
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