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Mauna Loa Solar Observatory Observer's Log  
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Thu Mar 10 17:20:34 GMT 2022

Year: 22 Doy: 069

Observer: berkey

WEATHER COMMENT: berkey: Thu Mar 10 17:21:09 GMT 2022

Temp: 33.8f, Humidity: 71%, Pressure: 28.85in, Wind: 6mph from 169degs, Skies: clear above with a high inversion layer

\_\_\_\_end\_\_\_\_

Thu Mar 10 17:31:07 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal\_flat.cbk line 0

GENERAL COMMENT BY berkey: Thu Mar 10 17:31:22 GMT 2022

PM Blew off Kcor 01

\_\_\_\_end\_\_\_\_

GENERAL COMMENT BY berkey: Thu Mar 10 17:31:26 GMT 2022

PM Blew off UCOMP 01

\_\_\_\_end\_\_\_\_

Thu Mar 10 17:37:16 GMT 2022 Kcor Focus/alignment program exited

Thu Mar 10 17:46:23 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

Thu Mar 10 17:47:04 GMT 2022 KCOR Start Synoptic Patrol

Thu Mar 10 18:14:30 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

Thu Mar 10 18:32:35 GMT 2022 KCOR End Patrol

Thu Mar 10 18:32:36 GMT 2022 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Thu Mar 10 18:42:18 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

Thu Mar 10 18:47:51 GMT 2022 KCOR End Calibration Script

Thu Mar 10 18:48:07 GMT 2022 KCOR Start Synoptic Patrol

Thu Mar 10 18:48:08 GMT 2022 KCOR Start Synoptic Patrol

Thu Mar 10 19:09:59 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal\_flat.cbk line 0

Thu Mar 10 19:25:15 GMT 2022 Running UCOMP Cookbook waves\_1074\_1hour.cbk line 0

\*\*\*\*Possible CME in Progress berkey\*\*\*\* : Thu Mar 10 19:26:05 GMT 2022

Observers report with high confidence a CME seen launching near PA0 with a minimum width of 60 degrees] at UT time 18:30

\_\_\_\_end\_\_\_\_

\*\*\*\*Possible CME in Progress berkey\*\*\*\* : Thu Mar 10 19:45:54 GMT 2022

Observers report with high confidence a CME seen launching near PA70 with a minimum width of 5 degrees at UT time 19:00UT

\_\_\_\_end\_\_\_\_

Thu Mar 10 20:34:41 GMT 2022 Running UCOMP Cookbook no-occulter-flat.cbk line 0

Thu Mar 10 20:41:08 GMT 2022 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

Thu Mar 10 21:00:47 GMT 2022 KCOR End Patrol

Thu Mar 10 21:00:56 GMT 2022 UCOMP Paused for clouds

GENERAL COMMENT BY berkey: Thu Mar 10 22:41:45 GMT 2022

Kodiak had a least 2 bad hard drive and 2 questionable drives in the array.

Working with CSMT. Drive #6 was pulled and replaced. The array is rebuilding now. Once this process has completed; CSMT should give more guidance about what steps to take next.

\_\_\_\_end\_\_\_\_

KCOR COMMENT BY berkey: Fri Mar 11 02:25:22 GMT 2022

Inspecting the spare MC4u it was concluded the two units had the same gross configuration; with the same boards.

On the bench downstairs SPiiPlus NT Suite was used to configure the spare to have identical programs, and variables. The only obvious difference between the two configs was the spare had a different IP address.

Once it was confirmed the two units had identical configs. The spare was taken upstairs.

The NEMA box upstairs was powered down and the cables in the original MC4u were labeled and removed from the unit. The cables were then switched over to the spare unit.

On powered up up the NEMA box there was a distinct smell of burning electronics. At which point the NEMA box was powered back off again. Sniffing over the kcor electronics it seemed that the burning smell was coming from the spare MC4u.

Cables were removed from the spare MC4u; and reinstalled into the original MC4u. With the spare unit taken downstairs it became more obvious that the burning was in the spare unit not the rest of the NEMA box.

Cables were reconnected to the original MC4u. And the NEMA box was powered back up. And the stages controlled by the MC4u, cover, diffuser, polarizer, polarizer rotation, and O1 focus, were all tested multiple times. Based on the testing it seems normal functionality has been restored.

On inspection of the spare MC4u, pulling off the front and back covers no obvious burn scars have been seen. But based on smell it seems like the burning must have come from the 28V powersupply insert. At this point it isn't obvious what the next steps are, but it appears we don't have a ready to go spare MC4u if the original one fails.

\_\_\_end\_\_\_

GENERAL COMMENT BY berkey: Fri Mar 11 02:32:39 GMT 2022

Nice morning, but heavy clouds after about 11am

\_\_\_end\_\_\_

ONSITE STAFF: berkey