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Mauna Loa Solar Observatory Observer's Log  
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Wed Jan 6 20:46:56 GMT 2021

Year: 21 Doy: 006

Observer: berkey

WEATHER COMMENT: berkey: Wed Jan 06 20:47:49 GMT 2021

Temp: 54.2f, Humidity: 4%, Pressure: 28.808in, Wind: 8mph from 90degs, Skies: clear

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

GENERAL COMMENT BY berkey: Wed Jan 06 20:47:53 GMT 2021

Opened windows upstairs

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

GENERAL COMMENT BY berkey: Wed Jan 06 20:47:58 GMT 2021

PM Blew off Kcor 01

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

Wed Jan 06 20:49:41 GMT 2021 Kcor Focus/alignment program exited

CoMP COMMENT BY berkey: Wed Jan 06 21:06:57 GMT 2021

Spent the morning cleaning up UCoMP and finishing some more installation tasks.

Yesterday the R-Cam was not installed.

So the we started off by installing that camera. Since the T-Cam need 20thousands of shimms under it was assumed the R-Cam would need that as well. However the front foot of the camera mount is inaccessible with the PBS installed.

A note of the PBS image location was taken on T-cam the then PBS was remove and the R-cam was shimmed up. The PBS was the n reinstalled and re-shimmed to get back to the reference location.

The Bessel beam was then repointed to line up with the center of the T-Cam. And the the R-Cam was moved in its mounts to attempt to find the best alignment, unfortunately it was found that the camera mount did not have enough range to recenter the beam. At this point I am not sure what the best course of action will be to center this going forward. Steps TBD.

After the camera was installed work was done to close up the rest of the instrument enclosure so we test some other aspects of the alignment on T-cam. I am especially worried about checking if the instrument plate is in the correct place to allow the O1 to focus on every wavelength. If it is not we will have to remove most of the optics from the instrument plate to get to the screws needed to slide it back or forward w.r.t. the O1. This will require a repeat of the alignment done over the last 2 days.

Bessel beam and shelf it mounted was removed to allow for motion of the diffuser. (PSM is still on the spar)

Spar was re-balanced 50 pounds of bricks were installed on the shelf below the guider. 30 Pounds of dumb-bell weights were removed from the all-thread balance rod on the bottom of the spar. Dec balance was not checked by loosening the clutches but the spread sheet says it should be in an acceptable range of balance.

Current state of the instrument:

Piggy back plate installed (not yet wired)  
Field lens install  
modulator installed and wired (not yet tested)  
lyot filter installed and wired (not yet tested)  
PBS installed  
cameras installed and wired (not tested since reverting changing over to use connectors thru the bulkhead)

Still todo (other than testing of the above):

Install diffuser  
Wire up shutter  
wire up base plate heaters  
install and wire occulter stage  
install and wire calibration optics  
install and wire filterwheel  
\_\_\_\_end\_\_\_\_

GENERAL COMMENT BY berkey: Wed Jan 06 21:11:53 GMT 2021

Kccor came up in the wrong state when first started.

Images 20:49:56->20:54:29. Are in this state.

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

Wed Jan 06 21:19:49 GMT 2021 SGS Alignment complete

Wed Jan 06 21:22:12 GMT 2021 KCOR Start Synoptic Patrol

Thu Jan 07 00:00:48 GMT 2021 SGS Alignment complete

Thu Jan 07 00:02:22 GMT 2021 Kcor Focus/alignment program exited

Thu Jan 07 00:04:56 GMT 2021 KCOR Start Synoptic Patrol

GENERAL COMMENT BY berkey: Thu Jan 07 00:21:04 GMT 2021

Kcor is in the wrong state again. From: 23:39:14->23:59:28

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

Thu Jan 07 00:25:01 GMT 2021 KCOR End Patrol

Thu Jan 07 00:25:01 GMT 2021 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Thu Jan 07 00:40:17 GMT 2021 KCOR End Calibration Script

Thu Jan 07 00:40:34 GMT 2021 KCOR Start Synoptic Patrol

Thu Jan 07 00:40:34 GMT 2021 KCOR Start Synoptic Patrol

Thu Jan 07 01:29:42 GMT 2021 KCOR End Patrol

CoMP COMMENT BY berkey: Thu Jan 07 01:51:47 GMT 2021

Old diffuser installed on the comp instrument for double protection.

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

ONSITE STAFF: berkey