```
------------------------------------------------------------------------------
         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 187degs, Skies: clear
___end___
GENERAL COMMENT BY berkey: Fri Apr 26 16:50:33 GMT 2019
PM Blew off Kcor O1 and opned 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 siganls  to improve the kcor startup consistancy.

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

Initally I attemped multpile clean startup/shutdown cycles.  In which the instrument was operated in the proper way.  And
found consistant startup modes.

I then attemped to mix in a few unclean shutdown cycles in which labview or socketcam were killed to simulated crashing. H
ere I still found the same consistant startup modes.

Finally I tried startup/shutdown cycles at various exposure times.  Here I mostly found consistant startup modes; but a co
uple times .9 and 1ms exposure times lead to other startup modes.  The 1ms seemed to heavily favor starting in another modo
ulation, while the .9ms mostly started up in the nonimal mode.

More testing is needed by things seem promising.

Changes made for testing have been reverted to the nonimal observing code for weekend science operations.  Hopefully in th
e coming weeks we can test this will sunlight.
___end___
ONSITE STAFF:  berkey
```