums_80ms.cbk line 0

Thu Nov 04 22:47:34 GMT 2021 Running UCOMP Cookbook all_wavelenght_coronal_flat.cbk line 0

Thu Nov 04 23:06:00 GMT 2021 Running UCOMP Cookbook all_wavelenght_coronal.cbk line 0

Thu Nov 04 23:44:53 GMT 2021 Running UCOMP Cookbook dark_80ms_2beam_16sums_BOTH.cbk line 0

Thu Nov 04 23:46:46 GMT 2021 Running UCOMP Cookbook all_wavelenght_coronal.cbk line 0

UCoMP COMMENT BY berkey: Thu Nov 04 23:47:54 GMT 2021

Fixed an issue with the occulter in position configuration. During this mornings fix of the occulter to move further out of range, the in position value was wrongly configured. During this time some disk light may have made it back to the modulator.

____end____

Thu Nov 04 23:49:55 GMT 2021 Running UCOMP Cookbook all_wavelenght_coronal.cbk line 7

Thu Nov 04 23:58:50 GMT 2021 UCoMP Paused for clouds

Fri Nov 05 00:07:42 GMT 2021 UCoMP Restarted from pause

UCoMP COMMENT BY berkey: Fri Nov 05 00:08:41 GMT 2021

The o1 motor had a hiccup and needed resetting.

____end____

ONSITE STAFF: berkey