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Mauna Loa Solar Observatory Observer's Log  
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Fri Jul 22 16:45:26 GMT 2016

Year: 16 Doy: 204

Observer: berkey

WEATHER COMMENT: berkey: Fri Jul 22 16:45:33 GMT 2016

Temp: 43.6f, Humidity: 55%, Pressure: 28.634in, Wind: 11mph from 128degs, Skies: Clear

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

Fri Jul 22 18:22:50 GMT 2016 COMP Start Patrol on cookbook: synoptic-00007.cbk

Fri Jul 22 18:28:09 GMT 2016 KCOR Start Synoptic Patrol

Fri Jul 22 20:57:42 GMT 2016 KCOR End Patrol

Fri Jul 22 21:03:54 GMT 2016 COMP End Patrol

Fri Jul 22 21:03:54 GMT 2016 COMP Start Patrol on cookbook: waves-00001.cbk

Fri Jul 22 21:15:09 GMT 2016 KCOR Start Synoptic Patrol

Fri Jul 22 21:15:09 GMT 2016 KCOR Start Synoptic Patrol

Fri Jul 22 22:36:28 GMT 2016 COMP End Patrol

Fri Jul 22 22:36:28 GMT 2016 COMP Start Patrol on cookbook: synoptic-00007.cbk

Fri Jul 22 23:03:11 GMT 2016 KCOR End Patrol

Fri Jul 22 23:16:00 GMT 2016 KCOR Start Synoptic Patrol

Fri Jul 22 23:37:47 GMT 2016 KCOR End Patrol

Fri Jul 22 23:58:44 GMT 2016 SGS Alignment complete

Fri Jul 22 23:58:43 GMT 2016 KCOR Start Synoptic Patrol

Sat Jul 23 00:24:37 GMT 2016 KCOR End Patrol

KCOR COMMENT BY berkey: Sat Jul 23 00:27:09 GMT 2016

This morning we pulled out the O1 for air cleaning then on re-installation we found that the kcor seems to misaligned ~60 arcseconds in RA on SGS. Position was ~0 and now is ~60. No note of position was made before removing the O1 for cleaning, however it seemed well aligned with an RA -5 during testing yesterday. We also note that CoMP was miss-aligned to Kcor so it does look to be a Kcor alignment issue not a bad SGS config.

O1 was pulled again and some tape residue was found on the back surface. This was cleaned. Reinstalling O1 gave no change in alignment.

Field lens assembly was pulled and reinstalled. Here we found no change in retaliative alignment.

Occulter was inspected and found to be seated poorly due to paint on the occulter post. This was cleaned seating is much better. No change in co-alignment.

At this point we decided to accept this alignment and move the CoMP occutler to match kcor and take observations.

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

KCOR COMMENT BY berkey: Sat Jul 23 00:30:45 GMT 2016

Overall work this week does not appear to have significantly helped eliminate the stray light. Things look better in the North and West but worse in the south. We also note that the fringes are still seen in the data. Could this be a baffle issue? Do the optics need to be cleaner then we are able to get them. In the best case we have not be able to remove al l the residual dust from the O1.

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

GENERAL COMMENT BY berkey: Sat Jul 23 00:31:39 GMT 2016

PSPT camera, SUN system, shutter driver and camera power supply are headed to Fedex.

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

Sat Jul 23 00:32:18 GMT 2016 COMP End Patrol

GENERAL COMMENT BY berkey: Sat Jul 23 00:48:01 GMT 2016

Clouds comming in pretty hard. Looks like Darby might be getting to Hawaii. Hopefully Greg has goodish weather tomorrow.

And if not lets hope the NOAA water tanks get full so we can use the bathrooms again.

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