```
--------------------------------------------------------------------------------
                  Mauna Loa Solar Observatory Observer's Log
--------------------------------------------------------------------------------
          Wed Dec 29 17:25:30 GMT 1999
Year: 99  Doy: 363
Observer: koon
WEATHER COMMENT: Wed Dec 29 17:25:37 GMT 1999
Clear sky, wind=5 mph from the SW, temp=36 F.
itializing new tape
Wed Dec 29 17:32:10 GMT 1999     MKIV    Start Patrol
Wed Dec 29 17:32:21 GMT 1999     PICS    Start Patrol
Wed Dec 29 17:32:21 GMT 1999     PICS    Start Patrol
Wed Dec 29 18:00:31 GMT 1999     PICS    Flat
Wed Dec 29 18:03:17 GMT 1999     CHIP    Bias
Wed Dec 29 18:03:17 GMT 1999     CHIP    Bias
Wed Dec 29 18:04:34 GMT 1999     CHIP    End Bias
Wed Dec 29 18:04:47 GMT 1999     CHIP    Water
Wed Dec 29 18:05:36 GMT 1999     CHIP    End Water
**MKIV PROBLEM**: Wed Dec 29 18:21:37 GMT 1999
There was a phase reversal at the end of the scan, 2 scans ago.
**MKIV PROBLEM**: Wed Dec 29 18:27:40 GMT 1999
More phase reversals, most of last scan, and most of present scan.
Wed Dec 29 19:03:07 GMT 1999     CHIP    Bias
Wed Dec 29 19:04:07 GMT 1999     CHIP    End Bias
Wed Dec 29 19:04:18 GMT 1999     CHIP    Water
Wed Dec 29 19:05:08 GMT 1999     CHIP    End Water
Wed Dec 29 19:10:41 GMT 1999     MKIV    Start Patrol
Wed Dec 29 20:03:00 GMT 1999     CHIP    Gain
Wed Dec 29 20:08:54 GMT 1999     CHIP    End Gain
Wed Dec 29 20:09:08 GMT 1999     CHIP    Bias
Wed Dec 29 20:10:03 GMT 1999     CHIP    End Bias
Wed Dec 29 20:10:20 GMT 1999     CHIP    Water
Wed Dec 29 20:11:05 GMT 1999     CHIP    End Water
Wed Dec 29 21:02:59 GMT 1999     CHIP    Bias
Wed Dec 29 21:03:56 GMT 1999     CHIP    End Bias
Wed Dec 29 21:04:12 GMT 1999     CHIP    Water
Wed Dec 29 21:04:59 GMT 1999     CHIP    End Water
Wed Dec 29 22:03:00 GMT 1999     CHIP    Bias
Wed Dec 29 22:04:03 GMT 1999     CHIP    End Bias
Wed Dec 29 22:04:21 GMT 1999     CHIP    Water
Wed Dec 29 22:05:14 GMT 1999     CHIP    End Water
Wed Dec 29 22:09:50 GMT 1999     MKIV    Start Patrol
**** EVENT COMMENT ****: Wed Dec 29 22:09:58 GMT 1999
Small CME along with an EPL in progress at PA=315, I had stopped the scans
to change the half-wave motor voltage then noticed the CME and restarted
scanning.
PICS  COMMENT: Wed Dec 29 22:29:43 GMT 1999
I didn't see any problems with the occulting wheel movement so I left it
```

```
running today.  I'll check it out better later.
MKIV COMMENT: Wed Dec 29 22:32:11 GMT 1999
I will change the half-wave plate motor voltage back to 12.1 vdc (from 12.3)
at Eric's request, after I shut down.
Wed Dec 29 22:53:33 GMT 1999    CHIP      CHIP End Patrol
Wed Dec 29 22:53:43 GMT 1999    PICS      End Patrol
Wed Dec 29 22:54:25 GMT 1999    CHIP      ending tape
COMMENT: Wed Dec 29 23:11:19 GMT 1999


TAPES:
******
MKIV: 99363
CHIP: C01001
PICS: P01626
LOWL: L00655 in drive #1


Wed Dec 29 23:13:02 GMT 1999
        MkIV


17_32.rawmk4    18_34.rawmk4    20_01.rawmk4    21_03.rawmk4    22_14.rawmk4
17_35.rawmk4    18_40.rawmk4    20_04.rawmk4    21_06.rawmk4    22_17.rawmk4
17_38.rawmk4    18_46.rawmk4    20_06.rawmk4    21_09.rawmk4    22_20.rawmk4
17_41.rawmk4    18_53.rawmk4    20_09.rawmk4    21_12.rawmk4    22_23.rawmk4
17_44.rawmk4    19_10.rawmk4    20_12.rawmk4    21_15.rawmk4    22_26.rawmk4
17_47.rawmk4    19_13.rawmk4    20_15.rawmk4    21_18.rawmk4    22_29.rawmk4
17_50.rawmk4    19_16.rawmk4    20_18.rawmk4    21_21.rawmk4    22_31.rawmk4
17_53.rawmk4    19_19.rawmk4    20_21.rawmk4    21_24.rawmk4    22_34.rawmk4
17_55.rawmk4    19_22.rawmk4    20_24.rawmk4    21_27.rawmk4    22_37.rawmk4
17_58.rawmk4    19_25.rawmk4    20_27.rawmk4    21_30.rawmk4    22_40.rawmk4
18_01.rawmk4    19_28.rawmk4    20_30.rawmk4    21_33.rawmk4    22_43.rawmk4
18_04.rawmk4    19_31.rawmk4    20_33.rawmk4    21_36.rawmk4    22_46.rawmk4
18_07.rawmk4    19_34.rawmk4    20_36.rawmk4    21_39.rawmk4    22_49.rawmk4
18_10.rawmk4    19_37.rawmk4    20_39.rawmk4    21_42.rawmk4    22_52.rawmk4
18_13.rawmk4    19_40.rawmk4    20_42.rawmk4    21_45.rawmk4    22_55.rawmk4
18_16.rawmk4    19_43.rawmk4    20_45.rawmk4    21_48.rawmk4    c18_37.rawmk4
18_19.rawmk4    19_46.rawmk4    20_48.rawmk4    21_51.rawmk4    c18_43.rawmk4
18_22.rawmk4    19_49.rawmk4    20_51.rawmk4    21_54.rawmk4    c18_49.rawmk4
18_25.rawmk4    19_52.rawmk4    20_54.rawmk4    21_57.rawmk4
18_28.rawmk4    19_55.rawmk4    20_57.rawmk4    22_00.rawmk4
18_31.rawmk4    19_58.rawmk4    21_00.rawmk4    22_09.rawmk4
```