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Mauna Loa Solar Observatory Observer's Log  
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Mon Feb 14 17:14:54 GMT 2000

Year: 00 Doy: 045

Observer: yasukawa

WEATHER COMMENT: Mon Feb 14 17:15:31 GMT 2000

Cool, clear, light southwest wind.

Mon Feb 14 17:15:51 GMT 2000 CHIP Startup--Initializing new tape

Mon Feb 14 17:20:33 GMT 2000 CHIP CHIP Start 7 Passband Patrol

Mon Feb 14 17:20:46 GMT 2000 PICS Start Patrol

Mon Feb 14 17:20:52 GMT 2000 MKIV Start Patrol

WEATHER COMMENT: Mon Feb 14 17:51:29 GMT 2000

Sky noisy around southwest of sun.

Mon Feb 14 18:00:24 GMT 2000 PICS Flat

Mon Feb 14 18:03:00 GMT 2000 PICS End Flat

**\*\*MKIV PROBLEM\*\***: Mon Feb 14 18:03:50 GMT 2000

Noise on scan due to dusting off O1, looking at occulter thru ports, and looking down tube to troubleshoot source of SW noise. Also tried moving tilt plate out all the way.

**\*\*MKIV PROBLEM\*\***: Mon Feb 14 18:25:42 GMT 2000

There is a bright peak on the MKIV monitor trace in the outer coronal signal which is probably causing the noise. This peak occurs only during the sector where the noise occurs. I suspect the tilt plate is hanging into the edge of the beam and the calibration should result in the tilt plate rest (tiltout) position probably changing from where it was. If so, it should change the noise signature.

**\*\*MKIV PROBLEM\*\***: Mon Feb 14 18:30:19 GMT 2000

coronal image after 0tilt scan is hosed.

**\*\*MKIV PROBLEM\*\***: Mon Feb 14 18:36:47 GMT 2000

Coronal image after 15tilt scan is also hosed.

**\*\*MKIV PROBLEM\*\***: Mon Feb 14 18:43:52 GMT 2000

Problem with the coronal scan is opal not moving out.

Will try resetting KCC after cal pau.

Mon Feb 14 18:48:02 GMT 2000 MKIV Start Patrol

**\*\*MKIV PROBLEM\*\***: Mon Feb 14 19:02:03 GMT 2000

Turned off KCC, swapped opal driver with dust cover driver and restarted KCC. Tilt plate is sagging into beam, opal is in before starting patrol.

Mon Feb 14 19:03:25 GMT 2000 MKIV Start Patrol

**\*\*MKIV PROBLEM\*\***: Mon Feb 14 19:05:07 GMT 2000

Tilt plate moved all the way out, but opal did not move out.

COMMENT: Mon Feb 14 19:23:16 GMT 2000

Stopping PICS and CHIP. Working on MKIV opal and spar will be way out of balance and will be jostled while working on it.

**\*\*CHIP PROBLEM\*\***: Mon Feb 14 19:31:12 GMT 2000

I think CHIP is crashed. will deal with that later.

Mon Feb 14 20:54:32 GMT 2000 PICS Start Patrol

**\*\*CHIP PROBLEM\*\***: Mon Feb 14 20:54:58 GMT 2000

Cancelled Wait, Patrol resumed.

Mon Feb 14 20:55:29 GMT 2000 MKIV Start Patrol

**\*\*MKIV PROBLEM\*\***: Mon Feb 14 20:55:35 GMT 2000

Not sure what correction I made, possibly exercising the microswitches on the opal mechanism cleared the stickiness. Got the opal to respond to the KCC commands. Dust cap cable on exterior of assembly broke off during all this. Made the repair before re installing cover to MK4.

eb 14 20:58:17 GMT 2000 CHIP Gain7

**\*\*MKIV PROBLEM\*\***: Mon Feb 14 21:03:10 GMT 2000

SW is still noisy. Looked into tube and determined that tilt plate looked adequately out of beam. O1 was dusty due to all of the work I was doing so I dusted it off front and back.

GONG COMMENT: Mon Feb 14 21:06:04 GMT 2000

going down to GONG to do weekly PM.

Mon Feb 14 21:06:50 GMT 2000 CHIP End Gain

Mon Feb 14 21:07:00 GMT 2000 CHIP Bias

Mon Feb 14 21:07:39 GMT 2000 CHIP End Bias

Mon Feb 14 21:07:54 GMT 2000 CHIP CHIP End Patrol

\*\*MKIV PROBLEM\*\* : Mon Feb 14 21:26:15 GMT 2000  
Noisy "sky" in SW went away at 2116 UT. Maybe it was the sky... I did nothing--was down at GONG.

\*\*CHIP PROBLEM\*\* : Mon Feb 14 21:27:35 GMT 2000  
CHIP stopped (as commanded before working on MK4 opal - forgot I requested an end). Restarted Patrol.

Mon Feb 14 22:07:18 GMT 2000 PICS End Patrol  
Mon Feb 14 22:08:08 GMT 2000 CHIP CHIP End Patrol  
Mon Feb 14 22:08:42 GMT 2000 CHIP ending tape

COMMENT: Mon Feb 14 22:09:01 GMT 2000

TAPES:

MKIV: 00-045  
PICS: P01664  
CHIP: C01041  
LOWL: L00671 in drive #0  
Mon Feb 14 22:13:09 GMT 2000  
MkIV

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| 17_20.rawmk4 | 17_56.rawmk4 | 18_41.rawmk4 | 21_16.rawmk4 | 21_51.rawmk4  |
| 17_23.rawmk4 | 17_59.rawmk4 | 18_48.rawmk4 | 21_19.rawmk4 | 21_54.rawmk4  |
| 17_26.rawmk4 | 18_02.rawmk4 | 18_51.rawmk4 | 21_22.rawmk4 | 21_57.rawmk4  |
| 17_29.rawmk4 | 18_05.rawmk4 | 19_03.rawmk4 | 21_25.rawmk4 | 22_00.rawmk4  |
| 17_32.rawmk4 | 18_08.rawmk4 | 19_06.rawmk4 | 21_28.rawmk4 | 22_03.rawmk4  |
| 17_35.rawmk4 | 18_11.rawmk4 | 20_55.rawmk4 | 21_31.rawmk4 | c18_26.rawmk4 |
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| 17_44.rawmk4 | 18_20.rawmk4 | 21_04.rawmk4 | 21_40.rawmk4 |               |
| 17_47.rawmk4 | 18_23.rawmk4 | 21_07.rawmk4 | 21_43.rawmk4 |               |
| 17_50.rawmk4 | 18_29.rawmk4 | 21_10.rawmk4 | 21_46.rawmk4 |               |
| 17_53.rawmk4 | 18_35.rawmk4 | 21_13.rawmk4 | 21_48.rawmk4 |               |