

-----  
Mauna Loa Solar Observatory Observer's Log  
-----

Sun Sep 12 17:07:22 GMT 2010

Year: 10 Doy: 255

Observer: koon

WEATHER COMMENT: Sun Sep 12 17:07:23 GMT 2010

Clear sky, wind=2mph from the West, temp=48F.

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

Sun Sep 12 17:14:08 GMT 2010 MKIV Start Patrol

Sun Sep 12 17:14:34 GMT 2010 CHIP Start Patrol

Sun Sep 12 17:14:53 GMT 2010 H-ALPHA Start Patrol

Sun Sep 12 17:20:23 GMT 2010 MKIV End Patrol

Sun Sep 12 17:25:31 GMT 2010: PSPT Start Patrol

Sun Sep 12 17:39:26 GMT 2010 MKIV Start Patrol

Sun Sep 12 17:45:48 GMT 2010 MKIV End Patrol

**\*\*CHIP PROBLEM COMMENT BY DARRYL\*\*:** Sun Sep 12 17:36:20 GMT 2010

Stalled with Program:Exposures, Optics:Busy, on WaitOpti, after 6 sets of good images and a good GUI startup. Will do a pau/kill tasks/run cycle to fix

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

**\*\*MKIV PROBLEM COMMENT BY DARRYL\*\*:** Sun Sep 12 18:50:18 GMT 2010

The realtime and pseudocal images look like snow-type noise. Analog signal "double-humps" looks normal, tried swapping line receiver chip at U35 with a good spare without success. Maybe the Digital Input Module on the MV200 board is bad, I will order a new one ASAP. I'm searching logs and emails for similar problems from the past.

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

Sun Sep 12 19:18:15 GMT 2010 CHIP Start Patrol

**\*\*CHIP PROBLEM COMMENT BY DARRYL\*\*:** Sun Sep 12 19:14:30 GMT 2010

Had to reset Alakai to get "run" to work, now stalled with Program: Init, will do another pau/kill task/run cycle and reset Alakai 1st. Working.

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

Sun Sep 12 19:46:10 GMT 2010 CHIP End Patrol

NOTE BY DARRYL: Sun Sep 12 19:46:15 GMT 2010

I'm pausing the spar instruments, then I will adjust the dome slot and try some experiments with Mk4 MV200 boards, then I'll go back to normal obs.

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

Sun Sep 12 19:48:09 GMT 2010 H-ALPHA End Patrol

Sun Sep 12 20:07:00 GMT 2010 MKIV Start Patrol

Sun Sep 12 20:13:16 GMT 2010 MKIV End Patrol

Sun Sep 12 20:34:13 GMT 2010 MKIV Start Patrol

Sun Sep 12 20:59:36 GMT 2010 MKIV Start Patrol

Sun Sep 12 21:05:51 GMT 2010 MKIV End Patrol

Sun Sep 12 21:35:46 GMT 2010 MKIV Start Patrol

Sun Sep 12 21:41:28 GMT 2010 H-ALPHA Start Patrol

Sun Sep 12 21:41:26 GMT 2010 CHIP Start Patrol

NOTE BY DARRYL: Sun Sep 12 21:41:24 GMT 2010

Done testing MV200 board, restarting spar instruments.

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

Sun Sep 12 21:57:41 GMT 2010 MKIV Start Patrol

\*\*MKIV PROBLEM COMMENT BY DARRYL\*\* : Sun Sep 12 21:42:02 GMT 2010

I swapped the current MV200 board for a know good spare that doesn't have a digital input module (DIM), I used the DIM from the current board and got the exact same results, snow-like noise instead of data. I also tried a bad DIM on the current MV200 board and got a different bad result, there was no snow-like noise, just a white scan and no plotted gif, the barrel turns CCW to a limit and stays there. Perhaps the old bad DIM module failed due to a different reason or perhaps the current DIM is really OK, we need at least one spare DIM anyway since these fail relatively often so I'll buy one anyway.

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

Sun Sep 12 23:02:47 GMT 2010 CHIP LSD

Sun Sep 12 23:04:21 GMT 2010 CHIP End LSD

Sun Sep 12 23:04:29 GMT 2010 CHIP BiasLSD

Sun Sep 12 23:05:07 GMT 2010 CHIP End BiasLSD

Sun Sep 12 23:05:15 GMT 2010 CHIP Bias

Sun Sep 12 23:05:48 GMT 2010 CHIP End Bias

Sun Sep 12 23:05:55 GMT 2010 CHIP ReStart Patrol

Sun Sep 12 23:17:07 GMT 2010 CHIP End Patrol

Sun Sep 12 23:19:39 GMT 2010 H-ALPHA End Patrol

Sun Sep 12 23:20:49 GMT 2010: PSPT Abort Patrol

\*\*MKIV PROBLEM COMMENT BY DARRYL\*\* : Sun Sep 12 23:22:13 GMT 2010

I'll put the current DIM back on the current MV200 board and put that back in place. Further troubleshooting needs to be done on this snow-like signal problem. Previous logs don't show an exact match, I saw a similar signal bacl around DOY 130 in 2009 when I was trouble shooting one of the many simultaneous Mk4 problems, I think I had changed the jumpers for the BIN signal to get the barrel to work correctly instead of stopping at the CCW limit as I saw today with the old DIM module in place, later we found that the line receiver at U35 on the transformation board was bad and all jumpers were put back to normal. Anyway that is the only "snow-like signal" comments I could find in the logs, the signal looks like TV "snow" - what you see when there isn't any modulated signal on a VHF/UHF TV channel.

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

\*\*PSPT PROBLEM COMMENT BY DARRYL\*\* : Sun Sep 12 23:39:16 GMT 2010

"Shutdown" didn't complete, didn't get to "park dome" part and GUI was unusable so I killed runPspt task and ran Pspt and then chose Shutdown again, it shutdown properly then.

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

Sun Sep 12 23:57:35 GMT 2010

MkIV

17\_14.rawmk4 17\_39.rawmk4 20\_07.rawmk4 20\_34.rawmk4 20\_59.rawmk4

17\_17.rawmk4 17\_42.rawmk4 20\_10.rawmk4 20\_37.rawmk4 21\_02.rawmk4