
Mauna Loa Solar Observatory Observer's Log

Tue Dec 3 17:15:43 GMT 1996

Year: 96 Doy: 338

Observer: koon

WEATHER COMMENT: Tue Dec 3 17:15:49 GMT 1996

Clear sky, wind=10 mph from the SE, temp=40 F.

Tue Dec 3 17:23:16 GMT 1996 CHIP Startup--Initializing new tape

Tue Dec 3 17:23:25 GMT 1996 dPMon Start Patrol

Tue Dec 3 17:23:47 GMT 1996 CHIP CHIP Start Patrol

Tue Dec 3 18:02:58 GMT 1996 dPMon Flat

Tue Dec 3 18:03:30 GMT 1996 CHIP Bias

Tue Dec 3 18:03:53 GMT 1996 dPMon End Flat

Tue Dec 3 18:04:22 GMT 1996 CHIP End Bias

Tue Dec 3 18:04:32 GMT 1996 CHIP Water

Tue Dec 3 18:04:57 GMT 1996 CHIP End Water

COMMENT: Tue Dec 3 18:55:12 GMT 1996

I hear a howling sound up in the dome occassionally that lasts about 1 second.

It might be a fan bearing wearing out or being affected by the cold air.

Every time I go up and wait for it nothing happens, so I haven't pinpointed it yet.

Tue Dec 3 19:02:55 GMT 1996 dPMon Flat

Tue Dec 3 19:03:51 GMT 1996 dPMon End Flat

Tue Dec 3 19:03:47 GMT 1996 CHIP Bias

Tue Dec 3 19:05:00 GMT 1996 CHIP End Bias

Tue Dec 3 19:05:09 GMT 1996 CHIP Water

Tue Dec 3 19:05:44 GMT 1996 CHIP End Water

Tue Dec 3 20:01:03 GMT 1996 dPMon Flat

Tue Dec 3 20:01:58 GMT 1996 dPMon End Flat

Tue Dec 3 20:03:47 GMT 1996 CHIP Gain

Tue Dec 3 20:08:23 GMT 1996 CHIP End Gain

Tue Dec 3 20:08:32 GMT 1996 CHIP Bias

Tue Dec 3 20:09:14 GMT 1996 CHIP End Bias

Tue Dec 3 20:09:22 GMT 1996 CHIP Water

Tue Dec 3 20:09:51 GMT 1996 CHIP End Water

COMMENT: Tue Dec 3 20:20:17 GMT 1996

The howling noise is coming less frequently now, it is originating from something at the front end of the Spar. I may have to wait for colder weather to pinpoint it.

MKIII COMMENT: Tue Dec 3 20:29:51 GMT 1996

Still getting a lot of radial spikes in the coronal scans for channel #0.

Channel #1 seems a lot less noisy but has a few spikes too. The P+S

"loaf of bread" for channel #0 jumps out of sync and enlarges and looks

noisy occassionally and that erratic behavior corresponds directly to the noise spike seen in the coronal scans. The P+S "loaf of bread" for

channel #1 stays almost completely stable.

Tue Dec 3 21:01:00 GMT 1996 dPMon Flat

Tue Dec 3 21:01:51 GMT 1996 dPMon End Flat
Tue Dec 3 21:02:46 GMT 1996 CHIP Bias
Tue Dec 3 21:03:55 GMT 1996 CHIP End Bias
Tue Dec 3 21:04:04 GMT 1996 CHIP Water
Tue Dec 3 21:04:39 GMT 1996 CHIP End Water
Tue Dec 3 22:01:02 GMT 1996 dPMon Flat
Tue Dec 3 22:01:59 GMT 1996 dPMon End Flat

MKIII COMMENT: Tue Dec 3 21:57:33 GMT 1996

I don't see anything change on the Downstairs Start, Data, 1/rot, and 64/rot signals when the channel #0 "loaf of bread" gets a noise attack. The analog card rack DC power supplies are at 5.10v stable for channel #1 and varying between 5.07 and 5.08v for channel #0. I will swap the power supplies to see what happens to the P+S signals for both channels.

Tue Dec 3 22:02:46 GMT 1996 CHIP Bias
Tue Dec 3 22:03:55 GMT 1996 CHIP End Bias
Tue Dec 3 22:04:06 GMT 1996 CHIP Water
Tue Dec 3 22:04:46 GMT 1996 CHIP End Water

MKIII COMMENT: Tue Dec 3 22:15:40 GMT 1996

Still have noisy P+S on channel #0 only, after swapping analog card rack DC power supplies. Swapped them back.

Tue Dec 3 22:22:43 GMT 1996 dPMon End Patrol
Tue Dec 3 22:22:46 GMT 1996 CHIP CHIP End Patrol

MKIII COMMENT: Tue Dec 3 22:38:36 GMT 1996

When I stopped the barrel rotation (/SCAN) at 185 I didn't get any noise on the P+S trace, no matter how long I left it there. So I started scanning again and stopped as soon as I started to see noise (at AZ=175), the noise was almost always there as long as I let it sit. So it looks like there is a loose connection somewhere (in the troughs?) that gets affected by the barrel angle position, and it must be somewhere in the separate channel #0 wiring.

Tue Dec 3 22:47:16 GMT 1996 CHIP ending tape
Tue Dec 3 22:47:22 GMT 1996 CHIP ending tape

COMMENT: Tue Dec 3 22:47:32 GMT 1996

Activity report:

QP: 67; 104; 268; 282; 318.

No coronal activity seen through noisy data.

TAPES:

MKIII: H01444

DPMON: P00771

CHIP: C00188

LOWL: L00429 in drive #0

SCAN-LOG

SCAN-LOG 17:24:27. 12/3/96 DOY 338

17:29:38	17:32:54	17:36:12	17:39:29	17:42:48
17:46:05	17:49:23	17:52:39	17:55:57	17:59:12
18:02:28	18:05:42	18:08:59	18:12:14	18:15:29

18:18:44	18:21:59	18:25:13	18:28:28	18:31:42
18:34:57	18:38:11	18:41:25	18:44:39	18:47:53
18:51:07	18:54:22	18:57:35	19:00:50	1908 0 CL
19:13:14	1921 15CL	19:26:40	19:30:58	19:34:11
19:37:26	19:40:40	19:43:55	19:47:10	19:50:25
19:53:38	19:56:53	20:00:06	20:03:23	20:06:36
20:09:56	20:13:10	20:16:25	20:19:38	20:22:53
20:26:06	20:29:22	20:32:36	20:35:51	20:39:05
20:42:20	20:45:33	20:48:48	20:52:01	20:55:15
20:58:28	21:01:43	21:04:56	21:08:11	21:11:24
21:14:38	21:17:51	21:21:05	21:24:18	21:27:32
21:30:47	21:34:07	21:37:19	21:40:33	21:43:46
21:46:59	21:50:12	21:53:26		

0 ERRORS

OK