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Mauna Loa Solar Observatory Observer's Log  
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Thu Sep 9 16:53:59 GMT 1999

Year: 99 Doy: 252

Observer: koon

Thu Sep 9 16:54:26 GMT 1999 CHIP Startup--Initializing new tape  
Thu Sep 9 16:57:40 GMT 1999 MKIV Start Patrol  
Thu Sep 9 16:57:52 GMT 1999 PICS Start Patrol  
Thu Sep 9 16:57:52 GMT 1999 PICS Start Patrol  
Thu Sep 9 17:01:58 GMT 1999 CHIP Bias  
Thu Sep 9 17:02:51 GMT 1999 CHIP End Bias  
Thu Sep 9 17:03:01 GMT 1999 CHIP Water  
Thu Sep 9 17:03:38 GMT 1999 CHIP End Water

LOW-L COMMENT: Thu Sep 9 17:09:15 GMT 1999

File count was at 78 so I removed L00624 from drive #0 and installed L00626 there. Restarted with data going to L00625 in drive #1.

COMMENT: Thu Sep 9 17:39:39 GMT 1999

Dome was blocking part of Spar, moved it.

Thu Sep 9 18:00:48 GMT 1999 CHIP Bias  
Thu Sep 9 18:01:49 GMT 1999 CHIP End Bias  
Thu Sep 9 18:02:04 GMT 1999 CHIP Water  
Thu Sep 9 18:02:30 GMT 1999 PICS Flat  
Thu Sep 9 18:02:43 GMT 1999 CHIP End Water  
Thu Sep 9 18:05:03 GMT 1999 PICS End Flat  
Thu Sep 9 18:21:02 GMT 1999 MKIV Start Cal  
Thu Sep 9 19:00:33 GMT 1999 PICS polarization\_calibration  
Thu Sep 9 19:03:03 GMT 1999 CHIP Bias  
Thu Sep 9 19:03:59 GMT 1999 CHIP End Bias  
Thu Sep 9 19:04:09 GMT 1999 CHIP Water  
Thu Sep 9 19:04:47 GMT 1999 CHIP End Water  
Thu Sep 9 19:13:16 GMT 1999 MKIV Start Patrol

COMMENT: Thu Sep 9 19:45:42 GMT 1999

Extended the dome slot about 10 minutes ago.

Thu Sep 9 20:02:47 GMT 1999 CHIP Gain  
Thu Sep 9 20:07:15 GMT 1999 CHIP End Gain  
Thu Sep 9 20:07:26 GMT 1999 CHIP Bias  
Thu Sep 9 20:08:15 GMT 1999 CHIP End Bias  
Thu Sep 9 20:08:24 GMT 1999 CHIP Water  
Thu Sep 9 20:09:01 GMT 1999 CHIP End Water  
Thu Sep 9 21:00:50 GMT 1999 CHIP Bias  
Thu Sep 9 21:01:45 GMT 1999 CHIP End Bias  
Thu Sep 9 21:02:00 GMT 1999 CHIP Water  
Thu Sep 9 21:02:43 GMT 1999 CHIP End Water

MKIV COMMENT: Thu Sep 9 21:24:51 GMT 1999

I'm investigating the possible causes for unusual Sky Transmission readouts that are getting written to MkIV data. According to the screen display they are varying between about 280 and about 340 regularly, with a lot of extreme swinging with a period of 4 seconds, very regular too. The LED shows a fairly constant value of around 1400, the Sky Trx telescope on the Spar supplies the signal for both of these readings, so it appears to be working correctly. About 12 days ago the screen readings were about 355 with very little fluctuation of about +/- 1. The AtoD connection at the KCC is a possible problem.

Thu Sep 9 22:02:49 GMT 1999 CHIP Bias  
Thu Sep 9 22:03:44 GMT 1999 CHIP End Bias  
Thu Sep 9 22:03:54 GMT 1999 CHIP Water  
Thu Sep 9 22:04:34 GMT 1999 CHIP End Water  
Thu Sep 9 22:22:21 GMT 1999 CHIP CHIP End Patrol  
Thu Sep 9 22:22:32 GMT 1999 PICS End Patrol  
Thu Sep 9 22:29:13 GMT 1999 MKIV End Patrol

\*\*MKIV PROBLEM\*\*: Thu Sep 9 22:31:47 GMT 1999

The connection to the Analog board on the KCC is good, two wires soldered to pins that are pushed into two holes on the 37 Pin black connector on the front of the chassis. The voltage between the pins is steady at 3.25 to 3.26 vdc, the same as the voltage between the black wire and the board and chassis grounds. The white wire is at the board and chassis grounds.

Also, this voltage corresponds to the voltage shown on the 2nd GUI screen, the field titled Sky Transmission. So it looks like a steady signal that is within defined range is reaching the Analog board, and that board is grounded correctly. But the Sky Trx reading on the primary Mk4 GUI is still jumping between around 280 and around 340. I measured the voltages while the pins were connected to the board connector.

\*\*MKIV PROBLEM\*\*: Thu Sep 9 23:33:44 GMT 1999

There is about 0.15+ VAC noise on the SKY Trx signal line. No discernable pattern on scope trace, lots of various noise signals mixed together I think. The cable isn't shielded. May be able to pick out pattern on trace. Maybe a pattern that matches the 4 seconds (4 screen writes) period between maximum readings?

COMMENT: Thu Sep 9 23:46:26 GMT 1999

TAPES:

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MKIV: 99252

CHIP: C00916

PICS: P01540

LOWL: L00625 in drive #1

Thu Sep 9 23:47:23 GMT 1999

MkIII

16_57.rawmk3	18_00.rawmk3	19_44.rawmk3	20_47.rawmk3	21_50.rawmk3
17_01.rawmk3	18_03.rawmk3	19_48.rawmk3	20_51.rawmk3	21_54.rawmk3
17_04.rawmk3	18_07.rawmk3	19_51.rawmk3	20_54.rawmk3	21_57.rawmk3
17_08.rawmk3	18_10.rawmk3	19_55.rawmk3	20_58.rawmk3	22_01.rawmk3
17_11.rawmk3	18_14.rawmk3	19_58.rawmk3	21_01.rawmk3	22_04.rawmk3
17_15.rawmk3	18_17.rawmk3	20_02.rawmk3	21_05.rawmk3	22_08.rawmk3
17_18.rawmk3	18_24.rawmk3	20_05.rawmk3	21_08.rawmk3	22_11.rawmk3
17_21.rawmk3	18_31.rawmk3	20_09.rawmk3	21_12.rawmk3	22_15.rawmk3
17_25.rawmk3	18_39.rawmk3	20_12.rawmk3	21_15.rawmk3	22_18.rawmk3
17_28.rawmk3	19_13.rawmk3	20_16.rawmk3	21_19.rawmk3	22_22.rawmk3
17_32.rawmk3	19_16.rawmk3	20_19.rawmk3	21_22.rawmk3	22_25.rawmk3
17_35.rawmk3	19_20.rawmk3	20_23.rawmk3	21_26.rawmk3	c18_21.rawmk3
17_39.rawmk3	19_23.rawmk3	20_26.rawmk3	21_29.rawmk3	c18_28.rawmk3
17_42.rawmk3	19_27.rawmk3	20_30.rawmk3	21_33.rawmk3	c18_35.rawmk3
17_46.rawmk3	19_30.rawmk3	20_33.rawmk3	21_36.rawmk3	
17_49.rawmk3	19_34.rawmk3	20_37.rawmk3	21_40.rawmk3	
17_53.rawmk3	19_37.rawmk3	20_40.rawmk3	21_43.rawmk3	
17_56.rawmk3	19_41.rawmk3	20_44.rawmk3	21_47.rawmk3	