```
--------------------------------------------------------------------------------
                  Mauna Loa Solar Observatory Observer's Log
--------------------------------------------------------------------------------
          Mon Aug 12 16:55:51 GMT 1996
Year: 96  Doy: 225
Observer: koon
WEATHER COMMENT: Mon Aug 12 16:55:55 GMT 1996
Clear sky, wind=10 mph from the SE, temp=49 F.
Mon Aug 12 16:56:32 GMT 1996     CHIP      Startup--Initializing new tape
Mon Aug 12 17:00:10 GMT 1996     dPMon     Start Patrol
Mon Aug 12 17:00:24 GMT 1996     CHIP      CHIP Start Patrol
Mon Aug 12 18:00:56 GMT 1996     dPMon     Flat
Mon Aug 12 18:01:48 GMT 1996     dPMon     End Flat
Mon Aug 12 18:02:16 GMT 1996     CHIP      Bias
Mon Aug 12 18:03:30 GMT 1996     CHIP      End Bias
Mon Aug 12 18:03:37 GMT 1996     CHIP      Water
Mon Aug 12 18:04:17 GMT 1996     CHIP      End Water
CHIP COMMENT: Mon Aug 12 18:53:07 GMT 1996
Stalled with Program:FixCenter and Optics:Busy, no clouds.
Mon Aug 12 19:00:59 GMT 1996     dPMon     Flat
CHIP COMMENT: Mon Aug 12 19:01:37 GMT 1996
Used Kill/Run to restart Patrol, talked to David first to see if anything
different should be done since he recently made some program changes.
Mon Aug 12 19:04:20 GMT 1996     CHIP      CHIP Start Patrol
MKIII COMMENT: Mon Aug 12 19:05:04 GMT 1996
Vdiff images show distinct concentric rings of alternating light and dark.
Maybe a problem with the analog cards.
CHIP COMMENT: Mon Aug 12 19:18:52 GMT 1996
FixCenter seems to be driving the O1 farther and farther from where it should
be in both X and Y directions.  I'll drive it back manually.
CHIP COMMENT: Mon Aug 12 19:30:49 GMT 1996

patrol stalled, maybe due to my centering change, will restart after doing the change requested by David.
CHIP COMMENT: Mon Aug 12 19:39:00 GMT 1996
Restarting Patrol with new version of Accumulate.
Mon Aug 12 19:44:03 GMT 1996     CHIP      CHIP Start Patrol
Mon Aug 12 20:00:57 GMT 1996     dPMon     Flat
Mon Aug 12 20:01:51 GMT 1996     dPMon     End Flat
Mon Aug 12 20:04:32 GMT 1996     CHIP      Gain
Mon Aug 12 20:09:19 GMT 1996     CHIP      End Gain
Mon Aug 12 20:09:29 GMT 1996     CHIP      Bias
Mon Aug 12 20:10:08 GMT 1996     CHIP      End Bias
Mon Aug 12 20:10:18 GMT 1996     CHIP      Water
Mon Aug 12 20:10:51 GMT 1996     CHIP      End Water
COMMENT: Mon Aug 12 20:26:38 GMT 1996
Extended dome slot.
CHIP COMMENT: Mon Aug 12 20:38:55 GMT 1996
FixCenter moving O1 towards lower numbers, I keep moving it manually back
```

to the correct position, it looks like it has stabilized now.
MKIII COMMENT: Mon Aug 12 20:50:31 GMT 1996
Stopped taking data, did 0EOF, turned off Analog power, removed and reseated
the corrector boards in an attempt to eliminate the concentric rings.
Mon Aug 12 21:00:51 GMT 1996   dPMon   Flat
Mon Aug 12 21:01:44 GMT 1996   dPMon   End Flat
Mon Aug 12 21:04:13 GMT 1996   CHIP   Bias
Mon Aug 12 21:05:29 GMT 1996   CHIP   End Bias
Mon Aug 12 21:05:39 GMT 1996   CHIP   Water
Mon Aug 12 21:06:24 GMT 1996   CHIP   End Water
MKIII COMMENT: Mon Aug 12 21:21:13 GMT 1996
Removing and reseating the I/O boards seems to have eliminated the
concentric rings from channel 0, but channel 1 looks noisy now, and the
o-scopes seem to have lost sync. I will stop taking data and reseat the
I/O board for channel 1 and rerun setup to hopefully fix these problems.
CHIP COMMENT: Mon Aug 12 21:56:39 GMT 1996
Stopped Patrol so David could capture an image to transfer later, stalled
on FixCenter, did Kill/Run to resume.
Mon Aug 12 22:00:23 GMT 1996   CHIP   CHIP Start Patrol
Mon Aug 12 22:00:59 GMT 1996   dPMon   Flat
Mon Aug 12 22:01:50 GMT 1996   dPMon   End Flat
MKIII COMMENT: Mon Aug 12 22:46:14 GMT 1996
I haven't been taking data since 2130 because I've tried to get the data
signal to look good. I tried rebooting the computer but the o-scope traces
still move across the screen instead of being fixed. The contours of
the Corona scans have varied each time I reseated the I/O boards, the connections don't feel tight. The vdiffs show verti
cal streaks now, instead
of concentric, but that may have improved after the last board reseating,
it is difficult to tell because of possible noisy sky conditions.
96   CHIP   End Bias
Mon Aug 12 23:04:36 GMT 1996   CHIP   Water
Mon Aug 12 23:05:16 GMT 1996   CHIP   End Water
WEATHER COMMENT: Mon Aug 12 23:10:31 GMT 1996
Orographic clouds are passing by.
Mon Aug 12 23:12:05 GMT 1996   CHIP   CHIP End Patrol
CHIP COMMENT: Mon Aug 12 23:14:21 GMT 1996
Clouds didn't seem to affect FixCenter, and I was able to exit from Patrol
gracefully.
Mon Aug 12 23:48:43 GMT 1996   CHIP   ending tape
COMMENT: Mon Aug 12 23:55:24 GMT 1996
Activity report:
QP: 127; 210; 223; 231; 261; 275-285; 305-315.
No coronal activity.

TAPES:
******
MKIII: H01361
DPMON: P00682

```
CHIP: C00099
LOWL: L00408 in drive #0
SCAN-LOG
SCAN-LOG  17:00:40.  8/12/96 DOY 225
    17:05:58    1 17:09:12      17:12:30      17:15:46      17:19:01
    17:22:14      17:25:28      17:28:40      17:31:54      17:35:06
    17:38:24      17:41:37      17:44:50      17:48:02      17:51:15
    17:54:27      1758 0 CL     18:01:28      1806 15CL     18:19:25
    18:24:51      18:28:05      18:31:24      18:34:35      18:37:48
    18:41:01      18:44:13      18:47:25      18:50:38      18:53:49
    18:57:06      19:00:17      19:03:29      19:06:40      19:09:52
    19:13:03      19:16:17      19:19:27      19:22:39      19:25:49
    19:29:01      19:32:11      19:35:23      19:38:34      19:41:52
    19:45:05      19:48:17      19:51:29      19:54:41      19:57:52
    20:01:05      20:04:16      20:07:29      20:10:40      20:13:53
    20:17:05      20:20:18      20:23:30      20:26:43      20:29:55
    20:33:08      20:36:20      20:39:33      20:42:44      20:49:03
    20:52:16      20:55:28      20:58:46      21:01:59      21:05:16
    21:08:27      21:11:41      21:14:51      21:18:03      21:29:54
    21:33:05
  1 ERRORS
OK
```