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Mauna Loa Solar Observatory Observer's Log  
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Thu Apr 17 16:44:04 GMT 2003

Year: 03 Doy: 107

Observer: stueben

WEATHER COMMENT: Thu Apr 17 16:44:18 GMT 2003

Denser cirrostratus to the east, lighter overhead and west, light south wind, temp 40F.

Thu Apr 17 17:35:07 GMT 2003 CHIP Start Patrol

Thu Apr 17 17:35:26 GMT 2003 PICS Start Patrol

WEATHER COMMENT: Thu Apr 17 17:35:40 GMT 2003

Clouds have thinned enough to start some instruments.

PSPT COMMENT: Thu Apr 17 17:44:12 GMT 2003

Observing.

Thu Apr 17 18:01:54 GMT 2003 PICS Flat

Thu Apr 17 18:02:45 GMT 2003 CHIP LSD

Thu Apr 17 18:04:15 GMT 2003 PICS End Flat

Thu Apr 17 18:04:34 GMT 2003 CHIP End LSD

Thu Apr 17 18:04:40 GMT 2003 CHIP BiasLSD

Thu Apr 17 18:05:31 GMT 2003 CHIP End BiasLSD

Thu Apr 17 18:05:37 GMT 2003 CHIP Bias

Thu Apr 17 18:06:29 GMT 2003 CHIP End Bias

Thu Apr 17 18:12:01 GMT 2003 MKIV Start Patrol

Thu Apr 17 19:01:20 GMT 2003 MKIV End Patrol

\*\*MKIV PROBLEM\*\*: Thu Apr 17 19:12:02 GMT 2003

We've pulled out the STM101 stepper motor driver board for the mk4 barrel and Allen is soldering leads to the transistors so we can monitor the motor drive pulses, the wires will dangle outside the box for o-scope connection.

\*\*MKIV PROBLEM\*\*: Thu Apr 17 19:19:09 GMT 2003

During test scans we had consistent partial sector scans with the typical stalls and at the CCW side we'd get messages like "t\_scan 0 records, barrel 2061 previous barrel 2061" and in the CW direction we'd see "t\_scan 0 records, barrel 63517 previous barrel 63517". These were the typical messages, there was always 0 scan records, the "previous barrel" value always matched the "barrel" value, the actual values varied from about 1800-2100 in the CCW direction and 59000-64000 in the CW direction. So it does appear that the program is stopping the barrel when it sees values outside of the normal range which ends around 8000 in CCW direction and around 58000 in the CW dir.

COMMENT: Thu Apr 17 20:18:39 GMT 2003

Extended the dome slot.

Thu Apr 17 20:19:27 GMT 2003 MKIV Start Patrol

\*\*MKIV PROBLEM\*\*: Thu Apr 17 20:38:58 GMT 2003

O-scope is connected upstairs to stepper motor board for barrel, the barrel is behaving so we'll have to wait for it to misbehave to analyze the signals further. When running correctly the pulses are about 17 ms apart for each of the 4 inputs that we can check.

Thu Apr 17 21:44:55 GMT 2003 MKIV End Patrol

Thu Apr 17 21:57:57 GMT 2003 MKIV Start Patrol  
Thu Apr 17 22:21:54 GMT 2003 MKIV End Patrol  
Thu Apr 17 22:23:27 GMT 2003 MKIV Start Patrol  
WEATHER COMMENT: Thu Apr 17 22:27:13 GMT 2003  
Orographic clouds starting to come up.  
Thu Apr 17 23:00:48 GMT 2003 PICS End Patrol  
WEATHER COMMENT: Thu Apr 17 23:04:41 GMT 2003  
Getting foggy, paused instruments and closed domes.  
Thu Apr 17 23:15:57 GMT 2003 CHIP End Patrol  
Thu Apr 17 23:22:45 GMT 2003 MKIV End Patrol  
Fri Apr 18 01:27:24 GMT 2003 MKIV Start Patrol  
Fri Apr 18 01:45:25 GMT 2003 MKIV Start Patrol  
Fri Apr 18 01:51:37 GMT 2003 MKIV End Patrol  
Fri Apr 18 01:53:22 GMT 2003

MkIV

01_30.rawmk4	20_19.rawmk4	21_06.rawmk4	22_03.rawmk4	22_50.rawmk4
01_34.rawmk4	20_23.rawmk4	21_09.rawmk4	22_06.rawmk4	22_52.rawmk4
01_37.rawmk4	20_26.rawmk4	21_12.rawmk4	22_09.rawmk4	22_55.rawmk4
01_45.rawmk4	20_29.rawmk4	21_15.rawmk4	22_12.rawmk4	22_58.rawmk4
01_48.rawmk4	20_32.rawmk4	21_18.rawmk4	22_15.rawmk4	23_01.rawmk4
18_12.rawmk4	20_36.rawmk4	21_21.rawmk4	22_18.rawmk4	23_04.rawmk4
18_15.rawmk4	20_39.rawmk4	21_24.rawmk4	22_23.rawmk4	23_07.rawmk4
18_21.rawmk4	20_42.rawmk4	21_26.rawmk4	22_26.rawmk4	23_10.rawmk4
18_25.rawmk4	20_45.rawmk4	21_29.rawmk4	22_29.rawmk4	23_13.rawmk4
18_31.rawmk4	20_48.rawmk4	21_32.rawmk4	22_32.rawmk4	23_16.rawmk4
18_36.rawmk4	20_51.rawmk4	21_35.rawmk4	22_35.rawmk4	23_19.rawmk4
18_40.rawmk4	20_54.rawmk4	21_38.rawmk4	22_38.rawmk4	
18_45.rawmk4	20_57.rawmk4	21_41.rawmk4	22_41.rawmk4	
18_51.rawmk4	21_00.rawmk4	21_57.rawmk4	22_44.rawmk4	
18_55.rawmk4	21_03.rawmk4	22_00.rawmk4	22_47.rawmk4	