```
-------------------------------------------------------------------------------
                 Mauna Loa Solar Observatory Observer's Log
-------------------------------------------------------------------------------
         Fri Jan 16 17:42:41 GMT 1998
Year: 98  Doy: 016
Observer: yasukawa
COMMENT: Fri Jan 16 17:43:06 GMT 1998
Started up using outlined "conservative" startup.  Upon initial turn-on, "no tape detected' prompt does not stop.  Reset s
tops it and get one to the
'done executing...' message described in outline.  Reset KCC again and
typed 'Run' after the scan screen came up.
PSPT COMMENT: Fri Jan 16 17:45:37 GMT 1998
Found that temperature controller in PSPT electronics rack's display
was off because 1 amp fuse had blown.  Replaced the fuse and reinstalled
the controller.  It is working now.
LOW-L COMMENT: Fri Jan 16 17:47:25 GMT 1998
L00491 was popped out.  Cleaned ddrive and inserted L00493 into drive 0.
Fri Jan 16 17:49:09 GMT 1998     PICS      Start Patrol
WEATHER COMMENT: Fri Jan 16 17:49:22 GMT 1998
Cool, in broken cirrus, brisk south wind.
art Patrol
MKIII COMMENT: Fri Jan 16 17:51:11 GMT 1998
Not starting MKIII at this time, cirrus too thick.
PSPT COMMENT: Fri Jan 16 17:51:34 GMT 1998
Not starting PSPT at this time due to cirrus.
Fri Jan 16 18:00:24 GMT 1998     PICS      Flat
Fri Jan 16 18:01:55 GMT 1998     PICS      End Flat
Fri Jan 16 18:02:04 GMT 1998     CHIP      Bias
Fri Jan 16 18:03:04 GMT 1998     CHIP      End Bias
Fri Jan 16 18:03:12 GMT 1998     CHIP      Water
Fri Jan 16 18:03:53 GMT 1998     CHIP      End Water
MKIII COMMENT: Fri Jan 16 18:09:55 GMT 1998

*** Recycling H01720, discarding H01719--lots of funnies! ***

PICS  COMMENT: Fri Jan 16 18:34:25 GMT 1998
Stopping PICS, cirrus too thick.
         End Patrol
Fri Jan 16 19:02:07 GMT 1998     CHIP      Bias
Fri Jan 16 19:03:18 GMT 1998     CHIP      End Bias
Fri Jan 16 19:03:26 GMT 1998     CHIP      Water
Fri Jan 16 19:04:07 GMT 1998     CHIP      End Water
Fri Jan 16 19:08:20 GMT 1998     PICS      Start Patrol
PSPT COMMENT: Fri Jan 16 19:19:39 GMT 1998
Cirrus thinner, attempting to take data with pspt.
PSPT COMMENT: Fri Jan 16 19:46:20 GMT 1998
PSPT COMMENT: Fri Jan 16 19:47:01 GMT 1998
pspt crashed after init with an IDL REBIN error.  alerted Randy and
```

Haosheng. Randy called back and said he didn't think his program
change (last night) would affect program like that. Attempting
restart of program. Typed 'exit' to get out of IDL, typed 'Run'
at psp prompt.
PSPT COMMENT: Fri Jan 16 19:55:52 GMT 1998
OK, PSPT got past the point where it crashed on first startup attempt
and is running OK.
Fri Jan 16 20:01:11 GMT 1998   PICS   Flat
Fri Jan 16 20:02:04 GMT 1998   CHIP   Gain
Fri Jan 16 20:02:33 GMT 1998   PICS   End Flat
Fri Jan 16 20:08:01 GMT 1998   CHIP   End Gain
Fri Jan 16 20:08:08 GMT 1998   CHIP   Bias
Fri Jan 16 20:09:00 GMT 1998   CHIP   End Bias
Fri Jan 16 20:09:08 GMT 1998   CHIP   Water
Fri Jan 16 20:09:45 GMT 1998   CHIP   End Water
PSPT COMMENT: Fri Jan 16 20:21:22 GMT 1998
PSPT crashed again after running for a while, First crash was a REBIN
error in IDL. This time it was a CHECK_FITS error. Alerted Randy and
Haosheng and Restarted.
PSPT COMMENT: Fri Jan 16 20:40:27 GMT 1998
Crash again, same error as last time.
PSPT COMMENT: Fri Jan 16 20:47:15 GMT 1998
Tried "Restart" this time to restart program.
Fri Jan 16 21:01:04 GMT 1998   CHIP   Bias
Fri Jan 16 21:01:12 GMT 1998   PICS   Flat
Fri Jan 16 21:02:04 GMT 1998   CHIP   End Bias
Fri Jan 16 21:02:12 GMT 1998   CHIP   Water
Fri Jan 16 21:02:38 GMT 1998   PICS   End Flat
Fri Jan 16 21:02:56 GMT 1998   CHIP   End Water
PSPT COMMENT: Fri Jan 16 21:27:02 GMT 1998
Haosheng said that Randy's program put a filename into the header of the
flatfield sequence.This caused crashes for him during his testing.
He failed to inform Randy about that so when Randy modified the
programs last night he was unaware that his mods would crash the program.
A good learning opportunity! In cirrus anyway so data is lousy.

Learned how to close down after a crash where one never gets to the
shutdown/cal/continue options menu after the hourly data acquisition.
From the PSP> prompt, type: Obs
This needs to be done after the hour. This will get you to the
dialog.
Shut down PSPT for the day, hoping that Randy or Haosheng will
fix the program so we can observe with the PSPT tomorrow.
PICS COMMENT: Fri Jan 16 21:53:59 GMT 1998
Getting tape i/o errors on nene.
PSPT COMMENT: Fri Jan 16 21:58:55 GMT 1998
Randy restored Calib.pro to original form. This should eliminate the
error that caused the crashes

```
Fri Jan 16 22:01:05 GMT 1998    CHIP     Bias
Fri Jan 16 22:02:03 GMT 1998    CHIP     End Bias
Fri Jan 16 22:02:07 GMT 1998    PICS     End Flat
Fri Jan 16 22:02:12 GMT 1998    CHIP     Water
Fri Jan 16 22:03:00 GMT 1998    CHIP     End Water
COMMENT: Fri Jan 16 22:05:43 GMT 1998
Tapes:
MKIII:  No data
PICS:   P01086
CHIP:   C00474
LOWL:   L00492
Fri Jan 16 22:07:24 GMT 1998    PICS     End Patrol
Fri Jan 16 22:09:37 GMT 1998    CHIP     CHIP End Patrol
PSPT COMMENT: Fri Jan 16 22:12:00 GMT 1998
Message from Randy concerning the fix:

.... The other change I made should be no problem, I just placed a 0 where
there was a blank in a header keyword...but, let me know how it goes.  .....

Fri Jan 16 22:15:11 GMT 1998    CHIP     ending tape
Fri Jan 16 22:16:18 GMT 1998
        MkIII
```