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Mauna Loa Solar Observatory Observer's Log  
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Tue Dec 7 18:32:46 GMT 1999

Year: 99 Doy: 341

Observer: yasukawa

WEATHER COMMENT: Tue Dec 7 18:33:15 GMT 1999

Cool, clear, brisk southeast wind.

COMMENT: Tue Dec 7 18:33:34 GMT 1999

Late start, had to drop kids off at school before leaving town today.

Tue Dec 7 18:34:04 GMT 1999 CHIP Startup--Initializing new tape

Tue Dec 7 18:37:58 GMT 1999 MKIV Start Patrol

Tue Dec 7 18:38:19 GMT 1999 PICS Start Patrol

Tue Dec 7 18:38:19 GMT 1999 PICS Start Patrol

\*\*LOW-L PROBLEM\*\*: Tue Dec 7 18:51:09 GMT 1999

LOWL found running this morning, but both tapes were popped out.

GUI indicating it was set to drive #1, with 4 files in the spool.

Removed L00648 from drive #1 and L00649 from drive #0, cleaned both drives.

Loaded L00650 into drive #0, L00651 into drive #1.

Rebooted CPU, set time and date, Restarted LOWL program, writing to drive #0.

\*\*CHIP PROBLEM\*\*: Tue Dec 7 18:55:20 GMT 1999

Just did 4th Cancel Wait to get off of Velocity (4th occurrence).

\*\*MKIV PROBLEM\*\*: Tue Dec 7 18:55:55 GMT 1999

Haven't been catching all of the phase reversals so far this morning due to LOWL problem.

Tue Dec 7 19:03:09 GMT 1999 CHIP Bias

Tue Dec 7 19:04:26 GMT 1999 CHIP End Bias

Tue Dec 7 19:04:39 GMT 1999 CHIP Water

Tue Dec 7 19:05:27 GMT 1999 CHIP End Water

\*\*PSPT PROBLEM\*\*: Tue Dec 7 19:42:58 GMT 1999

Still having difficulty with mirror servo Y-axis. Mirror on LED is not turning on and Y meter indicating no attempt to acquire. Troubleshooting it, but without spare parts or boards, and adequate documentation and training, this will be difficult.

\*\*MKIV PROBLEM\*\*: Tue Dec 7 19:46:20 GMT 1999

Phasing reversals are frequent and troubleshooting PSPT makes catching and fixing them hit-or-miss at best.

Tue Dec 7 20:03:05 GMT 1999 CHIP Gain

Tue Dec 7 20:23:16 GMT 1999 CHIP End Gain

Tue Dec 7 20:23:33 GMT 1999 CHIP Bias

\*\*CHIP PROBLEM\*\*: Tue Dec 7 20:23:49 GMT 1999

CHIP stuck at -1000, -500 in Gain cal. Cancelled Wait twice to resume.

Was troubleshooting PSPT so it was probably stuck a while.

Tue Dec 7 20:24:41 GMT 1999 CHIP End Bias

Tue Dec 7 20:24:58 GMT 1999 CHIP Water

Tue Dec 7 20:25:38 GMT 1999 CHIP End Water

Tue Dec 7 21:02:00 GMT 1999 CHIP Bias

Tue Dec 7 21:03:03 GMT 1999 CHIP End Bias

Tue Dec 7 21:03:18 GMT 1999 CHIP Water

Tue Dec 7 21:04:05 GMT 1999 CHIP End Water

\*\*PSPT PROBLEM\*\*: Tue Dec 7 21:31:27 GMT 1999

While troubleshooting mirror servo card, pspt suddenly came to life and began running. Checking parameters when it is working.

Tue Dec 7 22:02:00 GMT 1999 CHIP Bias

Tue Dec 7 22:02:59 GMT 1999 CHIP End Bias

Tue Dec 7 22:03:15 GMT 1999 CHIP Water

Tue Dec 7 22:04:04 GMT 1999 CHIP End Water

Tue Dec 7 22:10:55 GMT 1999 PICS End Patrol

\*\*PSPT PROBLEM\*\*: Tue Dec 7 22:13:06 GMT 1999

Mirror servo board seemed to be OK except for mirror on LED being off when mirror wouldn't lock on to sun. Parameters while it was working were similar to when it was not for the meter being pegged at the same side during flat-field offsets. The only other similarity that could be a clue was the pspt suddenly locked on and began running at around the same time it did yesterday at 21-something UT.

Both times I was troubleshooting with the instrument running but stalled at the place where it was trying to lock on to the sun.

I will need to troubleshoot more to find the problem, in the meantime the exercise is useful in helping me understand what is going on on that circuit board.

COMMENT: Tue Dec 7 22:20:10 GMT 1999

Tapes:

MKIV: 99-341

PICS: P01609

CHIP: C00984

LOWL: L00650 in drive #0

Tue Dec 7 22:22:11 GMT 1999

MkIV

18_38.rawmk4	19_32.rawmk4	20_16.rawmk4	21_01.rawmk4	21_45.rawmk4
18_41.rawmk4	19_35.rawmk4	20_19.rawmk4	21_04.rawmk4	21_48.rawmk4
18_44.rawmk4	19_38.rawmk4	20_22.rawmk4	21_05.rawmk4	21_50.rawmk4
18_46.rawmk4	19_41.rawmk4	20_25.rawmk4	21_09.rawmk4	21_53.rawmk4
18_49.rawmk4	19_44.rawmk4	20_28.rawmk4	21_12.rawmk4	21_56.rawmk4
18_52.rawmk4	19_47.rawmk4	20_31.rawmk4	21_15.rawmk4	21_59.rawmk4
18_55.rawmk4	19_50.rawmk4	20_34.rawmk4	21_18.rawmk4	22_02.rawmk4
18_58.rawmk4	19_53.rawmk4	20_37.rawmk4	21_21.rawmk4	22_05.rawmk4
19_01.rawmk4	19_56.rawmk4	20_40.rawmk4	21_24.rawmk4	22_08.rawmk4
19_04.rawmk4	19_58.rawmk4	20_43.rawmk4	21_27.rawmk4	22_11.rawmk4
19_07.rawmk4	20_01.rawmk4	20_46.rawmk4	21_30.rawmk4	c19_13.rawmk4
19_10.rawmk4	20_04.rawmk4	20_49.rawmk4	21_33.rawmk4	c19_19.rawmk4
19_16.rawmk4	20_07.rawmk4	20_52.rawmk4	21_36.rawmk4	c19_26.rawmk4
19_22.rawmk4	20_10.rawmk4	20_55.rawmk4	21_39.rawmk4	
19_29.rawmk4	20_13.rawmk4	20_58.rawmk4	21_42.rawmk4	