Mauna Loa Solar Observatory Observer's Log Tue Mar 1 17:14:45 GMT 2022 Year: 22 Doy: 060 Observer: mcotter GENERAL COMMENT BY mcotter: Tue Mar 01 17:23:04 GMT 2022 Opened windows upstairs end GENERAL COMMENT BY mcotter: Tue Mar 01 17:23:13 GMT 2022 PM Blew off UCoMP 01 end GENERAL COMMENT BY mcotter: Tue Mar 01 17:23:18 GMT 2022 PM Blew off Kcor O1 end WEATHER COMMENT: mcotter: Tue Mar 01 17:24:58 GMT 2022 Temp: 43.3f, Humidity: 10%, Pressure: 28.707in, Wind: 13mph from 207degs, Skies: Clear but hazy skies in all directions. Pinkish gray inversion layer visible high on the hori zon well above Haleakala. Moderate winds out of the southwest. Beautiful morning! end Tue Mar 01 17:27:04 GMT 2022 Running UCOMP Cookbook all_wavelenght_coronal_flat.cbk lin e 0 UCOMP COMMENT BY mcotter: Tue Mar 01 17:28:16 GMT 2022 Ucomp instrument up and running. end Tue Mar 01 17:42:40 GMT 2022 Running UCOMP Cookbook all_wavelenght_coronal.cbk line 0 Tue Mar 01 17:43:55 GMT 2022 Kcor Focus/alignment program exited Tue Mar 01 18:07:14 GMT 2022 Running UCOMP Cookbook all_wavelenght_coronal.cbk line 15 Tue Mar 01 18:12:29 GMT 2022 Running UCOMP Cookbook all_wavelenght_coronal.cbk line 0 Tue Mar 01 18:40:07 GMT 2022 Running UCOMP Cookbook all_wavelenght_coronal.cbk line 0 Tue Mar 01 19:07:47 GMT 2022 Running UCOMP Cookbook all_wavelenght_coronal_flat.cbk lin e 0 Tue Mar 01 19:23:05 GMT 2022 Running UCOMP Cookbook waves_1074_1hour.cbk line 0 Tue Mar 01 19:29:55 GMT 2022 Running UCOMP Cookbook waves_1074_1hour.cbk line 11 Tue Mar 01 20:09:32 GMT 2022 KCOR Start Calibration script: c:\kcor\mlso-calibration22d eg-20171025.ini Tue Mar 01 20:09:30 GMT 2022 Running UCOMP Cookbook waves_1074_1hour.cbk line 79 Tue Mar 01 20:24:46 GMT 2022 KCOR End Calibration Script ****EVENT COMMENT BY mcotter**** : Tue Mar 01 20:30:55 GMT 2022 Fast jet seen launching in the kcor diff images near PA100 at 18:20ut end Tue Mar 01 20:35:51 GMT 2022 Running UCOMP Cookbook all_wavelenght_coronal.cbk line 0 Tue Mar 01 21:03:39 GMT 2022 Running UCOMP Cookbook all_wavelenght_coronal_flat.cbk lin e 0 Tue Mar 01 21:18:57 GMT 2022 Running UCOMP Cookbook all_wavelenght_coronal.cbk line 0 GENERAL COMMENT BY mcotter: Tue Mar 01 21:25:47 GMT 2022 Facility support arrived onsite a short time ago and Ben completed a walk through of th e observatory identifying various areas of the facility. The facility personal have beg un working on the various areas of upgrade. end WEATHER COMMENT: mcotter: Tue Mar 01 21:34:35 GMT 2022 Temp: 53.1f, Humidity: 24%, Pressure: 28.74in, Wind: 11mph from 334degs, Skies: So far the skies remain clear in all directions. Winds have dropped off a bit and are now blow ing from the north-northwest. end Tue Mar 01 21:42:39 GMT 2022 Running UCOMP Cookbook all_wavelenght_coronal.cbk line 15 Tue Mar 01 21:47:55 GMT 2022 Running UCOMP Cookbook all_wavelenght_coronal.cbk line 0 Tue Mar 01 22:17:20 GMT 2022 Running UCOMP Cookbook all_wavelenght_coronal.cbk line 18 Tue Mar 01 22:17:21 GMT 2022 Running UCOMP Cookbook all_wavelenght_coronal.cbk line 0 Tue Mar 01 22:42:00 GMT 2022 UCoMP Paused for clouds Tue Mar 01 22:43:28 GMT 2022 UCoMP Restarted from pause Tue Mar 01 22:46:32 GMT 2022 Running UCOMP Cookbook all_wavelenght_coronal_flat.cbk lin e 0 KCOR COMMENT BY mcotter: Tue Mar 01 22:56:50 GMT 2022 Since adopting the SGS Automatic Guider Zero-Point Offset program I have been closely o bserving and attempting to determine how well the occulter centering actually is and ho

w well it stays centered over the course of the day. My last few days working I have ob served, at times, the light being more pronounced and brighter on one side of the occul ter than the other. When speaking with Ben about this phenomenon Ben said that by adjus ting the "Threshold" level for the SPAR the concentricity of the corona light around th e occulter may be improved. This is because the actual light intensity increases during the course of the day. When I started out this morning the SGS threshold level was se t to 10000. At mid morning, approximately 10:00 am HST I increased the threshold to1500 0. At approximately 11:30 am HST I again increased the threshold level to 20000. Again Ben went through the process with me on how the values are calculated and how the "Offs ets", "Threshold" levels and "Saturation" levels are applied. Ben also pulled up an ima ge of the Ucomp-Threshold level coronal images showing the brightest pixels levels disp layed. Using this image we discussed the optimum intensity levels and how they vary. So far with the Threshold level set at 20000 the pixels saturation levels and concentri city appears to be aligned and stable. *NOTE*: The Threshold level and the Saturation level should be set to the same value. Max Saturation value: 100000. __end_ Tue Mar 01 23:02:01 GMT 2022 Running UCOMP Cookbook all_wavelenght_coronal.cbk line 0 Tue Mar 01 23:15:00 GMT 2022 UCoMP Paused for clouds WEATHER COMMENT: mcotter: Tue Mar 01 23:18:01 GMT 2022 Aerosols are increasing greatly and some small wisps of Cirrus clouds are beginning to form and pass through the viewing area. Both instruments are currently paused due to sky conditions. ___end_ Tue Mar 01 23:21:42 GMT 2022 UCoMP Restarted from pause WEATHER COMMENT: mcotter: Tue Mar 01 23:25:16 GMT 2022 Aerosols are high but I have restarted the Kcor instrument and so far the images look a cceptable. Kcor and Ucomp again up and running. __end_ Tue Mar 01 23:32:06 GMT 2022 UCoMP Paused for clouds WEATHER COMMENT: mcotter: Tue Mar 01 23:35:20 GMT 2022 Aerosols are increasing greatly and the images are beginning to look washed out. Additi onally, Cirrus clouds are beginning to become more prevalent and are now scattered over the observatory and viewing area. _end_ KCOR COMMENT BY mcotter: Tue Mar 01 23:35:49 GMT 2022 Kcor has been stopped due to sky conditions. _end_ UCOMP COMMENT BY mcotter: Tue Mar 01 23:36:13 GMT 2022 Ucomp has been paused due to sky conditions. _end_ Wed Mar 02 00:38:39 GMT 2022 UCoMP Restarted from pause Wed Mar 02 00:46:57 GMT 2022 UCoMP Paused for clouds GENERAL COMMENT BY mcotter: Wed Mar 02 02:17:14 GMT 2022 PM Blew off Kcor O1. Looking at the nrgf images there is a new large bullet hole in the NE that appears to m ove NW over time. Ol inspection showed a poorly attached piece of maybe be cotton fi bers about 2" from the west edge of the O1. It is unclear if this is the source of the large bullet hole; and if it was the source if it had moved since we were were pointin g at the sun imagine the big bullet hole.

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