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Mauna Loa Solar Observatory Observer's Log  
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Thu Jul 15 16:29:47 GMT 1999

Year: 99 Doy: 196

Observer: yasukawa

WEATHER COMMENT: Thu Jul 15 16:31:11 GMT 1999

Cool, scattered cirrus, no wind.

Thu Jul 15 16:31:46 GMT 1999 CHIP Startup--Initializing new tape

Thu Jul 15 16:36:47 GMT 1999 CHIP CHIP Start Patrol

Thu Jul 15 16:37:04 GMT 1999 PICS Start Patrol

Thu Jul 15 16:37:18 GMT 1999 MKIV Start Patrol

Thu Jul 15 17:00:50 GMT 1999 CHIP Bias

Thu Jul 15 17:01:51 GMT 1999 CHIP End Bias

Thu Jul 15 17:02:04 GMT 1999 CHIP Water

Thu Jul 15 17:02:41 GMT 1999 CHIP End Water

\*\*MKIV PROBLEM\*\*: Thu Jul 15 17:44:31 GMT 1999

Scoured MKIII/IV looking for possible sources of light leaks.

Found foil tape covering some of the trough cavities with pukas (holes) to the interior not securely sealing in places. Resealed tape or replaced tape. Also found several places where light may have been finding its way inside the MKIII/IV, sealed them up with foil tape.

\*\*MKIV PROBLEM\*\*: Thu Jul 15 17:49:42 GMT 1999

Stopping MKIV to reboot KCC, then running a CORRECT.

Barrel ran to a hardware limit after the KCC reset.

Thu Jul 15 18:00:57 GMT 1999 MKIV Start Correct

Thu Jul 15 18:02:13 GMT 1999 MKIV End Correct

\*\*MKIV COMMENT\*\*: Thu Jul 15 18:02:27 GMT 1999

Bunch of negative numbers streamed by during dark correct, between around -4 to -7.

02 GMT 1999 PICS Flat

Thu Jul 15 18:03:44 GMT 1999 MKIV Start Cal

Thu Jul 15 18:03:38 GMT 1999 CHIP End Bias

Thu Jul 15 18:03:49 GMT 1999 CHIP Water

Thu Jul 15 18:04:25 GMT 1999 CHIP End Water

MKIV COMMENT: Thu Jul 15 18:04:52 GMT 1999

Running Cal

\*\*MKIV PROBLEM\*\*: Thu Jul 15 18:09:20 GMT 1999

Calibration did not start properly. Optics set up, and barrel ran, but no display generated. Ran CCW and stopped. akamai message at start of cal:

start\_cal

Access Fault

Program Counter: 0x00158d48

Status Register: 0x3014

Access Address : 0x027c2b9c

Special Status : 0x0145

Task: 0x37ed34 "t\_disp"

383 205248 262144

value = 383 = 0x17f

syntax error

akamai->

\*\*MKIV PROBLEM\*\*: Thu Jul 15 18:18:23 GMT 1999

Akamai just indicated: No known instrument at this location...

Hmmm...

\*\*MKIV PROBLEM\*\*: Thu Jul 15 18:19:21 GMT 1999

Alerted David by voicemail and email. Awaiting his attention.

\*\*MKIV PROBLEM\*\*: Thu Jul 15 18:32:26 GMT 1999

Rebooting KCC.

MKIV COMMENT: Thu Jul 15 18:35:06 GMT 1999

Barrel running back to CW software limit (I hope) after KCC reset.

MKIV COMMENT: Thu Jul 15 18:36:38 GMT 1999

Barrel stopped at CW software limit (phew!). Running another CORRECT.

Thu Jul 15 18:37:18 GMT 1999 MKIV Start Correct

MKIV COMMENT: Thu Jul 15 18:37:55 GMT 1999  
Dark correct listing out values we are looking for, 0s and -1s.  
MKIV COMMENT: Thu Jul 15 18:38:45 GMT 1999  
Correct pau. Running Calibration.  
Thu Jul 15 18:39:09 GMT 1999 MKIV Start Cal  
\*\*MKIV PROBLEM\*\*: Thu Jul 15 18:39:50 GMT 1999  
t\_disp crashed again. Calibration is "running" but nothing is being displayed.  
Data are not being written to disk, also, at the end of the Cal scan,  
this happened both cal attempts. Due to t\_disp crash?  
\*\*MKIV PROBLEM\*\*: Thu Jul 15 18:54:49 GMT 1999  
Rebooting KCC. Starting calibration as soon as KCC is ready.  
Thu Jul 15 18:59:20 GMT 1999 MKIV Start Cal  
MKIV COMMENT: Thu Jul 15 18:59:46 GMT 1999  
Calibration started up OK this time, display task is running OK.  
Problem could be happening at the end of the Correct or with some  
interaction between correct and calibration???

\_calibration  
Thu Jul 15 19:01:56 GMT 1999 CHIP Bias  
Thu Jul 15 19:02:46 GMT 1999 CHIP End Bias  
Thu Jul 15 19:03:06 GMT 1999 CHIP Water  
Thu Jul 15 19:03:51 GMT 1999 CHIP End Water  
\*\*\*\* EVENT COMMENT \*\*\*\*: Thu Jul 15 19:15:26 GMT 1999  
I think there was an EPL on the southwest limb while I was tending to  
MKIV problems. EPL gone now. Appears to be an active region on  
northeast limb too.

COMMENT: Thu Jul 15 19:22:33 GMT 1999  
Stopping to reconfigure dome shutter.  
P End Patrol  
Thu Jul 15 19:22:59 GMT 1999 PICS End Patrol  
Thu Jul 15 19:28:19 GMT 1999 MKIV Start Patrol  
Thu Jul 15 19:28:42 GMT 1999 PICS Start Patrol  
Thu Jul 15 19:28:42 GMT 1999 PICS Start Patrol  
MKIV COMMENT: Thu Jul 15 19:29:08 GMT 1999  
This may sound like a paranoid comment, but Patrol started up OK.  
MKIV COMMENT: Thu Jul 15 19:30:41 GMT 1999  
Display is quite bright at the lowest gain available--.25  
MKIV COMMENT: Thu Jul 15 19:37:51 GMT 1999  
Running a Dark with the dust cover also closed.  
MKIV COMMENT: Thu Jul 15 19:43:10 GMT 1999  
Opened dust cover, resuming Patrol.  
Thu Jul 15 19:43:41 GMT 1999 MKIV Start Patrol  
Thu Jul 15 20:01:57 GMT 1999 CHIP Gain  
Thu Jul 15 20:06:27 GMT 1999 CHIP End Gain  
Thu Jul 15 20:06:41 GMT 1999 CHIP Bias  
Thu Jul 15 20:07:36 GMT 1999 CHIP End Bias  
Thu Jul 15 20:07:46 GMT 1999 CHIP Water  
Thu Jul 15 20:08:21 GMT 1999 CHIP End Water  
MKIV COMMENT: Thu Jul 15 20:30:25 GMT 1999  
Stopping Patrol, resetting KCC to pick up new corrector target values  
sent by David, running a Correct, then running another Calibrate.  
Also, will run Correct and Calibrate back-to-back to see if display  
task crashes again.  
Thu Jul 15 20:38:36 GMT 1999 MKIV Start Correct  
MKIV COMMENT: Thu Jul 15 20:39:17 GMT 1999  
First pass of dark correct values ranged from 5 to 15, second pass values  
ranged from 2 to 8.  
Thu Jul 15 20:40:20 GMT 1999 MKIV Start Cal  
\*\*MKIV PROBLEM\*\*: Thu Jul 15 20:40:41 GMT 1999  
Started Calibrate, got the t\_disp crash again. Resetting KCC.  
Thu Jul 15 20:42:56 GMT 1999 MKIV Start Cal  
MKIV COMMENT: Thu Jul 15 20:42:59 GMT 1999  
Restarting Calibrate  
Thu Jul 15 21:02:47 GMT 1999 CHIP Bias  
Thu Jul 15 21:03:52 GMT 1999 CHIP End Bias  
Thu Jul 15 21:04:12 GMT 1999 CHIP Water  
Thu Jul 15 21:04:51 GMT 1999 CHIP End Water

MKIV COMMENT: Thu Jul 15 21:10:44 GMT 1999

Dynamic range of KCC display much better at the two lowest values, .5 and .25.

Thu Jul 15 22:02:47 GMT 1999 CHIP Bias  
Thu Jul 15 22:03:41 GMT 1999 CHIP End Bias  
Thu Jul 15 22:04:02 GMT 1999 CHIP Water  
Thu Jul 15 22:04:50 GMT 1999 CHIP End Water  
Thu Jul 15 22:08:30 GMT 1999 CHIP CHIP End Patrol  
Thu Jul 15 22:08:49 GMT 1999 PICS End Patrol  
Thu Jul 15 22:09:01 GMT 1999 CHIP ending tape  
COMMENT: Thu Jul 15 22:09:46 GMT 1999

TAPES:

MKIV: 99-196  
PICS: P01486  
CHIP: C00865  
LOWL: L00613 in drive #1, 20 files and still running.

Thu Jul 15 22:11:37 GMT 1999

MkIII

16_37.rawmk3	17_26.rawmk3	19_50.rawmk3	21_03.rawmk3	21_52.rawmk3
16_41.rawmk3	17_30.rawmk3	19_53.rawmk3	21_07.rawmk3	21_56.rawmk3
16_44.rawmk3	17_33.rawmk3	19_57.rawmk3	21_11.rawmk3	22_00.rawmk3
16_48.rawmk3	17_37.rawmk3	20_01.rawmk3	21_14.rawmk3	22_04.rawmk3
16_52.rawmk3	17_41.rawmk3	20_05.rawmk3	21_18.rawmk3	c18_59.rawmk3
16_56.rawmk3	17_45.rawmk3	20_09.rawmk3	21_22.rawmk3	c19_07.rawmk3
16_59.rawmk3	17_48.rawmk3	20_12.rawmk3	21_26.rawmk3	c19_15.rawmk3
17_03.rawmk3	19_03.rawmk3	20_16.rawmk3	21_30.rawmk3	c19_37.rawmk3
17_07.rawmk3	19_11.rawmk3	20_20.rawmk3	21_33.rawmk3	c20_43.rawmk3
17_11.rawmk3	19_19.rawmk3	20_24.rawmk3	21_37.rawmk3	c20_51.rawmk3
17_14.rawmk3	19_28.rawmk3	20_28.rawmk3	21_41.rawmk3	c20_59.rawmk3
17_18.rawmk3	19_32.rawmk3	20_47.rawmk3	21_45.rawmk3	
17_22.rawmk3	19_43.rawmk3	20_55.rawmk3	21_48.rawmk3	