
Mauna Loa Solar Observatory Observer's Log

Sat Dec 25 17:26:58 GMT 2021

Year: 21 Doy: 359

Observer: mlso

GENERAL COMMENT BY mcotter: Sat Dec 25 17:28:03 GMT 2021

MERRY CHRISTMAS!!!!

____end____

WEATHER COMMENT: mcotter: Sat Dec 25 17:30:01 GMT 2021

Temp: 32.4f, Humidity: 27%, Pressure: 28.749in, Wind: 8mph from 180degs, Skies: Clear and cold! A bit hazy at lower elevations with an inversion layer discernible on the horizon at or above Maunakea. Light wind from the south.

____end____

Sat Dec 25 18:01:42 GMT 2021 Kcor Focus/alignment program exited

Sat Dec 25 18:03:36 GMT 2021 Running UCOMP Cookbook dark_80ms_2beam_16sums_BOTH.cbk line 0

Sat Dec 25 18:04:53 GMT 2021 Running UCOMP Cookbook 637_Scan.cbk line 0

UCOMP COMMENT BY mcotter: Sat Dec 25 18:05:36 GMT 2021

Ucomp instrument now running.

____end____

KCOR COMMENT BY mcotter: Sat Dec 25 18:07:07 GMT 2021

Kcor instrument now running.

SGS offsets: X(RA): 50, Y(Dec): -10.

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

____end____

Sat Dec 25 18:07:03 GMT 2021 Running UCOMP Cookbook 656_Scan.cbk line 0

GENERAL COMMENT BY mcotter: Sat Dec 25 18:08:10 GMT 2021

Though the sky is a bit bright both instrument are running and the images look good.

____end____

Sat Dec 25 18:08:53 GMT 2021 Running UCOMP Cookbook 789_Scan.cbk line 0

GENERAL COMMENT BY mcotter: Sat Dec 25 18:09:38 GMT 2021

Opened windows upstairs

____end____

GENERAL COMMENT BY mcotter: Sat Dec 25 18:09:46 GMT 2021

PM Blew off UCOMP 01

____end____

GENERAL COMMENT BY mcotter: Sat Dec 25 18:09:54 GMT 2021

PM Blew off Kcor 01

____end____

Sat Dec 25 18:10:42 GMT 2021 Running UCOMP Cookbook 1074_Scan.cbk line 0

Sat Dec 25 18:12:32 GMT 2021 Running UCOMP Cookbook 1079_Scan.cbk line 0

Sat Dec 25 18:14:21 GMT 2021 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

KCOR COMMENT BY mcotter: Sat Dec 25 18:30:46 GMT 2021

There is a protrusion coming out at approximate PA 250 deg at 18:10 UT, as can be observed in the Kcor NRGF image, that is brighter than any protrusion I have previously observed. It is so bright that I can see it in the Kcor synoptic images. So far it does not have the rapidly moving material that would be indicative of a CME, but it is worth noting because of it's intensity and size.

____end____

Sat Dec 25 18:32:28 GMT 2021 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

GENERAL COMMENT BY mcotter: Sat Dec 25 19:25:16 GMT 2021

The prominence that I referred to in my previous comment is very bright and noticeable in the Kcor DIFF image, as well as the Kcor NRGF image. I keep checking my email to see if an automated alert has been sent out but nothing as of yet. Again, I do not see any projectile(s) flying away from the corona but it is big and it is very noticeable.

____end____

Sat Dec 25 19:43:48 GMT 2021 Running UCOMP Cookbook no-occulter-flat.cbk line 0

Sat Dec 25 19:50:21 GMT 2021 Running UCOMP Cookbook dark_80ms_2beam_16sums_BOTH.cbk line 0

Sat Dec 25 19:51:38 GMT 2021 Running UCOMP Cookbook 637_Pol_Calibrate.cbk line 0

Sat Dec 25 19:55:57 GMT 2021 Running UCOMP Cookbook 656_Pol_Calibrate.cbk line 0

Sat Dec 25 20:00:01 GMT 2021 Running UCOMP Cookbook 789_Pol_Calibrate.cbk line 0

Sat Dec 25 20:04:05 GMT 2021 Running UCOMP Cookbook 1074_Pol_Calibrate.cbk line 0

Sat Dec 25 20:08:08 GMT 2021 Running UCOMP Cookbook 1079_Pol_Calibrate.cbk line 0

Sat Dec 25 20:12:12 GMT 2021 Running UCOMP Cookbook waves_1074_1hour.cbk line 0

Sat Dec 25 20:53:26 GMT 2021 Running UCOMP Cookbook waves_1074_1hour.cbk line 75

Sat Dec 25 21:00:06 GMT 2021 Running UCOMP Cookbook waves_1074_1hour.cbk line 85

GENERAL COMMENT BY mcotter: Sat Dec 25 21:16:06 GMT 2021

I am not going to run the calibration sequence today, as I am still monitoring the large protrusion coming from approximate polar angle 250 deg.

The Kcor NRGF image shows the protrusion with great prominence, though the Kcor DIFF image shows it brightly flowing in and out with much activity. I keep checking my email to see if an automated CME alert has been sent out, but so far nothing has shown up in my mail. I would very much like to discuss this at one of our upcoming meetings. If I was going solely by the Kcor DIFF image I may be inclined to send out an alert.

____end____

Sat Dec 25 21:24:11 GMT 2021 Running UCOMP Cookbook dark_200_1sums_80ms.cbk line 0

Sat Dec 25 21:29:10 GMT 2021 Running UCOMP Cookbook no-occulter-flat.cbk line 0

Sat Dec 25 21:35:42 GMT 2021 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Sat Dec 25 21:54:05 GMT 2021 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

GENERAL COMMENT BY mcotter: Sat Dec 25 22:33:45 GMT 2021

Emptied trash receptacles in the dome and the control room.

____end____

GENERAL COMMENT BY mcotter: Sat Dec 25 23:06:41 GMT 2021

Good morning for collecting data. Clear and cold, though just a little bright. Orthographic clouds are beginning to make their way up the northwestern slope of Maunaloa, some high altitude Cirrus is forming to the southwest.

____end____

ONSITE STAFF: mcotter