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Mauna Loa Solar Observatory Observer's Log  
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Mon Sep 27 17:14:10 GMT 2021

Year: 21 Doy: 270

Observer: berkey

WEATHER COMMENT: berkey: Mon Sep 27 17:14:04 GMT 2021

Temp: 49.2f, Humidity: 7%, Pressure: 28.77in, Wind: 6mph from 98degs, Skies: clear

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

GENERAL COMMENT BY berkey: Mon Sep 27 17:21:00 GMT 2021

PM Blew off Kcor 01

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

GENERAL COMMENT BY berkey: Mon Sep 27 17:21:04 GMT 2021

PM Blew off UCoMP 01

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

Mon Sep 27 17:22:28 GMT 2021 Kcor Focus/alignment program exited

Mon Sep 27 17:23:52 GMT 2021 Running UCOMP Cookbook dark\_80ms\_2beam\_16sums\_BOTH.cbk line 0

Mon Sep 27 17:25:33 GMT 2021 Running UCOMP Cookbook all\_wavelength\_coronal\_flat.cbk line 0

Mon Sep 27 17:30:10 GMT 2021 KCOR Start Synoptic Patrol

Mon Sep 27 18:00:51 GMT 2021 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

GENERAL COMMENT BY berkey: Mon Sep 27 18:33:32 GMT 2021

UCoMP Raid array failed.

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

Mon Sep 27 18:57:22 GMT 2021 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

UCoMP COMMENT BY berkey: Mon Sep 27 19:01:06 GMT 2021

Restarting observing writing data to the OS disk.

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

Mon Sep 27 19:26:40 GMT 2021 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

Mon Sep 27 19:56:01 GMT 2021 Running UCOMP Cookbook dark\_80ms\_2beam\_16sums\_BOTH.cbk line 0

Mon Sep 27 19:57:26 GMT 2021 Running UCOMP Cookbook 530\_Pol\_Calibrate.cbk line 0

Mon Sep 27 20:02:14 GMT 2021 Running UCOMP Cookbook 637\_Pol\_Calibrate.cbk line 0

Mon Sep 27 20:06:36 GMT 2021 Running UCOMP Cookbook 656\_Pol\_Calibrate.cbk line 0

Mon Sep 27 20:10:55 GMT 2021 Running UCOMP Cookbook 691\_Pol\_Calibrate.cbk line 0

Mon Sep 27 20:15:25 GMT 2021 Running UCOMP Cookbook 706\_Pol\_Calibrate.cbk line 0

Mon Sep 27 20:19:44 GMT 2021 Running UCOMP Cookbook 789\_Pol\_Calibrate.cbk line 0

Mon Sep 27 20:24:05 GMT 2021 Running UCOMP Cookbook 1074\_Pol\_Calibrate.cbk line 0

Mon Sep 27 20:28:27 GMT 2021 Running UCOMP Cookbook 1079\_Pol\_Calibrate.cbk line 0

Mon Sep 27 20:32:47 GMT 2021 Running UCOMP Cookbook 1083\_Pol\_Calibrate.cbk line 0

Mon Sep 27 20:37:07 GMT 2021 Running UCOMP Cookbook waves\_1074\_1hour.cbk line 0

Mon Sep 27 21:43:03 GMT 2021 Running UCOMP Cookbook sumtest-1074.cbk line 0

Mon Sep 27 21:48:30 GMT 2021 Running UCOMP Cookbook dark\_200\_1sums\_80ms.cbk line 0

Mon Sep 27 21:53:39 GMT 2021 Running UCOMP Cookbook all\_wavelength\_coronal\_flat.cbk line 0

Mon Sep 27 22:32:02 GMT 2021 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

Mon Sep 27 22:39:07 GMT 2021 KCOR End Patrol

Mon Sep 27 22:39:08 GMT 2021 KCOR End Patrol

GENERAL COMMENT BY berkey: Mon Sep 27 22:39:01 GMT 2021

Sky getting brighter.

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

Tue Sep 28 00:34:34 GMT 2021 Kcor Focus/alignment program exited  
KCOR COMMENT BY berkey: Tue Sep 28 01:38:24 GMT 2021  
Added some features to the kcor observing code front panel.

Since the experiment code to calculate the SGS guider mis-pointing based on looking at the real time images looked ok but was a little noise. We now also have a running mean of the best RA/DEC zeropoints based on the last 8 images.

Also added an experimental indicator to track when we have seen too many saturated images; and a warning indicator will turn on once we we have seen 8 saturated images in a row. Current definition of saturated is at least 100,000 pixels having counts of at least 32,000 (where max possible value for the i16 is 32767). Both of these two values are controllable from front panel, for some experimentation on when to turn the indicator on. An upgrade path for this Warning monitor would be to add some code to close the COVER if we ever see N saturated images in a row.

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

UCoMP COMMENT BY berkey: Tue Sep 28 02:45:39 GMT 2021

Still initializing the data disk, looks like it should finish up in the next couple hours.

I think we will end up losing all the past data on the disk, but we won't know for a couple more hours.

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

ONSITE STAFF: berkey