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Mauna Loa Solar Observatory Observer's Log  
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Mon Jun 14 15:26:55 GMT 2021

Year: 21 Doy: 165

Observer: lisapg

WEATHER COMMENT: lisapg: Mon Jun 14 16:14:23 GMT 2021

Temp: 37.5f with windspeed at about 6-12mph from the South at present. There are a few bands of cirrus in the Northern part of the sky and a bit of a haze but clear overhead.

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

GENERAL COMMENT BY lisapg: Mon Jun 14 16:30:47 GMT 2021

Opened windows upstairs

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

GENERAL COMMENT BY lisapg: Mon Jun 14 16:30:50 GMT 2021

PM Blew off Kcor O1

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

GENERAL COMMENT BY lisapg: Mon Jun 14 16:30:54 GMT 2021

PM Blew off UCoMP O1

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

GENERAL COMMENT BY lisapg: Mon Jun 14 16:49:51 GMT 2021

Kcor above dome

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

Mon Jun 14 16:51:20 GMT 2021 Kcor Focus/alignment program exited

Mon Jun 14 16:52:58 GMT 2021 KCOR Start Synoptic Patrol

Mon Jun 14 18:45:46 GMT 2021 KCOR End Patrol

Mon Jun 14 18:45:56 GMT 2021 KCOR End Patrol

GENERAL COMMENT BY lisapg: Mon Jun 14 18:48:44 GMT 2021

Passing cirrus, pushing through

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

Mon Jun 14 18:48:29 GMT 2021 KCOR Start Synoptic Patrol

Mon Jun 14 19:23:56 GMT 2021 KCOR End Patrol

Mon Jun 14 19:23:57 GMT 2021 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

GENERAL COMMENT BY lisapg: Mon Jun 14 19:31:37 GMT 2021

Cirrus crossing during the calibration. Letting it finish.

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

Mon Jun 14 19:33:43 GMT 2021 KCOR ABORT Calibration Script

Mon Jun 14 19:34:00 GMT 2021 KCOR Start Synoptic Patrol

Mon Jun 14 19:34:00 GMT 2021 KCOR Start Synoptic Patrol

GENERAL COMMENT BY lisapg: Mon Jun 14 19:37:31 GMT 2021

Nevermind, aborting calibration and holding off until cirrus has passed.

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

Mon Jun 14 19:39:05 GMT 2021 KCOR End Patrol

Mon Jun 14 19:39:17 GMT 2021 KCOR End Patrol

GENERAL COMMENT BY lisapg: Mon Jun 14 19:40:13 GMT 2021

Too bright for Kcor at present; Stopping Kcor for now.

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

GENERAL COMMENT BY lisapg: Mon Jun 14 19:45:23 GMT 2021

Sky too bright for UComp, pausing for clouds at present.

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

Mon Jun 14 19:55:35 GMT 2021 Kcor Focus/alignment program exited  
Mon Jun 14 19:59:27 GMT 2021 KCOR Start Synoptic Patrol  
Mon Jun 14 20:01:36 GMT 2021 KCOR End Patrol  
Mon Jun 14 20:01:37 GMT 2021 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini  
Mon Jun 14 20:16:53 GMT 2021 KCOR End Calibration Script  
Mon Jun 14 20:17:10 GMT 2021 KCOR Start Synoptic Patrol  
Mon Jun 14 20:17:10 GMT 2021 KCOR Start Synoptic Patrol  
Mon Jun 14 21:24:09 GMT 2021 KCOR End Patrol  
Mon Jun 14 21:24:22 GMT 2021 KCOR End Patrol  
GENERAL COMMENT BY lisapg: Mon Jun 14 21:25:01 GMT 2021  
Band if cirrus passing, Kcor idled a bit

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

Mon Jun 14 21:29:40 GMT 2021 KCOR Start Synoptic Patrol  
Mon Jun 14 21:33:16 GMT 2021 KCOR End Patrol  
Mon Jun 14 21:33:28 GMT 2021 KCOR End Patrol  
Mon Jun 14 21:36:31 GMT 2021 KCOR Start Synoptic Patrol  
Mon Jun 14 22:29:59 GMT 2021 KCOR End Patrol  
GENERAL COMMENT BY lisapg: Mon Jun 14 22:31:13 GMT 2021  
Cirrus crossing, Kcor stopped and UComp paused for clouds

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

Mon Jun 14 22:35:58 GMT 2021 Kcor Focus/alignment program exited  
Mon Jun 14 22:39:08 GMT 2021 KCOR Start Synoptic Patrol  
Mon Jun 14 22:49:25 GMT 2021 KCOR End Patrol  
Mon Jun 14 22:49:26 GMT 2021 KCOR End Patrol  
GENERAL COMMENT BY lisapg: Mon Jun 14 22:54:58 GMT 2021  
More cirrus again

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

Mon Jun 14 23:23:01 GMT 2021 Kcor Focus/alignment program exited  
Mon Jun 14 23:24:28 GMT 2021 KCOR Start Synoptic Patrol  
Mon Jun 14 23:35:35 GMT 2021 KCOR End Patrol  
Mon Jun 14 23:35:44 GMT 2021 KCOR End Patrol  
GENERAL COMMENT BY lisapg: Mon Jun 14 23:39:13 GMT 2021  
Sky too bright for Kcor at present

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

Mon Jun 14 23:47:43 GMT 2021 Kcor Focus/alignment program exited  
Mon Jun 14 23:49:09 GMT 2021 KCOR Start Synoptic Patrol  
Tue Jun 15 00:22:58 GMT 2021 KCOR End Patrol  
Tue Jun 15 00:23:11 GMT 2021 KCOR End Patrol  
GENERAL COMMENT BY lisapg: Tue Jun 15 00:25:19 GMT 2021  
Too bright for Kcor at present.

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

GENERAL COMMENT BY lisapg: Tue Jun 15 00:35:12 GMT 2021  
Hawaiian Telecom technicians came up and texted our phone line. Turns out our answering machine was shorting out phone line. They recommended we either get a new machine or get a combination phone/answering machine or not have one at all.

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

Tue Jun 15 00:53:34 GMT 2021 Kcor Focus/alignment program exited  
Tue Jun 15 00:54:54 GMT 2021 KCOR Start Synoptic Patrol

Tue Jun 15 01:02:09 GMT 2021 KCOR End Patrol

Tue Jun 15 01:02:13 GMT 2021 KCOR End Patrol

GENERAL COMMENT BY lisapg: Tue Jun 15 01:09:22 GMT 2021

Spar in the RA started oscillating, not sure why.

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

GENERAL COMMENT BY lisapg: Tue Jun 15 01:11:55 GMT 2021

Spar started oscillating again.

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

Tue Jun 15 01:19:01 GMT 2021 Kcor Focus/alignment program exited

Tue Jun 15 01:20:24 GMT 2021 KCOR Start Synoptic Patrol

Tue Jun 15 01:46:20 GMT 2021 KCOR End Patrol

Tue Jun 15 01:46:56 GMT 2021 KCOR End Patrol

GENERAL COMMENT BY lisapg: Tue Jun 15 01:54:25 GMT 2021

Kcor and UComp stopped for Kcor O1 removal.

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

GENERAL COMMENT BY berkey: Tue Jun 15 03:22:13 GMT 2021

PM Washed Kcor O1.

Inspection of the O1 showed a small doughnut shaped water spot about 2 inches N-NW of the center of the occulter. There was a cloud of a dozen of small spots about 1 inch from the edge near the East edge. There was also some residue near West and south, both of these were close enough to the edge that they may have been under the aperture stop.

I believe lens artifacts show up in the opposite side of the kcor FOV. So the water spot would show up in the S-SE side.

I don't think we have a good radial mapping for how far in the FOV an artifact will show up. Previous work with lens suggests to me that only the center ~4 inches contribute to bullet holes to kcor images. I don't think the artifact in the outer inch of the lens contributes to bullet holes. I am sure they contribute to the background levels and may cause other image issues (that aren't artifacts). All that said I don't think I see a clear mapping between stuff on the lens and issues in the kcor images.

Washing with soap and water appears to clean up all of the artifacts described above.

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

GENERAL COMMENT BY berkey: Tue Jun 15 03:24:13 GMT 2021

Cirrus moved in and is too thick to take kcor data so we cannot test the lens cleaning.

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

ONSITE STAFF: berkey, lisapg