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-------------------------------------------------------------------------------
           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 form 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
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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 brig
htness 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
Erruption seen in kcor near PA 300 sometime between the 17UT and 20Ut breaks in the cirrus. Looks like there is some evol
ution 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 o1 with first contact. It took 4 rounds of application, the three previous applications faile
d either by tearing that left some material in the middle of the lens such that I couldnt figure out how to lift it with o
ut adding a lot more material.   I also attemped to peal the material too early a couple times leaving a residue in some p
laces 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 t
hru 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 modualtion.

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