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Mauna Loa Solar Observatory Observer's Log  
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Fri Feb 13 17:19:48 GMT 1998

Year: 98 Doy: 044

Observer: yasukawa

WEATHER COMMENT: Fri Feb 13 17:20:12 GMT 1998

Cool, clear, light south wind.

MKIII COMMENT: Fri Feb 13 17:29:11 GMT 1998

1/2 wave plate drive system making an unusual whine. Checking things out.

Fri Feb 13 17:30:18 GMT 1998 CHIP CHIP Start Patrol

CHIP COMMENT: Fri Feb 13 17:30:38 GMT 1998

Started Patrol without first doing New Day. Aborted Patrol and restarting.

Fri Feb 13 17:33:57 GMT 1998 PICS Start Patrol

CHIP COMMENT: Fri Feb 13 17:34:40 GMT 1998

Abort did not stop program. Clicked Video to get End/Abort window again and then clicked End.

Fri Feb 13 17:36:33 GMT 1998 CHIP CHIP End Patrol

Fri Feb 13 17:41:35 GMT 1998 CHIP Startup--Initializing new tape

CHIP COMMENT: Fri Feb 13 17:44:26 GMT 1998

Restarting Patrol after doing New Day.

Start Patrol

Fri Feb 13 18:00:19 GMT 1998 PICS Flat

Fri Feb 13 18:01:53 GMT 1998 PICS End Flat

Fri Feb 13 18:03:04 GMT 1998 CHIP Bias

Fri Feb 13 18:04:09 GMT 1998 CHIP End Bias

Fri Feb 13 18:04:16 GMT 1998 CHIP Water

Fri Feb 13 18:04:57 GMT 1998 CHIP End Water

Fri Feb 13 18:08:24 GMT 1998 MKIII Start Patrol

MKIII COMMENT: Fri Feb 13 18:08:37 GMT 1998

Cleaned bearing of dried grease and lubricated again with WD-40.

Reassembled motor and placed it back in system. This quieted the beast down, it is running smoothly again. This may again be only temporary as bearing may be one of those permanently lubricated ones an irreparable. If this occurs again in a short time, I suggest we replace the rotor assembly with that of the spare in the black parts cabinet by the microwave. This will eliminate having to rewire the motor to the MKIII.

MKIII COMMENT: Fri Feb 13 18:43:04 GMT 1998

\*\*\* Recycling H01738, discarding H01739 \*\*\*

COMMENT: Fri Feb 13 18:49:17 GMT 1998

Due to preoccupation with MKIII problem, I forgot to turn on the automatic dome rotator. PICS got domed. Remedied that.

PSPT COMMENT: Fri Feb 13 18:55:43 GMT 1998

PSPT apparently crashed. Xterm messages:

```
% Attempt to subscript SS with <INT      (      4)> is out of range
% Execution halted at:  GETFCSP          5 getfcsp.pro
%                       HDR_APPEND_TELES  6 hdr_append_teles.pro
%                       PSPTIMG          49 psptimg.pro
%                       DATA            80 data.pro
%                       PSPT_STARTUP     80 pspt_startup.pro
%                       $MAIN$
```

IDL>

Exited IDL and 'Restart'

While I typed this log entry, PSPT attempted to restart, but crashed again, same message. Exited IDL again and this time tried 'Run'.

```
Fri Feb 13 19:03:12 GMT 1998    CHIP    Bias
Fri Feb 13 19:04:10 GMT 1998    CHIP    End Bias
Fri Feb 13 19:04:25 GMT 1998    MKIII   Start Patrol
Fri Feb 13 19:04:20 GMT 1998    CHIP    Water
Fri Feb 13 19:05:08 GMT 1998    CHIP    End Water
```

MKIII COMMENT: Fri Feb 13 19:05:27 GMT 1998

Calibration looked bad, shutter may not have been all the way in or out, or it may have been opal that was the culprit. Checking things out and will try calibration again.

MKIII COMMENT: Fri Feb 13 19:16:42 GMT 1998

Checked shutter and opal, they were both all the way out. Exercised opal manually, it went in and out OK. Shutter did not go all the way in on first manual In command, it went all the way out with manual Out command, and went all the way in with second In command.

Took both out manually, with retry calibration.

```
Fri Feb 13 19:19:12 GMT 1998    MKIII   Start Cal
```

MKIII COMMENT: Fri Feb 13 19:34:32 GMT 1998

Dark looked better this time.

PSPT COMMENT: Fri Feb 13 20:00:49 GMT 1998

PSPT is humming along nicely now.

```
Fri Feb 13 20:01:24 GMT 1998    PICS    Flat
Fri Feb 13 20:03:02 GMT 1998    CHIP    Gain
Fri Feb 13 20:03:02 GMT 1998    CHIP    Gain
Fri Feb 13 20:08:58 GMT 1998    CHIP    End Gain
Fri Feb 13 20:09:08 GMT 1998    CHIP    Bias
Fri Feb 13 20:10:03 GMT 1998    CHIP    End Bias
Fri Feb 13 20:10:17 GMT 1998    CHIP    Water
Fri Feb 13 20:11:00 GMT 1998    CHIP    End Water
Fri Feb 13 21:02:15 GMT 1998    PICS    Flat
Fri Feb 13 21:03:03 GMT 1998    CHIP    Bias
Fri Feb 13 21:03:53 GMT 1998    PICS    End Flat
Fri Feb 13 21:04:10 GMT 1998    CHIP    End Bias
```

Fri Feb 13 21:04:19 GMT 1998 CHIP Water  
Fri Feb 13 21:05:04 GMT 1998 CHIP End Water

MKIII COMMENT: Fri Feb 13 21:24:43 GMT 1998

Noticing Tape write error messages and system stall in Write mode.

From previous experience, data is probably not going to tape.

Fri Feb 13 22:00:15 GMT 1998 PICS Flat  
Fri Feb 13 22:01:52 GMT 1998 PICS End Flat  
Fri Feb 13 22:03:06 GMT 1998 CHIP Bias  
Fri Feb 13 22:04:09 GMT 1998 CHIP End Bias  
Fri Feb 13 22:04:23 GMT 1998 CHIP Water  
Fri Feb 13 22:05:14 GMT 1998 CHIP End Water  
Fri Feb 13 22:08:41 GMT 1998 CHIP CHIP End Patrol  
Fri Feb 13 22:09:11 GMT 1998 CHIP ending tape  
Fri Feb 13 22:10:27 GMT 1998 PICS End Patrol

COMMENT: Fri Feb 13 22:12:06 GMT 1998

Tapes:

MKIII: H01740, had to manually eject, wasn't writing toward 2130.

PICS: P01112

CHIP: C00501

LOWL: L00496

Fri Feb 13 22:13:50 GMT 1998

MkIII

18_08.rawmk3	19_07.rawmk3	20_12.rawmk3	20_59.rawmk3	21_46.rawmk3
18_11.rawmk3	19_22.rawmk3	20_15.rawmk3	21_02.rawmk3	21_49.rawmk3
18_14.rawmk3	19_28.rawmk3	20_18.rawmk3	21_05.rawmk3	21_52.rawmk3
18_17.rawmk3	19_34.rawmk3	20_21.rawmk3	21_08.rawmk3	21_55.rawmk3
18_20.rawmk3	19_37.rawmk3	20_24.rawmk3	21_11.rawmk3	21_58.rawmk3
18_23.rawmk3	19_40.rawmk3	20_27.rawmk3	21_14.rawmk3	22_00.rawmk3
18_26.rawmk3	19_43.rawmk3	20_30.rawmk3	21_17.rawmk3	22_03.rawmk3
18_29.rawmk3	19_46.rawmk3	20_33.rawmk3	21_20.rawmk3	22_06.rawmk3
18_32.rawmk3	19_49.rawmk3	20_36.rawmk3	21_23.rawmk3	c18_43.rawmk3
18_34.rawmk3	19_52.rawmk3	20_39.rawmk3	21_25.rawmk3	c18_49.rawmk3
18_37.rawmk3	19_55.rawmk3	20_42.rawmk3	21_28.rawmk3	c18_56.rawmk3
18_40.rawmk3	19_58.rawmk3	20_45.rawmk3	21_31.rawmk3	c19_19.rawmk3
18_46.rawmk3	20_01.rawmk3	20_47.rawmk3	21_34.rawmk3	c19_25.rawmk3
18_52.rawmk3	20_04.rawmk3	20_50.rawmk3	21_37.rawmk3	c19_31.rawmk3
18_59.rawmk3	20_07.rawmk3	20_53.rawmk3	21_40.rawmk3	
19_04.rawmk3	20_09.rawmk3	20_56.rawmk3	21_43.rawmk3	