
Mauna Loa Solar Observatory Observer's Log

Fri Apr 26 16:45:59 GMT 2019

Year: 19 Doy: 116

Observer: berkey

WEATHER COMMENT: berkey: Fri Apr 26 16:50:19 GMT 2019

Temp: 42.5f, Humidity: 17%, Pressure: 28.654in, Wind: 4mph from 187deg, Skies: clear
____end____

GENERAL COMMENT BY berkey: Fri Apr 26 16:50:33 GMT 2019

PM Blew off Kcor 01 and opened windows upstairs.

____end____

Fri Apr 26 17:04:38 GMT 2019 SGS Alignment complete

Fri Apr 26 17:04:38 GMT 2019 Kcor Focus/alignment program exited

Fri Apr 26 17:10:20 GMT 2019 KCOR Start Synoptic Patrol

Fri Apr 26 18:14:20 GMT 2019 KCOR End Patrol

Fri Apr 26 18:14:21 GMT 2019 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Fri Apr 26 18:29:44 GMT 2019 KCOR End Calibration Script

Fri Apr 26 18:30:01 GMT 2019 KCOR Start Synoptic Patrol

Fri Apr 26 18:30:02 GMT 2019 KCOR Start Synoptic Patrol

Fri Apr 26 19:29:39 GMT 2019 KCOR End Patrol

GENERAL COMMENT BY berkey: Fri Apr 26 19:29:51 GMT 2019

Getting into some thin cirrus.

____end____

Fri Apr 26 20:06:58 GMT 2019 SGS Alignment complete

Fri Apr 26 20:08:01 GMT 2019 Kcor Focus/alignment program exited

KCOR COMMENT BY berkey: Sat Apr 27 02:24:07 GMT 2019

Based on some issues we discovered in the Ucomp camera trigger code. I spend this afternoon testing some ideas on how to better handle trigger and modulator signals to improve the kcor startup consistency.

Test setup involved directing a flashlight beam down the kcor tube with the polarizer in the beam.

Initially I attempted multiple clean startup/shutdown cycles. In which the instrument was operated in the proper way. And found consistent startup modes.

I then attempted to mix in a few unclean shutdown cycles in which labview or socketcam were killed to simulated crashing. Here I still found the same consistent startup modes.

Finally I tried startup/shutdown cycles at various exposure times. Here I mostly found consistent startup modes; but a couple times .9 and 1ms exposure times lead to other startup modes. The 1ms seemed to heavily favor starting in another modulation, while the .9ms mostly started up in the nominal mode.

More testing is needed by things seem promising.

Changes made for testing have been reverted to the nominal observing code for weekend science operations. Hopefully in the coming weeks we can test this with sunlight.

____end____

ONSITE STAFF: berkey