```
--------------------------------------------------------------------------------
                  Mauna Loa Solar Observatory Observer's Log
--------------------------------------------------------------------------------
          Wed Sep 16 17:12:48 GMT 1998
Year: 98  Doy: 259
Observer: koon
WEATHER COMMENT: Wed Sep 16 17:12:56 GMT 1998
Clear sky, wind=5 mph from the SE, temp=50 F.
Wed Sep 16 17:14:09 GMT 1998    CHIP     Startup--Initializing new tape
Wed Sep 16 17:22:17 GMT 1998    MKIII    Start Patrol
Wed Sep 16 17:22:43 GMT 1998    PICS     Start Patrol
Wed Sep 16 17:45:46 GMT 1998    MKIII    End Patrol
Wed Sep 16 17:47:18 GMT 1998
MKIII COMMENT: Wed Sep 16 17:49:31 GMT 1998
When I started this morning I typed Run in the xterm window instead of the
cmdtool window.  This caused some problems, the animations display didn't
work, the data scan files are named incorrectly.  I exited and cycled the
main power switch and restarted everything for the MKIII.  That fixed the
problems.  I will delete the misnamed files, there are only 20 minutes
worth.
Wed Sep 16 18:01:53 GMT 1998    CHIP     Bias
Wed Sep 16 18:02:41 GMT 1998    PICS     Flat
Wed Sep 16 18:02:55 GMT 1998    CHIP     End Bias
Wed Sep 16 18:03:09 GMT 1998    CHIP     Water
Wed Sep 16 18:03:50 GMT 1998    CHIP     End Water
Wed Sep 16 18:04:12 GMT 1998    PICS     End Flat
Wed Sep 16 19:02:00 GMT 1998    CHIP     Bias
Wed Sep 16 19:02:39 GMT 1998    PICS     Flat
Wed Sep 16 19:03:06 GMT 1998    CHIP     End Bias
Wed Sep 16 19:03:16 GMT 1998    CHIP     Water
Wed Sep 16 19:04:00 GMT 1998    CHIP     End Water
Wed Sep 16 19:04:00 GMT 1998    CHIP     End Water
**PSPT PROBLEM**: Wed Sep 16 19:52:53 GMT 1998
Mirror is oscillating again, the sky is clear.
I exited the program while the mirror drive was off, so it can cool down.
Wed Sep 16 20:01:55 GMT 1998    CHIP     Gain
Wed Sep 16 20:02:44 GMT 1998    PICS     Flat
Wed Sep 16 20:04:12 GMT 1998    PICS     End Flat
Wed Sep 16 20:06:33 GMT 1998    CHIP     End Gain
Wed Sep 16 20:06:48 GMT 1998    CHIP     Bias
Wed Sep 16 20:07:38 GMT 1998    CHIP     End Bias
Wed Sep 16 20:07:48 GMT 1998    CHIP     Water
Wed Sep 16 20:08:24 GMT 1998    CHIP     End Water
**PSPT PROBLEM**: Wed Sep 16 20:12:21 GMT 1998
There doesn't appear to be any fans in the electronics rack to cool the
mirror drive board.  I pulled it out and am letting it cool down before
I observe.
**PSPT PROBLEM**: Wed Sep 16 20:30:44 GMT 1998
```

```
I installed the driver board and used Run to start observing.
COMMENT: Wed Sep 16 20:39:04 GMT 1998
Extended the dome slot.
Wed Sep 16 21:02:41 GMT 1998    PICS     Flat
Wed Sep 16 21:02:49 GMT 1998    CHIP     Bias
Wed Sep 16 21:03:47 GMT 1998    CHIP     End Bias
Wed Sep 16 21:03:57 GMT 1998    CHIP     Water
Wed Sep 16 21:04:08 GMT 1998    PICS     End Flat
Wed Sep 16 21:04:43 GMT 1998    CHIP     End Water
COMMENT: Wed Sep 16 21:19:52 GMT 1998
Lost guiding in declination, repointed.
Wed Sep 16 22:02:46 GMT 1998    PICS     Flat
Wed Sep 16 22:03:14 GMT 1998    CHIP     Bias
Wed Sep 16 22:04:16 GMT 1998    PICS     End Flat
Wed Sep 16 22:04:21 GMT 1998    CHIP     End Bias
Wed Sep 16 22:04:31 GMT 1998    CHIP     Water
Wed Sep 16 22:05:12 GMT 1998    CHIP     End Water
**PSPT PROBLEM**: Wed Sep 16 22:11:01 GMT 1998
I found the fans for the electronics rack, they are at the bottom of the rack, there are 3 of them and they blow air th
rough the electronics.  They are
still functioning but how well they cool is dubious since the rack is only
vented at the top with no cool air inlets down low.  But the mirror drive
module didn't get very hot so maybe it only gets hot after something causes
the mirror oscillation to take place.  Haosheng is sending out a spare
mirror driver board for us to try.  By the way, pull out a few of the bigger
modules in the lowest section of the cabinet to be able to see the fans from
the front of the cabinet.
Wed Sep 16 22:26:06 GMT 1998    CHIP     ending tape
COMMENT: Wed Sep 16 22:40:03 GMT 1998

Tapes:
******
PICS: P01295
CHIP: C00692
LOWL: L00543 in drive #1

Wed Sep 16 22:40:57 GMT 1998
       MkIII


17_50.rawmk3    18_43.rawmk3    19_45.rawmk3    20_38.rawmk3    21_30.rawmk3
17_53.rawmk3    18_46.rawmk3    19_48.rawmk3    20_41.rawmk3    21_33.rawmk3
17_56.rawmk3    18_49.rawmk3    19_51.rawmk3    20_43.rawmk3    21_36.rawmk3
17_59.rawmk3    18_51.rawmk3    19_54.rawmk3    20_46.rawmk3    21_39.rawmk3
18_02.rawmk3    18_54.rawmk3    19_57.rawmk3    20_49.rawmk3    21_42.rawmk3
18_05.rawmk3    18_57.rawmk3    20_00.rawmk3    20_52.rawmk3    21_45.rawmk3
18_08.rawmk3    19_00.rawmk3    20_03.rawmk3    20_55.rawmk3    21_48.rawmk3
18_11.rawmk3    19_03.rawmk3    20_05.rawmk3    20_58.rawmk3    21_51.rawmk3
18_13.rawmk3    19_06.rawmk3    20_08.rawmk3    21_01.rawmk3    21_54.rawmk3
```

```
18_16.rawmk3    19_09.rawmk3    20_11.rawmk3    21_04.rawmk3    21_57.rawmk3
18_19.rawmk3    19_15.rawmk3    20_14.rawmk3    21_07.rawmk3    21_59.rawmk3
18_22.rawmk3    19_21.rawmk3    20_17.rawmk3    21_10.rawmk3    22_02.rawmk3
18_25.rawmk3    19_27.rawmk3    20_20.rawmk3    21_13.rawmk3    22_05.rawmk3
18_28.rawmk3    19_30.rawmk3    20_23.rawmk3    21_16.rawmk3    22_08.rawmk3
18_31.rawmk3    19_33.rawmk3    20_26.rawmk3    21_19.rawmk3    22_11.rawmk3
18_34.rawmk3    19_36.rawmk3    20_29.rawmk3    21_21.rawmk3    c19_12.rawmk3
18_37.rawmk3    19_39.rawmk3    20_32.rawmk3    21_24.rawmk3    c19_18.rawmk3
18_40.rawmk3    19_42.rawmk3    20_35.rawmk3    21_27.rawmk3    c19_24.rawmk3
```