
Mauna Loa Solar Observatory Observer's Log

Wed Jun 24 16:33:11 GMT 2020

Year: 20 Doy: 176

Observer: mcotter

WEATHER COMMENT: mcotter: Wed Jun 24 16:35:34 GMT 2020

Temp: 49.5f, Humidity: 5%, Pressure: 28.58in, Wind: 16mph from 163degs, Skies:clear

____end____

GENERAL COMMENT BY mcotter: Wed Jun 24 17:25:29 GMT 2020

Opened windows upstairs

____end____

GENERAL COMMENT BY mcotter: Wed Jun 24 17:25:39 GMT 2020

PM Blew off Kcor 01

____end____

Wed Jun 24 17:34:03 GMT 2020 SGS Alignment complete

Wed Jun 24 17:38:12 GMT 2020 Kcor Focus/alignment program exited

KCOR COMMENT BY berkey: Wed Jun 24 17:52:53 GMT 2020

Before start of observing today the kcor bitflow camera config files were changed from the old 2013 bitflow configs to the new ones sent to us by bitflow yesterday. This is a continuation of some of the close dome/raw file testing we did yesterday that showed some improvement in the columns on the right hand side of the raw data.

____end____

KCOR COMMENT BY berkey: Wed Jun 24 18:32:40 GMT 2020

Strange fringing polarization artifact north of the occulter.

____end____

Wed Jun 24 18:54:25 GMT 2020 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Wed Jun 24 19:09:35 GMT 2020 KCOR End Calibration Script

Wed Jun 24 20:20:32 GMT 2020 SGS Alignment complete

Wed Jun 24 20:30:18 GMT 2020 Kcor Focus/alignment program exited

Wed Jun 24 21:10:54 GMT 2020 KCOR Start Synoptic Patrol

Wed Jun 24 22:17:12 GMT 2020 KCOR End Patrol

Wed Jun 24 22:17:18 GMT 2020 KCOR End Patrol

Wed Jun 24 22:20:57 GMT 2020 KCOR Start Synoptic Patrol

Wed Jun 24 23:09:15 GMT 2020 Kcor Focus/alignment program exited

****GENERAL PROBLEM COMMENT BY berkey**** : Thu Jun 25 01:55:47 GMT 2020

During a cloudy period the SGS guider stopped moving. The GUI showed -10V output voltages on both RA and DEC

Further investigation with a meter found that both amplifiers had their reset flag high. And the status led on the copley amplifiers was a blinking red light. Per the copley manual a blinking red light looks like a "latching fault". In the copley software the various fault conditions can be set to transitory or latching. In latching mode the drive motors will be disabled until the amplifier is reset after a fault in transitory mode operations continue once the fault is passed. At this point we are unsure what the fault was; but looking at the possible faults most seem very motor specific except a fault with the Encoder +5Vdc. If the 5V power supply was flaky that seems like it could fault both motors in this condition.

Restarting the SGS PXI chassis cleared the fault issues and the guider was able to move again.

If fault condition continues to persist recommend changing 5 Volt DC power supply and continue to monitor to ensure fault condition has been rectified.

____end____

GENERAL COMMENT BY berkey: Thu Jun 25 01:57:54 GMT 2020

Took my first coronal data. Helped trouble shoot guider amplifier fault.

____end____

ONSITE STAFF: berkey, mcotter