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Mauna Loa Solar Observatory Observer's Log  
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Thu Jan 14 17:58:37 GMT 2021

Year: 21 Doy: 014

Observer: berkey

WEATHER COMMENT: berkey: Thu Jan 14 17:59:38 GMT 2021

Temp: 38.3f, Humidity: 13%, Pressure: 28.848in, Wind: 4mph from 167degs, Skies: mostly clear with bands of cirrus to the N  
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\_\_\_\_end\_\_\_\_

GENERAL COMMENT BY berkey: Thu Jan 14 17:59:40 GMT 2021

Opened windows upstairs

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

GENERAL COMMENT BY berkey: Thu Jan 14 17:59:44 GMT 2021

PM Blew off Kcor O1

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

Thu Jan 14 18:19:57 GMT 2021 Kcor Focus/alignment program exited

Thu Jan 14 18:21:34 GMT 2021 KCOR Start Synoptic Patrol

Thu Jan 14 18:55:42 GMT 2021 KCOR End Patrol

Thu Jan 14 18:55:43 GMT 2021 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

GENERAL COMMENT BY berkey: Thu Jan 14 18:57:04 GMT 2021

Power outage.

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

Thu Jan 14 19:10:57 GMT 2021 KCOR End Calibration Script

Thu Jan 14 19:11:14 GMT 2021 KCOR Start Synoptic Patrol

Thu Jan 14 19:11:14 GMT 2021 KCOR Start Synoptic Patrol

GENERAL COMMENT BY berkey: Thu Jan 14 19:14:47 GMT 2021

Looks like the outage may have only been our building. No UPS beeps on the NOAA buildings, and the lights in the NDACC building work.

Cycling the lightening suppression system seems to have brought the our main feed back online.

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

GENERAL COMMENT BY berkey: Thu Jan 14 19:18:10 GMT 2021

Dome covered KCor (maybe during the calibration). Looks like the new sensor positions aren't working.

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

GENERAL COMMENT BY berkey: Thu Jan 14 19:20:00 GMT 2021

Looks like we are down one electrical phase. The PSPT half of the building remains powered down.

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

Thu Jan 14 19:40:56 GMT 2021 Kcor Focus/alignment program exited

GENERAL COMMENT BY berkey: Thu Jan 14 19:47:22 GMT 2021

Dome sensors moved, to now not catch the trailing dome shutter edge and hopefully just the leading edge.

May still need some tweaking to find the best position.

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

GENERAL COMMENT BY berkey: Thu Jan 14 19:59:44 GMT 2021

Lost all power again.

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

GENERAL COMMENT BY berkey: Fri Jan 15 02:32:53 GMT 2021

During the power outage.

Inspected the RA drive train and found the RA clutch way too tight and we were slipping the drive train along the 2 big rollers. This appears to have lead to some marring of the wheel surfaces.

Clutch was loosened to get the slipping back in the proper location. There isn't much range between too loose and too tight, so I think we need to move forward on clutch pad replacement.

More work was done on UCoMP to finish installing the calibration stage and cable up everything else in the box. Still need to spend some time checking the occulter and calibration stage cables to see if they run smoothly over the range of the stage motion.

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

\*\*GENERAL PROBLEM COMMENT BY berkey\*\* : Fri Jan 15 02:37:04 GMT 2021

The Dome closure UPS appears to no longer hold a charge, battery was dead when I went to close the dome.

By temporarily rewiring the dome closure power cord with an L6-30 plug instead of an L6-20 plug I was able to close the dome via the MATRIX UPS. The only L6-30 plug I could find in the observatory was the plug used to power the Matrix UPS, so this is no a good long term fix.

I plan to build a short convert that we can plug into the end of the dome UPS cable to change its connector from the L6-20 to L6-30 so we could move back and forth between the 2 UPS's (assuming of course we replace the batteries in the Dome UPS).

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

GENERAL COMMENT BY berkey: Fri Jan 15 03:02:46 GMT 2021

Tried bringing up all the systems on UCoMP for some remote work over the next week, I found a burnt smell on the dome.

The smell seems to have to come from either the spar powersupply or piggyback plate. But I have not been able to pinpoint the source. But for now all 3 legs of the spar power supply are unplugged.

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

Fri Jan 15 03:39:01 GMT 2021 Kcor Focus/alignment program exited

ONSITE STAFF: berkey