
Mauna Loa Solar Observatory Observer's Log

Mon Jan 27 17:23:01 GMT 1997

Year: 97 Doy: 027

Observer: yasukawa

Mon Jan 27 17:23:05 GMT 1997 CHIP Startup--Initializing new tape

WEATHER COMMENT: Mon Jan 27 17:23:14 GMT 1997

Cool, clear, light south breeze. Broken cirrus to west.

Mon Jan 27 17:30:58 GMT 1997 CHIP CHIP Start Patrol

Mon Jan 27 17:32:55 GMT 1997 dPMon Start Patrol

Mon Jan 27 17:33:14 GMT 1997 dPMon End Patrol

DPMON COMMENT: Mon Jan 27 17:33:12 GMT 1997

Stalled on Init. Aborted. Cancelled WaitRepl, restarted.

Mon Jan 27 17:34:09 GMT 1997 dPMon Start Patrol

Mon Jan 27 18:01:59 GMT 1997 dPMon Flat

Mon Jan 27 18:02:03 GMT 1997 CHIP Bias

Mon Jan 27 18:02:47 GMT 1997 CHIP End Bias

Mon Jan 27 18:02:57 GMT 1997 dPMon End Flat

Mon Jan 27 18:02:54 GMT 1997 CHIP Water

Mon Jan 27 18:03:29 GMT 1997 CHIP End Water

Mon Jan 27 19:01:10 GMT 1997 CHIP Bias

Mon Jan 27 19:02:00 GMT 1997 CHIP End Bias

Mon Jan 27 19:02:07 GMT 1997 CHIP Water

Mon Jan 27 19:02:37 GMT 1997 CHIP End Water

WEATHER COMMENT: Mon Jan 27 17:39:51 GMT 1997

In thin cirrus.

WEATHER COMMENT: Mon Jan 27 19:25:27 GMT 1997

Still in thin cirrus but MKIII data may be useful, finally got one that looks like corona.

DPMON COMMENT: Mon Jan 27 19:51:53 GMT 1997

I think there is a crash here--for some time now. Fixing.

WEATHER COMMENT: Mon Jan 27 19:55:40 GMT 1997

In thick cirrus.

Mon Jan 27 20:03:04 GMT 1997 CHIP Gain

Mon Jan 27 20:03:34 GMT 1997 dPMon Start Patrol

DPMON COMMENT: Mon Jan 27 20:03:45 GMT 1997

Crashed again so I resorted to a Kill/Run cycle to recover.

Mon Jan 27 20:07:21 GMT 1997 CHIP End Gain

Mon Jan 27 20:07:32 GMT 1997 CHIP Bias

Mon Jan 27 20:08:14 GMT 1997 CHIP End Bias

Mon Jan 27 20:08:24 GMT 1997 CHIP Water

Mon Jan 27 20:08:52 GMT 1997 CHIP End Water

WEATHER COMMENT: Mon Jan 27 20:20:37 GMT 1997

In thin cirrus after thick stuff moved on.

Mon Jan 27 21:00:55 GMT 1997 dPMon Flat

Mon Jan 27 21:01:05 GMT 1997 CHIP Bias

Mon Jan 27 21:01:52 GMT 1997 CHIP End Bias

Mon Jan 27 21:01:59 GMT 1997 dPMon End Flat
Mon Jan 27 21:01:59 GMT 1997 CHIP Water
Mon Jan 27 21:02:33 GMT 1997 CHIP End Water

MKIII COMMENT: Mon Jan 27 21:09:41 GMT 1997

Stopped MKIII to check out more things on CH1.

COMMENT: Mon Jan 27 21:21:00 GMT 1997

Guider disrupted, repointing.

Mon Jan 27 22:01:00 GMT 1997 dPMon Flat
Mon Jan 27 22:01:51 GMT 1997 dPMon End Flat
Mon Jan 27 22:03:03 GMT 1997 CHIP Bias
Mon Jan 27 22:03:54 GMT 1997 CHIP End Bias
Mon Jan 27 22:04:04 GMT 1997 CHIP Water
Mon Jan 27 22:04:39 GMT 1997 CHIP End Water

MKIII COMMENT: Mon Jan 27 21:53:00 GMT 1997

Today's Adventure with Chan 1

I think I am finally on a hot trail. I looked at all the notes I have been taking and concluded that the problem has to be in the P-system, or at least the major problem has to be there and it must be between the beam splitter and the line driver input. I looked (revisited) at gross alignment by removing the filter in front of the K/S lens system, removing the detector and looked thru the lucite target mounted in the holder in place of the P-detector. I found the image of the slit rotated CCW about 5-degrees from what I would call up/down on the holder. I made a mark on the holder at one end of the target scribed line and replaced the detector to align with the mark. I replaced the filter. I balanced the preamp and adjusted the offset, then I fired MKIII up and ran a correction on channel 1. This time, the correction worked on most of the bottom end of the waveform (worked on the upper end previously). Gain correct profile was very flat. This time the 077777 values in the Light Corrector dump was in the upper 18 bins (out of 128 bins).

I think what was happening was since the lower end of the slit is narrower, the lower end of the P-array was completely dark, whereas the upper end was still seeing the slit, thus the unbalance in the lower pixels. Now with the detector rotated to the approximate alignment the bottom end of P is seeing light and the correction is not limiting out at 077777. There is still some tweaking to do to get rid of the top end error. I am taking data and seeing the streamers again in the channel 1 data!

WEATHER COMMENT: Mon Jan 27 22:26:16 GMT 1997

In orographic clouds.

LOW-L COMMENT: Mon Jan 27 22:29:23 GMT 1997

Turning off spar power, power pins to MOF drivers too close together for safe meter attachment while powered up--have to approach from back with mirror.

Mon Jan 27 23:00:57 GMT 1997 dPMon Flat
Mon Jan 27 23:01:48 GMT 1997 dPMon End Flat
Mon Jan 27 23:02:05 GMT 1997 CHIP Bias
Mon Jan 27 23:03:02 GMT 1997 CHIP End Bias
Mon Jan 27 23:03:12 GMT 1997 CHIP Water

Mon Jan 27 23:03:46 GMT 1997 CHIP End Water

DPMON COMMENT: Mon Jan 27 23:08:51 GMT 1997

Checked out the power supply to the MOF drivers for Boulder. MOF2 Res has been running RED at 100+ since the 18th. MOF1 (northernmost) controller/driver should be 12V and it was 11.9V. MOF2 should be 17V, but it was 11.92V. Checked powersupplies. MOF2 is connected to a 5V supply (mis)labeled MOF1 BOOST tied to a 12V supply. The 12V supply was OK, but the 5V supply was almost 0V. There is no spare up here so I emailed Kim to send one out ASAP.

Mon Jan 27 23:13:12 GMT 1997 dPMon End Patrol

WEATHER COMMENT: Mon Jan 27 23:13:10 GMT 1997

In heavy orographic clouds.

Mon Jan 27 23:15:49 GMT 1997 CHIP CHIP End Patrol

MKIII COMMENT: Mon Jan 27 23:14:33 GMT 1997

Rats! I meant to take some data with MKIII chan 1 even if it clouded up but forgot to start tape due to LOWL jockeying. Streamers are now visible on display, though. I will still have to work on alignment.

Mon Jan 27 23:17:29 GMT 1997 CHIP ending tape

COMMENT: Mon Jan 27 23:17:35 GMT 1997

Activity report:

QP: 100-140; 233-245; 255; 290;

No coronal activity

Tapes: MKIII: H01481

DPMON: P00809

CHIP: C00226

LOWL: L00437

SCAN-LOG

SCAN-LOG 17:00:28. 1/27/97 DOY 27

17:40:29	17:43:42	17:46:55	17:50:09	17:53:22
17:56:36	17:59:49	18:03:03	18:06:16	18:09:30
18:12:44	18:15:59	18:19:13	18:22:28	18:25:41
18:28:56	18:32:11	18:35:26	18:38:41	18:41:58
18:45:13	18:48:30	18:51:45	18:55:01	18:58:16
19:01:33	19:04:49	19:08:05	19:11:20	19:14:37
19:17:53	19:21:10	19:24:27	1930 0 CL	19:35:18
1939 15CL	19:43:21	19:51:34	19:54:48	19:58:09
20:01:26	20:04:41	20:07:55	20:11:11	20:14:25
20:17:40	20:20:54	20:24:11	20:27:24	20:30:44
20:33:56	20:37:11	20:40:23	20:43:38	20:46:52
20:50:07	20:53:20	20:56:34	20:59:48	21:03:02
22:06:09	22:09:21	22:12:34	22:15:46	22:19:00
22:22:12	22:25:25	22:28:37	22:31:51	22:35:03
22:38:17	22:41:29	22:44:43	22:47:55	22:51:09
22:54:21	22:57:35	23:00:47	23:04:01	23:07:13
23:10:26				

0 ERRORS

OK