
Mauna Loa Solar Observatory Observer's Log

Mon Mar 9 17:21:07 GMT 2020

Year: 20 Doy: 069

Observer: berkey

WEATHER COMMENT: berkey: Mon Mar 09 17:21:46 GMT 2020

Temp: 38.0f, Humidity: 5%, Pressure: 28.677in, Wind: 5mph from 182deg, Skies: clear
__end__

Mon Mar 09 17:37:01 GMT 2020 Kcor Focus/alignment program exited

Mon Mar 09 17:37:12 GMT 2020 SGS Alignment complete

GENERAL COMMENT BY berkey: Mon Mar 09 17:36:59 GMT 2020

PM Blew off Kcor 01 and opened windows upstairs

__end__

Mon Mar 09 17:42:00 GMT 2020 KCOR Start Synoptic Patrol

Mon Mar 09 18:09:42 GMT 2020 KCOR End Patrol

KCOR COMMENT BY berkey: Mon Mar 09 18:09:41 GMT 2020

Stopping observing to attempt to blow off front and back of the 01.

__end__

GENERAL COMMENT BY berkey: Mon Mar 09 19:59:23 GMT 2020

PM Washed Kcor 01. Blowing off didn't work went ahead and washed the 01

__end__

Mon Mar 09 20:02:28 GMT 2020 SGS Alignment complete

Mon Mar 09 20:02:29 GMT 2020 Kcor Focus/alignment program exited

KCOR COMMENT BY berkey: Mon Mar 09 20:07:51 GMT 2020

Near the larger linear structure there are now a pair of dots/points on the lens that will not wash off. For all these structures (dots and line), I first stated trying to wash the 01 with soap and water but with multiple applications no change was found.

Ratcheting up the area was flushed with isopropyl alcohol, followed by soap and water flushes. Again no change.

Finally the area was dabbed with a small amount of acetone. Followed by a soap and heavy heavy flush of water. Again no changes to these structures.

Midigation efforts were ended at this point; before doing a normal kind of soap and water flush of the whole lens to prepare for observing again.

__end__

Mon Mar 09 20:08:26 GMT 2020 KCOR Start Synoptic Patrol

Mon Mar 09 20:09:11 GMT 2020 KCOR End Patrol

GENERAL COMMENT BY berkey: Mon Mar 09 20:13:54 GMT 2020

PM Blew off Kcor 01

__end__

GENERAL COMMENT BY berkey: Mon Mar 09 20:32:45 GMT 2020

PM Blew off Kcor 01 front and back

__end__

Mon Mar 09 20:34:50 GMT 2020 Kcor Focus/alignment program exited

Mon Mar 09 20:34:55 GMT 2020 SGS Alignment complete

GENERAL COMMENT BY berkey: Mon Mar 09 20:48:12 GMT 2020

PM Blew off Kcor 01

__end__

GENERAL COMMENT BY berkey: Mon Mar 09 21:31:36 GMT 2020

PM Washed Kcor 01

__end__

Mon Mar 09 21:38:26 GMT 2020 SGS Alignment complete

Mon Mar 09 21:38:27 GMT 2020 Kcor Focus/alignment program exited

GPS COMMENT by MLSO: Mon Mar 09 21:45:07 GMT 2020

Successfully logged in to system

Good disk mount

GPS software running

Last 5 GPS data files are:

dataoutiq_2020_064_2145.bin 2147483647

dataoutiq_2020_065_2145.bin 2147483647

dataoutiq_2020_066_2145.bin 2147483647

dataoutiq_2020_067_2145.bin 2147483647

dataoutiq_2020_068_2145.bin 2147483647

__end__

Mon Mar 09 22:03:49 GMT 2020 Kcor Focus/alignment program exited

GENERAL COMMENT BY berkey: Mon Mar 09 22:09:38 GMT 2020

Sky seems petty noisy due to aerosols

____end____

KCOR COMMENT BY berkey: Mon Mar 09 22:20:49 GMT 2020

Big fringes since last cleaning. Not sue why.

____end____

Mon Mar 09 23:17:34 GMT 2020 SGS Alignment complete

Mon Mar 09 23:17:35 GMT 2020 Kcor Focus/alignment program exited

Tue Mar 10 02:41:37 GMT 2020 SGS Alignment complete

Tue Mar 10 02:41:40 GMT 2020 Kcor Focus/alignment program exited

Tue Mar 10 02:42:30 GMT 2020 KCOR Start Synoptic Patrol

Tue Mar 10 02:42:32 GMT 2020 KCOR End Patrol

KCOR COMMENT BY berkey: Tue Mar 10 03:02:21 GMT 2020

Tried cleaning the front surface of the KCor O1 with first contact.

I had an issue with the O-ring dam around the mount. It didn't stay inplace. I think I didnt let the material dry long enough, and part way thru the application of the material to the middle o the lens the o-ring lifted off and knid of curled up in a few places effectivity given us no dam there; espically since the spary on formula seemed thin with a lot of the material running toward the edges. On removable of the material I found that some first contact had flowed past the oring for most of the lenses outer diameter. This lead to some resiutal material getting left behind in most places around the lens mount. Some of this material on the outer edge also remained attached to the glass. Since the matieral on the glass all seemed to be under the apature stop, I decided to leave it in place; as I feel any midigation would leave some residue on the lens.

Ignoring the edge effects (under the apature stop), this application of first contact seemed to peel off the lens better than any other test I have done with FP. Interestingly on initial visial inspection the lens (front and bad) appeared to be dirty/dustier then I ever rememeber seeing a corona graph lens, but all of this dust easily blew off. (So sounds like I need to were a lab coat while carring/installing the lens.)

Skies are have enough aerosols this afternoon, that I am having a had time evaluation the image quality; but it sems like the fringe pattern we say before 23UT seem to be gone and I dont notice any other new glaring artifacts.

____end____

GENERAL COMMENT BY berkey: Tue Mar 10 03:54:49 GMT 2020

Skies have improved over the last couple hours, I think the first contact did a good job of cleaning.

____end____

ONSITE STAFF: berkey