
Mauna Loa Solar Observatory Observer's Log

Thu Jun 3 16:35:58 GMT 2021

Year: 21 Doy: 154

Observer: mlso

WEATHER COMMENT: mcotter: Thu Jun 03 16:36:33 GMT 2021

Temp: 46.2f, Humidity: 18%, Pressure: 28.627in, Wind: 2mph from 198degs, Skies: Clear but hazy skies with a very high inversion layer visible above Muankea. Little to no wind.

____end____

GENERAL COMMENT BY mcotter: Thu Jun 03 16:36:44 GMT 2021

Opened windows upstairs

____end____

GENERAL COMMENT BY mcotter: Thu Jun 03 16:38:03 GMT 2021

PM Blew off Kcor 01

Artifacts visible on the Kcor 01 lens that could not be removed with compressed air. A cleaning of the 01 is recommended.

____end____

Thu Jun 03 16:50:43 GMT 2021 Kcor Focus/alignment program exited

GENERAL COMMENT BY mcotter: Thu Jun 03 16:54:19 GMT 2021

The sky is too bright to run Kcor at this time.

____end____

GENERAL COMMENT BY mcotter: Thu Jun 03 17:18:22 GMT 2021

Kcor now running.

SGS offsets:X(RA): -130, Y(DEC): 65.

Polarization checked: Mid, Bright, Dark, Mid.

____end____

UCoMP COMMENT BY mcotter: Thu Jun 03 17:38:22 GMT 2021

Ucomp running as per Ben's instructions.

____end____

UCoMP COMMENT BY mcotter: Thu Jun 03 18:24:25 GMT 2021

I had some problems starting Ucomp, as I was uncertain to what state of the program sequence I was seeing. My biggest concern is that I did not start correctly and that I was leaving the detector vulnerable to over saturation and subsequent damage. I stopped the program and ensured that the cover was in the beam. Upon restarting Ucomp I was unfamiliar with the normal start up sequence so I called Ben and he instructed me verbally, and with remote operation, how to go through the start up sequence. With Ben's instruction I was able to successfully start Ucomp and begin running the required "cookbooks" and "recipe's".

Ucomp is now running.

____end____

GENERAL COMMENT BY mcotter: Thu Jun 03 18:25:14 GMT 2021

Thorlabs spare-sgs running.

____end____

Thu Jun 03 19:44:09 GMT 2021 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Thu Jun 03 19:59:25 GMT 2021 KCOR End Calibration Script

GENERAL COMMENT BY mcotter: Thu Jun 03 22:35:00 GMT 2021

The Yawcam-Preview camera view of the dome position did not look quite right so I went to the dome to verify. The dome was obscuring the Ucomp the view for the Ucomp instrument. Originally I had set the dome controls for "Auto-CW", but in order to correct for the position I needed to manually move the dome in the CCW direction. I left the dome controls in the "Auto-CCW" setting to correct for the misalignment and in order to track properly. I will continue to monitor to see if this c

corrects for any further dome misalignment.

____end____

GENERAL COMMENT BY mcotter: Thu Jun 03 22:37:07 GMT 2021

The Kcor image is becoming over saturated in the Kcor Synoptic Image as the sky is becoming quite bright. Kcor has been stopped at this time until condition improve.

____end____

GENERAL COMMENT BY mcotter: Thu Jun 03 23:07:48 GMT 2021

Again I manually adjusted the Dome rotation position because it did not look correct in the Yawcam-Preview image. The Ucomp viewing was again being blocked by the dome position. I manually positioned the dome to the correct position and left the dome rotation controls off. I will continue to monitor the dome position via the Yawcam-Preview camera image.

____end____

KCOR COMMENT BY mcotter: Thu Jun 03 23:11:29 GMT 2021

I attempted to run Kcor again but the sky is still much too bright.

____end____

GENERAL COMMENT BY mcotter: Fri Jun 04 00:30:06 GMT 2021

I readjusted the dome rotational position and tried to start Kcor, but the sky has gotten even brighter than previously. Kcor is again stopped.

____end____

WEATHER COMMENT: mcotter: Fri Jun 04 00:32:32 GMT 2021

Temp: 52.9f, Humidity: 50%, Pressure: 28.574in, Wind: 11mph from 48degs, Skies: The sky is free of clouds but it remains very very bright.

____end____

GENERAL COMMENT BY mcotter: Fri Jun 04 01:04:43 GMT 2021

I tried starting Kcor again but the sky remains much too bright.

____end____

WEATHER COMMENT: mcotter: Fri Jun 04 01:17:08 GMT 2021

Temp: 52.9f, Humidity: 53%, Pressure: 28.557in, Wind: 3mph from 355degs, Skies: Cirrocumulus clouds a visible in the sky when obscuring the Sun with my hand. The brightness of the sky is increasing and very perceptible when looking at the Yawcam-Preview image.

____end____

GENERAL COMMENT BY mcotter: Fri Jun 04 01:19:26 GMT 2021

Orthographic clouds are visible on the western slope of Maunaloa and appear to be holding steady in position but increasing in quantity.

____end____

****UCOMP PROBLEM COMMENT BY mcotter**** : Fri Jun 04 01:24:05 GMT 2021

Ucomp had been paused via the "Clouds" command when the brightness of the sky became so bright that Kcor was stopped. Now the sky is getting worse and high altitude Cirrocumulus and Cirrostratus clouds are forming over the observatory and across the sky.

Ucomp controller program has been shutdown.

____end____

GENERAL COMMENT BY mcotter: Fri Jun 04 01:40:58 GMT 2021

At the start of the day the weather was good and the sky was very clear. Both Kcor and Ucomp ran successfully until around noon time HST, at which time the sky had gotten quite bright and I was forced to stop Kcor and Ucomp. I tried several times over the course of the afternoon to restart Kcor, but I was unable to as the sky remained very bright throughout the day.

____end____

ONSITE STAFF: mcotter