```
--------------------------------------------------------------------------------
                  Mauna Loa Solar Observatory Observer's Log
--------------------------------------------------------------------------------
          Fri Jul 19 16:23:30 GMT 2013
Year: 13  Doy: 200
Observer: berkey
Fri Jul 19 16:27:51 GMT 2013: PSPT Start Patrol
Fri Jul 19 16:29:27 GMT 2013    CHIP      Start Patrol
Fri Jul 19 16:33:26 GMT 2013 COMP Start Patrol
WEATHER COMMENT: Fri Jul 19 16:35:15 GMT 2013
clear skies, temp 44f, wind 2mph from s
___end___
Fri Jul 19 16:36:16 GMT 2013: PSPT Abort Patrol
Fri Jul 19 16:36:22 GMT 2013: PSPT Abort Patrol
Fri Jul 19 16:36:27 GMT 2013: PSPT Abort Patrol
Fri Jul 19 16:41:46 GMT 2013: PSPT Start Patrol
Fri Jul 19 16:44:33 GMT 2013 COMP End Patrol
Fri Jul 19 16:44:54 GMT 2013 COMP Start Patrol
Fri Jul 19 16:58:05 GMT 2013    MKIV     Start Patrol
**MKIV PROBLEM COMMENT BY BEN**: Fri Jul 19 17:02:01 GMT 2013
Mk4 barrel rotated about 5 degress and stopped.
___end___
Fri Jul 19 17:03:42 GMT 2013
        MkIV


--------------------------------------------------------------------------------
                  Mauna Loa Solar Observatory Observer's Log
--------------------------------------------------------------------------------
          Fri Jul 19 17:04:11 GMT 2013
Year: 13  Doy: 200
Observer: berkey
Fri Jul 19 17:04:38 GMT 2013    MKIV     Start Patrol
MKIV COMMENT BY BEN: Fri Jul 19 17:07:49 GMT 2013
Rebooting akamai fixed the barrel problem.
___end___
NOTE BY BEN: Fri Jul 19 17:08:03 GMT 2013
Spar currently pointed at a small patch of cirrus, mk4 data is bad.
___end___
**CoMP PROBLEM COMMENT BY BEN**: Fri Jul 19 17:14:12 GMT 2013
CoMP horizontal nsc200 cant move occulter far enough.  I tried doing a manual homing but the problem remains.
___end___
Fri Jul 19 18:02:38 GMT 2013    CHIP      LSD
Fri Jul 19 18:01:44 GMT 2013 COMP Start Patrol
Fri Jul 19 18:04:27 GMT 2013    CHIP      End LSD
Fri Jul 19 18:04:41 GMT 2013    CHIP      BiasLSD
Fri Jul 19 18:05:20 GMT 2013    CHIP      End BiasLSD
Fri Jul 19 18:05:34 GMT 2013    CHIP      Bias
Fri Jul 19 18:06:24 GMT 2013    CHIP      End Bias
```

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Fri Jul 19 18:06:31 GMT 2013    CHIP      ReStart Patrol
Fri Jul 19 18:13:46 GMT 2013 COMP End Patrol
Fri Jul 19 18:18:01 GMT 2013 COMP Start Patrol
CoMP COMMENT BY BEN: Fri Jul 19 18:20:43 GMT 2013
Something may have changed in the CoMP optical alignment.
With the spar guider centered and working, the CoMP occulter E-W motor did not have enough range in the positive direction
 to bring the occulter into alignment.
O1 and occulter stages were checked to ensure they were seated nonimally and had no obvious problems.
Problem was corrected by adding a 3mm shim to the E-W stage to bring the centered occulter into the range of the nsc200 mo
tor.
Last year shims were added to the stage between June and August.
___end___
Fri Jul 19 18:29:14 GMT 2013 COMP End Patrol
Fri Jul 19 18:30:58 GMT 2013 COMP Start Patrol
CoMP COMMENT BY BEN: Fri Jul 19 18:28:14 GMT 2013
Automatic occulter centering isn't working again.  Looks like there is some sort of slipping when moving in the positive E
-W direction.  1000 counts negative will make a nonimal occulter move 1000 counts positive is sometimes not noticeable whe
n moving the
occulter with the center occulter vi.
I have removed occulter.rcp from comp.cbk to try and get some data today.
___end___
Fri Jul 19 18:33:23 GMT 2013    MKIV     End Patrol
Fri Jul 19 18:53:04 GMT 2013    MKIV     End Cal
Fri Jul 19 18:53:10 GMT 2013    MKIV     Start Patrol
NOTE BY BEN: Fri Jul 19 19:02:10 GMT 2013
Starting to see a lot of cirrus in the west
___end___
NOTE BY BEN: Fri Jul 19 19:39:17 GMT 2013
Idleing comp, mk4 and shabar for cirrus
___end___
Fri Jul 19 19:39:32 GMT 2013 COMP End Patrol
Fri Jul 19 19:41:23 GMT 2013    MKIV     End Patrol
Fri Jul 19 20:26:58 GMT 2013 COMP Start Patrol
NOTE BY BEN: Fri Jul 19 20:37:33 GMT 2013
Dome shutter reconfigured
___end___
Fri Jul 19 20:39:44 GMT 2013 COMP End Patrol
Fri Jul 19 20:40:34 GMT 2013 COMP Start Patrol
NOTE BY BEN: Fri Jul 19 22:33:54 GMT 2013
A lot of cirrus in the data, I was giving a tour so I didnt get to idle on time.
___end___
Fri Jul 19 22:34:23 GMT 2013 COMP End Patrol
Fri Jul 19 22:37:47 GMT 2013    MKIV     End Patrol
Fri Jul 19 22:53:20 GMT 2013: PSPT Start Patrol
Fri Jul 19 22:58:17 GMT 2013    MKIV     Start Patrol
Fri Jul 19 23:00:53 GMT 2013    CHIP      LSD
Fri Jul 19 23:01:09 GMT 2013 COMP Start Patrol
Fri Jul 19 23:02:38 GMT 2013    CHIP      End LSD
```

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Fri Jul 19 23:02:52 GMT 2013      CHIP      BiasLSD
Fri Jul 19 23:03:40 GMT 2013      CHIP      End BiasLSD
Fri Jul 19 23:03:48 GMT 2013      CHIP      Bias
Fri Jul 19 23:04:29 GMT 2013      CHIP      End Bias
Fri Jul 19 23:04:37 GMT 2013      CHIP      ReStart Patrol
Fri Jul 19 23:22:12 GMT 2013: PSPT Start Patrol
Fri Jul 19 23:22:18 GMT 2013 COMP End Patrol
Fri Jul 19 23:42:11 GMT 2013      CHIP      End Patrol
Fri Jul 19 23:41:21 GMT 2013: PSPT Abort Patrol
Sat Jul 20 00:30:05 GMT 2013      MKIV      End Patrol
Sat Jul 20 02:17:52 GMT 2013
        MkIV


17_04.rawmk4    18_06.rawmk4    19_23.rawmk4    21_15.rawmk4    22_16.rawmk4
17_07.rawmk4    18_09.rawmk4    19_26.rawmk4    21_18.rawmk4    22_19.rawmk4
17_10.rawmk4    18_12.rawmk4    19_29.rawmk4    21_21.rawmk4    22_22.rawmk4
17_13.rawmk4    18_15.rawmk4    19_32.rawmk4    21_23.rawmk4    22_25.rawmk4
17_16.rawmk4    18_18.rawmk4    19_35.rawmk4    21_26.rawmk4    22_28.rawmk4
17_19.rawmk4    18_21.rawmk4    19_38.rawmk4    21_29.rawmk4    22_31.rawmk4
17_22.rawmk4    18_24.rawmk4    20_26.rawmk4    21_32.rawmk4    22_34.rawmk4
17_25.rawmk4    18_27.rawmk4    20_33.rawmk4    21_35.rawmk4    22_58.rawmk4
17_28.rawmk4    18_30.rawmk4    20_36.rawmk4    21_38.rawmk4    23_01.rawmk4
17_31.rawmk4    18_37.rawmk4    20_39.rawmk4    21_41.rawmk4    23_04.rawmk4
17_34.rawmk4    18_43.rawmk4    20_42.rawmk4    21_44.rawmk4    23_07.rawmk4
17_37.rawmk4    18_49.rawmk4    20_45.rawmk4    21_47.rawmk4    23_10.rawmk4
17_40.rawmk4    18_56.rawmk4    20_48.rawmk4    21_50.rawmk4    23_13.rawmk4
17_43.rawmk4    18_59.rawmk4    20_51.rawmk4    21_53.rawmk4    23_15.rawmk4
17_45.rawmk4    19_02.rawmk4    20_54.rawmk4    21_56.rawmk4    23_18.rawmk4
17_48.rawmk4    19_05.rawmk4    20_57.rawmk4    21_59.rawmk4    c18_33.rawmk4
17_51.rawmk4    19_08.rawmk4    21_00.rawmk4    22_02.rawmk4    c18_40.rawmk4
17_54.rawmk4    19_11.rawmk4    21_03.rawmk4    22_05.rawmk4    c18_46.rawmk4
17_57.rawmk4    19_14.rawmk4    21_06.rawmk4    22_08.rawmk4
18_00.rawmk4    19_17.rawmk4    21_09.rawmk4    22_11.rawmk4
18_03.rawmk4    19_20.rawmk4    21_12.rawmk4    22_14.rawmk4
```