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Mauna Loa Solar Observatory Observer's Log  
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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  
Wed Jan 15 18:03:49 GMT 1997 CHIP End Bias  
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 CHIP Water  
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 CHIP End Gain  
Wed Jan 15 20:05:23 GMT 1997 CHIP Bias  
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 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 chl 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 CHIP Bias  
Wed Jan 15 22:03:55 GMT 1997 dPMon End Flat  
Wed Jan 15 22:03:56 GMT 1997 CHIP End Bias  
Wed Jan 15 22:04:05 GMT 1997 CHIP Water  
Wed Jan 15 22:04:42 GMT 1997 CHIP 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 | 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 | 18:18:15  | 18:21:31 | 18:24:46  | 18:28:03 |
| 18:31:18 | 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 | 19:44:32  | 19:47:45 | 19:50:59  | 19:54:11 |
| 19:57:24 | 20:00:36  | 20:03:49 | 21:23:13  | 21:26:25 |
| 21:29:36 | 21:32:49  | 21:36:01 | 21:39:18  | 21:42:29 |
| 21:45:41 | 21:48:51  | 21:52:04 | 21:55:15  | 21:58:27 |
| 22:01:38 | 22:04:51  | 22:08:03 | 22:11:15  | 22:14:26 |
| 22:17:38 | 22:20:50  | 22:24:03 |           |          |

0 ERRORS

OK