
Mauna Loa Solar Observatory Observer's Log

Fri Apr 10 16:50:51 GMT 2020

Year: 20 Doy: 101

Observer: berkey

WEATHER COMMENT: berkey: Fri Apr 10 16:52:50 GMT 2020

Temp: 43.2f, Humidity: 30%, Pressure: 28.588in, Wind: 15mph from 196degs, Skies: clear

____end____

GENERAL COMMENT BY berkey: Fri Apr 10 17:06:46 GMT 2020

PM Blew off Kcor Field Lens

____end____

GENERAL COMMENT BY berkey: Fri Apr 10 17:06:50 GMT 2020

PM Blew off Kcor O1

____end____

GENERAL COMMENT BY berkey: Fri Apr 10 17:07:02 GMT 2020

Opened windows upstairs.

____end____

Fri Apr 10 17:11:01 GMT 2020 SGS Alignment complete

Fri Apr 10 17:14:12 GMT 2020 SGS Alignment complete

Fri Apr 10 17:14:13 GMT 2020 SGS Alignment complete

Fri Apr 10 17:14:15 GMT 2020 Kcor Focus/alignment program exited

Fri Apr 10 17:27:01 GMT 2020 KCOR Start Synoptic Patrol

Fri Apr 10 17:42:40 GMT 2020 KCOR End Patrol

Fri Apr 10 17:42:51 GMT 2020 KCOR End Patrol

GENERAL COMMENT BY berkey: Fri Apr 10 18:01:02 GMT 2020

Cirrus blew in quickly from the NW. Looks like it will be preventing data collection for the next hour +.

____end____

KCOR COMMENT BY berkey: Fri Apr 10 18:54:03 GMT 2020

Installed the new PCIe-6341 board in Kcor2. And move the SCB68 cable over from the Pxie chassis to the PCIe-6341.

Proceeding to testing.

____end____

KCOR COMMENT BY berkey: Fri Apr 10 20:01:40 GMT 2020

PCIe-6341 testing looked ok.

Attempting to revert to PXIe chassis to understand the process in case that becomes a need in the future.

____end____

Fri Apr 10 20:03:29 GMT 2020 Kcor Focus/alignment program exited

Fri Apr 10 20:13:16 GMT 2020 SGS Alignment complete

Fri Apr 10 20:13:17 GMT 2020 Kcor Focus/alignment program exited

KCOR COMMENT BY berkey: Fri Apr 10 20:14:41 GMT 2020

Sky cleared up enough to possible see some corona, however it was bright enough that the focus routine didnt converge.

Running with the pxie chassis.

____end____

KCOR COMMENT BY berkey: Fri Apr 10 20:21:37 GMT 2020

Nrgf images look good reverting back to PCIe board

____end____

Fri Apr 10 20:28:17 GMT 2020 Kcor Focus/alignment program exited

KCOR COMMENT BY berkey: Fri Apr 10 20:36:24 GMT 2020

First assessment of the real-time quicklook and fullres images show that PCIe board seems to give reasonable images. The outer field seems dark than the images from 15 minutes ago with the PXIe chassis, but I think this is related to sky brightness not instrument config.

____end____

GENERAL COMMENT BY berkey: Fri Apr 10 20:37:05 GMT 2020

Window in the cirrus closed again, stopping kcor.

____end____

KCOR COMMENT BY berkey: Fri Apr 10 20:41:15 GMT 2020

PCIe NRGF's look good too.

I think we will leave the system in this configuration for now on.

____end____

****EVENT COMMENT BY berkey**** : Fri Apr 10 21:05:24 GMT 2020

Eruption seen in kcor near PA 300 sometime between the 17UT and 20Ut breaks in the cirrus. Looks like there is some evolution of the structure between 20 and 20:30Ut.

Limb and disk activity can also be seen in the gong halpha during this time.

____end____

GPS COMMENT by MLSO: Fri Apr 10 21:45:06 GMT 2020

Successfully logged in to system

Good disk mount

GPS software running

Last 5 GPS data files are:

/mnt/usb/dataoutiq_2020_096_2146.bin 2147483647

/mnt/usb/dataoutiq_2020_097_2146.bin 2147483647

/mnt/usb/dataoutiq_2020_098_2146.bin 2147483647

/mnt/usb/dataoutiq_2020_099_2146.bin 2147483647

/mnt/usb/dataoutiq_2020_100_2146.bin 2147483647

____end____

Fri Apr 10 22:46:03 GMT 2020 Kcor Focus/alignment program exited

Sat Apr 11 03:39:06 GMT 2020 Kcor Focus/alignment program exited

KCOR COMMENT BY berkey: Sat Apr 11 03:43:42 GMT 2020

Cleaned the back side Kcor ol with first contact. It took 4 rounds of application, the three previous applications failed either by tearing that left some material in the middle of the lens such that I couldn't figure out how to lift it without adding a lot more material. I also attempted to peel the material too early a couple times leaving a residue in some places on the lens.

I think I learned a couple tricks about the application, as the last application went the smoothest.

Attempted to take some last minute data before sunset, but there is a touch of cirrus so we may not get good enough data thru the system to understand now the cleaning went.

____end____

KCOR COMMENT BY berkey: Sat Apr 11 04:21:11 GMT 2020

In the testing the first time kcor came up in the wrong state; but restarting the labview code fixed the modulation.

By the time I got the modulation right I think the sky got too bright for us to see any corona so I cannot confirm if the

lens cleaning went well or poorly. But between the sky and lens the images are poor.

___end___

ONSITE STAFF: berkey