```
--------------------------------------------------------------------------------
                 Mauna Loa Solar Observatory Observer's Log
--------------------------------------------------------------------------------
            Tue Jan  5 17:14:17 GMT 1999
Year: 99  Doy: 005
Observer: yasukawa
WEATHER COMMENT: Tue Jan  5 17:15:05 GMT 1999
Cool, clear, light west wind.
Tue Jan  5 17:17:55 GMT 1999    CHIP      Startup--Initializing new tape
LOW-L COMMENT: Tue Jan  5 17:19:05 GMT 1999
LOWL time and date OK, screen color is "negative" but not affecting
program.
Tue Jan  5 17:25:53 GMT 1999    CHIP      CHIP Start Patrol
Tue Jan  5 17:26:06 GMT 1999    PICS      Start Patrol
Tue Jan  5 17:28:12 GMT 1999    MKIII     Start Patrol
**GONG PROBLEM**: Tue Jan  5 17:57:23 GMT 1999
Going down to GONG to check out possible crash.
Tue Jan  5 18:00:35 GMT 1999    PICS      Flat
Tue Jan  5 18:02:18 GMT 1999    PICS      End Flat
Tue Jan  5 18:02:51 GMT 1999    CHIP      Bias
Tue Jan  5 18:03:43 GMT 1999    CHIP      End Bias
Tue Jan  5 18:04:09 GMT 1999    CHIP      Water
Tue Jan  5 18:04:51 GMT 1999    CHIP      End Water
**GONG PROBLEM**: Tue Jan  5 18:41:45 GMT 1999
Back from GONG for now.  Data chassis has a power problem.
Tue Jan  5 18:45:51 GMT 1999    MKIII     Start Cal
WEATHER COMMENT: Tue Jan  5 18:56:49 GMT 1999
Passing cirrus patch.
Tue Jan  5 19:00:37 GMT 1999    PICS      Flat
Tue Jan  5 19:02:03 GMT 1999    PICS      End Flat
Tue Jan  5 19:02:53 GMT 1999    CHIP      Bias
Tue Jan  5 19:03:52 GMT 1999    CHIP      End Bias
Tue Jan  5 19:04:02 GMT 1999    CHIP      Water
Tue Jan  5 19:04:41 GMT 1999    CHIP      End Water
Tue Jan  5 19:06:06 GMT 1999    MKIII     Start Patrol
MKIV COMMENT: Tue Jan  5 19:22:33 GMT 1999
Stopping to do height mask test.
Tue Jan  5 19:25:29 GMT 1999    MKIII     End Patrol
Tue Jan  5 19:31:10 GMT 1999    MKIII     Start Patrol
MKIV COMMENT: Tue Jan  5 19:31:48 GMT 1999
Running height mask test with opal in.
MKIV COMMENT: Tue Jan  5 19:37:50 GMT 1999
took opal out for a couple of scans.
Tue Jan  5 19:44:05 GMT 1999    MKIII     End Patrol
MKIV COMMENT: Tue Jan  5 19:49:12 GMT 1999
Height mask test pau.
Tue Jan  5 19:49:55 GMT 1999    MKIII     Start Patrol
Tue Jan  5 20:00:39 GMT 1999    PICS      Flat
```

```
Tue Jan  5 20:01:48 GMT 1999     CHIP     Gain
Tue Jan  5 20:02:05 GMT 1999     PICS     End Flat
Tue Jan  5 20:06:14 GMT 1999     CHIP     End Gain
Tue Jan  5 20:06:29 GMT 1999     CHIP     Bias
**** EVENT COMMENT ****: Tue Jan  5 20:07:18 GMT 1999
Possible CME at PA 310 from around 1919 UT.  Change seen in thin
streamer before and after height mask test.
1999     CHIP     End Water
**GONG PROBLEM**: Tue Jan  5 20:18:09 GMT 1999
Going back down to GONG to check out dead data computer.
Tue Jan  5 21:00:38 GMT 1999     PICS     Flat
Tue Jan  5 21:02:20 GMT 1999     PICS     End Flat
Tue Jan  5 21:02:48 GMT 1999     CHIP     Bias
Tue Jan  5 21:03:41 GMT 1999     CHIP     End Bias
Tue Jan  5 21:03:56 GMT 1999     CHIP     Water
Tue Jan  5 21:04:46 GMT 1999     CHIP     End Water
WEATHER COMMENT: Tue Jan  5 21:29:15 GMT 1999
In thick cirrus.
**GONG PROBLEM**: Tue Jan  5 21:29:36 GMT 1999
Returned from GONG.  AC power to data chassis power supplies intermittent.
Mostly off.  Suspect solid state relay or MOVs failure between the
AC input filter/connector and the terminal block that distributes
AC to the three power supplies in the assembly.
Notified GONG_ops about my findings.
Tue Jan  5 22:00:36 GMT 1999     PICS     Flat
Tue Jan  5 22:02:01 GMT 1999     PICS     End Flat
Tue Jan  5 22:02:52 GMT 1999     CHIP     Bias
Tue Jan  5 22:03:51 GMT 1999     CHIP     End Bias
Tue Jan  5 22:04:01 GMT 1999     CHIP     Water
Tue Jan  5 22:04:42 GMT 1999     CHIP     End Water
**GONG PROBLEM**: Tue Jan  5 22:08:48 GMT 1999
Going back down to GONG to check out one possible fix.
**GONG PROBLEM**: Tue Jan  5 22:54:33 GMT 1999
There is a molex-type connector at the 5V VME supply in the upper part
of the Data chassis that connects to the solid state relay control
terminals.  It may have become flaky enough that when I pulled the
chassis out to clean the air filter, it became intermittent.  I unplugged the
connector and spread the pins and reconnected it.  It was accessible by
releasing the top back cover via two spring-loaded levers.  The back
cover then swung down revealing the power supply.  After reassembling the
data chassis, I turned the power back on and the data computer came back up.
It has been running OK for a while now.  Changed tapes.
**PICS PROBLEM**: Tue Jan  5 23:02:29 GMT 1999
Ron Lull determined that the AC filter for the Halle temp. controller
has a removeable fuse inside a hatch on the faceplate.  The fit is
so good that it looked like a stamped border for the hard to read
imprint.  Anyway, once I can locate a replacement fuse, probably
from radio shack -- it is a 250V 1A mini-european type fuse,
```

I will re-install the filter and the Halle problem will be resolved.
Tue Jan 5 23:07:47 GMT 1999   PICS   End Patrol
Tue Jan 5 23:09:27 GMT 1999   CHIP   CHIP End Patrol
Tue Jan 5 23:10:14 GMT 1999   CHIP   ending tape
COMMENT: Tue Jan 5 23:14:46 GMT 1999
Tapes:
MKIV: 99-005
PICS: P01367
CHIP: C00754
LOWL: L00567
LOW-L COMMENT: Tue Jan 5 23:16:01 GMT 1999
LOWL time and date were OK every time I looked.
Tue Jan 5 23:16:59 GMT 1999
        MkIII

17_28.rawmk3   18_33.rawmk3   19_59.rawmk3   21_04.rawmk3   22_08.rawmk3
17_31.rawmk3   18_36.rawmk3   20_02.rawmk3   21_07.rawmk3   22_12.rawmk3
17_34.rawmk3   18_39.rawmk3   20_06.rawmk3   21_10.rawmk3   22_15.rawmk3
17_38.rawmk3   18_42.rawmk3   20_09.rawmk3   21_13.rawmk3   22_18.rawmk3
17_41.rawmk3   18_49.rawmk3   20_12.rawmk3   21_17.rawmk3   22_21.rawmk3
17_44.rawmk3   18_56.rawmk3   20_15.rawmk3   21_20.rawmk3   22_25.rawmk3
17_47.rawmk3   19_02.rawmk3   20_19.rawmk3   21_23.rawmk3   22_28.rawmk3
17_51.rawmk3   19_06.rawmk3   20_22.rawmk3   21_26.rawmk3   22_31.rawmk3
17_54.rawmk3   19_09.rawmk3   20_25.rawmk3   21_30.rawmk3   22_34.rawmk3
17_57.rawmk3   19_12.rawmk3   20_28.rawmk3   21_33.rawmk3   22_37.rawmk3
18_00.rawmk3   19_15.rawmk3   20_31.rawmk3   21_36.rawmk3   22_41.rawmk3
18_04.rawmk3   19_19.rawmk3   20_35.rawmk3   21_39.rawmk3   22_44.rawmk3
18_07.rawmk3   19_22.rawmk3   20_38.rawmk3   21_43.rawmk3   22_47.rawmk3
18_10.rawmk3   19_31.rawmk3   20_41.rawmk3   21_46.rawmk3   22_50.rawmk3
18_13.rawmk3   19_34.rawmk3   20_44.rawmk3   21_49.rawmk3   22_54.rawmk3
18_16.rawmk3   19_37.rawmk3   20_48.rawmk3   21_52.rawmk3   c18_46.rawmk3
18_20.rawmk3   19_40.rawmk3   20_51.rawmk3   21_55.rawmk3   c18_52.rawmk3
18_23.rawmk3   19_50.rawmk3   20_54.rawmk3   21_59.rawmk3   c18_59.rawmk3
18_26.rawmk3   19_53.rawmk3   20_57.rawmk3   22_02.rawmk3
18_29.rawmk3   19_56.rawmk3   21_01.rawmk3   22_05.rawmk3