
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 138deg, Skies: clear
____end____

GENERAL COMMENT BY berkey: Mon Dec 16 17:52:47 GMT 2019

PM Blew off Kcor 01 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 with the old camera. 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 tolerance so this 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 focus 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

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 polarizer 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 on a lingering worry that it didn't seat well based on the difficulty I had installing it. Looked ok.

Rebooted everything.

Traced all the cables to make sure that I didn't swap the camera positions.

Eventually I found in pfreemote the new cameras were set with 0ms trigger delays and we didn't have interleave trigger/reads selected.

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

I think it is possible to get/set these values in the observing code so at some point we should programmatically set these values 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