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Mauna Loa Solar Observatory Observer's Log  
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Tue Apr 13 17:22:00 GMT 2021

Year: 21 Doy: 103

Observer: berkey

WEATHER COMMENT: berkey: Tue Apr 13 17:21:57 GMT 2021

Temp: 38.9f, Humidity: 90%, Pressure: 28.662in, Wind: 13mph from 311deg, Skies: clear but bright.

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

GENERAL COMMENT BY berkey: Tue Apr 13 17:42:07 GMT 2021

Opened windows upstairs

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

GENERAL COMMENT BY berkey: Tue Apr 13 17:42:15 GMT 2021

PM Blew off Kcor O1 front and back

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

Tue Apr 13 17:42:38 GMT 2021 Kcor Focus/alignment program exited

KCOR COMMENT BY berkey: Tue Apr 13 17:43:54 GMT 2021

Installed the distortion grid in the beam.

Taking some distortion data.

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

GENERAL COMMENT BY berkey: Tue Apr 13 18:01:13 GMT 2021

Shifted R-Cam to better align the beam to the camera.

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

Tue Apr 13 18:02:09 GMT 2021 Kcor Focus/alignment program exited

KCOR COMMENT BY berkey: Tue Apr 13 18:13:31 GMT 2021

Distortion grid removed OC-1017.0" tapered installed

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

Tue Apr 13 18:34:11 GMT 2021 Kcor Focus/alignment program exited

Tue Apr 13 19:17:09 GMT 2021 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

GENERAL COMMENT BY berkey: Tue Apr 13 19:32:10 GMT 2021

Data taken from ~18:00UT->19:15:12UT incorrectly showed the calpol as MID when it was out of the beam.

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

Tue Apr 13 19:32:24 GMT 2021 KCOR End Calibration Script

Tue Apr 13 21:08:04 GMT 2021 Kcor Focus/alignment program exited

Tue Apr 13 21:25:11 GMT 2021 Kcor Focus/alignment program exited

GENERAL COMMENT BY berkey: Wed Apr 14 21:26:50 GMT 2021

Dome was not set to rotate, from about 21UT->21:25 the dome started occulting the guider. At first this was assumed to be a slip on the guider position so the RA zero point offset was moved to better align the guider to kcor. The total move was about 125 and taking place a in a few steps over that 25 minute window.

Finally it was realized that the guider SUM had dropped from the nominal ~6.5 to to ~4.7. At this point it was realized we had a dome obstruction. By this point the kcor lens cover/nd filter was put in. The dome was then rotated to the proper position and the automatic dome rotation was turned back on. And the sgs-kcor alignment returned to its nominal position.

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

Tue Apr 13 22:22:56 GMT 2021 Kcor Focus/alignment program exited

GENERAL COMMENT BY berkey: Tue Apr 13 23:21:31 GMT 2021

Clouds blowing in.

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

GENERAL COMMENT BY berkey: Wed Apr 14 00:59:53 GMT 2021

Inspected and cleaned the spar RA drive motor. Some flaking of the brass RA spur seems to be coming from cut in of the spur gear by the worm gear. Worm gear was lubricated with grease to hopefully help avoid further cut in.

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

GENERAL COMMENT BY berkey: Wed Apr 14 02:34:04 GMT 2021

Found the RA to be slipping between clouds. From this the RA clutch was inspected it was found to have gotten a little looser since it was installed. After tightening the clutch, the RA PID values were checked to find that instead of 70/.0015 40/.02 might be better values.

RA KC=40, Ti=.02 will be the default until we check the values mid-day over the next week or so.

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

ONSITE STAFF: berkey