
Mauna Loa Solar Observatory Observer's Log

Mon Apr 25 16:29:53 GMT 2022

Year: 22 Doy: 115

Observer: mlso

WEATHER COMMENT: mcotter: Mon Apr 25 16:39:55 GMT 2022

Temp: 46.1f, Humidity: 15%, Pressure: 28.644in, Wind: 6mph from 169degs, Skies: Clear but slightly hazy skies. Heavy fog and mist in the Saddle Valley up to approximately the 7500' elevation level. Pink gray inversion layer visible on the horizon just below Haleakala. Moderate steady wind out of the east-southeast.

____end____

GENERAL COMMENT BY mcotter: Mon Apr 25 16:40:18 GMT 2022

Opened windows upstairs

____end____

GENERAL COMMENT BY mcotter: Mon Apr 25 16:40:25 GMT 2022

PM Blew off UCOMP 01

____end____

GENERAL COMMENT BY mcotter: Mon Apr 25 16:40:30 GMT 2022

PM Blew off Kcor 01

____end____

UCOMP COMMENT BY mcotter: Mon Apr 25 17:01:23 GMT 2022

UCOMP 01#2 installed for focus test.

____end____

Mon Apr 25 17:01:53 GMT 2022 Kcor Focus/alignment program exited

Mon Apr 25 17:13:26 GMT 2022 Running UCOMP Cookbook find_focus.cbk line 0

Mon Apr 25 17:30:01 GMT 2022 Running UCOMP Cookbook find_focus.cbk line 0

****Possible CME in Progress mcotter**** : Mon Apr 25 17:44:19 GMT 2022

Observers report with HIGH confidence a CME seeing launching near PA 120 deg with a minimum width of 20 deg at UT time 17:32:07.

____end____

Mon Apr 25 17:47:55 GMT 2022 Running UCOMP Cookbook find_focus.cbk line 0

Mon Apr 25 18:04:32 GMT 2022 Running UCOMP Cookbook find_focus.cbk line 0

Mon Apr 25 18:17:22 GMT 2022 Running UCOMP Cookbook find_focus.cbk line 0

Mon Apr 25 18:34:24 GMT 2022 Running UCOMP Cookbook find_focus.cbk line 0

Mon Apr 25 18:58:20 GMT 2022 Running UCOMP Cookbook find_focus.cbk line 0

Mon Apr 25 19:24:11 GMT 2022 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Mon Apr 25 19:27:47 GMT 2022 Running UCOMP Cookbook find_focus.cbk line 0

Mon Apr 25 19:39:22 GMT 2022 KCOR End Calibration Script

Mon Apr 25 19:46:06 GMT 2022 Running UCOMP Cookbook find_focus.cbk line 0

****Possible CME in Progress mcotter**** : Mon Apr 25 20:48:00 GMT 2022

Observers report with High confidence a CME seeing launching near PA 120 deg with a minimum width of 30 deg at UT time 19:24:08.

This CME is a secondary event from the same location as the CME that was detected earlier today at 17:32:07.

____end____

UCOMP COMMENT BY mcotter: Mon Apr 25 21:15:24 GMT 2022

01#2 offsets not updated yet taking polarization calcs.

____end____

Mon Apr 25 21:16:06 GMT 2022 Running UCOMP Cookbook dark_80ms_2beam_16sums_BOTH.cbk line 0

Mon Apr 25 21:17:23 GMT 2022 Running UCOMP Cookbook 637_Pol_Calibrate.cbk line 0

Mon Apr 25 21:21:33 GMT 2022 Running UCOMP Cookbook 706_Pol_Calibrate.cbk line 0

Mon Apr 25 21:25:36 GMT 2022 Running UCOMP Cookbook 789_Pol_Calibrate.cbk line 0

Mon Apr 25 21:29:39 GMT 2022 Running UCOMP Cookbook 1074_Pol_Calibrate.cbk line 0

Mon Apr 25 21:33:42 GMT 2022 Running UCOMP Cookbook 1079_Pol_Calibrate.cbk line 0

Mon Apr 25 21:38:15 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Mon Apr 25 21:53:07 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Mon Apr 25 22:21:34 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

Mon Apr 25 22:27:31 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

UCOMP COMMENT BY mcotter: Mon Apr 25 22:38:31 GMT 2022

New 01#2 updates applied looks like they go in the wrong direction so now we might not be able to focus on 1074, 1079 or 1083.

____end____

Mon Apr 25 22:39:58 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

e 0

Mon Apr 25 22:41:53 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0
GENERAL COMMENT BY mcotter: Mon Apr 25 23:06:03 GMT 2022

Strange behavior with the dome controller. Looks like both dome sensors when dark at the same time but the dome didn't move. On manual testing covering either sensor the dome to move. And multiple attempts were made to cover both at once but in every occurrence the dome still moved.

More dome troubleshooting to follow tomorrow with more favorable access to the dome sensors.

As a short term fix the dome was manually rotated to the west and we should be ok for the rest of the day. The dome never obstructed the instruments or guider.

____end____

Mon Apr 25 23:09:24 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0
Mon Apr 25 23:37:03 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0
Tue Apr 26 00:04:28 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0
Tue Apr 26 00:19:37 GMT 2022 Running UCOMP Cookbook waves_1074_1hour.cbk line 0
Tue Apr 26 01:28:23 GMT 2022 Running UCOMP Cookbook no-occultor-flat.cbk line 0
Tue Apr 26 01:34:59 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0
Tue Apr 26 02:03:10 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0
Tue Apr 26 02:18:30 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0
Tue Apr 26 02:46:34 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0
Tue Apr 26 03:14:01 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0
Tue Apr 26 03:34:48 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 14
Tue Apr 26 03:42:35 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

UCOMP COMMENT BY mcotter: Tue Apr 26 03:49:21 GMT 2022

PM Washed UCOMP 01.

Removed Ucomp 01#1 replaced it with Ucomp 01#2. The 01#1 lens showed quite a bit of contamination and foreign particles on the surfaces under inspection. The 01#1 lens was thoroughly rinsed with deionized water, both sides, then thoroughly cleaned with soap and water several times over the entire lens surface. Even after the repeated washings a speckling pattern of contamination could be seen on both sides of the lens. The lens was then cleaned thoroughly, both sides, with Acetone followed closely with deionized water to rinse. This was followed by thoroughly cleaning the lens, both sides, with Alcohol, followed closely with a deionized water rinse. The speckled pattern was observed to have diminished considerably by doing this procedure. The whole process was repeated; soap and water, Acetone and water, Alcohol and water and afterwards it was observed that most of the speckled foreign substance was removed. Spot cleaning with soap and water followed closely with a deionized water rinse was done to remove a few areas where water residue remained. Afterwards the lens was taken outside and inspected in full sunlight and the lens was considerably improved from the initial condition. It was determined to be too late to put the 01#1 back into the instrument today. Tomorrow morning I will remove the 01#2 lens and reinstall the 01#1.

____end____

GENERAL COMMENT BY mcotter: Tue Apr 26 03:49:59 GMT 2022

Emptied trash containers in clean room and control room.

____end____

GENERAL COMMENT BY mcotter: Tue Apr 26 03:59:08 GMT 2022

Excellent day for observing! Clear skies all day!

____end____

ONSITE STAFF: berkey, mcotter