

-----  
Mauna Loa Solar Observatory Observer's Log  
-----

Wed Oct 23 16:26:24 GMT 2013

Year: 13 Doy: 296

Observer: berkey

WEATHER COMMENT: berkey: Wed Oct 23 16:26:26 GMT 2013

temp 42f, wind 10mph from S, hazy skies with patchy cirrus

\_\_\_\_end\_\_\_\_

Wed Oct 23 16:43:50 GMT 2013: PSPT Start Patrol

CoMP COMMENT BY berkey: Wed Oct 23 16:45:45 GMT 2013

Changed comp occulter to #35. Changed the default setting in software

\_\_\_\_end\_\_\_\_

Wed Oct 23 18:07:04 GMT 2013 COMP Start Patrol

Wed Oct 23 18:22:16 GMT 2013 KCOR Start Synoptic Patrol

Wed Oct 23 18:52:35 GMT 2013 KCOR End Patrol

Wed Oct 23 18:52:37 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini

Wed Oct 23 19:08:36 GMT 2013 KCOR End Calibration Script

Wed Oct 23 19:08:45 GMT 2013 KCOR Start Synoptic Patrol

Wed Oct 23 20:35:46 GMT 2013 KCOR End Patrol

Wed Oct 23 20:35:47 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini

Wed Oct 23 20:51:40 GMT 2013 KCOR End Calibration Script

Wed Oct 23 21:00:40 GMT 2013 COMP End Patrol

Wed Oct 23 21:00:40 GMT 2013 COMP Start Patrol

Wed Oct 23 21:07:47 GMT 2013 COMP End Patrol

GENERAL OBSERVATORY COMMENT BY berkey: Wed Oct 23 21:11:08 GMT 2013

Adjusting guider zeropoint

\_\_\_\_end\_\_\_\_

Wed Oct 23 21:12:26 GMT 2013 COMP Start Patrol

Wed Oct 23 21:24:56 GMT 2013 KCOR Start Synoptic Patrol

Wed Oct 23 22:43:54 GMT 2013 KCOR End Patrol

Wed Oct 23 22:44:40 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini

GENERAL OBSERVATORY COMMENT BY berkey: Wed Oct 23 22:56:03 GMT 2013

Passing clouds coming from the West.

\_\_\_\_end\_\_\_\_

GENERAL OBSERVATORY COMMENT BY berkey: Wed Oct 23 23:00:09 GMT 2013

Third calibration has some clouds in it.

\_\_\_\_end\_\_\_\_

Wed Oct 23 23:00:37 GMT 2013 KCOR End Calibration Script

Wed Oct 23 23:00:57 GMT 2013 KCOR Start Synoptic Patrol

Wed Oct 23 23:01:06 GMT 2013 KCOR End Patrol

Wed Oct 23 23:03:09 GMT 2013 COMP End Patrol

Wed Oct 23 23:03:41 GMT 2013 KCOR Start Synoptic Patrol

Wed Oct 23 23:15:51 GMT 2013 KCOR End Patrol

Wed Oct 23 23:35:23 GMT 2013: PSPT Abort Patrol

Wed Oct 23 23:35:27 GMT 2013: PSPT Abort Patrol

GENERAL OBSERVATORY COMMENT BY berkey: Thu Oct 24 01:28:50 GMT 2013

Added a feature to SGS to record SGS Server Out data to mlsoserver every 15 seconds when we are in open or closed loop. T

he data appears in /data/sgs/%YMMDD%.txt and is the comma seperated decimal values for each of the items appearing in the SGS Server Ouput indicator.

Changes should be completely transparent to the observer. However if for some reason this does negatively effect observin g, the running vi can be killed and the complied executable run instead.

The 15 second cadiance was selected to match the Tci/ip output. It would be very trival to increace the cadiance, but wit hout changing the tcp/ip cadiance it will be a bit of work to make this loop go faster.

\_\_\_\_end\_\_\_\_

KCOR COMMENT BY berkey: Thu Oct 24 01:38:34 GMT 2013

I added some new graphs of kcor "proformance" to the iiwi display. They are displayed via a simple webpage that lives on the desktop of iwii called k-cor.html which will likely need to be re-launch every day or so when either firefox crashes or iwii reboots.

These 3 graphs are generated via a cron job that runs on ulua and works on the current days k-cor data files. Until k-cor is run and starts generating fits files yesterday's graphs will be displayed. Once the script finds new data it will be gin generating "todays" plots.

The first plot is a running log of the foreoptics + shutter state. For a given mechanim if there is a dot between 0 and .3(ish) the mechisims is out of the beam. If there is a dot between 1.0 and 1.2 the mechanism is in the beam.

For the second plot "Science camera mean w/SGSDIM" You can see the mean value from each of the 8 camera images while the instrument is in science mode as well as a plot of the SGSSUM. The y-axis of the Camera's is fixed so if things are out o f range it probally means something is bad. The SGSDIM value has a floating y-axis, which may or not be ok.

The third plot is of the mean value for each of the 8 camera images during the calibrations. Here the y-axis if fixed to what seems like good calibration values. The x value for each point is just corresponds the order of the images.

These plots are rapidly evoloving, so if you find them useful please let me know what works what doesn't what would be mor e interesting to look at. One thing I found rather interesting watching the Science camera mean today was that while occ ulting of k-cor around 11:15 wasn't very obvious in the k-cor gui (I missed it) it seemed very obvious in the graph (large increase of light across the whole detector).

\_\_\_\_end\_\_\_\_

Thu Oct 24 02:00:08 GMT 2013: PSPT Start Patrol

Thu Oct 24 02:08:08 GMT 2013: PSPT Abort Patrol

Thu Oct 24 02:08:11 GMT 2013: PSPT Abort Patrol