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------------------------------------------------------------------------------
           Mauna Loa Solar Observatory Observer's Log
------------------------------------------------------------------------------
        Mon Dec 16 17:52:19 GMT 2019
Year: 19  Doy: 350
Observer: berkey
WEATHER COMMENT: berkey: Mon Dec 16 17:52:32 GMT 2019
Temp: 41.1f, Humidity: 7%, Pressure: 28.714in, Wind: 6mph from 138degs, Skies: clear
___end___
GENERAL COMMENT BY berkey: Mon Dec 16 17:52:47 GMT 2019
PM Blew off Kcor O1 and opened windows upstairs.
___end___
Mon Dec 16 17:55:07 GMT 2019 SGS Alignment complete
Mon Dec 16 17:55:26 GMT 2019 Kcor Focus/alignment program exited
Mon Dec 16 17:58:19 GMT 2019 KCOR Start Synoptic Patrol
Mon Dec 16 18:43:31 GMT 2019 KCOR End Patrol
Mon Dec 16 18:43:32 GMT 2019 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini
Mon Dec 16 18:58:47 GMT 2019 KCOR End Calibration Script
Mon Dec 16 18:59:03 GMT 2019 KCOR Start Synoptic Patrol
Mon Dec 16 18:59:03 GMT 2019 KCOR Start Synoptic Patrol
KCOR COMMENT BY berkey: Mon Dec 16 20:22:44 GMT 2019
Swapping out kcor cmaeras for new cameras
Images 19:30:11-19:30:56 were a quick distortion grid test wtih the old cmaera.  Focus was not optimized for this test so
this may not be the best data.
___end___
GENERAL COMMENT BY berkey: Mon Dec 16 21:40:29 GMT 2019
New Cameras installed:
TCam is now sn 40256
RCam is now sn 40257

Cameras stages were aligned in X-Y and focus.  It was decided that the Tip/tilt was within our alignment tollarence so thi
s was not touched.

Distortion grid was taken at distortion focus: images 21:06:42-21:08:13

The occulter was then installed the stages were focus on the occulter and the distortion grid was reinstalled with another
 set of distortion grid data at the occulter foucs 21:27:34-21:28:35.
___end___
Mon Dec 16 21:44:15 GMT 2019 SGS Alignment complete
Mon Dec 16 21:44:33 GMT 2019 Kcor Focus/alignment program exited
Mon Dec 16 21:47:52 GMT 2019 KCOR Start Synoptic Patrol
Mon Dec 16 22:02:21 GMT 2019 KCOR End Patrol
Mon Dec 16 22:02:22 GMT 2019 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini
Mon Dec 16 22:17:37 GMT 2019 KCOR End Calibration Script
Mon Dec 16 22:17:53 GMT 2019 KCOR Start Synoptic Patrol
Mon Dec 16 22:17:53 GMT 2019 KCOR Start Synoptic Patrol
Mon Dec 16 22:40:35 GMT 2019 KCOR End Patrol
Mon Dec 16 22:40:35 GMT 2019 KCOR End Patrol
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Mon Dec 16 22:43:33 GMT 2019 Kcor Focus/alignment program exited
Mon Dec 16 22:43:38 GMT 2019 Kcor Focus/alignment program exited
Mon Dec 16 22:54:35 GMT 2019 SGS Alignment complete
Mon Dec 16 22:54:41 GMT 2019 Kcor Focus/alignment program exited
GENERAL COMMENT BY berkey: Mon Dec 16 23:59:07 GMT 2019
Seems to be a mix up in polarizaer states. Feels like the modulator is starting up in the wrong mode; but since we swapped
 cameras it isn't super obvious why it would be modulator related.
___end___
GENERAL COMMENT BY berkey: Tue Dec 17 00:56:24 GMT 2019
Looks of troubleshooting.

Double checked cameralink cables on Rcam based no a lingering worry that it didnt seat will based on the difficultty I had
 installing it. Looked ok.

Rebooted everything.
Traced all the cables to make srue that I didnt swap the camera positions.

Eventually I found in pfremote the new cameras were set with 0ms trigger delays and we didnt have interleave trigger/read
s selected.

Applying a 2ms delay allowing interleaved triggers appears to have got the system running nonimally as of 00:14UT.

I think it is possible to get/set these values in the observing code so at some point we should programaticly set these va
lues at startup and read back the values to capture in the fits header or somewhere else.
___end___
GENERAL COMMENT BY berkey: Tue Dec 17 02:14:24 GMT 2019
Nice morning ok afternoon. Camera swaps in the middle.
___end___
ONSITE STAFF: berkey