
Mauna Loa Solar Observatory Observer's Log

Mon Dec 13 17:34:40 GMT 2021

Year: 21 Doy: 347

Observer: mlso

WEATHER COMMENT: mcotter: Mon Dec 13 17:35:55 GMT 2021

Temp: 38.6f, Humidity: 44%, Pressure: 28.75in, Wind: 12mph from 150degs, Skies: Clear skies with cold gusty winds out of the southeast.

___end___

GENERAL COMMENT BY mcotter: Mon Dec 13 17:43:36 GMT 2021

Opened windows upstairs

___end___

GENERAL COMMENT BY mcotter: Mon Dec 13 17:43:44 GMT 2021

PM Blew off UCOMP O1

___end___

GENERAL COMMENT BY mcotter: Mon Dec 13 17:43:54 GMT 2021

PM Blew off Kcor O1

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WEATHER COMMENT: mcotter: Mon Dec 13 17:46:42 GMT 2021

Temp: 39.9f, Humidity: 38%, Pressure: 28.759in, Wind: 19mph from 123degs. I am keeping an eye on the wind as they feel like they may be increasing and they are gusty, blowing from the southeast.

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Mon Dec 13 17:58:17 GMT 2021 Kcor Focus/alignment program exited

Mon Dec 13 17:59:30 GMT 2021 Running UCOMP Cookbook dark_80ms_2beam_16sums_BOTH.cbk line 0

Mon Dec 13 18:00:47 GMT 2021 Running UCOMP Cookbook 637_Scan.cbk line 0

Mon Dec 13 18:02:58 GMT 2021 Running UCOMP Cookbook 656_Scan.cbk line 0

Mon Dec 13 18:04:47 GMT 2021 Running UCOMP Cookbook 789_Scan.cbk line 0

Mon Dec 13 18:06:37 GMT 2021 Running UCOMP Cookbook 1074_Scan.cbk line 0

Mon Dec 13 18:08:27 GMT 2021 Running UCOMP Cookbook 1079_Scan.cbk line 0

Mon Dec 13 18:10:16 GMT 2021 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

UComp COMMENT BY mcotter: Mon Dec 13 18:15:56 GMT 2021

Ucomp instrument now running.

___end___

KCOR COMMENT BY mcotter: Mon Dec 13 18:19:21 GMT 2021

Kcor instrument now running.

SGS offsets: X(RA): 45, Y(Dec): 0.

Polarization checked good: Mid, Bright, Dark, Mid.

___end___

WEATHER COMMENT: mcotter: Mon Dec 13 18:22:14 GMT 2021

The wind continues to be gusty and is blowing directly into the dome slit from the southeast. Ben has closed the windows that face east and has partially closed the dome shutter upper door so as to act as a windscreen.

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Mon Dec 13 18:28:23 GMT 2021 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Mon Dec 13 19:10:44 GMT 2021 UCOMP Paused for clouds

Mon Dec 13 19:12:58 GMT 2021 UCOMP Restarted from pause

Mon Dec 13 19:41:54 GMT 2021 Running UCOMP Cookbook dark_80ms_2beam_16sums_BOTH.cbk line 0

Mon Dec 13 19:43:11 GMT 2021 Running UCOMP Cookbook 637_Pol_Calibrate.cbk line 0

Mon Dec 13 19:47:36 GMT 2021 Running UCOMP Cookbook 656_Pol_Calibrate.cbk line 0

Mon Dec 13 19:51:40 GMT 2021 Running UCOMP Cookbook 789_Pol_Calibrate.cbk line 0

Mon Dec 13 19:55:44 GMT 2021 Running UCOMP Cookbook 1074_Pol_Calibrate.cbk line 0

Mon Dec 13 19:58:21 GMT 2021 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Mon Dec 13 19:59:47 GMT 2021 Running UCOMP Cookbook 1079_Pol_Calibrate.cbk line 0

Mon Dec 13 20:03:51 GMT 2021 Running UCOMP Cookbook waves_1074_1hour.cbk line 0

Mon Dec 13 20:13:37 GMT 2021 KCOR End Calibration Script

Mon Dec 13 20:39:58 GMT 2021 Running UCOMP Cookbook waves_1074_1hour.cbk line 66

Mon Dec 13 21:08:21 GMT 2021 Running UCOMP Cookbook waves_1074_1hour.cbk line 115

Mon Dec 13 21:15:38 GMT 2021 Running UCOMP Cookbook dark_200_1sums_80ms.cbk line 0

Mon Dec 13 21:20:38 GMT 2021 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Mon Dec 13 21:39:06 GMT 2021 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Mon Dec 13 22:04:05 GMT 2021 UCoMP Paused for clouds
Tue Dec 14 00:09:28 GMT 2021 Kcor Focus/alignment program exited
Tue Dec 14 00:09:44 GMT 2021 UCoMP Restarted from pause
Tue Dec 14 00:14:02 GMT 2021 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

GENERAL COMMENT BY mcotter: Tue Dec 14 00:17:30 GMT 2021

During the strong storm last week the exterior door that leads to the upper dome vestibule, and the interior door from the vestibule to the dome, sustained wind and water damage. The exterior door is believed to have blown open and it allowed water, snow and sleet to collect in the vestibule area. The water caused the threshold for the interior door to swell, causing a misalignment and prevented the interior door to the dome from fully closing. The interior door hinges were realigned and all tightened, then the top aluminum cap for the threshold was removed. These actions seemingly corrected the alignment problem and the door now closes normally. Also the strong winds must have whipped the exterior door causing it to warp and get misaligned, as this door could not be closed and latched without removing the bottom weather strip and the door latch striker. Again, the door hinges were all checked, realigned and tightened. The bottom of the door that holds the weather strip was removed, repaired and re-installed with the weather stripping. The door latch striker was removed and the opening was enlarged slightly by filing, then reinstalled. These actions seemingly corrected the problems with the exterior door to the dome vestibule as it now closes normally.

A new replacement weather strip is going to be placed on order as the existing one is getting very brittle and is reaching the end of its useful life.

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Tue Dec 14 00:32:29 GMT 2021 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

GENERAL COMMENT BY mcotter: Tue Dec 14 00:32:28 GMT 2021

PM Washed Kcor 01.

Ben removed, cleaned and inspected the Kcor 01 lens. The new spot lamp was utilized during the cleaning and inspection process and it greatly increases our ability to see the lens more clearly. After the lens cleaning process a thorough inspection was made of the lens. We were able to identify several areas where the lens has sustained pitting and a few areas where small scratches exist. The Kcor 01 lens was reinstalled into the instrument by Ben and the instrument is now running. The first Kcor NRGF images of the newly cleaned lens unfortunately does not show a lot of improvement over earlier images from this morning. It is believed that many of the anomalies that we see in the data images are likely due to pitting in the 01 lens glass.

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Tue Dec 14 01:30:56 GMT 2021 Running UCOMP Cookbook all_wavelength_coronal.cbk line 28

Tue Dec 14 01:45:13 GMT 2021 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Tue Dec 14 02:53:10 GMT 2021 UCoMP Paused for clouds

Tue Dec 14 02:53:24 GMT 2021 UCoMP Restarted from pause

GENERAL COMMENT BY mcotter: Tue Dec 14 02:59:13 GMT 2021

Good day for observing. There was a short period of time midday when clouds came into the viewing area but they dissipated within an hour or so and we went back on sky after the Kcor 01 lens cleaning was complete.

____end____

ONSITE STAFF: berkey, mcotter