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Mauna Loa Solar Observatory Observer's Log  
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Tue Sep 14 17:14:20 GMT 2010

Year: 10 Doy: 257

Observer: koon

WEATHER COMMENT: Tue Sep 14 17:14:21 GMT 2010

Thin to medium cirrostratus overcast, wind=5mph from the SE, temp=48F.

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

Tue Sep 14 17:21:28 GMT 2010 H-ALPHA Start Patrol

Tue Sep 14 17:21:58 GMT 2010 CHIP Start Patrol

Tue Sep 14 17:23:00 GMT 2010 MKIV Start Patrol

Tue Sep 14 17:29:17 GMT 2010 MKIV End Patrol

\*\*PSPT PROBLEM COMMENT BY DARRYL\*\*:  
Tue Sep 14 17:46:16 GMT 2010

Dome azimuth direction contacts caused Startup to stall. When the dome slot is South and you point it towards the East while looking inside the dome azimuth drive control box you will see both see both double sets of contacts make contact moving away from you, normally they are making contact towards you until given a run and direction command, the top set is for "run" and the bottom set is for "direction", moving the dome manually with the switch towards the West will normally cause only the top set of contacts to make contact by moving away from you while the bottom set stays in contact towards you, this bottom set of contacts was moving away when I tried a "dome home" command from the PC and the "run" contacts weren't working, but the "run" contacts work flawlessly using the manual switch. Sometimes the "direction" contacts seem to move away from you after letting go of the manual switch. Still investigating.

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

Tue Sep 14 18:51:08 GMT 2010 MKIV Start Patrol

Tue Sep 14 18:57:17 GMT 2010 MKIV End Patrol

Tue Sep 14 19:14:07 GMT 2010: PSPT Start Patrol

\*\*PSPT PROBLEM COMMENT BY DARRYL\*\*:  
Tue Sep 14 19:14:30 GMT 2010

The computer control of dome azimuth is working again, I wiggled the sandwiched-in connector that is in the back left area of the PSPT electronics cabinet and it started working well right after that, The cable that connects there carries the PC dome azimuth communications between the cabinet and the azimuth motor interface where it splits to the "dome home" limit switch and the azimuth encoder and the dome azimuth control box that houses the contacts I mentioned earlier. To be safe I'll buy some spare relays for the contacts, if they go out we'd get similar problems and I couldn't find any spares.

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

\*\*CHIP PROBLEM COMMENT BY DARRYL\*\*:  
Tue Sep 14 19:21:50 GMT 2010

Typical crash, busy with other problems so I couldn't fix it earlier. Will get it going soon.

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

Tue Sep 14 19:35:01 GMT 2010 MKIV Start Patrol

Tue Sep 14 19:34:59 GMT 2010 CHIP Start Patrol

Tue Sep 14 20:22:17 GMT 2010 MKIV End Patrol

\*\*MKIV PROBLEM COMMENT BY DARRYL\*\*:  
Tue Sep 14 20:21:57 GMT 2010

The scans still look bad today but much better than Sunday for some reason, it is slightly cloudy today so that is degrading it a little. Maybe those "Corrects" run yesterday morning did something, or maybe reseating the MV200 board several times on Sunday did something. There was vog on Friday that might have dirtied the O1 some, right now the bad signal looks like clouds and a dirty O1 are the causes, will pause and remove O1 for cleaning.

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

NOTE BY DARRYL: Tue Sep 14 21:05:28 GMT 2010

I just saw an Iwa bird (frigatebird) spiralling around above MLSO, I don't think it flew in front of the sun but it spiralled up almost out of sight and then glided off to the ESE, those are huge birds and I've never seen one up this high before. Maybe it was getting a thermal boost down the island chain before gliding off to some other island.

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

Tue Sep 14 21:15:35 GMT 2010 MKIV Start Patrol

\*\*MKIV PROBLEM COMMENT BY DARRYL\*\*:  
Tue Sep 14 21:16:01 GMT 2010

Done cleaning O1, re-installed, restarted, still have thin clouds, signal seems slightly better, need clear sky to judge better.

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

Tue Sep 14 21:45:09 GMT 2010 MKIV End Patrol

\*\*MKIV PROBLEM COMMENT BY DARRYL\*\*:  
Tue Sep 14 22:17:36 GMT 2010

Looking at the log for Friday it looks like a Correct was accidentally run at the end of the day, that probably explains this mystery which was first noticed early Saturday. I paused the instrument to run another Correct but the clouds moved in again. I still need to get a spare AD module for the MV200 board so I'll probably shutdown and pull out that module and take pictures of it for Joe Rogers at Shearwater Technology, he'll check them and see if he has a module we can buy, he even said that they have a box of old Dalsa cameras that they got when they acquired the assets of Datacube and he'll check them to see if he has a spare camera that we can buy for Mk4.

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

Tue Sep 14 23:02:43 GMT 2010 CHIP LSD

Tue Sep 14 23:04:07 GMT 2010 CHIP End LSD

Tue Sep 14 23:04:16 GMT 2010 CHIP BiasLSD

Tue Sep 14 23:04:53 GMT 2010 CHIP End BiasLSD

Tue Sep 14 23:05:01 GMT 2010 CHIP Bias

Tue Sep 14 23:05:43 GMT 2010 CHIP End Bias

Tue Sep 14 23:05:50 GMT 2010 CHIP ReStart Patrol

Tue Sep 14 23:19:03 GMT 2010 CHIP End Patrol

NOTE BY DARRYL: Tue Sep 14 23:19:13 GMT 2010

I need to stop the spar guiding to remove the MV200 board and take some pictures of the AD module for replacement location, so I'm stopping the spar instruments

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

Tue Sep 14 23:21:09 GMT 2010 H-ALPHA End Patrol

Tue Sep 14 23:52:26 GMT 2010: PSPT Abort Patrol

Wed Sep 15 00:19:19 GMT 2010

MkIV

17_23.rawmk4	19_40.rawmk4	19_58.rawmk4	20_16.rawmk4	21_27.rawmk4
17_26.rawmk4	19_43.rawmk4	20_01.rawmk4	20_19.rawmk4	21_30.rawmk4
18_51.rawmk4	19_46.rawmk4	20_04.rawmk4	21_15.rawmk4	21_33.rawmk4
18_54.rawmk4	19_49.rawmk4	20_07.rawmk4	21_18.rawmk4	21_36.rawmk4
19_35.rawmk4	19_52.rawmk4	20_10.rawmk4	21_21.rawmk4	21_39.rawmk4
19_37.rawmk4	19_55.rawmk4	20_13.rawmk4	21_24.rawmk4	21_41.rawmk4