
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