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Mauna Loa Solar Observatory Observer's Log  
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Tue Aug 13 16:48:51 GMT 1996

Year: 96 Doy: 226

Observer: koon

WEATHER COMMENT: Tue Aug 13 16:48:55 GMT 1996

Mostly clear sky with tall cumulus clouds to the East, wind=10 mph from the SE  
temp=43 F.

Tue Aug 13 16:53:51 GMT 1996 dPMon Start Patrol

Tue Aug 13 16:54:03 GMT 1996 CHIP CHIP Start Patrol

WEATHER COMMENT: Tue Aug 13 16:58:24 GMT 1996

Clouds to the East are blocking sun occasionally.

Tue Aug 13 17:02:57 GMT 1996 dPMon Flat

Tue Aug 13 17:03:55 GMT 1996 dPMon End Flat

CHIP COMMENT: Tue Aug 13 17:14:47 GMT 1996

Stalled with Program:FixCenter and Optics:Busy, used Kill/Run to restart.

Tue Aug 13 17:22:10 GMT 1996 CHIP CHIP Start Patrol

CHIP COMMENT: Tue Aug 13 17:37:25 GMT 1996

O1 was off in X direction and now that FixCenter is running it is moving the O1  
off in the Y-direction. I'll move the O1 back to where it should be.

MKIII COMMENT: Tue Aug 13 17:40:53 GMT 1996

I got two good scans and did a difference, still have concentric rings, I'll  
check the seating of the corrector memory boards. The only way to sync the  
o-scope traces was to switch to internal triggering.

Tue Aug 13 18:02:56 GMT 1996 dPMon Flat

Tue Aug 13 18:03:56 GMT 1996 dPMon End Flat

Tue Aug 13 18:04:38 GMT 1996 CHIP Bias

Tue Aug 13 18:05:48 GMT 1996 CHIP End Bias

Tue Aug 13 18:05:59 GMT 1996 CHIP Water

Tue Aug 13 18:06:41 GMT 1996 CHIP End Water

MKIII COMMENT: Tue Aug 13 18:07:47 GMT 1996

I've stopped taking data while I check into the ring problem.

MKIII COMMENT: Tue Aug 13 18:30:44 GMT 1996

Since clouds are passing over it is difficult to get good test scans, but  
after reseating the corrector memory board for channel 0 it looks like the  
rings are still there. So both boards have been reseated now (I/O and  
memory). I talked to Alice, the problem is showing up in channel 1 also  
so it seems unlikely that the boards for both channels would come loose at  
the same time. I think the problem is directly related to not being able  
to sync the o-scope traces to the microprocessor external trigger signal.

Tue Aug 13 18:44:58 GMT 1996 dPMon End Patrol

Tue Aug 13 18:45:49 GMT 1996 CHIP CHIP End Patrol

MKIII COMMENT: Tue Aug 13 18:50:12 GMT 1996

MKIII COMMENT: Tue Aug 13 22:43:55 GMT 1996

Since it was cloudy and rainy for most of the day I tried to track down the  
reason for the lack of pixel sync on the o-scopes. I tried removing and  
replacing all the cables in the back of the Analog rack, this didn't change

the sync problem but maybe it helped the ring problem, when the weather clears it will be good to see if anything changed there. I used an o-scope up in the dome to check some test points, the start pulses jumped around and so did the 1/Rot pulses from the waveplate, this seems unusual, Eric said it might be caused by noise or a sync problem between the o-scope and the pulses. The waveplate seemed to be rotating without any noticeable problem. Also, when I disconnect the external pixel sync cable on the o-scopes in the Control Room nothing happens to the traces, as if no usable signal is getting through at all. Eric will continue the investigation tomorrow.

Tue Aug 13 23:13:57 GMT 1996 CHIP ending tape

COMMENT: Tue Aug 13 23:50:36 GMT 1996

Activity report:

QP: 127; 225; 259; 288; 308.

No coronal activity.

TAPES:

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MKIII: H01362

DPMON: P00683

CHIP: C00100

LOWL: L00408 in drive #0

SCAN-LOG

SCAN-LOG 16:54:33. 8/13/96 DOY 226

16:59:51	17:03:07	17:06:24	17:09:38	17:12:53
17:16:05	17:19:20	17:22:35	17:25:54	17:29:07
17:32:21	17:35:33	17:38:51	17:42:03	17:45:19
17:48:30	17:51:43	17:54:54		

0 ERRORS

OK