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--------------------------------------------------------------------------
                  Mauna Loa Solar Observatory Observer's Log
--------------------------------------------------------------------------
          Sun Aug 29 17:01:39 GMT 1999
Year: 99  Doy: 241
Observer: koon
WEATHER COMMENT: Sun Aug 29 17:01:43 GMT 1999
Clear sky, very rainy a few miles away, wind=5 mph from the SW, temp=45 F.
Sun Aug 29 17:02:23 GMT 1999    CHIP      Startup--Initializing new tape
Sun Aug 29 17:06:04 GMT 1999    MKIV    Start Patrol
Sun Aug 29 17:06:17 GMT 1999    CHIP      CHIP Start Patrol
Sun Aug 29 17:43:47 GMT 1999    PICS      Start Patrol
PSPT COMMENT: Sun Aug 29 17:58:30 GMT 1999
Tried changing the X and Y mirror gain values from -25 to -5 in the
pspt_sys.h file on the PSPT PC, details in the log book.  This is a test
to see if it helps with the blurred image problems we've been having.
Sun Aug 29 18:00:06 GMT 1999    PICS      Flat
Sun Aug 29 18:00:50 GMT 1999    CHIP      Bias
Sun Aug 29 18:01:44 GMT 1999    CHIP      End Bias
Sun Aug 29 18:01:58 GMT 1999    CHIP      Water
Sun Aug 29 18:02:45 GMT 1999    CHIP      End Water
Sun Aug 29 18:02:45 GMT 1999    CHIP      End Water
Sun Aug 29 18:15:30 GMT 1999    MKIV    Start Cal
Sun Aug 29 18:37:10 GMT 1999    MKIV    Start Patrol
Sun Aug 29 19:00:57 GMT 1999    PICS      polarization_calibration
Sun Aug 29 19:00:57 GMT 1999    PICS      polarization_calibration
Sun Aug 29 19:01:56 GMT 1999    CHIP      End Bias
Sun Aug 29 19:02:11 GMT 1999    CHIP      Water
Sun Aug 29 19:02:54 GMT 1999    CHIP      End Water
**PSPT PROBLEM**: Sun Aug 29 19:16:08 GMT 1999
It keeps crashing, third time today, the error messages are below:
RWM debug info.
PHOTO           FLOAT      = Array(10)
      3176.00       2767.00       2512.00       32.0000       3223.00
      3176.00
            2767.00       2512.00       32.0000       3223.00
            % STRTRIM: Variable is undefined: VALUE.
            % Error occurred at:  SXADDPAR          195

            /export/home/pspt1/idl/idlastro/cds/util/fits/sxaddpar.pro
            %                 PSPT_HI_CADENCE   399
            pspt_hi_cadence.pro
            %                 PSPT_OBS          127 pspt_obs.pro
            %                 PSPT_CONTROL       67
            pspt_control.pro
            %                 $MAIN$
            % Execution halted at:  PSPT_CONTROL       67
            pspt_control.pro
```

```
          IDL> exit
          335.97u 70.10s 41:35.95 16.2%


COMMENT: Sun Aug 29 19:52:15 GMT 1999
Extended the dome slot.
**PSPT PROBLEM**: Sun Aug 29 19:52:24 GMT 1999
The observing sequence finally completed OK after the last Restart.  Some
images were still blurred, so I changed the software mirror gains from
-5 to -50.
Sun Aug 29 20:00:47 GMT 1999     CHIP      Gain
Sun Aug 29 20:05:22 GMT 1999     CHIP      End Gain
Sun Aug 29 20:05:40 GMT 1999     CHIP      Bias
Sun Aug 29 20:06:35 GMT 1999     CHIP      End Bias
Sun Aug 29 20:06:45 GMT 1999     CHIP      Water
Sun Aug 29 20:07:20 GMT 1999     CHIP      End Water
Sun Aug 29 21:01:48 GMT 1999     CHIP      Bias
Sun Aug 29 21:02:44 GMT 1999     CHIP      End Bias
Sun Aug 29 21:02:56 GMT 1999     CHIP      Water
Sun Aug 29 21:03:38 GMT 1999     CHIP      End Water
**PSPT PROBLEM**: Sun Aug 29 21:32:22 GMT 1999
Most images were blurry in this last set, maybe due to gain of -50 or
mybe due to calibration sequence.
Sun Aug 29 22:00:48 GMT 1999     CHIP      Bias
Sun Aug 29 22:01:43 GMT 1999     CHIP      End Bias
Sun Aug 29 22:01:53 GMT 1999     CHIP      Water
Sun Aug 29 22:02:34 GMT 1999     CHIP      End Water
**PSPT PROBLEM**: Sun Aug 29 22:11:08 GMT 1999
I had to try lots of things to get the observing program running again.
I was trying different mirror gains and it kept crashing, even with the
old gain of -25.  So I left the old gain in the software and will try
starting from scratch with the Run command.
Sun Aug 29 22:14:28 GMT 1999     CHIP      CHIP End Patrol
Sun Aug 29 22:15:05 GMT 1999     PICS      End Patrol
Sun Aug 29 22:19:59 GMT 1999     MKIV    End Patrol
Sun Aug 29 22:42:02 GMT 1999     CHIP       ending tape
**PSPT PROBLEM**: Sun Aug 29 22:52:35 GMT 1999
The Run command got things working again, I'll have to repeat some of my
testing on the mirror gains at another time.  I had to wait for the
observing sequence to end before I could shut down gracefully since
the Obs command isn't currently working right.
COMMENT: Sun Aug 29 22:54:13 GMT 1999


TAPES:
******
MKIV: 99241
CHIP: C00909
PICS: P01533
LOWL: L00622 in drive #0
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Sun Aug 29 22:56:06 GMT 1999
        MkIII

17_06.rawmk3    18_08.rawmk3    19_22.rawmk3    20_25.rawmk3    21_27.rawmk3
17_09.rawmk3    18_12.rawmk3    19_26.rawmk3    20_28.rawmk3    21_31.rawmk3
17_13.rawmk3    18_19.rawmk3    19_29.rawmk3    20_32.rawmk3    21_34.rawmk3
17_16.rawmk3    18_26.rawmk3    19_33.rawmk3    20_35.rawmk3    21_38.rawmk3
17_19.rawmk3    18_33.rawmk3    19_36.rawmk3    20_39.rawmk3    21_41.rawmk3
17_23.rawmk3    18_37.rawmk3    19_40.rawmk3    20_42.rawmk3    21_45.rawmk3
17_26.rawmk3    18_40.rawmk3    19_43.rawmk3    20_46.rawmk3    21_48.rawmk3
17_30.rawmk3    18_44.rawmk3    19_47.rawmk3    20_49.rawmk3    21_52.rawmk3
17_33.rawmk3    18_47.rawmk3    19_50.rawmk3    20_53.rawmk3    21_55.rawmk3
17_37.rawmk3    18_51.rawmk3    19_53.rawmk3    20_56.rawmk3    21_59.rawmk3
17_40.rawmk3    18_54.rawmk3    19_57.rawmk3    21_00.rawmk3    22_02.rawmk3
17_44.rawmk3    18_58.rawmk3    20_00.rawmk3    21_03.rawmk3    22_06.rawmk3
17_47.rawmk3    19_01.rawmk3    20_04.rawmk3    21_07.rawmk3    22_09.rawmk3
17_51.rawmk3    19_05.rawmk3    20_08.rawmk3    21_10.rawmk3    22_13.rawmk3
17_54.rawmk3    19_08.rawmk3    20_11.rawmk3    21_14.rawmk3    22_16.rawmk3
17_58.rawmk3    19_12.rawmk3    20_14.rawmk3    21_17.rawmk3    c18_15.rawmk3
18_01.rawmk3    19_15.rawmk3    20_18.rawmk3    21_20.rawmk3    c18_22.rawmk3
18_05.rawmk3    19_19.rawmk3    20_21.rawmk3    21_24.rawmk3    c18_30.rawmk3
```