```
--------------------------------------------------------------------------------
                  Mauna Loa Solar Observatory Observer's Log
--------------------------------------------------------------------------------
           Thu Nov 22 16:52:34 GMT 2001
Year: 01  Doy: 326
Observer: yasukawa
WEATHER COMMENT: Thu Nov 22 16:53:22 GMT 2001
Cool, clear, brisk south wind.
A NEW TAPE HAS BEEN PUT INTO KAIEE DLT DRIVE, Thu Nov 22 16:57:00 GMT 2001
Thu Nov 22 17:03:16 GMT 2001     CHIP      Start Patrol
Thu Nov 22 17:03:16 GMT 2001     PICS      Start Patrol
PSPT COMMENT: Thu Nov 22 17:08:09 GMT 2001
Started PSPT observations.
Thu Nov 22 17:08:31 GMT 2001     MKIV     Start Patrol
**CHIP PROBLEM**: Thu Nov 22 17:39:11 GMT 2001
CHIP Display is intermittently showing multiple images--a single image in
the center and split hemispheres on either side.
Thu Nov 22 18:02:01 GMT 2001     CHIP      LSD
Thu Nov 22 18:02:47 GMT 2001     PICS      Flat
Thu Nov 22 18:04:19 GMT 2001     CHIP      End LSD
Thu Nov 22 18:04:30 GMT 2001     CHIP      BiasLSD
Thu Nov 22 18:05:26 GMT 2001     CHIP      End BiasLSD
Thu Nov 22 18:05:42 GMT 2001     CHIP      Bias
Thu Nov 22 18:06:06 GMT 2001     PICS      End Flat
Thu Nov 22 18:06:41 GMT 2001     CHIP      End Bias
Thu Nov 22 18:08:02 GMT 2001     MKIV     End Patrol
Thu Nov 22 18:08:11 GMT 2001     MKIV     Start Cal
**** EVENT COMMENT ****: Thu Nov 22 18:13:42 GMT 2001
Active region on disk in sosouthwest quadrant.
Thu Nov 22 18:26:56 GMT 2001     MKIV     End Cal
Thu Nov 22 18:27:06 GMT 2001     MKIV     Start Patrol
Thu Nov 22 19:01:59 GMT 2001     CHIP      LSD
Thu Nov 22 19:04:18 GMT 2001     CHIP      End LSD
Thu Nov 22 19:04:28 GMT 2001     CHIP      BiasLSD
Thu Nov 22 19:05:24 GMT 2001     CHIP      End BiasLSD
Thu Nov 22 19:05:40 GMT 2001     CHIP      Bias
Thu Nov 22 19:06:38 GMT 2001     CHIP      End Bias
Thu Nov 22 20:02:03 GMT 2001     CHIP      LSD
Thu Nov 22 20:04:25 GMT 2001     CHIP      End LSD
Thu Nov 22 20:04:37 GMT 2001     CHIP      BiasLSD
Thu Nov 22 20:05:30 GMT 2001     CHIP      End BiasLSD
Thu Nov 22 20:05:44 GMT 2001     CHIP      Bias
Thu Nov 22 20:06:44 GMT 2001     CHIP      End Bias
**** EVENT COMMENT ****: Thu Nov 22 20:45:35 GMT 2001
Large, fast CME at PA 200-270 beginning at around 2019 UT.  Corresponding
flare on disk near limb (PA 240) commenced at around 2018 UT.
Thu Nov 22 21:00:03 GMT 2001     CHIP      LSD
Thu Nov 22 21:02:18 GMT 2001     CHIP      End LSD
```

```
Thu Nov 22 21:02:33 GMT 2001      CHIP      BiasLSD
Thu Nov 22 21:03:21 GMT 2001      CHIP      End BiasLSD
Thu Nov 22 21:03:30 GMT 2001      CHIP      Bias
Thu Nov 22 21:04:12 GMT 2001      CHIP      End Bias
COMMENT: Thu Nov 22 21:07:31 GMT 2001
Declination reset itself.  Repointed spar and reset guider.
Thu Nov 22 22:02:58 GMT 2001      CHIP      LSD
Thu Nov 22 22:04:29 GMT 2001      PICS      End Patrol
Thu Nov 22 22:05:17 GMT 2001      CHIP      End LSD
Thu Nov 22 22:05:26 GMT 2001      CHIP      BiasLSD
Thu Nov 22 22:06:00 GMT 2001      MKIV      End Patrol
Thu Nov 22 22:06:09 GMT 2001      CHIP      End BiasLSD
Thu Nov 22 22:06:24 GMT 2001      CHIP      Bias
Thu Nov 22 22:07:15 GMT 2001      CHIP      End Bias
Thu Nov 22 22:09:35 GMT 2001      CHIP      End Patrol
PSPT COMMENT: Thu Nov 22 22:11:00 GMT 2001
PSPT observations stopped.
Thu Nov 22 22:11:29 GMT 2001
        MkIV


17_08.rawmk4    18_11.rawmk4    19_17.rawmk4    20_19.rawmk4    21_18.rawmk4
17_11.rawmk4    18_17.rawmk4    19_20.rawmk4    20_22.rawmk4    21_21.rawmk4
17_14.rawmk4    18_23.rawmk4    19_23.rawmk4    20_25.rawmk4    21_24.rawmk4
17_17.rawmk4    18_27.rawmk4    19_25.rawmk4    20_28.rawmk4    21_27.rawmk4
17_20.rawmk4    18_30.rawmk4    19_28.rawmk4    20_31.rawmk4    21_30.rawmk4
17_23.rawmk4    18_32.rawmk4    19_31.rawmk4    20_34.rawmk4    21_33.rawmk4
17_26.rawmk4    18_35.rawmk4    19_34.rawmk4    20_37.rawmk4    21_36.rawmk4
17_29.rawmk4    18_38.rawmk4    19_40.rawmk4    20_40.rawmk4    21_39.rawmk4
17_32.rawmk4    18_41.rawmk4    19_44.rawmk4    20_43.rawmk4    21_42.rawmk4
17_35.rawmk4    18_44.rawmk4    19_47.rawmk4    20_46.rawmk4    21_45.rawmk4
17_38.rawmk4    18_47.rawmk4    19_50.rawmk4    20_49.rawmk4    21_48.rawmk4
17_40.rawmk4    18_50.rawmk4    19_53.rawmk4    20_52.rawmk4    21_51.rawmk4
17_43.rawmk4    18_53.rawmk4    19_56.rawmk4    20_55.rawmk4    21_54.rawmk4
17_46.rawmk4    18_56.rawmk4    19_59.rawmk4    20_58.rawmk4    21_56.rawmk4
17_49.rawmk4    18_59.rawmk4    20_02.rawmk4    21_01.rawmk4    21_59.rawmk4
17_52.rawmk4    19_02.rawmk4    20_05.rawmk4    21_03.rawmk4    22_02.rawmk4
17_55.rawmk4    19_05.rawmk4    20_08.rawmk4    21_06.rawmk4    c18_08.rawmk4
17_58.rawmk4    19_08.rawmk4    20_11.rawmk4    21_09.rawmk4    c18_14.rawmk4
18_01.rawmk4    19_11.rawmk4    20_13.rawmk4    21_12.rawmk4    c18_20.rawmk4
18_04.rawmk4    19_14.rawmk4    20_16.rawmk4    21_15.rawmk4
```