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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
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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   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

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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
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