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Mauna Loa Solar Observatory Observer's Log  
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Sun Apr 25 16:50:11 GMT 1999

Year: 99 Doy: 115

Observer: koon

WEATHER COMMENT: Sun Apr 25 16:50:28 GMT 1999

Clear sky, wind=10 mph from the ESE, temp=40 F.

\*\*LOW-L PROBLEM\*\* : Sun Apr 25 16:51:21 GMT 1999

Tape L00594 popped out of drive #0 this morning as it should have, but L00595 didn't get any data, the program was stalled. David is checking out the code.

Moved L00595 to drive #0 and installed L00596 in drive #1.

Sun Apr 25 17:00:48 GMT 1999 CHIP Startup--Initializing new tape

Sun Apr 25 17:01:07 GMT 1999 MKIII Start Patrol

Sun Apr 25 17:03:21 GMT 1999 CHIP CHIP Start Patrol

LOW-L COMMENT: Sun Apr 25 17:05:21 GMT 1999

OK, the program is running well and the code has been changed to make all the fields on the observing screen green when the normal parameters are within the new limits.

\*\*LOW-L PROBLEM\*\* : Sun Apr 25 17:06:53 GMT 1999

As a symptom of the crash this morning the screen showed the DOS prompt. The drive #0 needed to be cleaned as indicated by the flashing LEDs, and it was cleaned this morning.

Sun Apr 25 17:39:19 GMT 1999 PICS Start Patrol

Sun Apr 25 18:00:10 GMT 1999 MKIII End Patrol

Sun Apr 25 18:00:52 GMT 1999 CHIP Bias

Sun Apr 25 18:01:40 GMT 1999 PICS Flat

Sun Apr 25 18:01:47 GMT 1999 CHIP End Bias

Sun Apr 25 18:01:59 GMT 1999 CHIP Water

Sun Apr 25 18:02:36 GMT 1999 CHIP End Water

Sun Apr 25 18:02:51 GMT 1999 MKIII Start Correct

Sun Apr 25 18:03:12 GMT 1999 PICS End Flat

Sun Apr 25 18:04:40 GMT 1999 MKIII End Correct

Sun Apr 25 18:04:45 GMT 1999 MKIII Start Patrol

Sun Apr 25 18:11:20 GMT 1999 MKIII Start Cal

Sun Apr 25 18:31:32 GMT 1999 MKIII Start Patrol

Sun Apr 25 18:44:27 GMT 1999 MKIII End Patrol

MKIV COMMENT: Sun Apr 25 18:44:41 GMT 1999

Ending normal coronal observations. Setting up software for lunar drift tests.

PICS COMMENT: Sun Apr 25 18:45:22 GMT 1999

Will be messing with PICS H-alpha, not many more observations

Sun Apr 25 18:47:09 GMT 1999 MKIII Start Patrol

Sun Apr 25 18:52:30 GMT 1999 PICS End Patrol

WEATHER COMMENT: Sun Apr 25 18:52:38 GMT 1999

Sky is very bright today.

PICS COMMENT: Sun Apr 25 18:52:51 GMT 1999

Stopping for focus hardware modification.

CHIP COMMENT: Sun Apr 25 18:53:23 GMT 1999

Stopping to allow work on PICS.

MKIII Start Patrol

|                              |       |                 |
|------------------------------|-------|-----------------|
| Sun Apr 25 18:53:44 GMT 1999 | CHIP  | CHIP End Patrol |
| Sun Apr 25 19:01:27 GMT 1999 | MKIII | Start Patrol    |
| Sun Apr 25 19:09:39 GMT 1999 | MKIII | Start Patrol    |
| Sun Apr 25 19:38:08 GMT 1999 | MKIII | Start Patrol    |
| Sun Apr 25 19:48:18 GMT 1999 | MKIII | Start Patrol    |
| Sun Apr 25 19:57:17 GMT 1999 | MKIII | Start Patrol    |
| Sun Apr 25 20:01:22 GMT 1999 | MKIII | Start Patrol    |
| Sun Apr 25 20:01:45 GMT 1999 | MKIII | End Patrol      |
| Sun Apr 25 20:03:14 GMT 1999 | MKIII | Start Patrol    |
| Sun Apr 25 20:07:22 GMT 1999 | MKIII | End Patrol      |
| Sun Apr 25 20:14:52 GMT 1999 | MKIII | Start Patrol    |
| Sun Apr 25 20:16:22 GMT 1999 | MKIII | End Patrol      |
| Sun Apr 25 20:20:13 GMT 1999 | MKIII | Start Patrol    |
| Sun Apr 25 20:28:02 GMT 1999 | MKIII | End Patrol      |
| Sun Apr 25 20:39:29 GMT 1999 | MKIII | Start Patrol    |
| Sun Apr 25 20:47:56 GMT 1999 | MKIII | End Patrol      |
| Sun Apr 25 20:59:42 GMT 1999 | MKIII | Start Patrol    |

PICS COMMENT: Sun Apr 25 21:01:07 GMT 1999

Had to R+R the focusing stage to drill and tap new mount holes. Also had to replace a female connector on the m3 (focus) leg of the mike controller.

Sun Apr 25 21:07:27 GMT 1999 MKIII End Patrol

CHIP COMMENT: Sun Apr 25 21:13:20 GMT 1999

Restarted obs.

Sun Apr 25 21:13:26 GMT 1999 CHIP CHIP Start Patrol

PICS COMMENT: Sun Apr 25 21:13:32 GMT 1999

Continuing with focusing.

|                              |       |                 |
|------------------------------|-------|-----------------|
| Sun Apr 25 21:48:07 GMT 1999 | MKIII | Start Patrol    |
| Sun Apr 25 21:53:06 GMT 1999 | MKIII | End Patrol      |
| Sun Apr 25 22:01:51 GMT 1999 | CHIP  | Bias            |
| Sun Apr 25 22:02:47 GMT 1999 | CHIP  | End Bias        |
| Sun Apr 25 22:02:54 GMT 1999 | CHIP  | Water           |
| Sun Apr 25 22:03:31 GMT 1999 | CHIP  | End Water       |
| Sun Apr 25 22:09:34 GMT 1999 | MKIII | Start Patrol    |
| Sun Apr 25 22:14:46 GMT 1999 | MKIII | End Patrol      |
| Sun Apr 25 22:43:51 GMT 1999 | MKIII | Start Patrol    |
| Sun Apr 25 22:58:43 GMT 1999 | MKIII | End Patrol      |
| Sun Apr 25 23:01:00 GMT 1999 | CHIP  | Bias            |
| Sun Apr 25 23:01:57 GMT 1999 | CHIP  | End Bias        |
| Sun Apr 25 23:02:04 GMT 1999 | CHIP  | Water           |
| Sun Apr 25 23:02:41 GMT 1999 | CHIP  | End Water       |
| Sun Apr 25 23:08:27 GMT 1999 | CHIP  | CHIP End Patrol |
| Sun Apr 25 23:11:23 GMT 1999 | CHIP  | ending tape     |

COMMENT: Sun Apr 25 23:14:27 GMT 1999

TAPES:

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MKIV: 99115  
CHIP: C00833  
PICS: P01421  
LOWL: L00595 in drive #0

|                              |       |               |
|------------------------------|-------|---------------|
| Sun Apr 25 23:31:37 GMT 1999 | MKIII | Start Patrol  |
| Sun Apr 25 23:43:52 GMT 1999 | PICS  | Start Patrol  |
| Sun Apr 25 23:48:18 GMT 1999 | MKIII | End Patrol    |
| Sun Apr 25 23:48:33 GMT 1999 | MKIII | Start Correct |
| Sun Apr 25 23:50:15 GMT 1999 | MKIII | End Correct   |
| Sun Apr 25 23:50:33 GMT 1999 | MKIII | Start Correct |
| Sun Apr 25 23:51:13 GMT 1999 | PICS  | End Patrol    |
| Sun Apr 25 23:52:14 GMT 1999 | MKIII | End Correct   |
| Sun Apr 25 23:55:02 GMT 1999 | MKIII | Start Patrol  |
| Mon Apr 26 00:11:42 GMT 1999 | MKIII | End Patrol    |
| Mon Apr 26 00:23:38 GMT 1999 | MKIII | Start Correct |
| Mon Apr 26 00:25:19 GMT 1999 | MKIII | Start Patrol  |
| Mon Apr 26 00:31:54 GMT 1999 | MKIII | End Patrol    |
| Mon Apr 26 00:44:18 GMT 1999 | MKIII | Start Patrol  |
| Mon Apr 26 00:44:50 GMT 1999 | MKIII | End Patrol    |
| Mon Apr 26 00:44:55 GMT 1999 | MKIII | Start Correct |
| Mon Apr 26 00:46:42 GMT 1999 | MKIII | End Correct   |
| Mon Apr 26 00:46:46 GMT 1999 | MKIII | Start Patrol  |
| Mon Apr 26 00:53:37 GMT 1999 | MKIII | End Patrol    |
| Mon Apr 26 01:05:26 GMT 1999 | MKIII | Start Correct |
| Mon Apr 26 01:07:13 GMT 1999 | MKIII | End Correct   |
| Mon Apr 26 01:07:17 GMT 1999 | MKIII | Start Patrol  |
| Mon Apr 26 01:27:29 GMT 1999 | MKIII | End Patrol    |
| Mon Apr 26 01:33:42 GMT 1999 | MKIII | Start Patrol  |
| Mon Apr 26 01:40:32 GMT 1999 | MKIII | End Patrol    |
| Mon Apr 26 01:53:23 GMT 1999 | MKIII | Start Patrol  |
| Mon Apr 26 02:00:47 GMT 1999 | MKIII | End Patrol    |
| Mon Apr 26 02:09:40 GMT 1999 | MKIII | Start Patrol  |
| Mon Apr 26 02:16:31 GMT 1999 | MKIII | End Patrol    |
| Mon Apr 26 02:26:20 GMT 1999 | MKIII | Start Patrol  |

MKIV COMMENT: Mon Apr 26 02:33:51 GMT 1999

Lunar scan with barrel set to 300 or -60 degrees for Mk3 E-W  
Second scan is just to get back home

|                              |       |              |
|------------------------------|-------|--------------|
| Mon Apr 26 02:36:04 GMT 1999 | MKIII | Start Patrol |
| Mon Apr 26 02:43:43 GMT 1999 | MKIII | End Patrol   |
| Mon Apr 26 02:46:38 GMT 1999 | MKIII | Start Patrol |

MKIV COMMENT: Mon Apr 26 02:47:19 GMT 1999

First three pairs of scans are aligned for MkIV  
Did a quick look of the Mk4 data and saw bands of noise but a lunar  
signal elsewhere. Perhaps this is a rawt4 artifact?

MKIV COMMENT: Mon Apr 26 02:52:01 GMT 1999  
MkIV data looks good on the return scan, without the Moon.  
I will try some software tricks for the next several MkIV attempts.  
Mon Apr 26 02:54:17 GMT 1999 MKIII End Patrol  
MKIV COMMENT: Mon Apr 26 03:01:27 GMT 1999  
first good mk4 scan is 02\_54  
MKIV COMMENT: Mon Apr 26 03:07:28 GMT 1999  
03\_01 is a good mk4 scan too  
MKIV COMMENT: Mon Apr 26 03:12:58 GMT 1999  
Third good mk4 scan is 03\_08  
MKIII COMMENT: Mon Apr 26 03:15:23 GMT 1999  
Barrel angle set to -120 or 240 degrees to align MkIII east-west in  
fact.  
MKIII COMMENT: Mon Apr 26 03:21:41 GMT 1999  
Mk3 scan 03\_14 looks good.  
MKIII COMMENT: Mon Apr 26 03:26:49 GMT 1999  
03\_21 next good scan for mk3  
Mon Apr 26 03:33:39 GMT 1999 MKIII Start Patrol  
MKIII COMMENT: Mon Apr 26 03:36:40 GMT 1999  
Last mk3 orientation is for 03\_21  
Next two files are "coronal" scans with the Moon in the field of view  
Mon Apr 26 03:41:11 GMT 1999 MKIII End Patrol  
MKIV COMMENT: Mon Apr 26 03:45:38 GMT 1999  
Drift scan with Moon in west but with mk3 to north and mk4 to south  
azimuth angle of barrel is 90 degrees. maybe this will help  
you with scaling?  
Mon Apr 26 03:53:00 GMT 1999  
MkIII

|              |              |              |              |               |
|--------------|--------------|--------------|--------------|---------------|
| 02_26.rawmk3 | 03_14.rawmk3 | 17_11.rawmk3 | 17_40.rawmk3 | 18_21.rawmk3  |
| 02_30.rawmk3 | 03_21.rawmk3 | 17_15.rawmk3 | 17_44.rawmk3 | 18_28.rawmk3  |
| 02_36.rawmk3 | 03_27.rawmk3 | 17_18.rawmk3 | 17_47.rawmk3 | 18_31.rawmk3  |
| 02_40.rawmk3 | 03_33.rawmk3 | 17_21.rawmk3 | 17_50.rawmk3 | 18_34.rawmk3  |
| 02_46.rawmk3 | 03_37.rawmk3 | 17_24.rawmk3 | 17_53.rawmk3 | 18_38.rawmk3  |
| 02_50.rawmk3 | 03_45.rawmk3 | 17_27.rawmk3 | 17_57.rawmk3 | 18_41.rawmk3  |
| 02_54.rawmk3 | 17_01.rawmk3 | 17_31.rawmk3 | 18_04.rawmk3 | c18_11.rawmk3 |
| 03_01.rawmk3 | 17_04.rawmk3 | 17_34.rawmk3 | 18_08.rawmk3 | c18_18.rawmk3 |
| 03_08.rawmk3 | 17_07.rawmk3 | 17_37.rawmk3 | 18_14.rawmk3 | c18_24.rawmk3 |