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Mauna Loa Solar Observatory Observer's Log  
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Sun Sep 12 16:52:36 GMT 2004

Year: 04 Doy: 256

Observer: koon

Sun Sep 12 16:57:56 GMT 2004 MKIV Start Patrol

Sun Sep 12 16:58:09 GMT 2004 CHIP Start Patrol

Sun Sep 12 16:58:22 GMT 2004 PICS Start Patrol

WEATHER COMMENT: Sun Sep 12 16:52:51 GMT 2004

Clear sky, wind=5 mph from the SE, temp=43F.

\_\_\_\_end\_\_\_\_

MKIV COMMENT: Sun Sep 12 17:31:26 GMT 2004

Centered occulting.

\_\_\_\_end\_\_\_\_

ECHO COMMENT: Sun Sep 12 17:31:34 GMT 2004

Time OK>

\_\_\_\_end\_\_\_\_

Sun Sep 12 18:01:54 GMT 2004 CHIP LSD

Sun Sep 12 18:02:31 GMT 2004 PICS Flat

Sun Sep 12 18:03:36 GMT 2004 CHIP End LSD

Sun Sep 12 18:03:46 GMT 2004 CHIP BiasLSD

Sun Sep 12 18:04:40 GMT 2004 CHIP End BiasLSD

Sun Sep 12 18:04:49 GMT 2004 CHIP Bias

Sun Sep 12 18:05:08 GMT 2004 PICS End Flat

Sun Sep 12 18:05:15 GMT 2004 PICS ReStart Patrol

Sun Sep 12 18:05:41 GMT 2004 CHIP End Bias

Sun Sep 12 18:06:00 GMT 2004 CHIP ReStart Patrol

Sun Sep 12 18:08:56 GMT 2004 MKIV End Patrol

Sun Sep 12 18:09:02 GMT 2004 MKIV Start Cal

Sun Sep 12 18:27:44 GMT 2004 MKIV End Cal

Sun Sep 12 18:27:50 GMT 2004 MKIV Start Patrol

MKIV COMMENT: Sun Sep 12 20:40:13 GMT 2004

Centered occulting.

\_\_\_\_end\_\_\_\_

Sun Sep 12 21:11:49 GMT 2004 CHIP End Patrol

Sun Sep 12 21:12:27 GMT 2004 PICS End Patrol

Sun Sep 12 21:13:24 GMT 2004 MKIV End Patrol

**\*\*MLSO PROBLEM\*\***: Sun Sep 12 21:12:04 GMT 2004

Automatic guider isn't working, the dome isn't turning as it should. I climbed up and checked out sensors, there are signs of a short circuit at the edge detecting sensor where old white wires touch a connector for the O1 wheel for mk4. I'm pausing instruments to check it out better.

\_\_\_\_end\_\_\_\_

WEATHER COMMENT: Mon Sep 13 01:20:40 GMT 2004

Partly cloudy with low clouds.

\_\_\_\_end\_\_\_\_

**\*\*MLSO PROBLEM\*\***: Mon Sep 13 01:20:59 GMT 2004

I replaced the old wiring that shorted due to UV aging, for both the edge sensor and the cloud sensor, now the edge sensor triggers a relay in that gray box on the top of the circular dome wall - like it should but wasn't doing earlier. The Cloud sensor triggers a relay too like it did earlier. But despite relays clicking I can't get the dome to rotate in automatic mode, though it does rotate in manual mode. Maybe a relay contact got damaged when the short circuit happened and now that needs smoothing or replacing. I'll see what I can find before I leave.

\_\_\_\_end\_\_\_\_

Mon Sep 13 01:58:30 GMT 2004 CHIP Start Patrol

**\*\*MLSO PROBLEM\*\***: Mon Sep 13 01:41:12 GMT 2004

One of the contacts on the dome edge sensor relay is damaged and the circuit board looks like some components are lightly toasted. I can't find any spare relay of that type. I'll try to get some data. The dome edge relay is removed from the gray box now but we can still manually rotate the dome until we get a new relay. I'll ask Allen to take a look at it since I'm running out of time today, maybe he can fix it or spec it for Ron and get a couple ordered for us.

\_\_\_\_end\_\_\_\_

Mon Sep 13 01:58:45 GMT 2004 PICS Start Patrol  
Mon Sep 13 02:02:32 GMT 2004 MKIV Start Patrol  
MKIV COMMENT: Mon Sep 13 02:03:10 GMT 2004  
Centered occulting.  
\_\_\_\_end\_\_\_\_  
NICE PICSDISC IMAGE: 1746  
NICE PICSLIMB IMAGE: 1747  
NICE MK4 IMAGE: 1745  
NICE CHIP IMAGE: 1740  
Mon Sep 13 02:11:12 GMT 2004 CHIP End Patrol  
Mon Sep 13 02:11:27 GMT 2004 PICS End Patrol  
Mon Sep 13 02:14:43 GMT 2004 MKIV End Patrol  
Mon Sep 13 02:38:39 GMT 2004  
MkIV

02_02.rawmk4	17_39.rawmk4	18_42.rawmk4	19_35.rawmk4	20_28.rawmk4
02_05.rawmk4	17_42.rawmk4	18_45.rawmk4	19_38.rawmk4	20_31.rawmk4
02_08.rawmk4	17_45.rawmk4	18_48.rawmk4	19_41.rawmk4	20_34.rawmk4
02_11.rawmk4	17_47.rawmk4	18_51.rawmk4	19_44.rawmk4	20_40.rawmk4
16_57.rawmk4	17_50.rawmk4	18_54.rawmk4	19_47.rawmk4	20_43.rawmk4
17_01.rawmk4	17_53.rawmk4	18_57.rawmk4	19_50.rawmk4	20_46.rawmk4
17_03.rawmk4	17_56.rawmk4	19_00.rawmk4	19_53.rawmk4	20_49.rawmk4
17_06.rawmk4	17_59.rawmk4	19_03.rawmk4	19_55.rawmk4	20_52.rawmk4
17_09.rawmk4	18_02.rawmk4	19_05.rawmk4	19_58.rawmk4	20_55.rawmk4
17_12.rawmk4	18_05.rawmk4	19_08.rawmk4	20_01.rawmk4	20_58.rawmk4
17_15.rawmk4	18_12.rawmk4	19_11.rawmk4	20_04.rawmk4	21_01.rawmk4
17_18.rawmk4	18_18.rawmk4	19_14.rawmk4	20_07.rawmk4	21_04.rawmk4
17_21.rawmk4	18_24.rawmk4	19_17.rawmk4	20_10.rawmk4	21_07.rawmk4
17_24.rawmk4	18_27.rawmk4	19_20.rawmk4	20_13.rawmk4	21_10.rawmk4
17_27.rawmk4	18_30.rawmk4	19_23.rawmk4	20_16.rawmk4	c18_09.rawmk4
17_30.rawmk4	18_33.rawmk4	19_26.rawmk4	20_19.rawmk4	c18_15.rawmk4
17_33.rawmk4	18_36.rawmk4	19_29.rawmk4	20_22.rawmk4	c18_21.rawmk4
17_36.rawmk4	18_39.rawmk4	19_32.rawmk4	20_25.rawmk4	