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Mauna Loa Solar Observatory Observer's Log  
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Fri Oct 29 17:40:01 GMT 2021

Year: 21 Doy: 302

Observer: berkey

WEATHER COMMENT: berkey: Fri Oct 29 17:39:47 GMT 2021

Temp: 46.4f, Humidity: 9%, Pressure: 28.781in, Wind: 6mph from 264degs, Skies: cirrus o  
vercast.

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

Sat Oct 30 00:21:46 GMT 2021 Running UCOMP Cookbook 637\_Pol\_Calibrate.cbk line 0  
Sat Oct 30 00:28:09 GMT 2021 Running UCOMP Cookbook 637\_Pol\_Calibrate.cbk line -1  
Sat Oct 30 00:29:57 GMT 2021 Running UCOMP Cookbook 656\_Pol\_Calibrate.cbk line 0  
Sat Oct 30 00:38:22 GMT 2021 Running UCOMP Cookbook 637\_Pol\_Calibrate.cbk line 0  
Sat Oct 30 00:43:17 GMT 2021 Running UCOMP Cookbook 637\_Pol\_Calibrate.cbk line -1  
Sat Oct 30 00:47:15 GMT 2021 Running UCOMP Cookbook 656\_Pol\_Calibrate.cbk line 0  
Sat Oct 30 00:51:20 GMT 2021 Running UCOMP Cookbook 789\_Pol\_Calibrate.cbk line 0  
Sat Oct 30 00:55:25 GMT 2021 Running UCOMP Cookbook 1074\_Pol\_Calibrate.cbk line 0

\*\*GENERAL PROBLEM COMMENT BY berkey\*\* : Sat Oct 30 01:50:08 GMT 2021

Found the spar out of balance this morning, to much weight on the top end such that the  
spar will fall to the park position, if placed at the zenth position for mid-winter.  
It looked like we need to add about 20 pounds to the bottom of the spar to bring thing  
s back to balance.

On inspection further inspection, it was found that the HEPAs could be shifted about 6"  
south while still maintaining good clearance from the pier. This is probably where we  
want to put the hepas (at least N-S) to give better latter clearance. Further it will  
help balance chromag which will have a north bias to its mass. To rebalanced after s  
hifting the hepas, the 17# need to be removed from the South shelf on the spar. After  
removing weight from the south shelf, the spar balnaced with +5#(from yesterday) on th  
e -Z all thread at the base of the spar.

The HEPA air routing was also changed sp that the tube works close loop.

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

GENERAL COMMENT BY berkey: Sat Oct 30 01:50:15 GMT 2021

Changed the way we talk to the ucomp mechanisms; so now the main motion control code do  
es no need to wait for the move to stop before it can process the next thing.

This should give us 2 nice things. First the mech-controller gui should feel a lot mor  
e responsive to the observers and second it will allow motions to happen in parallel so  
we could think about reducing time between observations.

So starting tomorrow we should see a slightly decrease in the time it takes to change w  
avelength ranges. Since this command moves both the O1 and filter wheel. And will now  
start moving them together.

It may be possible to recover some time from switching between, science, flats and cali  
brations; if we change now the logic works to allow some of the mechanism moves to happ  
en concurrently. Right now the cover,diffuser,shutter,occulter and cal stages are all  
moved sequential by a series of recipe commands.

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

GENERAL COMMENT BY berkey: Sat Oct 30 02:34:11 GMT 2021

PM Washed Kcor Field Lens. Used first contact to clean the kcor field lens front and b  
ack.

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

GENERAL COMMENT BY berkey: Sat Oct 30 02:34:18 GMT 2021

No data over cast all day.

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

ONSITE STAFF: berkey