
Mauna Loa Solar Observatory Observer's Log

_____ Wed Jan 15 17:18:03 GMT 1997 Year: 97 Doy: 015 Observer: yasukawa WEATHER COMMENT: Wed Jan 15 17:18:07 GMT 1997 Cool, light south breeze, scattered cirrus patches. Wed Jan 15 17:27:40 GMT 1997 CHIP Startup--Initializing new tape Wed Jan 15 17:34:57 GMT 1997 CHIP CHIP Start Patrol Wed Jan 15 17:35:12 GMT 1997 dPMon Start Patrol Wed Jan 15 18:03:02 GMT 1997 dPMon Flat Wed Jan 15 18:03:03 GMT 1997 CHIP Bias End Bias Wed Jan 15 18:03:49 GMT 1997 CHIP Wed Jan 15 18:03:57 GMT 1997 dPMon End Flat Wed Jan 15 18:03:55 GMT 1997 CHIP Water Wed Jan 15 18:04:25 GMT 1997 CHIP End Water Wed Jan 15 19:02:10 GMT 1997 CHIP Bias Wed Jan 15 19:03:02 GMT 1997 dPMon Flat Wed Jan 15 19:03:05 GMT 1997 CHIP End Bias Wed Jan 15 19:03:14 GMT 1997 Water CHIP Wed Jan 15 19:03:45 GMT 1997 CHIP End Water Wed Jan 15 19:03:58 GMT 1997 dPMon End Flat Wed Jan 15 20:01:05 GMT 1997 CHIP Gain Wed Jan 15 20:02:58 GMT 1997 dPMon Flat Wed Jan 15 20:03:52 GMT 1997 dPMon End Flat Wed Jan 15 20:05:14 GMT 1997 End Gain CHIP Wed Jan 15 20:05:23 GMT 1997 Bias CHIP Wed Jan 15 20:06:03 GMT 1997 CHIP End Bias Wed Jan 15 20:06:13 GMT 1997 CHIP Water MKIII COMMENT: Wed Jan 15 20:06:06 GMT 1997 Stopping MKIII to do some tests on CH 1. Wed Jan 15 20:06:42 GMT 1997 CHIP End Water Wed Jan 15 21:01:05 GMT 1997 CHIP Bias Wed Jan 15 21:01:56 GMT 1997 CHIP End Bias Wed Jan 15 21:02:07 GMT 1997 CHIP Water Wed Jan 15 21:02:40 GMT 1997 CHIP End Water Wed Jan 15 21:03:05 GMT 1997 dPMon Flat Wed Jan 15 21:03:56 GMT 1997 dPMon End Flat MKIII COMMENT: Wed Jan 15 21:23:35 GMT 1997 Resumed MKIII observations. MKIII COMMENT: Wed Jan 15 21:23:57 GMT 1997 I'm not sure if this was reinventing the wheel, but I decided to convince myself that the electronics were not the cause of the CORRECT difficulties I was experiencing. I did a series of swaps between channels before and after the line drivers. Ground rule was that I not change any parameters set for channel 0. Basically, what I tried to determine was whether using the Chan 0 optics in the Chan 1

electronics affected the condition where I got non-responsive pixels in the CORRECT process that I was getting with the CH1 optics. I previously swapped a spare DCSA/B preamp unit (#5) into the CH1 signal path and recorded no changes in CORRECT anomaly so I did the test by swapping connectors first at the Line Driver outputs and later at the Line Driver inputs. I alx also swapped microprocessor phasing during the test so that the phasing would be correct for the swapped optics (coordinates of display were rotated by 30 degrees though.) After each connector swap, I ran CORRECT for CH1. Both times, with CH0 optics in CH1 electronics, I got a good CORRECTion, i.e. it proceeded normally like a normal CH 0 CORRECT. Each time, the data display looked good for the CH 1 (with CH 0 optics) coronal scan. CORRECTor table looked OK (on the 4105), with the lower pixels having normal-looking values applied to them.

One funny I did discover is when I dumped the corrector tables on the nene terminal via the modem, I got the SAME table with the 077777 values in much of the lower 1/3rd pixels each time, regardless of what the 4105 was displaying. The 4105 was displaying values that I would be expecting based on the hypotheses of the tests.

When I returned test variables back to normal and ran CORRECT on ch 1 with the ch1 optics, I experienced the same CORRECT anomaly with the non-responsive (to CORRECT) inner pixels. CORRECTor table on 4105 also reflected this with 077777s in most of the lower 1/3 pixels. The 4105 table was again different from what was supposed to be the same table displayed on nene. The nene table was unchanged from all the rest of the dumps I did today on nene after each test.

I guess I am convinced that I will still be burdened with trudging in in the trenches (optics trough), looking for the solution to this problem. Wed Jan 15 22:02:59 GMT 1997 dPMon Flat Wed Jan 15 22:03:06 GMT 1997 Bias CHIP Wed Jan 15 22:03:55 GMT 1997 End Flat dPMon Wed Jan 15 22:03:56 GMT 1997 End Bias CHIP Wed Jan 15 22:04:05 GMT 1997 CHIP Water Wed Jan 15 22:04:42 GMT 1997 CHTP End Water MKIII COMMENT: Wed Jan 15 22:19:11 GMT 1997 OK, system is restored and checked out... No residual problems. CH1 is still hosed, CH0 works like it did. Wed Jan 15 22:20:56 GMT 1997 dPMon End Patrol WEATHER COMMENT: Wed Jan 15 22:21:25 GMT 1997 Sky is suddenly very noisy. Wed Jan 15 22:22:43 GMT 1997 CHIP CHIP End Patrol Wed Jan 15 22:24:02 GMT 1997 CHIP ending tape

COMMENT: Wed Jan 15 22:22:01 GMT 1997 Activity report: QP: 60; 89; 123; 218-225; 284; No coronal activity Tapes: MKIII: H01472 DPMON: P00800 CHIP: C00217 LOWL: L00435 SCAN-LOG

SCAN-LOG	17:34:20	. 1/15/97	DOY 15		
17:42:	:37 1	17:45:48	17:49:01	17:52:14	17:55:29
17:58:	:43	18:01:58	18:05:12	18:08:28	18:11:42
18:14:	:58 1	18:18:15	18:21:31	18:24:46	18:28:03
18:31:	:18 1	1836 0 CL	18:39:23	1843 15CL	18:48:48
18:53:	:00	18:56:13	18:59:28	19:02:40	19:05:54
19:09:	:07	19:12:21	19:15:33	19:18:47	19:22:00
19:25:	:14 :	19:28:26	19:31:39	19:34:51	19:38:04
19:41:	:16 1	19:44:32	19:47:45	19:50:59	19:54:11
19:57:	:24 2	20:00:36	20:03:49	21:23:13	21:26:25
21:29:	:36 2	21:32:49	21:36:01	21:39:18	21:42:29
21:45:	:41 2	21:48:51	21:52:04	21:55:15	21:58:27
22:01:	:38 2	22:04:51	22:08:03	22:11:15	22:14:26
22:17:	:38 2	22:20:50	22:24:03		
0 ERRORS	3				

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