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Mauna Loa Solar Observatory Observer's Log  
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Mon Dec 9 17:06:28 GMT 2019

Year: 19 Doy: 343

Observer: berkey

WEATHER COMMENT: berkey: Mon Dec 09 17:06:44 GMT 2019

Temp: 41.6f, Humidity: 33%, Pressure: 28.71in, Wind: 7mph from 188degs, Skies: clear

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

GENERAL COMMENT BY berkey: Mon Dec 09 17:06:44 GMT 2019

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

KCOR COMMENT BY berkey: Mon Dec 09 17:16:24 GMT 2019

Kcor cameralink and NI boards moved to Kcor2 to try to take data on the new computer today.

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

GENERAL COMMENT BY berkey: Mon Dec 09 17:41:11 GMT 2019

PM Blew off Kcor O1 and opened windows

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

GENERAL COMMENT BY berkey: Mon Dec 09 17:41:39 GMT 2019

PM Blew off Kcor Field Lens due to bright spots seen in yesterdays data

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

Mon Dec 09 17:50:55 GMT 2019 SGS Alignment complete

GENERAL COMMENT BY berkey: Mon Dec 09 17:57:27 GMT 2019

Kcor2's disk array did not power up with the computer. Perhaps I bumped something in thebox when I installed the cameralink boards. I noticed E drive was missing because socketcam was hard crashing. After a little debugging I found that the culprit was trying to fprintf to the socketcam logs in e: driver which it couldn't.

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

GENERAL COMMENT BY berkey: Mon Dec 09 18:01:18 GMT 2019

Rebooting cleared up the issue with seeing the drive array. hopeful it stays cleared up in future power cycles. I will think about a check/warning that can be added to the observing code to see if the array is alive before calling socketcam.

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

Mon Dec 09 18:07:36 GMT 2019 KCOR Start Synoptic Patrol

Mon Dec 09 19:13:57 GMT 2019 KCOR End Patrol

Mon Dec 09 19:13:59 GMT 2019 KCOR Start Synoptic Patrol

Mon Dec 09 19:24:25 GMT 2019 KCOR End Patrol

Mon Dec 09 19:24:26 GMT 2019 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Mon Dec 09 19:39:40 GMT 2019 KCOR End Calibration Script

Mon Dec 09 19:39:57 GMT 2019 KCOR Start Synoptic Patrol

Mon Dec 09 19:39:57 GMT 2019 KCOR Start Synoptic Patrol

Mon Dec 09 20:49:58 GMT 2019 KCOR End Patrol

KCOR COMMENT BY berkey: Mon Dec 09 20:50:34 GMT 2019

Stopping observations to wash the kcor O1.

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

GENERAL COMMENT BY berkey: Mon Dec 09 22:16:52 GMT 2019

PM Washed Kcor O1

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

Mon Dec 09 22:19:07 GMT 2019 SGS Alignment complete

Mon Dec 09 22:20:20 GMT 2019 Kcor Focus/alignment program exited

Mon Dec 09 22:21:51 GMT 2019 KCOR Start Synoptic Patrol  
Mon Dec 09 22:29:54 GMT 2019 KCOR End Patrol  
Mon Dec 09 22:29:56 GMT 2019 KCOR Start Synoptic Patrol  
GENERAL COMMENT BY berkey: Mon Dec 09 22:36:10 GMT 2019  
O1 \*might\* be cleaner hard to tell with the heavy aerosol.  
\_\_\_\_end\_\_\_\_

Mon Dec 09 23:00:42 GMT 2019 KCOR End Patrol  
Mon Dec 09 23:02:45 GMT 2019 SGS Alignment complete  
Mon Dec 09 23:09:03 GMT 2019 KCOR Start Synoptic Patrol  
GENERAL COMMENT BY berkey: Mon Dec 09 23:48:35 GMT 2019

Kcor data taken between about 18:02UT and 19:10UT had fore-optics positions incorrectly reported as MID due to a stale record when the these mechanisms were in fact out of the beam.

This went unnoticed from the observer console because the mc4u gui correctly reported the mechanisms out of the beam, but since the fits header values are only updated just before and after moves things looked ok from the MC4u gui.

The mc4u gui now has some logic to periodically compare the fits header value to the hardware state value and update the fits header if stale.  
\_\_\_\_end\_\_\_\_

KCOR COMMENT BY berkey: Tue Dec 10 02:27:15 GMT 2019

Kcor2 looks like it does everything the old computer did. I would like to run with it going forward. (unless we find some kind of show stopper).  
\_\_\_\_end\_\_\_\_

GENERAL COMMENT BY berkey: Tue Dec 10 03:19:39 GMT 2019

Nice to see the sun today but the data weren't great with all the aerosols.

Some dynamics near PA130 seen in Halpha. And if I trick myself I can almost see some activity between the aerosols of kcor at that same location  
\_\_\_\_end\_\_\_\_

ONSITE STAFF: berkey