
Mauna Loa Solar Observatory Observer's Log

Wed Dec 4 17:08:34 GMT 1996

Year: 96 Doy: 339

Observer: yasukawa

WEATHER COMMENT: Wed Dec 4 17:09:03 GMT 1996

Cold, clear, strong southeast wind.

Wed Dec 4 17:09:27 GMT 1996 CHIP Startup--Initializing new tape

Wed Dec 4 17:19:41 GMT 1996 dPMon Start Patrol

Wed Dec 4 17:19:58 GMT 1996 CHIP CHIP Start Patrol

Wed Dec 4 18:03:50 GMT 1996 CHIP Bias

Wed Dec 4 18:04:52 GMT 1996 CHIP End Bias

Wed Dec 4 18:04:59 GMT 1996 CHIP Water

Wed Dec 4 18:05:34 GMT 1996 CHIP End Water

DPMON COMMENT: Wed Dec 4 18:55:42 GMT 1996

I think we have crashed. Attempting recovery.

Wed Dec 4 18:59:39 GMT 1996 dPMon Start Patrol

Wed Dec 4 19:00:34 GMT 1996 dPMon Flat

Wed Dec 4 19:01:31 GMT 1996 dPMon End Flat

Wed Dec 4 19:03:46 GMT 1996 CHIP Bias

Wed Dec 4 19:04:48 GMT 1996 CHIP End Bias

Wed Dec 4 19:04:59 GMT 1996 CHIP Water

Wed Dec 4 19:05:36 GMT 1996 CHIP End Water

MKIII COMMENT: Wed Dec 4 19:10:42 GMT 1996

Checking timing waveforms, in search of electronic noise source.

MKIII COMMENT: Wed Dec 4 19:14:06 GMT 1996

tried stopping scan, but noise went away. resumed scan.

MKIII COMMENT: Wed Dec 4 19:23:28 GMT 1996

Stopping tape. Confirmed Darryl's findings about timing signals not being affected and that the problem seems to be limited to chan 0.

Wed Dec 4 20:02:58 GMT 1996 dPMon Flat

Wed Dec 4 20:03:46 GMT 1996 CHIP Gain

Wed Dec 4 20:03:53 GMT 1996 dPMon End Flat

Wed Dec 4 20:08:29 GMT 1996 CHIP End Gain

Wed Dec 4 20:08:40 GMT 1996 CHIP Bias

Wed Dec 4 20:09:23 GMT 1996 CHIP End Bias

Wed Dec 4 20:09:33 GMT 1996 CHIP Water

Wed Dec 4 20:10:02 GMT 1996 CHIP End Water

MKIII COMMENT: Wed Dec 4 20:13:31 GMT 1996

I think I traced the noise problem to one of the two connectors between the chan 0 preamp and the line driver. These are the blue amphenol connectors held down by delrin clamps mounted on the back end of the barrel. I marked the suspect connector with a red grease pencil mark on the clamp. I wiggled the wire and got noise on the waveform, although it was a little different from the noise we had been getting. I cycled the contact and the waveform quieted down. I have been running a while now and the radial noise in the corona and the erratic P+S "loaf-of-bread" on the monitor have not recurred.

CHIP COMMENT: Wed Dec 4 20:22:17 GMT 1996

CHIP might have crashed. Fixing.

MKIII COMMENT: Wed Dec 4 20:39:46 GMT 1996

Just recalled a possible scenario for a cause of radial noise. While working on the last problem of the wave-plate encoder signal loss, I put a dent on the top of my head while standing up from a kneeling position not realizing that I was under the spar. That dent may match the connector or the clamp.

Wed Dec 4 21:02:58 GMT 1996 dPMon Flat

Wed Dec 4 21:03:49 GMT 1996 dPMon End Flat

Wed Dec 4 21:03:45 GMT 1996 CHIP Bias

Wed Dec 4 21:04:43 GMT 1996 CHIP End Bias

Wed Dec 4 21:04:52 GMT 1996 CHIP Water

Wed Dec 4 21:05:28 GMT 1996 CHIP End Water

Wed Dec 4 22:02:55 GMT 1996 dPMon Flat

Wed Dec 4 22:03:46 GMT 1996 CHIP Bias

Wed Dec 4 22:03:51 GMT 1996 dPMon End Flat
 Wed Dec 4 22:04:46 GMT 1996 CHIP End Bias
 Wed Dec 4 22:04:54 GMT 1996 CHIP Water
 Wed Dec 4 22:05:30 GMT 1996 CHIP End Water
 COMMENT: Wed Dec 4 22:08:01 GMT 1996
 MKIII signal acting strange, but then, there is a photographer wandering
 around in the dome.
 COMMENT: Wed Dec 4 22:15:06 GMT 1996
 Asked the photographer to leave dome for now.
 Wed Dec 4 22:30:21 GMT 1996 dPMon End Patrol
 Wed Dec 4 22:32:42 GMT 1996 CHIP CHIP End Patrol
 Wed Dec 4 22:33:49 GMT 1996 CHIP ending tape
 COMMENT: Wed Dec 4 22:35:15 GMT 1996
 Activity report:
 QP: 40; 60; 107; 253; 280; 300-320;
 No coronal activity

Tapes: MKIII: H01445
 DPMON: P00772
 CHIP: C00189
 LOWL: L00429

SCAN-LOG

SCAN-LOG 17:19:04. 12/4/96 DOY 339
 17:28:52 17:32:05 17:35:20 17:38:34 17:41:50
 17:45:04 17:48:20 17:51:35 17:54:51 17:58:06
 18:01:22 18:04:38 1811 0 CL 18:14:42 1819 15CL
 18:24:30 18:28:57 18:32:14 18:35:32 18:38:49
 18:42:07 18:45:24 18:48:42 18:51:59 18:55:17
 18:58:34 19:01:53 19:05:09 19:08:28 19:53:29
 19:56:46 20:00:03 20:03:20 20:06:34 20:09:51
 20:13:05 20:16:22 20:19:36 20:22:53 20:26:07
 20:29:29 20:32:44 20:36:00 20:39:15 20:42:31
 20:45:46 20:49:03 20:52:17 20:55:34 20:58:48
 21:02:04 21:05:19 21:08:35 21:11:49 21:15:05
 21:18:20 21:21:35 21:24:50 21:28:07 21:31:23
 21:34:39 21:37:53 21:41:09 21:44:24 21:47:40
 21:50:55 21:54:11 21:57:26 22:00:42 22:03:56
 22:07:12 22:10:26 22:13:42 22:16:57 22:20:12
 22:23:26 22:26:41 22:29:55

0 ERRORS

OK