
Mauna Loa Solar Observatory Observer's Log

Sat Nov 6 17:06:26 GMT 2021
Year: 21 Doy: 310
Observer: mlso
WEATHER COMMENT: mcotter: Sat Nov 06 17:09:06 GMT 2021
Temp: 41.9f, Humidity: 17%, Pressure: 28.767in, Wind: 7mph from 180degs, Skies: Overcas
t skies with high altitude Cirrus clouds spread across the entire sky. Inversion layer
visible on the horizon at or above Haleakala. Light wind blowing from the south.
___end___
GENERAL COMMENT BY mcotter: Sat Nov 06 17:17:55 GMT 2021
Opened windows upstairs
___end___
GENERAL COMMENT BY mcotter: Sat Nov 06 17:18:10 GMT 2021
PM Blew off UCoMP O1
___end___
GENERAL COMMENT BY mcotter: Sat Nov 06 17:18:16 GMT 2021
PM Blew off Kcor O1
___end___
Sat Nov 06 17:32:09 GMT 2021 Kcor Focus/alignment program exited
KCOR COMMENT BY mcotter: Sat Nov 06 17:36:30 GMT 2021
I attempted to run the Kcor focus routine but the sky is much too bright to run the Kco
r instrument at this time.
___end___
UCoMP COMMENT BY mcotter: Sat Nov 06 17:36:59 GMT 2021
The sky is too bright to run Ucomp at this time.
___end___
Sat Nov 06 19:00:51 GMT 2021 Kcor Focus/alignment program exited
WEATHER COMMENT: mcotter: Sat Nov 06 19:03:06 GMT 2021
The sky seems to have cleared.
___end___
Sat Nov 06 19:04:30 GMT 2021 Running UCOMP Cookbook dark_80ms_2beam_16sums_BOTH.cbk lin
e 0
KCOR COMMENT BY mcotter: Sat Nov 06 19:05:13 GMT 2021
Kcor now running.
SGS Offsets: X(RA): 0, Y(Dec): 10.
Polarization checked good: Mid, Bright, Dark, Mid.
___end___
Sat Nov 06 19:05:47 GMT 2021 Running UCOMP Cookbook 637_Scan.cbk line 0
UCoMP COMMENT BY mcotter: Sat Nov 06 19:05:31 GMT 2021
Ucomp now running.
___end___
Sat Nov 06 19:07:55 GMT 2021 Running UCOMP Cookbook 656_Scan.cbk line 0
Sat Nov 06 19:09:46 GMT 2021 Running UCOMP Cookbook 789_Scan.cbk line 0
Sat Nov 06 19:11:35 GMT 2021 Running UCOMP Cookbook 1074_Scan.cbk line 0
Sat Nov 06 19:13:25 GMT 2021 Running UCOMP Cookbook 1079_Scan.cbk line 0
Sat Nov 06 19:15:14 GMT 2021 Running UCOMP Cookbook all_wavelenght_coronal_flat.cbk lin
e 0
WEATHER COMMENT: mcotter: Sat Nov 06 19:18:40 GMT 2021
High altitude Cirrus clouds are still scattered in areas across the sky, but in the vie
wing area of the Sun the Cirrus seems to have dissipated. The sky remains a bit bright,
 as can be seen in the Kcor Focus Routine with aerosols prevalent, but the Kcor Stand A
lone Image Acquisition images look good.
___end___
GENERAL COMMENT BY mcotter: Sat Nov 06 19:21:48 GMT 2021
PM Blew off Kcor Field Lens.
A fiber or hair has appeared in the Kcor NRGF Image so I blew off the Kcor Filed Lens i
n order to remove the object. It appears to have worked as the object is now gone.
___end___
Sat Nov 06 19:26:28 GMT 2021 UCoMP Paused for clouds
GENERAL COMMENT BY mcotter: Sat Nov 06 19:28:04 GMT 2021
I have had to pause both Kcor and Ucomp as the sky has become quite bright as can be ob
served in the Kcor Stand Alone Images.
___end___
Sat Nov 06 19:32:08 GMT 2021 UCoMP Restarted from pause
Sat Nov 06 19:32:59 GMT 2021 UCoMP Paused for clouds

GENERAL COMMENT BY mcotter: Sat Nov 06 19:34:17 GMT 2021
The sky as viewed in the Yawcam -Preview image looks better but the sky continues to be a little bright. I tried restarting both Kcor and Ucomp but it is too bright to run at this time.
___end___
Sat Nov 06 19:42:26 GMT 2021 UCoMP Restarted from pause
GENERAL COMMENT BY mcotter: Sat Nov 06 19:42:48 GMT 2021
The Kcor and Ucomp instruments are again running.
___end___
Sat Nov 06 19:46:40 GMT 2021 UCoMP Paused for clouds
GENERAL COMMENT BY mcotter: Sat Nov 06 19:51:37 GMT 2021
The Kcor and Ucomp instruments are again paused for bright skies.
When looking at the sky it is difficult to to see clouds or any unusual brightness in the viewing area. The sky, as seen in the Yawcam Preview image, looks quite blue. I will continue to operate the instruments periodically to see if the sky has improved.
___end___
Sat Nov 06 20:20:47 GMT 2021 Kcor Focus/alignment program exited
GENERAL COMMENT BY mcotter: Sat Nov 06 20:26:52 GMT 2021
I tried restarting the Kcor Stand Alone Image Acquisition program several times and it was unresponsive. I Shut down the Kcor programs, waited a half minute and restarted all the Kcor programs and they all came up properly.
___end___
Sat Nov 06 20:27:40 GMT 2021 UCoMP Restarted from pause
Sat Nov 06 20:29:09 GMT 2021 Running UCOMP Cookbook all_wavelenght_coronal.cbk line 0
Sat Nov 06 20:30:42 GMT 2021 UCoMP Paused for clouds
GENERAL COMMENT BY mcotter: Sat Nov 06 20:33:49 GMT 2021
I again attempted to run the Kcor instrument, though the focus routine image looked a bit bright and aerosols were visible in the images. When the Kcor Stand Alone Image Acquisition images came up they looked good, but within a few minutes they began to get bright again. I again paused the instruments but will continue to try and get on sky as the sky actually looks good when looking at it with the naked eye.
___end___
Sat Nov 06 22:59:24 GMT 2021 Kcor Focus/alignment program exited
Sat Nov 06 23:00:22 GMT 2021 UCoMP Restarted from pause
Sat Nov 06 23:01:08 GMT 2021 UCoMP Paused for clouds
Sat Nov 06 23:01:58 GMT 2021 UCoMP Restarted from pause
Sat Nov 06 23:05:00 GMT 2021 Running UCOMP Cookbook all_wavelenght_coronal.cbk line 7
WEATHER COMMENT: mcotter: Sat Nov 06 23:07:41 GMT 2021
The sky seems to have cleared a bit and it is not quite as bright as it was earlier.
___end___
KCOR COMMENT BY mcotter: Sat Nov 06 23:08:09 GMT 2021
Kcor instrument now running again.
___end___
UCoMP COMMENT BY mcotter: Sat Nov 06 23:08:31 GMT 2021
Ucomp instrument now running again.
___end___
Sun Nov 07 00:11:53 GMT 2021 Running UCOMP Cookbook dark_80ms_2beam_16sums_BOTH.cbk line 0
Sun Nov 07 00:13:10 GMT 2021 Running UCOMP Cookbook 637_Pol_Calibrate.cbk line 0
Sun Nov 07 00:17:33 GMT 2021 Running UCOMP Cookbook 656_Pol_Calibrate.cbk line 0
Sun Nov 07 00:21:36 GMT 2021 Running UCOMP Cookbook 789_Pol_Calibrate.cbk line 0
Sun Nov 07 00:25:40 GMT 2021 Running UCOMP Cookbook 1074_Pol_Calibrate.cbk line 0
Sun Nov 07 00:29:43 GMT 2021 Running UCOMP Cookbook 1079_Pol_Calibrate.cbk line 0
Sun Nov 07 00:33:47 GMT 2021 Running UCOMP Cookbook waves_1074_1hour.cbk line 0
Sun Nov 07 01:43:25 GMT 2021 Running UCOMP Cookbook dark_200_1sums_80ms.cbk line 0
Sun Nov 07 01:48:24 GMT 2021 Running UCOMP Cookbook all_wavelenght_coronal_flat.cbk line 0
Sun Nov 07 02:07:00 GMT 2021 Running UCOMP Cookbook all_wavelenght_coronal.cbk line 0
Sun Nov 07 02:10:37 GMT 2021 UCoMP Paused for clouds
Sun Nov 07 02:23:41 GMT 2021 UCoMP Restarted from pause
Sun Nov 07 02:27:14 GMT 2021 Running UCOMP Cookbook all_wavelenght_coronal.cbk line 7
UCoMP COMMENT BY mcotter: Sun Nov 07 02:38:52 GMT 2021
Twice I have noticed that the Ucomp image will look over saturated and that it appears that the occulter alignment is far off, but when I look at the Kcor image it looks fine. I paused the instrument with the "Cloud" button and then engaged the "Center Occulter" button. When the occulter image came up to be centered it did not appear to be far off. I am unsure of what is going on. When I first saw this condition I thought that per

haps a filter or some other mechanical devise might not have made it through full travel. But when I leave the "Center Occulter" GUI, after making just minor adjustments, the screen and occulter position seem fine and the instrument appears to be functioning normal. I have not seen this anomaly happen before but will continue to watch and report if it occurs again.
___end___
GENERAL COMMENT BY mcotter: Sun Nov 07 02:56:42 GMT 2021
The sky is beginning to get a little bright and aerosols are becoming quite prevalent in the Kcor NRGF image.
___end___
GENERAL COMMENT BY mcotter: Sun Nov 07 02:57:14 GMT 2021
Emptied trash receptacles in the observatory.
___end___
GENERAL COMMENT BY mcotter: Sun Nov 07 03:13:44 GMT 2021
The day started out clear but there was some areas of the sky that had high altitude Cirrus present. I was able to collect some data this morning in between clouds and bright areas of the sky, but by afternoon the sky conditions improved considerably and I was able to run both Kcor and Ucomp for most of the afternoon.
___end___
ONSITE STAFF: mcotter