```
-------------------------------------------------------------------------------
                  Mauna Loa Solar Observatory Observer's Log
-------------------------------------------------------------------------------
          Fri May 12 16:23:35 GMT 2000
Year: 00  Doy: 133
Observer: yasukawa
WEATHER COMMENT: Fri May 12 16:24:40 GMT 2000
Cool, in broken cirrus, light south breeze.
Fri May 12 16:50:52 GMT 2000    CHIP     Startup--Initializing new tape
WEATHER COMMENT: Fri May 12 17:03:13 GMT 2000
Cirrus thinning enough to guide.  Starting PICS and CHIP.
 17:03:20 GMT 2000      PICS     Start Patrol
**LOW-L PROBLEM**: Fri May 12 17:03:44 GMT 2000
LOWL crashed again trying to write a header to drive #0.  Heliostat
found pointing west, date 2000/05/12, time 04:02:30, files 5,
message tape, tape 0 header.  Kim has sent out a "new" drive for us to
replace the current drive 0 with, should arrive in a day or two.  For
now we will swap drives 0 and 1 to see if we can get by.  Swap done at
select switch on rear of drives.  Now drive 0 is temp1 and drive 1 is
temp0.  Unloaded L00706 from orig0.  Loaded L00707 in temp0 and L00708
in temp1.  Cycled power on PC, entered time and date, started lowl program.
**LOW-L PROBLEM**: Fri May 12 17:10:16 GMT 2000
MOF2 not working properly, Kim will be sending out two replacement cells
that we will need to replace the failed cell (and one for spare).
**LOW-L PROBLEM**: Fri May 12 17:11:59 GMT 2000
Forgot to mention original drive 1 makes an unhealthy noise when
tape is loading and positioning itself.  Sounds like a vibration
on one of its rollers, or friction in one of its bearings.
**LOW-L PROBLEM**: Fri May 12 17:18:34 GMT 2000
Well, so much for the swap.  L00707 popped out of temp0 sometime
between the time I started it and now, data is writing to L00708
in temp1.
**LOW-L PROBLEM**: Fri May 12 17:23:41 GMT 2000
Since the sky is bad, I unloaded both tapes and restarted program
with the data writing to temp0 again to see if the problem recurs.
L00707 in temp0, L00708 in temp1.
Fri May 12 18:03:01 GMT 2000    PICS     Flat
Fri May 12 18:05:39 GMT 2000    PICS     End Flat
Distributed Sadler supplies between MLSO first aid station, car first
aid kit, and office first aid kit.  Discarded bottle of Garcia-era
aspirin.
COMMENT: Fri May 12 18:47:57 GMT 2000
reconfiguring dome shutter while in thick clouds.
Fri May 12 18:48:20 GMT 2000    PICS     End Patrol
Fri May 12 18:50:20 GMT 2000    CHIP     CHIP End Patrol
WEATHER COMMENT: Fri May 12 18:53:42 GMT 2000
Can't see solar image on guider target at this time.  Waiting for guiding
to get better before restarting CHIP and PICS.
```

```
Fri May 12 18:58:47 GMT 2000     PICS     Start Patrol
Fri May 12 18:58:47 GMT 2000     PICS     Start Patrol
**LOW-L PROBLEM**: Fri May 12 19:50:39 GMT 2000
LOWL is still taking cloud data, writing to temp0.
Fri May 12 20:03:28 GMT 2000     CHIP     Gain7
Fri May 12 20:12:00 GMT 2000     CHIP     End Gain
Fri May 12 20:12:07 GMT 2000     CHIP     Bias
Fri May 12 20:13:02 GMT 2000     CHIP     End Bias
COMMENT: Fri May 12 20:18:44 GMT 2000
Have not been able to get mail (if any) popped.  Cannot get to hao.ucar.edu
at this time.
PSPT COMMENT: Fri May 12 20:43:25 GMT 2000
Used manual (longhand) command string to write data to tape.
Checked tape with tapecheck command and determined that backup was
successful. Deleted files in archive.  Mailing tape to Randy along with
the other data tape in the mail queue.
 Start Patrol
WEATHER COMMENT: Fri May 12 20:46:00 GMT 2000
In hole, starting MKIV and PSPT
WEATHER COMMENT: Fri May 12 20:50:32 GMT 2000
Thin cirrus in hole.  Orographic clouds forming all around.
MKIV COMMENT: Fri May 12 21:00:58 GMT 2000
Got one complete marginal coronal scan before getting back in thin
cirrus.
WEATHER COMMENT: Fri May 12 21:11:35 GMT 2000
In thick cirrus.
WEATHER COMMENT: Fri May 12 21:24:27 GMT 2000
In orographic clouds, too.
Fri May 12 21:25:22 GMT 2000     CHIP     CHIP End Patrol
Fri May 12 21:26:27 GMT 2000     PICS     End Patrol
Fri May 12 21:27:56 GMT 2000     CHIP     ending tape
COMMENT: Fri May 12 21:28:09 GMT 2000
Tapes:
MKIV:  00-133
PICS:  P01745
CHIP:  C01124
LOWL:  L00707 in temp0
LOW-L COMMENT: Fri May 12 21:37:54 GMT 2000
Last log entry before printing logs and leaving site---
LOWL is still running and writing data to temp0.
It is at file: 4
Fri May 12 21:39:55 GMT 2000
        MkIV


20_45.rawmk4   20_51.rawmk4   20_57.rawmk4   21_03.rawmk4   21_09.rawmk4
20_48.rawmk4   20_54.rawmk4   21_00.rawmk4   21_06.rawmk4   21_12.rawmk4
```