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Mauna Loa Solar Observatory Observer's Log  
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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 maybe 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:

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MKIV: 99241

CHIP: C00909

PICS: P01533

LOWL: L00622 in drive #0

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