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Mauna Loa Solar Observatory Observer's Log  
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Thu Sep 2 17:09:59 GMT 2021

Year: 21 Doy: 245

Observer: berkey

WEATHER COMMENT: berkey: Thu Sep 02 17:10:41 GMT 2021

Temp: 41.2f, Humidity: 100%, Pressure: 28.758in, Wind: 7mph from 106degs, Skies: clear but observatory was in clouds 20 mi nute ago.

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

GENERAL COMMENT BY berkey: Thu Sep 02 17:10:44 GMT 2021

PM Blew off Kcor 01

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

GENERAL COMMENT BY berkey: Thu Sep 02 17:10:49 GMT 2021

PM Blew off UCoMP 01

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

UCoMP COMMENT BY berkey: Thu Sep 02 17:11:40 GMT 2021

Installed the new occulter spacer ring, into the occulter stage.

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

Thu Sep 02 17:15:46 GMT 2021 Kcor Focus/alignment program exited

Thu Sep 02 17:18:26 GMT 2021 Running UCOMP Cookbook dark\_80ms\_2beam\_16sums\_BOTH.ckb line 0

Thu Sep 02 17:19:19 GMT 2021 KCOR Start Synoptic Patrol

Thu Sep 02 17:19:51 GMT 2021 Running UCOMP Cookbook 530\_Scan.ckb line 0

Thu Sep 02 17:23:15 GMT 2021 Running UCOMP Cookbook 637\_Scan.ckb line 0

Thu Sep 02 17:26:14 GMT 2021 Running UCOMP Cookbook 656\_Scan.ckb line 0

Thu Sep 02 17:29:12 GMT 2021 Running UCOMP Cookbook 691\_Scan.ckb line 0

Thu Sep 02 17:32:09 GMT 2021 Running UCOMP Cookbook 706\_Scan.ckb line 0

Thu Sep 02 17:35:06 GMT 2021 Running UCOMP Cookbook 789\_Scan.ckb line 0

Thu Sep 02 17:38:05 GMT 2021 Running UCOMP Cookbook 1074\_Scan.ckb line 0

Thu Sep 02 17:41:04 GMT 2021 Running UCOMP Cookbook 1079\_Scan.ckb line 0

Thu Sep 02 17:44:01 GMT 2021 Running UCOMP Cookbook 1083\_Scan.ckb line 0

Thu Sep 02 17:46:58 GMT 2021 Running UCOMP Cookbook all\_coronal\_7\_flats.ckb line 0

Thu Sep 02 18:11:18 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb line 0

Thu Sep 02 18:15:40 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb line 4

Thu Sep 02 18:38:51 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb line 0

Thu Sep 02 19:02:20 GMT 2021 Running UCOMP Cookbook dark\_80ms\_2beam\_16sums\_BOTH.ckb line 0

Thu Sep 02 19:03:43 GMT 2021 Running UCOMP Cookbook 530\_Pol\_Calibrate.ckb line 0

Thu Sep 02 19:04:34 GMT 2021 KCOR End Patrol

Thu Sep 02 19:04:35 GMT 2021 UCoMP Paused for clouds

Thu Sep 02 19:13:37 GMT 2021 UCoMP Restarted from pause

Thu Sep 02 19:17:28 GMT 2021 Running UCOMP Cookbook 637\_Pol\_Calibrate.ckb line 0

Thu Sep 02 19:21:51 GMT 2021 Running UCOMP Cookbook 656\_Pol\_Calibrate.ckb line 0

Thu Sep 02 19:26:11 GMT 2021 Running UCOMP Cookbook 691\_Pol\_Calibrate.ckb line 0

Thu Sep 02 19:30:25 GMT 2021 KCOR Start Synoptic Patrol

Thu Sep 02 19:30:26 GMT 2021 KCOR End Patrol

Thu Sep 02 19:30:27 GMT 2021 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Thu Sep 02 19:30:31 GMT 2021 Running UCOMP Cookbook 706\_Pol\_Calibrate.ckb line 0

Thu Sep 02 19:34:51 GMT 2021 Running UCOMP Cookbook 789\_Pol\_Calibrate.ckb line 0

Thu Sep 02 19:39:21 GMT 2021 Running UCOMP Cookbook 1074\_Pol\_Calibrate.ckb line 0  
Thu Sep 02 19:43:44 GMT 2021 Running UCOMP Cookbook 1079\_Pol\_Calibrate.ckb line 0  
Thu Sep 02 19:45:43 GMT 2021 KCOR End Calibration Script  
Thu Sep 02 19:46:00 GMT 2021 KCOR Start Synoptic Patrol  
Thu Sep 02 19:46:01 GMT 2021 KCOR Start Synoptic Patrol  
Thu Sep 02 19:48:04 GMT 2021 Running UCOMP Cookbook 1083\_Pol\_Calibrate.ckb line 0  
Thu Sep 02 19:52:24 GMT 2021 Running UCOMP Cookbook waves\_1074\_1hour.ckb line 0  
Thu Sep 02 20:55:52 GMT 2021 Running UCOMP Cookbook dark\_200\_200\_1sums\_80ms.ckb line 0  
Thu Sep 02 20:57:44 GMT 2021 Running UCOMP Cookbook dark\_200\_200\_1sums\_80ms.ckb line 1  
Thu Sep 02 21:00:26 GMT 2021 KCOR End Patrol  
Thu Sep 02 21:00:51 GMT 2021 KCOR End Patrol  
Thu Sep 02 21:02:40 GMT 2021 Running UCOMP Cookbook all\_coronal\_7\_flats.ckb line 0  
Thu Sep 02 21:02:45 GMT 2021 KCOR Start Synoptic Patrol  
Thu Sep 02 21:24:45 GMT 2021 KCOR End Patrol  
Thu Sep 02 21:24:52 GMT 2021 KCOR End Patrol  
Thu Sep 02 21:24:52 GMT 2021 UCoMP Paused for clouds  
Thu Sep 02 21:32:01 GMT 2021 UCoMP Restarted from pause  
Thu Sep 02 21:33:22 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb line 0  
Thu Sep 02 21:49:40 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb line 17  
Thu Sep 02 21:51:30 GMT 2021 UCoMP Paused for clouds  
Thu Sep 02 21:55:33 GMT 2021 UCoMP Restarted from pause  
Thu Sep 02 22:03:32 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb line 0  
Thu Sep 02 22:07:38 GMT 2021 UCoMP Paused for clouds  
GENERAL COMMENT BY berkey: Thu Sep 02 22:09:40 GMT 2021  
Fog near by closing dome.  
\_\_\_\_end\_\_\_\_  
Thu Sep 02 22:16:54 GMT 2021 UCoMP Restarted from pause  
Thu Sep 02 22:34:28 GMT 2021 Running UCOMP Cookbook testsave.cbk line 0  
Thu Sep 02 22:39:33 GMT 2021 Running UCOMP Cookbook testsave.cbk line 0  
GENERAL COMMENT BY berkey: Thu Sep 02 23:19:02 GMT 2021  
Added a new recipe keyword to toggle summing vs saving every frame.

The keyword is uses as:

SAVEALL IN to force ucomp to save every frame; so each modulator cycle looks like a new fits extension.

SAVEALL OUT to force ucomp to sum together frames.

For the recipe:

DATA RCAM BOTH 1074.7 16

If we are SAVEALL IN (save all frames) mode

We with a fits file with 16 extension (where each extension has 8 images 2 cameras\* 4 modulation states)

If we are SAVEALL OUT (sum frames) mode

We with a fits file with 1 extension (where each extension has 8 images 2 cameras\* 4 modulation states).

To test this new mode we took a few darks with the test.save.cbk this ran Dark\_16Sums.rcp mutiple times toggling back and

froth between saving and summing.

Note we still default to SUMMING when the initializing the UCoMP Observing code (default could be changed by editing the instrument\_config.ini).

It is expected that SAVING mode (via SAVEALL IN) will be toggled on for short periods and tests. And then toggled off when the test is over (via SAVEALL OUT).

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

GENERAL COMMENT BY berkey: Fri Sep 03 00:44:33 GMT 2021

PM Washed UCoMP 01. With soap and water

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

GENERAL COMMENT BY berkey: Fri Sep 03 02:19:40 GMT 2021

Low clouds cleared up a couple hours ago but inversion layer lifted up so the sky was too bright to observe.

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

ONSITE STAFF: berkey