
Mauna Loa Solar Observatory Observer's Log

Tue Mar 7 16:53:34 GMT 2000
Year: 00 Doy: 067
Observer: yasukawa
WEATHER COMMENT: Tue Mar 7 16:53:56 GMT 2000
Cool, clear, south wind.
Tue Mar 7 16:55:08 GMT 2000 CHIP Startup--Initializing new tape
Tue Mar 7 17:05:42 GMT 2000 CHIP CHIP Start 7 Passband Patrol
Tue Mar 7 17:05:55 GMT 2000 PICS Start Patrol
Tue Mar 7 17:06:27 GMT 2000 MKIV Start Patrol
Tue Mar 7 18:02:59 GMT 2000 PICS Flat
Tue Mar 7 18:05:44 GMT 2000 PICS End Flat
**** EVENT COMMENT ****: Tue Mar 7 18:57:19 GMT 2000
possible fast cme at PA 230-240 from 1836-1851 UT.
Tue Mar 7 20:00:55 GMT 2000 CHIP Gain7
Tue Mar 7 20:09:16 GMT 2000 CHIP End Gain
Tue Mar 7 20:09:32 GMT 2000 CHIP Bias
Tue Mar 7 20:10:42 GMT 2000 CHIP End Bias
PSPT PROBLEM: Tue Mar 7 21:25:12 GMT 2000
I found some info on the fuzzy image problem. Darryl suspected there may still be a quad cell problem when the images are far off-center. Haosheng concurred with that and was going to reduce the offsets and load the program mods at some point--he hasn't alerted us that this was done so I don't know if he did this--although the offset values appeared to be the same during the 1900 UT flat-field cal this morning.

What I found while watching the program run on the sparc and the PC was that focus was not changing(!!) Images were fine for the 2000 series data and I recall seeing the "position = xxx.xxx" values change according to the "fcs goto xxx.xxx" request. During the 2100 series, the "position =" values went to 58 (or was already there) on the first exposure and THE VALUE DID NOT CHANGE FROM 58 the whole time during the image subset where a bunch of exposures were made with the focus changing between each exposure. The first exposure subsets, before the focus series, were in good focus. The result of this focus failure was the RED images were out of focus. The BLUE and CAK focus change requests must have been close enough to 58 that the focus was not too hosed (50-450 or so?). Red focus requests were for 1600-2000, quite far from 58, no? Tried requesting focus changes manually from PC after the 2100 series finished and go no response. In thinking back to yesterday, the out of focus images occurred in the later series--probably 2100, definitely 2200. One troubleshoot path would be to determine if the focus stall is a time-of-day (spar position) thing or a thermal thing, or ?????

I will look at the U2A and U2B outputs during the next series to

determine that the active mirror is NOT oscillating and the focus
iss the only thing causing this particular out-of-focus condition.
this should put the active mirror problem to bed as "fixed by Koon".
COMMENT: Tue Mar 7 21:52:11 GMT 2000
AARGH! forgot to reconfigure dome shutter. CHIP domed out. I will stop
CHIP rather than reconfigure dome at this late time.
Tue Mar 7 21:54:23 GMT 2000   CHIP   CHIP End Patrol
Tue Mar 7 22:01:40 GMT 2000   CHIP   ending tape
Tue Mar 7 22:10:10 GMT 2000   PICS   End Patrol
PSPT PROBLEM: Tue Mar 7 22:10:56 GMT 2000
Fuzzy RED image is NOT due to active mirror oscillations. I watched the
U2A and U2B outputs on the scope and the values did not change or show
oscillation during the out-of-focus RED images. All RED images during
the 2200 series, including during the first two subsets, were out-of-focus.
Position = values were not changing to fcs goto requests. There is
a definite problem with the focus mechanism. It was good yesterday morning
and again this morning. Problem is definitely intermittent, not totally
failed.
COMMENT: Tue Mar 7 22:16:12 GMT 2000
Tapes:
MKIV: 00-067
PICS: P01685
CHIP: C01066
LOWL: L00675 in drive #0
Tue Mar 7 22:25:27 GMT 2000
        MkIV

17_06.rawmk4	18_08.rawmk4	19_20.rawmk4	20_22.rawmk4	21_25.rawmk4
17_09.rawmk4	18_14.rawmk4	19_23.rawmk4	20_25.rawmk4	21_28.rawmk4
17_12.rawmk4	18_21.rawmk4	19_26.rawmk4	20_28.rawmk4	21_31.rawmk4
17_15.rawmk4	18_27.rawmk4	19_29.rawmk4	20_31.rawmk4	21_34.rawmk4
17_18.rawmk4	18_30.rawmk4	19_32.rawmk4	20_34.rawmk4	21_37.rawmk4
17_21.rawmk4	18_33.rawmk4	19_35.rawmk4	20_37.rawmk4	21_40.rawmk4
17_24.rawmk4	18_36.rawmk4	19_38.rawmk4	20_40.rawmk4	21_43.rawmk4
17_27.rawmk4	18_39.rawmk4	19_41.rawmk4	20_43.rawmk4	21_45.rawmk4
17_30.rawmk4	18_42.rawmk4	19_44.rawmk4	20_46.rawmk4	21_48.rawmk4
17_33.rawmk4	18_45.rawmk4	19_47.rawmk4	20_49.rawmk4	21_51.rawmk4
17_36.rawmk4	18_48.rawmk4	19_50.rawmk4	20_52.rawmk4	21_54.rawmk4
17_39.rawmk4	18_51.rawmk4	19_53.rawmk4	20_55.rawmk4	21_57.rawmk4
17_42.rawmk4	18_54.rawmk4	19_56.rawmk4	20_58.rawmk4	22_00.rawmk4
17_45.rawmk4	18_57.rawmk4	19_59.rawmk4	21_01.rawmk4	22_03.rawmk4
17_48.rawmk4	19_00.rawmk4	20_02.rawmk4	21_04.rawmk4	22_06.rawmk4
17_51.rawmk4	19_03.rawmk4	20_05.rawmk4	21_07.rawmk4	22_09.rawmk4
17_54.rawmk4	19_05.rawmk4	20_08.rawmk4	21_10.rawmk4	22_12.rawmk4
17_56.rawmk4	19_08.rawmk4	20_11.rawmk4	21_13.rawmk4	c18_11.rawmk4
17_59.rawmk4	19_11.rawmk4	20_14.rawmk4	21_16.rawmk4	c18_17.rawmk4
18_02.rawmk4	19_14.rawmk4	20_17.rawmk4	21_19.rawmk4	c18_24.rawmk4
18_05.rawmk4	19_17.rawmk4	20_20.rawmk4	21_22.rawmk4	