```
------------------------------------------------------------------------
          Mauna Loa Solar Observatory Observer's Log
------------------------------------------------------------------------
         Mon Oct  7 17:01:11 GMT 2013
Year: 13  Doy: 280
Observer: berkey
WEATHER COMMENT: berkey: Mon Oct  7 17:01:15 GMT 2013
temp 46f, very light from the SE, patchy but thinning cirrus.
___end___
Mon Oct 7 17:07:23 GMT 2013: PSPT Start Patrol
Mon Oct 07 17:30:22 GMT 2013 KCOR Start Synoptic Patrol
Mon Oct 07 17:28:55 GMT 2013 COMP Start Patrol
KCOR COMMENT BY berkey: Mon Oct  7 17:35:21 GMT 2013
Accidently clicked then unclicked the stop and return button when I was trying to stop the science button.  I managed to c
ancel the stop and return but I cannot uncheck the science button
___end___
KCOR COMMENT BY berkey: Mon Oct  7 17:40:38 GMT 2013
Stop button on the synoptic acquistion mode vi has been moved to the lower right far way from the science button.
___end___
KCOR COMMENT BY berkey: Mon Oct  7 17:42:26 GMT 2013
I made a change to the k-cor calibration code on Saturday to try and get the CALPOL angle in the headers correctly.  The c
hange did not work and we still missed at least one of the calpol changes.  Worse the position values reported are wrong b
y a factor of 352.157 (the gearing ratio for the calpol).  Post observing on Saturday this was corrected and calpol positi
ons appear to have the correct factor again.  The calibration code was also changed at that time to try another technique
to FORCE the calpol to update into the fits header.  It will be tested today.
___end___
Mon Oct 07 17:49:09 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini
KCOR COMMENT BY berkey: Mon Oct  7 17:47:26 GMT 2013
Running a 22.5 degree calibration now.  Sky conditions are poor so this is mosltly a test of the calpang fits keyword inst
ead of a good data calibration.
___end___
Mon Oct 7 17:49:44 GMT 2013: PSPT Start Patrol
Mon Oct 07 18:03:18 GMT 2013 COMP End Patrol
Mon Oct 07 18:10:55 GMT 2013 KCOR End Calibration Script
Mon Oct 07 18:09:17 GMT 2013 COMP Start Patrol
Mon Oct 07 18:11:19 GMT 2013 KCOR Start Synoptic Patrol
Mon Oct 07 18:16:38 GMT 2013 KCOR End Patrol
KCOR COMMENT BY berkey: Mon Oct  7 18:14:38 GMT 2013
CALPANG change didnt work.  No record of 66.5 in the fits headers.
___end___
Mon Oct 07 18:20:29 GMT 2013 COMP End Patrol
Mon Oct 07 19:09:40 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini
Mon Oct 7 19:29:35 GMT 2013: PSPT Abort Patrol
Mon Oct 7 19:29:39 GMT 2013: PSPT Abort Patrol
Mon Oct 07 19:31:33 GMT 2013 KCOR End Calibration Script
Mon Oct 07 19:31:58 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini
Mon Oct 07 19:53:56 GMT 2013 KCOR End Calibration Script
Mon Oct 07 19:54:04 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini
```

Mon Oct 07 20:15:57 GMT 2013 KCOR End Calibration Script
Mon Oct 07 20:17:47 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini
Mon Oct 07 20:39:42 GMT 2013 KCOR End Calibration Script
Mon Oct 07 20:42:35 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini
Mon Oct 7 20:44:56 GMT 2013: PSPT Start Patrol
Mon Oct 07 21:04:31 GMT 2013 KCOR End Calibration Script
Mon Oct 07 21:36:49 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini
Mon Oct 07 21:58:45 GMT 2013 KCOR End Calibration Script
Mon Oct 07 21:58:45 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini
Mon Oct 07 22:20:41 GMT 2013 KCOR End Calibration Script
Mon Oct 07 22:21:35 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini
Mon Oct 7 22:22:26 GMT 2013: PSPT Abort Patrol
Mon Oct 07 22:43:32 GMT 2013 KCOR End Calibration Script
Mon Oct 07 23:00:19 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini
Mon Oct 07 23:22:15 GMT 2013 KCOR End Calibration Script
Mon Oct 07 23:22:15 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini
Mon Oct 07 23:44:11 GMT 2013 KCOR End Calibration Script
Mon Oct 07 23:56:32 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini
Tue Oct 08 00:18:27 GMT 2013 KCOR End Calibration Script
Tue Oct 08 00:18:27 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini
Tue Oct 08 00:40:18 GMT 2013 KCOR End Calibration Script
Tue Oct 08 00:53:51 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini
KCOR COMMENT BY berkey: Tue Oct 8 03:07:43 GMT 2013
Weather was bad for most of the day. I took a lot of calibrations of the inside of the dome, to try and trace down the source of the FITS header updates for the Calpol.
It looks like more varibles then the calpol get effected but I only noticed on the calpol before today.
I am working on chaning the way we handle the fits header; with the goal of making it a Functional Global variable instead of a pure global variable.

If this works, the fits header will technically be local to a subvi whos only job is to hold the fits header in a shift register and return or update it as nessary. This should get rid of the synchornization problems we have now.
So far I only have a prototype of this vi, so near term observations will risk missing fits updates.
___end___