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Mauna Loa Solar Observatory Observer's Log  
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Tue Aug 17 16:28:51 GMT 1999

Year: 99 Doy: 229

Observer: yasukawa

WEATHER COMMENT: Tue Aug 17 16:29:33 GMT 1999

Cool, clear, light south wind.

Tue Aug 17 16:29:51 GMT 1999 CHIP Startup--Initializing new tape

Tue Aug 17 16:38:14 GMT 1999 MKIV Start Patrol

Tue Aug 17 16:38:23 GMT 1999 PICS Start Patrol

Tue Aug 17 16:38:23 GMT 1999 PICS Start Patrol

\*\*LOW-L PROBLEM\*\*: Tue Aug 17 16:43:52 GMT 1999

L00619 was found popped out of drive #1 this morning, around 2/3 full.

Reset time and date and restarted lowl program, data writing to L00620 in drive #0. Cleaned drive #1 and loaded L00621.

\*\*MKIV PROBLEM\*\*: Tue Aug 17 16:46:19 GMT 1999

KCC display is streaky (radial streaks). Not sure whether this is a result of new program picked up this morning or the "usual" streaks we see when the KCC flakes out. Stopping Patrol gracefully and parking barrel with End Day then resetting the KCC.

Tue Aug 17 17:00:06 GMT 1999 MKIV Start Patrol

\*\*PICS PROBLEM\*\*: Tue Aug 17 17:01:23 GMT 1999

YCC monitor is off, stopping PICS and CHIP and resetting YCC after calibration and hourly transfers pau.

Tue Aug 17 17:02:51 GMT 1999 CHIP Bias

Tue Aug 17 17:03:45 GMT 1999 CHIP End Bias

Tue Aug 17 17:04:03 GMT 1999 CHIP Water

\*\*MKIV PROBLEM\*\*: Tue Aug 17 17:04:40 GMT 1999

Streaking went away with the KCC reset.

Tue Aug 17 17:04:52 GMT 1999 CHIP End Water

Tue Aug 17 17:06:52 GMT 1999 PICS End Patrol

Tue Aug 17 17:08:28 GMT 1999 CHIP CHIP End Patrol

Tue Aug 17 17:10:46 GMT 1999 CHIP CHIP Start Patrol

Tue Aug 17 17:12:26 GMT 1999 PICS Start Patrol

\*\*PICS PROBLEM\*\*: Tue Aug 17 17:13:34 GMT 1999

Problem initializing. Cancelled WaitRepl. Ended Patrol attempt, restarting Patrol.

Tue Aug 17 17:14:35 GMT 1999 PICS End Patrol

Tue Aug 17 17:15:38 GMT 1999 PICS Start Patrol

\*\*MKIV PROBLEM\*\*: Tue Aug 17 17:19:14 GMT 1999

Display acting like there is high sky polarization at 1.0 and 0.5 gain setting. There are "bright" outer wedges at the east and west quadrants. This is possibly a result of the program changes made by David overnight???

\*\*MKIV PROBLEM\*\*: Tue Aug 17 17:45:23 GMT 1999

Bright wedges might have actually been bad sky??? They were gone in last few scans at 0.5 gain. MKIII was dark in that region until

last few scans too.

Tue Aug 17 17:46:56 GMT 1999 MKIV Start Correct

Tue Aug 17 17:46:57 GMT 1999

Running a MKIV correct.

Tue Aug 17 17:48:11 GMT 1999 MKIV End Correct

Tue Aug 17 17:48:23 GMT 1999 MKIV Start Cal

Tue Aug 17 18:01:50 GMT 1999 CHIP Bias

Tue Aug 17 18:02:04 GMT 1999 PICS Flat

Tue Aug 17 18:02:43 GMT 1999 CHIP End Bias

Tue Aug 17 18:02:57 GMT 1999 CHIP Water

Tue Aug 17 18:03:38 GMT 1999 CHIP End Water

Tue Aug 17 18:04:36 GMT 1999 PICS End Flat

MKIV COMMENT: Tue Aug 17 18:15:45 GMT 1999

Calibrations pau.

MKIV COMMENT: Tue Aug 17 18:32:12 GMT 1999

Re-doing calibration. First attempt was short for some reason according to Alice.

\*\*MKIV PROBLEM\*\*: Tue Aug 17 18:56:28 GMT 1999

Changes made by David did not get rid of noise. Stopping MKIII/IV and opening up MKIV to remove video cable from back of camera to see if that is somehow injecting noise into the system.

\*\*MKIV PROBLEM\*\*: Tue Aug 17 19:01:36 GMT 1999

OK, video cable is unplugged, BNC is taped up and secured so it won't touch any part of the camera during this test.

Tue Aug 17 19:02:24 GMT 1999 MKIV Start Patrol

Tue Aug 17 19:02:49 GMT 1999 CHIP End Bias

Tue Aug 17 19:02:58 GMT 1999 CHIP Water

Tue Aug 17 19:03:04 GMT 1999 PICS polarization\_calibration

Tue Aug 17 19:03:41 GMT 1999 CHIP End Water

COMMENT: Tue Aug 17 19:27:46 GMT 1999

Stopping to reconfigure dome shutter.

Tue Aug 17 19:29:00 GMT 1999 PICS End Patrol

Tue Aug 17 19:30:21 GMT 1999 CHIP CHIP End Patrol

Tue Aug 17 19:32:46 GMT 1999 MKIV End Patrol

Tue Aug 17 19:40:31 GMT 1999 MKIV Start Patrol

Tue Aug 17 19:40:56 GMT 1999 PICS Start Patrol

Tue Aug 17 19:40:56 GMT 1999 PICS Start Patrol

Tue Aug 17 20:02:48 GMT 1999 CHIP Gain

Tue Aug 17 20:07:17 GMT 1999 CHIP End Gain

Tue Aug 17 20:07:32 GMT 1999 CHIP Bias

Tue Aug 17 20:08:28 GMT 1999 CHIP End Bias

Tue Aug 17 20:08:37 GMT 1999 CHIP Water

Tue Aug 17 20:09:12 GMT 1999 CHIP End Water

Tue Aug 17 21:00:48 GMT 1999 CHIP Bias

Tue Aug 17 21:01:38 GMT 1999 CHIP End Bias

Tue Aug 17 21:01:57 GMT 1999 CHIP Water

Tue Aug 17 21:02:48 GMT 1999 CHIP End Water

MKIV COMMENT: Tue Aug 17 21:13:34 GMT 1999

Stopping to reconnect video cable to camera. Noise still present.

Tue Aug 17 21:16:41 GMT 1999 MKIV Start Patrol

\*\*MKIV PROBLEM\*\* : Tue Aug 17 21:16:48 GMT 1999

Checked for discrepancies between jumper settings on new transformation board and the old one. Emailed list of discrepancies to David for analysis--there were discrepancies and these were purposely made when we changed transformation boards.

\*\*MKIV PROBLEM\*\* : Tue Aug 17 21:36:36 GMT 1999

Swapped jumpers from 320 to 322 on the transformation board.

\*\*MKIV PROBLEM\*\* : Tue Aug 17 21:44:11 GMT 1999

Display disappeared with that jumper change.

\*\*MKIV PROBLEM\*\* : Tue Aug 17 21:45:37 GMT 1999

Restoring jumpers on 320 and 322.

\*\*MKIV PROBLEM\*\* : Tue Aug 17 21:46:44 GMT 1999

swapping switch settings on U2 and U3 to old settings.

\*\*MKIV PROBLEM\*\* : Tue Aug 17 21:49:05 GMT 1999

OK, done.

\*\*MKIV PROBLEM\*\* : Tue Aug 17 21:54:40 GMT 1999

I do not see any change in the display noise with that swap.

Resetting U2 and U3 switch settings back to where they were and configuring straps on 408, 409, and 410 to the old configuration.

\*\*MKIV PROBLEM\*\* : Tue Aug 17 21:58:29 GMT 1999

OK, done. Display currently showing circular streaks. Let's see what happens when the scan resets.

Tue Aug 17 22:00:48 GMT 1999 CHIP Bias

Tue Aug 17 22:01:44 GMT 1999 CHIP End Bias

Tue Aug 17 22:02:07 GMT 1999 CHIP Water

\*\*MKIV PROBLEM\*\* : Tue Aug 17 22:03:10 GMT 1999

Nope, streaks did not go away. I will restore straps one at a time.

\*\*MKIV PROBLEM\*\* : Tue Aug 17 22:05:04 GMT 1999

Removed 410 briefly and coronal display returned. Put 409 back and display remained the same. strapped 410 again briefly (with 409 strapped) and streaks reappeared. Strapped 408 alone and image appeared. Strapped 410 again, with 408 and streaks recurred. Removed strap from 410 and strapped 409, the original configuration for the new board. display is back.

None of those swaps appeared to improve on the S/N in the displayed image.

Tue Aug 17 22:19:04 GMT 1999 PICS End Patrol

Tue Aug 17 22:21:22 GMT 1999 CHIP CHIP End Patrol

Tue Aug 17 22:22:22 GMT 1999 CHIP ending tape

COMMENT: Tue Aug 17 22:24:33 GMT 1999

Tapes:

MKIV: 99-229

PICS: P01520

CHIP: C00897

LOWL: L00620 in drive #0

Tue Aug 17 22:29:12 GMT 1999

MkIII

|              |              |              |              |               |
|--------------|--------------|--------------|--------------|---------------|
| 16_38.rawmk3 | 17_59.rawmk3 | 19_25.rawmk3 | 20_39.rawmk3 | 21_46.rawmk3  |
| 16_41.rawmk3 | 18_07.rawmk3 | 19_29.rawmk3 | 20_43.rawmk3 | 21_50.rawmk3  |
| 16_45.rawmk3 | 18_11.rawmk3 | 19_40.rawmk3 | 20_46.rawmk3 | 21_54.rawmk3  |
| 16_49.rawmk3 | 18_15.rawmk3 | 19_44.rawmk3 | 20_50.rawmk3 | 21_58.rawmk3  |
| 17_00.rawmk3 | 18_19.rawmk3 | 19_48.rawmk3 | 20_54.rawmk3 | 22_01.rawmk3  |
| 17_04.rawmk3 | 18_23.rawmk3 | 19_52.rawmk3 | 20_58.rawmk3 | 22_05.rawmk3  |
| 17_08.rawmk3 | 18_26.rawmk3 | 19_56.rawmk3 | 21_02.rawmk3 | 22_09.rawmk3  |
| 17_12.rawmk3 | 18_30.rawmk3 | 20_00.rawmk3 | 21_05.rawmk3 | 22_13.rawmk3  |
| 17_16.rawmk3 | 18_38.rawmk3 | 20_04.rawmk3 | 21_09.rawmk3 | 22_17.rawmk3  |
| 17_20.rawmk3 | 18_46.rawmk3 | 20_08.rawmk3 | 21_16.rawmk3 | 22_20.rawmk3  |
| 17_23.rawmk3 | 18_54.rawmk3 | 20_12.rawmk3 | 21_20.rawmk3 | c17_48.rawmk3 |
| 17_27.rawmk3 | 19_02.rawmk3 | 20_16.rawmk3 | 21_24.rawmk3 | c17_55.rawmk3 |
| 17_31.rawmk3 | 19_06.rawmk3 | 20_19.rawmk3 | 21_28.rawmk3 | c18_03.rawmk3 |
| 17_35.rawmk3 | 19_09.rawmk3 | 20_23.rawmk3 | 21_31.rawmk3 | c18_34.rawmk3 |
| 17_38.rawmk3 | 19_13.rawmk3 | 20_27.rawmk3 | 21_35.rawmk3 | c18_42.rawmk3 |
| 17_42.rawmk3 | 19_17.rawmk3 | 20_31.rawmk3 | 21_39.rawmk3 | c18_50.rawmk3 |
| 17_52.rawmk3 | 19_21.rawmk3 | 20_35.rawmk3 | 21_42.rawmk3 |               |