
Mauna Loa Solar Observatory Observer's Log

Fri Dec 25 16:26:27 GMT 2020

Year: 20 Doy: 360

Observer: lisapg

WEATHER COMMENT: lisapg: Fri Dec 25 17:13:43 GMT 2020

Temp: 43.1f with windspeed at about 15-20mph from the South-Southeast. Vog is at about 11,000ft + over Saddle but otherwise the sky looks clear.

____end____

GENERAL COMMENT BY lisapg: Fri Dec 25 17:36:11 GMT 2020

PM Blew off Kcor 01

____end____

GENERAL COMMENT BY lisapg: Fri Dec 25 17:36:15 GMT 2020

Opened windows upstairs

____end____

Fri Dec 25 18:01:45 GMT 2020 Kcor Focus/alignment program exited

Fri Dec 25 18:03:54 GMT 2020 KCOR Start Synoptic Patrol

Fri Dec 25 19:10:46 GMT 2020 KCOR End Patrol

Fri Dec 25 19:10:47 GMT 2020 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Fri Dec 25 19:15:26 GMT 2020 KCOR ABORT Calibration Script

Fri Dec 25 19:15:42 GMT 2020 KCOR Start Synoptic Patrol

Fri Dec 25 19:15:43 GMT 2020 KCOR Start Synoptic Patrol

GENERAL COMMENT BY lisapg: Fri Dec 25 19:15:49 GMT 2020

SGS lost tracking during calibrations

____end____

Fri Dec 25 19:15:54 GMT 2020 KCOR End Patrol

Fri Dec 25 19:15:58 GMT 2020 KCOR End Patrol

Fri Dec 25 20:01:37 GMT 2020 Kcor Focus/alignment program exited

Fri Dec 25 20:04:18 GMT 2020 KCOR Start Synoptic Patrol

KCOR COMMENT BY lisapg: Fri Dec 25 20:05:37 GMT 2020

Kcor crashed after aborting calibration.

____end____

Fri Dec 25 20:14:13 GMT 2020 KCOR End Patrol

Fri Dec 25 20:14:14 GMT 2020 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Fri Dec 25 20:29:28 GMT 2020 KCOR End Calibration Script

Fri Dec 25 20:29:45 GMT 2020 KCOR Start Synoptic Patrol

Fri Dec 25 20:29:45 GMT 2020 KCOR Start Synoptic Patrol

****GENERAL PROBLEM COMMENT BY lisapg**** : Fri Dec 25 20:41:46 GMT 2020

After SGS lost voltage readings and tracking, I took out the diffuser and polarizer from the beam and put the lens cover in beam. Then I went upstairs to check the cables on the East side of the spar to see if it was tight anywhere, possibly impeding the spar but everything had a good amount of slack, nothing was tight. I then pulled the spar out of alignment and back, SGS would not get any voltage reading higher than .8. RA and DEC were at two extremes, -10,000 arcsec for the DEC and 5,000 arcsec for the RA. Since it looked as close to aligned as I could tell, I went back downstairs and tried to slew the RA and DEC using the SGS GUI. I noticed the RA would move despite not actually slewing it. I stopped SGS and restarted the SGS computer. Once it was restarted, I went back upstairs, moved the spar off the Sun and then brought it back again. Still couldn't get a reading high than .8 on the voltage from the SGS telescope. Went upstairs and checked the cabling connected to the SGS telescope, found that the SGS telescope electrical box mounted on the spar, below the SGS telescope, had

a loose cable connection on the East side. It came off with me touching it. I inspected the pins, nothing looked bent and then reconnected it, making sure it was properly secured. Moved the spar to see if it helped but it seemed to have not. Rebooted the SGS computer to see if it helped and then went up stairs to move the spar out and then back on the Sun. Again the voltage output stayed around or below .8. Ended up calling Ben, he had me move the spar off the Sun and back on to see if the SGS telescope was getting any readings. Luckily it started reading our normal voltage around 8.6 and the RA and DEC came back to guide properly.

Not entirely sure what happened, but moving the spar off and on the Sun seems like a good way to see if anything was being read by SGS.

____end____

KCOR COMMENT BY lisapg: Fri Dec 25 20:47:15 GMT 2020

KCor MC4U controller GUI started loading and reloading again. It stopped after about 15-20 seconds and KCor computer seems operational.

____end____

GPS COMMENT by MLSO: Fri Dec 25 21:45:06 GMT 2020

Successfully logged in to system

Good disk mount

GPS software failure to start

____end____

GENERAL COMMENT BY lisapg: Fri Dec 25 23:38:14 GMT 2020

SGS lost tracking again.

____end____

Fri Dec 25 23:40:26 GMT 2020 KCOR End Patrol

Fri Dec 25 23:48:18 GMT 2020 KCOR Start Synoptic Patrol

GENERAL PROBLEM COMMENT BY lisapg : Fri Dec 25 23:51:34 GMT 2020

Voltage dropped to .4 and the RA kept increasing in value while the DEC jumped to the negative, then slowly made its way back to zero. After pushing the spar in and out of the Sun's path for about 7 minutes, it finally spiked back up to our normal voltage read and SGS was able to guide properly again.

____end____

Sat Dec 26 01:21:02 GMT 2020 KCOR End Patrol

GENERAL COMMENT BY lisapg: Sat Dec 26 01:27:27 GMT 2020

The aerosols came in heavy not too long after we started taking data but besides the few hiccups with the spar not too bad of a day to take data.

____end____

ONSITE STAFF: lisapg