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Mauna Loa Solar Observatory Observer's Log  
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Mon Nov 29 17:24:02 GMT 2021

Year: 21 Doy: 333

Observer: mlso

WEATHER COMMENT: mcotter: Mon Nov 29 17:27:56 GMT 2021

Temp: 32.9f, Humidity: 97%, Pressure: 28.563in, Wind: 13mph from 103degs, Skies: Generally cloudy sky conditions with Altocumulus clouds covering much of the Maunaloa summit with strong steady winds blowing the clouds toward and over the observatory. Lenticular clouds visible on the horizon. Wet road conditions from the Saddle Road up to about 10,000' elevation with frost covered roads to the science center. Strong wind are predicted to increase steadily all day with heavy gust from 50 to 60 MPH later in the day.

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

GENERAL COMMENT BY mcotter: Mon Nov 29 17:29:10 GMT 2021

Because of weather conditions the dome is to remain closed until conditions improve.

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

Mon Nov 29 17:55:02 GMT 2021 Kcor Focus/alignment program exited

Mon Nov 29 18:00:48 GMT 2021 Running UCOMP Cookbook all\_wavelength\_coronal\_flat.cbk line 0

GENERAL COMMENT BY mcotter: Mon Nov 29 18:00:45 GMT 2021

Cloud bank just at the edge of the field of view, trying to take some data in the gaps.

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

Mon Nov 29 18:02:54 GMT 2021 UCoMP Paused for clouds

GENERAL COMMENT BY mcotter: Mon Nov 29 18:02:26 GMT 2021

PM Blew off Kcor 01

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

GENERAL COMMENT BY mcotter: Mon Nov 29 18:02:27 GMT 2021

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

GENERAL COMMENT BY mcotter: Mon Nov 29 18:02:31 GMT 2021

PM Blew off UCoMP 01

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

UCoMP COMMENT BY mcotter: Mon Nov 29 18:05:00 GMT 2021

On startup ucomp failed to get past the initialized step. Looks like the cameras were not coming up properly.

Cameras were powered cycled by pulling the orange power cord in the back of the ucomp rack counting to 20 then plugging the cord back in. UCoMP controller code was forced to stop with the STOP sign and then restarted at that point everything ran smoothly. Should be able to automate this step once with computer control of the epdu.

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

Mon Nov 29 18:06:28 GMT 2021 UCoMP Restarted from pause

Mon Nov 29 18:08:16 GMT 2021 UCoMP Paused for clouds

Mon Nov 29 18:08:50 GMT 2021 UCoMP Restarted from pause

Mon Nov 29 18:18:47 GMT 2021 UCoMP Paused for clouds

GENERAL COMMENT BY mcotter: Mon Nov 29 18:20:59 GMT 2021

Dome closed for fast fog.

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

GENERAL COMMENT BY mcotter: Mon Nov 29 18:25:30 GMT 2021

PM Blew off Kcor 01

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

Mon Nov 29 18:51:25 GMT 2021 UCoMP Restarted from pause

Mon Nov 29 18:56:02 GMT 2021 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

Mon Nov 29 18:58:36 GMT 2021 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 4

Mon Nov 29 19:22:27 GMT 2021 UCoMP Paused for clouds

GENERAL COMMENT BY mcotter: Mon Nov 29 19:29:39 GMT 2021

Closed again for clouds.

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

UCoMP COMMENT BY mcotter: Mon Nov 29 19:33:36 GMT 2021

Noticed the ucomp camera water pump was making a strange noise. Seemed the impeller was either cavitating or there some else was wrong with it. No air pockets were seen near the motor; after moving the spar to vertical the noise stopped; however it briefly started again when the input and output hoses were poked.

Camera temps look nominal so it seems like the pump must be working or else it had just failed.

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

GENERAL COMMENT BY mcotter: Mon Nov 29 20:10:28 GMT 2021

Building camera seems to have went offline during the power outage yesterday.

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

GENERAL COMMENT BY mcotter: Mon Nov 29 20:26:47 GMT 2021

Running on the backup raspbery pi computer.

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

KCOR COMMENT BY mcotter: Mon Nov 29 22:49:39 GMT 2021

Inspected kcor aft end of light leaks.

Found a few 1/4-20 holes and similar sized openings around the box that were covered with tap. We also found there was a leak around all of the D-sub and fiber connections on the south side.

Black cloth baffles were installed over the south panel to cover the connector light leaks. And another set of cloth baffles were installed over the cameras, pbs and modulators.

This should reduce stray light in the box.

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

GENERAL COMMENT BY mcotter: Mon Nov 29 22:52:28 GMT 2021

Bit of hail about 20 minutes ago whole site was turned with, but it has now mostly melted off.

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

Mon Nov 29 23:06:32 GMT 2021 UCoMP Restarted from pause

Tue Nov 30 00:12:01 GMT 2021 Kcor Focus/alignment program exited

Tue Nov 30 00:12:29 GMT 2021 Running UCOMP Cookbook all\_wavelength\_coronal.cbk line 0

GENERAL COMMENT BY mcotter: Tue Nov 30 00:13:24 GMT 2021

Looks like we have a 30 minute window of clear skies between the clouds/rain.

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

Tue Nov 30 00:23:30 GMT 2021 UCoMP Paused for clouds

GENERAL COMMENT BY mcotter: Tue Nov 30 00:26:46 GMT 2021

Guess it was only a 15 minute window.

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

GENERAL COMMENT BY mcotter: Tue Nov 30 00:37:31 GMT 2021

Rain and fog.

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

GENERAL COMMENT BY mcotter: Tue Nov 30 02:04:33 GMT 2021

Crazy weather today.

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

Tue Nov 30 02:05:44 GMT 2021 UCoMP Restarted from pause

ONSITE STAFF: berkey, mcotter