
Mauna Loa Solar Observatory Observer's Log

Fri May 7 16:19:51 GMT 1999

Year: 99 Doy: 127

Observer: yasukawa

WEATHER COMMENT: Fri May 7 16:20:52 GMT 1999

Cool, in broken cirrus, light south wind.

Fri May 7 16:22:18 GMT 1999 CHIP Startup--Initializing new tape

Fri May 7 16:27:29 GMT 1999 PICS Start Patrol

Fri May 7 16:27:56 GMT 1999 CHIP CHIP Start Patrol

Fri May 7 16:28:02 GMT 1999 MKIII Start Patrol

CHIP PROBLEM: Fri May 7 16:35:51 GMT 1999

CHIP filter temperature just hovering at edge of high end this morning.

Fri May 7 17:01:31 GMT 1999 PICS Flat

Fri May 7 17:01:50 GMT 1999 CHIP Bias

Fri May 7 17:02:42 GMT 1999 CHIP End Bias

Fri May 7 17:02:52 GMT 1999 CHIP Water

Fri May 7 17:02:57 GMT 1999 PICS End Flat

Fri May 7 17:03:36 GMT 1999 CHIP End Water

CHIP PROBLEM: Fri May 7 17:27:34 GMT 1999

Stopping CHIP to check out the temperature controller.

Fri May 7 17:30:24 GMT 1999 CHIP CHIP End Patrol

Fri May 7 18:01:47 GMT 1999 PICS Flat

Fri May 7 18:03:23 GMT 1999 PICS End Flat

Fri May 7 19:01:29 GMT 1999 PICS Flat

Fri May 7 19:02:59 GMT 1999 PICS End Flat

CHIP PROBLEM: Fri May 7 19:13:18 GMT 1999

Setpoint was 0.534v, should be 0.644v. Inspected temperature controller and found that the soldering was quite messy, lots of solder splashes, albeit tiny drops, and lots of gunky rosin. Setpoint voltage jumped to 0.644v when I tapped the LMT324D IC under the large capacitor, closest to the interface connector. There are 4 LMT324D ICs and this was the last one I "tested". After cleaning around all of the pins on all of the ICs with alcohol and a fine scribe, I inspected the solder joints and none looked like they were cold soldered. Problem could have been the dirty environment between pins or it could be an internal flaw within the IC. setpoint voltage held at 0.644V as I reassembled the controller and it held after remounting the chassis on the spar.

CHIP filter temperature is now cold and rising. It'll take some time to stabilize at the correct temperature range.

MKIV PROBLEM: Fri May 7 19:22:51 GMT 1999

Cirrus is gone and sky is improving. MKIII corona looks marginally OK, MKIV display is streaking radially. I thought it was due to the cirrus, but now that the sky is improving, I can see that the KCC needs a reset.

Fri May 7 19:25:06 GMT 1999 MKIII Start Patrol

Fri May 7 19:25:13 GMT 1999 CHIP CHIP Start Patrol

COMMENT: Fri May 7 19:25:57 GMT 1999

Stopping to reconfigure dome shutter.

Fri May 7 19:26:24 GMT 1999 PICS End Patrol

Fri May 7 19:28:27 GMT 1999 CHIP CHIP End Patrol

Fri May 7 19:38:11 GMT 1999 MKIII Start Patrol

Fri May 7 19:38:33 GMT 1999 CHIP CHIP Start Patrol

Fri May 7 19:38:38 GMT 1999 PICS Start Patrol

WEATHER COMMENT: Fri May 7 19:51:27 GMT 1999

In thin cirrus.

Fri May 7 20:00:39 GMT 1999 PICS Flat

Fri May 7 20:02:14 GMT 1999 PICS End Flat

Fri May 7 20:02:51 GMT 1999 CHIP Gain

Fri May 7 20:07:15 GMT 1999 CHIP End Gain

Fri May 7 20:07:25 GMT 1999 CHIP Bias

Fri May 7 20:08:15 GMT 1999 CHIP End Bias

Fri May 7 20:08:27 GMT 1999 CHIP Water

Fri May 7 20:09:07 GMT 1999 CHIP End Water

Fri May 7 20:09:29 GMT 1999 MKIII End Cal

PICS PROBLEM: Fri May 7 20:09:48 GMT 1999

PICS filter wheel is stalling, I think. Stopping to check it out.

PICS PROBLEM: Fri May 7 20:12:48 GMT 1999

I think PICS also crashed.

Fri May 7 20:28:09 GMT 1999 PICS End Patrol

COMMENT: Fri May 7 20:49:49 GMT 1999

I was leaning pretty hard on the spar trying to reinstall the PICS insulating cover, lost guiding. Repointed.

PICS PROBLEM: Fri May 7 20:50:46 GMT 1999

Set screw on filter wheel was loose, this caused mis-registration of the filter wheel and the floppiness also prevented positive contact with the encoding microswitches. This caused program to timeout or get confused about where the filter wheel was.

Tightened set screw and tested PICS.

Fri May 7 20:55:08 GMT 1999 MKIII Start Patrol

MKIV COMMENT: Fri May 7 20:55:43 GMT 1999

Did not restart MKIV/MKIII after calibration due to preoccupation with PICS.

Fri May 7 21:00:51 GMT 1999 CHIP Bias

Fri May 7 21:01:42 GMT 1999 CHIP End Bias

Fri May 7 21:01:42 GMT 1999 CHIP End Bias

Fri May 7 21:01:57 GMT 1999 CHIP Water

Fri May 7 21:02:38 GMT 1999 CHIP End Water

Fri May 7 21:03:12 GMT 1999 PICS End Flat

CHIP COMMENT: Fri May 7 21:20:55 GMT 1999

CHIP filter temperature still rising above range. It has not settled yet.

CHIP PROBLEM: Fri May 7 21:57:56 GMT 1999

CHIP temperature is still rising. Either this is going to take some time to get it back on temperature or something else got hosed.

We'll be patient for now.

Fri May 7 22:00:49 GMT 1999 CHIP Bias
Fri May 7 22:01:42 GMT 1999 CHIP End Bias
Fri May 7 22:01:42 GMT 1999 CHIP End Bias
Fri May 7 22:01:55 GMT 1999 CHIP Water
Fri May 7 22:02:36 GMT 1999 CHIP End Water
Fri May 7 22:03:11 GMT 1999 PICS End Flat
Fri May 7 22:05:27 GMT 1999 CHIP CHIP End Patrol
Fri May 7 22:06:01 GMT 1999 CHIP ending tape
Fri May 7 22:07:26 GMT 1999 PICS End Patrol

COMMENT: Fri May 7 22:08:52 GMT 1999

Tapes:

MKIV: 99-127

CHIP: C00845

PICS: P01433

LOWL: L00597

Fri May 7 22:17:43 GMT 1999

MkIII

16_28.rawmk3	17_27.rawmk3	18_26.rawmk3	19_30.rawmk3	21_33.rawmk3
16_31.rawmk3	17_30.rawmk3	18_30.rawmk3	19_38.rawmk3	21_36.rawmk3
16_35.rawmk3	17_34.rawmk3	18_33.rawmk3	19_42.rawmk3	21_40.rawmk3
16_39.rawmk3	17_38.rawmk3	18_37.rawmk3	19_49.rawmk3	21_44.rawmk3
16_42.rawmk3	17_42.rawmk3	18_41.rawmk3	19_57.rawmk3	21_48.rawmk3
16_46.rawmk3	17_45.rawmk3	18_45.rawmk3	20_05.rawmk3	21_51.rawmk3
16_50.rawmk3	17_49.rawmk3	18_48.rawmk3	20_55.rawmk3	21_55.rawmk3
16_53.rawmk3	17_53.rawmk3	18_52.rawmk3	20_59.rawmk3	21_59.rawmk3
16_57.rawmk3	17_56.rawmk3	18_56.rawmk3	21_03.rawmk3	22_03.rawmk3
17_01.rawmk3	18_00.rawmk3	18_59.rawmk3	21_06.rawmk3	22_06.rawmk3
17_05.rawmk3	18_04.rawmk3	19_03.rawmk3	21_10.rawmk3	c19_45.rawmk3
17_08.rawmk3	18_08.rawmk3	19_07.rawmk3	21_14.rawmk3	c19_53.rawmk3
17_12.rawmk3	18_11.rawmk3	19_10.rawmk3	21_18.rawmk3	c20_01.rawmk3
17_16.rawmk3	18_15.rawmk3	19_14.rawmk3	21_21.rawmk3	
17_19.rawmk3	18_19.rawmk3	19_18.rawmk3	21_25.rawmk3	
17_23.rawmk3	18_22.rawmk3	19_26.rawmk3	21_29.rawmk3	