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Mauna Loa Solar Observatory Observer's Log  
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Thu Aug 26 16:51:11 GMT 2021

Year: 21 Doy: 238

Observer: berkey

WEATHER COMMENT: berkey: Thu Aug 26 16:51:27 GMT 2021

Temp: 41.8f, Humidity: 17%, Pressure: 28.633in, Wind: 3mph from 146degs, Skies: clear

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

GENERAL COMMENT BY berkey: Thu Aug 26 16:58:32 GMT 2021

PM Blew off Kcor 01

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

GENERAL COMMENT BY berkey: Thu Aug 26 16:58:36 GMT 2021

PM Blew off UCOMP 01

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

Thu Aug 26 17:10:03 GMT 2021 Kcor Focus/alignment program exited  
Thu Aug 26 17:10:11 GMT 2021 Running UCOMP Cookbook dark\_80ms\_2beam\_16sums\_BOTH.ckb  
Thu Aug 26 17:10:37 GMT 2021 Running UCOMP Cookbook 530\_Scan.ckb  
Thu Aug 26 17:12:11 GMT 2021 KCOR Start Synoptic Patrol  
Thu Aug 26 17:14:00 GMT 2021 Running UCOMP Cookbook 637\_Scan.ckb  
Thu Aug 26 17:16:59 GMT 2021 Running UCOMP Cookbook 656\_Scan.ckb  
Thu Aug 26 17:19:56 GMT 2021 Running UCOMP Cookbook 691\_Scan.ckb  
Thu Aug 26 17:22:53 GMT 2021 Running UCOMP Cookbook 706\_Scan.ckb  
Thu Aug 26 17:25:50 GMT 2021 Running UCOMP Cookbook 789\_Scan.ckb  
Thu Aug 26 17:28:48 GMT 2021 Running UCOMP Cookbook 1074\_Scan.ckb  
Thu Aug 26 17:31:48 GMT 2021 Running UCOMP Cookbook 1079\_Scan.ckb  
Thu Aug 26 17:34:44 GMT 2021 Running UCOMP Cookbook 1083\_Scan.ckb  
Thu Aug 26 17:37:41 GMT 2021 Running UCOMP Cookbook all\_coronal\_7\_flats.ckb  
Thu Aug 26 18:04:01 GMT 2021 Running UCOMP Cookbook all\_coronal\_7\_flats.ckb  
Thu Aug 26 18:05:53 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb  
Thu Aug 26 18:30:34 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb  
Thu Aug 26 18:54:55 GMT 2021 Running UCOMP Cookbook dark\_80ms\_2beam\_16sums\_BOTH.ckb  
Thu Aug 26 18:55:21 GMT 2021 Running UCOMP Cookbook 530\_Pol\_Calibrate.ckb  
Thu Aug 26 19:00:02 GMT 2021 Running UCOMP Cookbook 637\_Pol\_Calibrate.ckb  
Thu Aug 26 19:03:57 GMT 2021 KCOR End Patrol  
Thu Aug 26 19:03:58 GMT 2021 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini  
Thu Aug 26 19:04:24 GMT 2021 Running UCOMP Cookbook 656\_Pol\_Calibrate.ckb  
Thu Aug 26 19:08:43 GMT 2021 Running UCOMP Cookbook 691\_Pol\_Calibrate.ckb  
Thu Aug 26 19:13:03 GMT 2021 Running UCOMP Cookbook 706\_Pol\_Calibrate.ckb  
Thu Aug 26 19:17:32 GMT 2021 Running UCOMP Cookbook 789\_Pol\_Calibrate.ckb  
Thu Aug 26 19:19:14 GMT 2021 KCOR End Calibration Script  
Thu Aug 26 19:19:30 GMT 2021 KCOR Start Synoptic Patrol  
Thu Aug 26 19:19:31 GMT 2021 KCOR Start Synoptic Patrol  
Thu Aug 26 19:21:52 GMT 2021 Running UCOMP Cookbook 1074\_Pol\_Calibrate.ckb  
Thu Aug 26 19:26:14 GMT 2021 Running UCOMP Cookbook 1079\_Pol\_Calibrate.ckb  
Thu Aug 26 19:30:34 GMT 2021 Running UCOMP Cookbook 1083\_Pol\_Calibrate.ckb  
Thu Aug 26 19:34:55 GMT 2021 Running UCOMP Cookbook dark\_200\_200\_1sums\_80ms.ckb  
Thu Aug 26 19:39:57 GMT 2021 Running UCOMP Cookbook all\_coronal\_7\_flats.ckb

Thu Aug 26 20:04:10 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb  
Thu Aug 26 20:20:25 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb  
Thu Aug 26 20:30:43 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb  
Thu Aug 26 20:55:03 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb  
Thu Aug 26 21:10:55 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb  
Thu Aug 26 21:21:37 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb  
Thu Aug 26 21:45:37 GMT 2021 Running UCOMP Cookbook 1074\_Pol\_Calibrate.ckb  
Thu Aug 26 21:49:34 GMT 2021 Running UCOMP Cookbook dark\_200\_200\_1sums\_80ms.ckb  
Thu Aug 26 21:52:12 GMT 2021 Running UCOMP Cookbook all\_coronal\_7\_flats.ckb  
Thu Aug 26 21:52:31 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb  
Thu Aug 26 21:52:40 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb  
Thu Aug 26 21:52:49 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb  
Thu Aug 26 21:52:58 GMT 2021 Running UCOMP Cookbook all\_coronal\_7.ckb  
Thu Aug 26 21:53:07 GMT 2021 Running UCOMP Cookbook 1074\_Pol\_Calibrate.ckb  
Thu Aug 26 21:53:29 GMT 2021 Running UCOMP Cookbook waves\_1074\_1hour.ckb  
Thu Aug 26 21:56:20 GMT 2021 Running UCOMP Cookbook waves\_1074\_1hour.ckb  
Thu Aug 26 22:54:36 GMT 2021 UCoMP Paused for clouds  
Thu Aug 26 22:54:47 GMT 2021 KCOR End Patrol  
Thu Aug 26 22:55:38 GMT 2021 UCoMP Restarted from pause  
Thu Aug 26 22:59:25 GMT 2021 Running UCOMP Cookbook dark\_200\_200\_1sums\_80ms.ckb  
Thu Aug 26 23:04:27 GMT 2021 Running UCOMP Cookbook all\_coronal\_7\_flats.ckb  
Thu Aug 26 23:17:06 GMT 2021 UCoMP Paused for clouds  
Thu Aug 26 23:37:43 GMT 2021 UCoMP Restarted from pause

UCoMP COMMENT BY berkey: Fri Aug 27 01:04:00 GMT 2021

Opened up UCoMP O1 captive mechanisms; to look for play in the system and attempt to lubricate the mechanism.

(With the O1 removed).

O1 door cover was remove, then the 6 screws that hold the front plate of the O1 focus assembly was removed. It looks like the pins that interface with the cone that keeps the O1 captive are pressed into to this cover. So when the cover was pulled away from the focus stage the pins came with the cover.

With the cover pulled forward a little way it was not obvious to me how the clamping cone mechanisms worked. But with the addition of a drop of lubricating oil on the pin side and cone side of the mechanisms the motion of the dogs became a lot smoother. It seems that the dogs also stayed put when pressed all the way in. Before the lubrication there was a bit of sloop in the does, escaipilly the east (short) dog, and that dog would slip under gravity 1/8-1/4" from its fully inserted position with the O1 installed.

O1 focus areas was then cleaned mutiple times to remove any possible oil residue that might have gotten away the clamping cones and or focus rails.

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

UCoMP COMMENT BY berkey: Fri Aug 27 02:15:23 GMT 2021

Watlow baseplate header setpoint changed from 30C to 32C.

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

UCoMP COMMENT BY berkey: Fri Aug 27 02:22:03 GMT 2021

Optics box circulation fan now wired to facility power.

Found a rectangular penetration (looks like it was cut out for a DB-9 connector) in the plate that covered the old CoMP be

am path. Also found a 12V wall wort powersupply that could power the fan, and a DC plug with pig tail wires that fit the powersupply connector.

The fan can be disconnected at

- the dc/dc plug inside the instrument box enclosure on the back bulkhead near the camerallink extenders
- At the AC/powersupply connector ziptied to the the spar balance system.
- Wall power plugs on the south side of the spar base.

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

UCoMP COMMENT BY berkey: Fri Aug 27 02:23:55 GMT 2021

Reinstalled the UCoMP O1.

The East (short) dog still has a little sloop. Looks like the mechanism still is having a little trouble pushing the cones into the O1.

Small shims were installed on the base of the O1 mount to reduce potentail play. And the dogs were tapped down to try and force the cones further into the O1 mount.

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

ONSITE STAFF: berkey