
Mauna Loa Solar Observatory Observer's Log

Wed Nov 20 16:59:10 GMT 1996

Year: 96 Doy: 325

Observer: yasukawa

WEATHER COMMENT: Wed Nov 20 16:59:23 GMT 1996

In broken cirrus and altocumulus overcast, south wind.

Wed Nov 20 16:59:56 GMT 1996 CHIP Startup--Initializing new tape

Wed Nov 20 17:06:40 GMT 1996 CHIP CHIP Start Patrol

CHIP COMMENT: Wed Nov 20 17:10:08 GMT 1996

In heavy altocumulus, no image on LOWL and CHIP. Stopping CHIP for now.

Wed Nov 20 17:12:48 GMT 1996 CHIP CHIP End Patrol

Wed Nov 20 17:49:11 GMT 1996 dPMon Start Patrol

Wed Nov 20 17:49:11 GMT 1996 CHIP CHIP Start Patrol

WEATHER COMMENT: Wed Nov 20 17:49:08 GMT 1996

I see an image on LOWL. Starting CHIP and DPMON.

COMMENT: Wed Nov 20 17:55:38 GMT 1996

Spar wasn't guiding at this startup, moved slot and pointed spar.

Wed Nov 20 18:02:01 GMT 1996 dPMon Flat

Wed Nov 20 18:02:43 GMT 1996 CHIP Bias

Wed Nov 20 18:02:56 GMT 1996 dPMon End Flat

Wed Nov 20 18:03:49 GMT 1996 CHIP End Bias

Wed Nov 20 18:03:58 GMT 1996 CHIP Water

Wed Nov 20 18:04:38 GMT 1996 CHIP End Water

MKIII COMMENT: Wed Nov 20 18:01:53 GMT 1996

Checked out MKIII.

- 11/44 started up OK and seemed to be working OK. Boot normal, barrel scan normal.
- PEEK OK. Table indicates that failure occurred during a TAKE, images 2 and 3 empty and image 1 holding an old image. This is what happens during a TAKE.
- Analog monitors: P+S not sync'd, abnormal waveforms.
 - P-S sync'd
 - PGA sync'd
- Observed pixel sync pulse on monitors.

- * Noticed Analog Corrector fan not spinning when I went to check voltages.

- * Analog Corrector power supply #5, DC power to chan 0 at 0 volts.
 - * voltage at 5v when disconnected and under no load.
 - * voltage at 5v when connected to chan 1
- * Fan started up when I gave blades a nudge. Vac'd dust from fan.
- * Analog corrector power supply #4 to chan 1 was at 5v under load.
 - * voltage at 5v when connected to chan 0.
- * Connected power supplies back to original channels and voltages on both supplies were 5v.

* P+S signal looked normal again on monitors.

* MKIII appears to be back to normal operation.

Problem may have been with flaky OV circuit in the LNS-Z-OV-5-R power supply which tripped yesterday and then did not reset until I applied the no-load condition to it. We need to spare them as three of the original 6 have died and were trashed, the one remaining spare as well as the two working units are somewhat flaky.

WEATHER COMMENT: Wed Nov 20 18:33:51 GMT 1996
In cirrus.

WEATHER COMMENT: Wed Nov 20 18:45:10 GMT 1996
clear.

| | | |
|------------------------------|-------|-----------|
| Wed Nov 20 19:02:00 GMT 1996 | dPMon | Flat |
| Wed Nov 20 19:02:45 GMT 1996 | CHIP | Bias |
| Wed Nov 20 19:02:54 GMT 1996 | dPMon | End Flat |
| Wed Nov 20 19:03:52 GMT 1996 | CHIP | End Bias |
| Wed Nov 20 19:04:02 GMT 1996 | CHIP | Water |
| Wed Nov 20 19:04:36 GMT 1996 | CHIP | End Water |

COMMENT: Wed Nov 20 19:31:21 GMT 1996

WEATHER COMMENT: Wed Nov 20 19:31:33 GMT 1996
In cirrus.

WEATHER COMMENT: Wed Nov 20 19:43:08 GMT 1996
Clear.

MKIII COMMENT: Wed Nov 20 19:43:16 GMT 1996

Analog went down again after stint with cirrus. Checking out and attempting fix.

| | | |
|------------------------------|------|-----------|
| Wed Nov 20 20:02:46 GMT 1996 | CHIP | Gain |
| Wed Nov 20 20:07:13 GMT 1996 | CHIP | End Gain |
| Wed Nov 20 20:07:20 GMT 1996 | CHIP | Bias |
| Wed Nov 20 20:07:58 GMT 1996 | CHIP | End Bias |
| Wed Nov 20 20:08:05 GMT 1996 | CHIP | Water |
| Wed Nov 20 20:08:30 GMT 1996 | CHIP | End Water |

WEATHER COMMENT: Wed Nov 20 20:14:05 GMT 1996
In cirrus.

DPMON COMMENT: Wed Nov 20 20:14:23 GMT 1996
DPMON crash. waiting to fix.

Wed Nov 20 20:53:58 GMT 1996 CHIP CHIP End Patrol

WEATHER COMMENT: Wed Nov 20 20:53:19 GMT 1996

In heavy cirrus, stopping CHIP. DPMON is crashed and I can't kill the waits.

DPMON COMMENT: Wed Nov 20 20:59:45 GMT 1996
Had to Kill/Run to recover.

MKIII COMMENT: Wed Nov 20 21:16:48 GMT 1996

1/rot, 64/rot, and start pulses are missing upstairs at test points, 1/rot, 64/rot and data pulses are missing downstairs at microP digital isolator.

Thu Nov 21 00:32:50 GMT 1996 CHIP ending tape

MKIII COMMENT: Thu Nov 21 00:34:04 GMT 1996

I didn't see 1/2 wave plate encoder pulses anywhere so I replaced the HEI sensor (with much difficulty). After the replacement, the pulses were still gone. As a last item, I checked the 12V supply in the barrel that is supposed to power the encoder card in the trough behind the motor. Voltage looked OK.

Stopped to think things out.

MKIII still down.

COMMENT: Thu Nov 21 00:37:27 GMT 1996

Activity report:

QP: 95; 102; 115-125; 136; 238; 253; 260; 280; 285;

AP: 295-312

No coronal activity

Tapes: MKIII: H01439

DPMON: P00765

CHIP: C00182

LOWL: L00427

SCAN-LOG

SCAN-LOG 17:07:42. 11/20/96 DOY 325

| | | | | |
|-----------|----------|----------|-----------|----------|
| 18:00:30 | 18:03:48 | 18:07:08 | 18:10:26 | 18:13:45 |
| 18:17:02 | 18:20:21 | 18:23:37 | 1828 0 CL | 18:31:30 |
| 1845 15CL | 18:51:51 | 18:55:47 | 18:59:02 | 19:02:19 |
| 19:05:33 | 19:08:51 | 19:12:06 | 19:15:26 | 19:18:41 |
| 19:21:56 | 19:25:10 | 19:28:26 | 19:31:40 | 19:34:56 |
| 19:34:56 | 19:34:56 | | | |

0 ERRORS

OK