```
--------------------------------------------------------------------------------
                   Mauna Loa Solar Observatory Observer's Log
--------------------------------------------------------------------------------
          Fri Dec 22 17:25:59 GMT 2000
Year: 00  Doy: 357
Observer: yasukawa
WEATHER COMMENT: Fri Dec 22 17:26:49 GMT 2000
Cold, clear, brisk southeast wind.
COMMENT: Fri Dec 22 17:27:18 GMT 2000
Read HELCO meters on the way up here this morning.
Fri Dec 22 17:31:48 GMT 2000    MKIV     Start Patrol
Fri Dec 22 17:31:54 GMT 2000    CHIP     Start 7 Passband Patrol
Fri Dec 22 17:32:01 GMT 2000    PICS     Start Patrol
A NEW TAPE HAS BEEN PUT INTO KAIEE DLT DRIVE, Fri Dec 22 17:43:32 GMT 2000
**ECHO PROBLEM**: Fri Dec 22 18:02:00 GMT 2000
Changed MOF2 setpoint to 0 as instructed by Jonathan Graham.
Fri Dec 22 18:02:31 GMT 2000    PICS     Flat
Fri Dec 22 18:06:12 GMT 2000    PICS     End Flat
Fri Dec 22 20:03:06 GMT 2000    CHIP     LSD
Fri Dec 22 20:05:57 GMT 2000    CHIP     End LSD
Fri Dec 22 20:06:08 GMT 2000    CHIP     BiasLSD
Fri Dec 22 20:06:52 GMT 2000    CHIP     End BiasLSD
Fri Dec 22 20:07:07 GMT 2000    CHIP     Bias7
Fri Dec 22 20:08:02 GMT 2000    CHIP     End Bias7
**ECHO PROBLEM**: Fri Dec 22 20:47:51 GMT 2000
Greg advised Jonathan that echo would not accept 0 setpoint so he changed
it to 25.  MOF2 temp is at 38 now which is OK for this test so Jonathan is
**ECHO PROBLEM**: Fri Dec 22 20:50:42 GMT 2000
MOF2 temp was at 38.  Setpoint was at 25, not 0 so I checked with
Jonathan.  He said Greg advised him that echo would not accept 0 so
he changed setpoint to 25.  Temp is low enough now, he is downloading
some images to see if there may be stress-induced birefringence in the
system.  Kim has sent a list of other items to check if Jonathan
does not confirm this theory.
**ECHO PROBLEM**: Fri Dec 22 21:02:09 GMT 2000
Jonathan examined data and decision was made to continue with Kim's
procedure after Christmas.  Did a partial powerdown on echo (heat exchanger
left on).
Fri Dec 22 22:04:04 GMT 2000    CHIP     End Patrol
Fri Dec 22 22:05:05 GMT 2000    PICS     End Patrol
Fri Dec 22 22:09:18 GMT 2000
        MkIV


17_31.rawmk4    18_38.rawmk4    19_34.rawmk4    20_30.rawmk4    21_26.rawmk4
17_34.rawmk4    18_41.rawmk4    19_37.rawmk4    20_33.rawmk4    21_29.rawmk4
17_37.rawmk4    18_44.rawmk4    19_40.rawmk4    20_36.rawmk4    21_32.rawmk4
17_40.rawmk4    18_47.rawmk4    19_43.rawmk4    20_39.rawmk4    21_35.rawmk4
17_43.rawmk4    18_50.rawmk4    19_46.rawmk4    20_42.rawmk4    21_38.rawmk4
```

```
17_46.rawmk4    18_52.rawmk4    19_49.rawmk4    20_45.rawmk4    21_41.rawmk4
17_49.rawmk4    18_55.rawmk4    19_52.rawmk4    20_48.rawmk4    21_44.rawmk4
17_52.rawmk4    18_58.rawmk4    19_55.rawmk4    20_51.rawmk4    21_47.rawmk4
17_55.rawmk4    19_01.rawmk4    19_58.rawmk4    20_54.rawmk4    21_50.rawmk4
17_58.rawmk4    19_04.rawmk4    20_01.rawmk4    20_57.rawmk4    21_53.rawmk4
18_01.rawmk4    19_07.rawmk4    20_04.rawmk4    21_00.rawmk4    21_56.rawmk4
18_04.rawmk4    19_10.rawmk4    20_07.rawmk4    21_03.rawmk4    21_59.rawmk4
18_10.rawmk4    19_13.rawmk4    20_09.rawmk4    21_06.rawmk4    22_02.rawmk4
18_16.rawmk4    19_16.rawmk4    20_12.rawmk4    21_09.rawmk4    c18_07.rawmk4
18_23.rawmk4    19_19.rawmk4    20_15.rawmk4    21_12.rawmk4    c18_13.rawmk4
18_26.rawmk4    19_22.rawmk4    20_18.rawmk4    21_15.rawmk4    c18_20.rawmk4
18_29.rawmk4    19_25.rawmk4    20_21.rawmk4    21_18.rawmk4
18_32.rawmk4    19_28.rawmk4    20_24.rawmk4    21_21.rawmk4
18_35.rawmk4    19_31.rawmk4    20_27.rawmk4    21_24.rawmk4
```