```
------------------------------------------------------------------------------
                   Mauna Loa Solar Observatory Observer's Log
------------------------------------------------------------------------------
          Fri May 28 16:19:00 GMT 1999
Year: 99  Doy: 148
Observer: yasukawa
WEATHER COMMENT: Fri May 28 16:20:17 GMT 1999
Cool, clear, brisk south wind.
Fri May 28 16:27:21 GMT 1999     MKIII     Start Patrol
Fri May 28 16:27:51 GMT 1999     PICS      Start Patrol
Fri May 28 17:01:29 GMT 1999     PICS      Flat
Fri May 28 17:03:41 GMT 1999     PICS      End Flat
Fri May 28 18:01:31 GMT 1999     PICS      Flat
Fri May 28 18:03:45 GMT 1999     PICS      End Flat
Fri May 28 19:01:28 GMT 1999     PICS      Flat
Fri May 28 19:03:50 GMT 1999     PICS      End Flat
COMMENT: Fri May 28 19:10:01 GMT 1999
Stopping to reconfigure dome shutter.
Fri May 28 19:10:22 GMT 1999     PICS      End Patrol
Fri May 28 19:13:11 GMT 1999     MKIII     End Patrol
Fri May 28 19:24:08 GMT 1999     MKIII     Start Patrol
Fri May 28 19:24:28 GMT 1999     PICS      Start Patrol
Fri May 28 20:01:24 GMT 1999     PICS      Flat
Fri May 28 20:03:46 GMT 1999     PICS      End Flat
**PSPT PROBLEM**: Fri May 28 20:13:27 GMT 1999
2000 UT data images were out of focus (all of them).  Cal images are in focus.
Focus drive did not sound noisy during the cal scans.
**PSPT PROBLEM**: Fri May 28 20:45:05 GMT 1999
Out of focus images occurred during the XYS series intermittently.  Focus
was not changing during the XYS movement so I think that eliminates the
focus mechanism from causing the out-of-focus images.  May be oscillation
of the active mirror??  I did not see any obvious oscillation of the
meter in either drive or error mode.
Fri May 28 21:01:31 GMT 1999     PICS      Flat
Fri May 28 21:03:50 GMT 1999     PICS      End Flat
**PSPT PROBLEM**: Fri May 28 21:10:20 GMT 1999
An interesting observation, when I turn the mirror servo OFF, the focus is
not good, but not as bad as with the mirror servo switch at AUTO.  This was
done during the 2100 UT data scans.  Each time I switched to AUTO, the
out-of-focus image would be displayed, when I switched to OFF, the image
be close to focus.  I think that something is causing oscillation in both
X and Y axis--power supply?
Fri May 28 22:01:32 GMT 1999     PICS      Flat
Fri May 28 22:03:51 GMT 1999     PICS      End Flat
Fri May 28 22:07:16 GMT 1999     PICS      End Patrol
Fri May 28 22:09:29 GMT 1999     MKIII     End Patrol
COMMENT: Fri May 28 22:10:20 GMT 1999
TAPES:
```

```
MKIV:  99-148
PICS:  P01452
CHIP:  Down for repair
LOWL:  L00602
Fri May 28 22:11:17 GMT 1999
        MkIII


16_27.rawmk3    17_34.rawmk3    18_54.rawmk3    20_13.rawmk3    21_21.rawmk3
16_31.rawmk3    17_38.rawmk3    18_58.rawmk3    20_16.rawmk3    21_24.rawmk3
16_34.rawmk3    17_42.rawmk3    19_01.rawmk3    20_20.rawmk3    21_28.rawmk3
16_38.rawmk3    17_46.rawmk3    19_05.rawmk3    20_24.rawmk3    21_32.rawmk3
16_42.rawmk3    17_49.rawmk3    19_09.rawmk3    20_28.rawmk3    21_36.rawmk3
16_45.rawmk3    17_53.rawmk3    19_24.rawmk3    20_31.rawmk3    21_39.rawmk3
16_49.rawmk3    17_57.rawmk3    19_27.rawmk3    20_35.rawmk3    21_43.rawmk3
16_53.rawmk3    18_01.rawmk3    19_31.rawmk3    20_39.rawmk3    21_47.rawmk3
16_57.rawmk3    18_08.rawmk3    19_35.rawmk3    20_43.rawmk3    21_50.rawmk3
17_00.rawmk3    18_16.rawmk3    19_39.rawmk3    20_46.rawmk3    21_54.rawmk3
17_04.rawmk3    18_24.rawmk3    19_42.rawmk3    20_50.rawmk3    21_58.rawmk3
17_08.rawmk3    18_28.rawmk3    19_46.rawmk3    20_54.rawmk3    22_02.rawmk3
17_12.rawmk3    18_31.rawmk3    19_50.rawmk3    20_58.rawmk3    22_06.rawmk3
17_16.rawmk3    18_35.rawmk3    19_54.rawmk3    21_02.rawmk3    c18_04.rawmk3
17_19.rawmk3    18_39.rawmk3    19_57.rawmk3    21_06.rawmk3    c18_12.rawmk3
17_23.rawmk3    18_43.rawmk3    20_01.rawmk3    21_09.rawmk3    c18_20.rawmk3
17_27.rawmk3    18_46.rawmk3    20_05.rawmk3    21_13.rawmk3
17_31.rawmk3    18_50.rawmk3    20_09.rawmk3    21_17.rawmk3
```