
Mauna Loa Solar Observatory Observer's Log

Sun Feb 17 17:39:12 GMT 2002

Year: 02 Doy: 048

Observer: koon

WEATHER COMMENT: Sun Feb 17 17:39:19 GMT 2002

Clear sky, wind=20 mph from the SE, temp=39 F.

MKIV COMMENT: Sun Feb 17 17:44:00 GMT 2002

Temperature readings started, temp around 12 C.

Sun Feb 17 17:44:34 GMT 2002 MKIV Start Patrol

PSPT COMMENT: Sun Feb 17 18:00:07 GMT 2002

Observing.

Sun Feb 17 18:00:57 GMT 2002 CHIP LSD

Sun Feb 17 18:02:07 GMT 2002 PICS Flat

Sun Feb 17 18:03:20 GMT 2002 CHIP End LSD

Sun Feb 17 18:03:36 GMT 2002 CHIP BiasLSD

Sun Feb 17 18:04:34 GMT 2002 CHIP End BiasLSD

Sun Feb 17 18:04:55 GMT 2002 CHIP Bias

Sun Feb 17 18:05:05 GMT 2002 PICS End Flat

Sun Feb 17 18:05:58 GMT 2002 CHIP End Bias

MKIV COMMENT: Sun Feb 17 18:14:07 GMT 2002

David hasn't seen the signal change as expected, although the trough starts out about 8 C above ambient temperatures and hasn't likely ever been any higher above ambient since we started this testing on 2/6/02. So I'm going to leave the thermo printer in place until we're sure about stopping the temperature readings.

PSPT PROBLEM: Sun Feb 17 18:23:58 GMT 2002

Crashed at 1808 the same way it crashed at 1908 yesterday. I sent the error messages to Alice yesterday. I killed runPspt.pro, ran Pspt, and restarted from "Daily Obs" to fix.

Sun Feb 17 18:51:22 GMT 2002 MKIV End Patrol

Sun Feb 17 18:51:32 GMT 2002 MKIV Start Cal

PSPT PROBLEM: Sun Feb 17 18:51:25 GMT 2002

Keep getting messages about the fast mirror not locking when the program tries to center the solar image. This probably explains the offset image and crashes. I watched the mirror servo drive signals and can see that the mirror is locked although possibly oscillating.

Sun Feb 17 19:02:02 GMT 2002 CHIP LSD

Sun Feb 17 19:04:19 GMT 2002 CHIP End LSD

Sun Feb 17 19:04:31 GMT 2002 CHIP BiasLSD

Sun Feb 17 19:05:34 GMT 2002 CHIP End BiasLSD

Sun Feb 17 19:05:47 GMT 2002 CHIP Bias

Sun Feb 17 19:06:45 GMT 2002 CHIP End Bias

PSPT PROBLEM: Sun Feb 17 19:04:00 GMT 2002

I checked the operation of the fast mirror during a sun centering sequence, I could see that the mirror wasn't oscillating and was locking although the program was saying that it wasn't locking. We are getting marginal data without the fast mirror because the program then decides not to use the fast mirror during the sun centering sequence.

PSPT PROBLEM: Sun Feb 17 19:08:01 GMT 2002

Maybe this problem is related to wind, it has been very windy today and was windy yesterday too.

Sun Feb 17 19:18:59 GMT 2002 MKIV Start Patrol

Sun Feb 17 20:03:00 GMT 2002 CHIP LSD

Sun Feb 17 20:05:22 GMT 2002 CHIP End LSD

Sun Feb 17 20:05:30 GMT 2002 CHIP BiasLSD

Sun Feb 17 20:06:23 GMT 2002 CHIP End BiasLSD

Sun Feb 17 20:06:37 GMT 2002 CHIP Bias

Sun Feb 17 20:07:39 GMT 2002 CHIP End Bias

Sun Feb 17 21:03:03 GMT 2002 CHIP LSD

Sun Feb 17 21:05:30 GMT 2002 CHIP End LSD

Sun Feb 17 21:05:41 GMT 2002 CHIP BiasLSD

Sun Feb 17 21:06:28 GMT 2002 CHIP End BiasLSD

Sun Feb 17 21:06:43 GMT 2002 CHIP Bias

Sun Feb 17 21:07:33 GMT 2002 CHIP End Bias

PSPT PROBLEM: Sun Feb 17 21:27:35 GMT 2002

Stalled at 2120 with the message about "sun too low, go back to bed" and the strange characters on the PC. I reinstalled the version of pspt.exe dated 1/16/02 that requires us to press "Enter" on the PC to get past some stalls but doesn't give us the last type of stall. I watched for the PSPT to stay locked on the sun with the active mirror but it never did today, it would also sometimes say "mirror is oscillating" while trying to setup for a data run but the mirror wasn't oscillating - I checked and didn't hear the typical oscillating tone at the mirror. Maybe the criteria for determining an oscillating mirror needs to be changed. That was with the previous version of pspt.exe that waits 45 minutes before doing something related to a perceived axis problem. Now I have the 1/16/02 version installed and will go start it up.

PSPT PROBLEM: Sun Feb 17 21:39:28 GMT 2002

With this version of pspt.exe the solar image was centered on the first try, no problem or messages about the fast mirror not locking or oscillating. The dome slot is still pointing into the stronger than normal wind, so I would say that the wind probably wasn't the cause of the centering problems earlier. Getting good data now.

Sun Feb 17 22:02:58 GMT 2002 CHIP LSD
Sun Feb 17 22:05:14 GMT 2002 CHIP End LSD
Sun Feb 17 22:05:32 GMT 2002 CHIP BiasLSD
Sun Feb 17 22:06:20 GMT 2002 CHIP End BiasLSD
Sun Feb 17 22:06:36 GMT 2002 CHIP Bias
Sun Feb 17 22:07:22 GMT 2002 CHIP End Bias
Sun Feb 17 22:16:56 GMT 2002 PICS End Patrol
Sun Feb 17 22:17:51 GMT 2002 CHIP End Patrol
Sun Feb 17 22:22:38 GMT 2002 MKIV End Patrol

MKIV COMMENT: Sun Feb 17 23:00:54 GMT 2002

Printer tape was getting low so I installed a new roll.

Sun Feb 17 23:06:40 GMT 2002

MkIV

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| 17_44.rawmk4 | 18_44.rawmk4 | 19_57.rawmk4 | 20_54.rawmk4 | 21_47.rawmk4 |
| 17_50.rawmk4 | 18_48.rawmk4 | 20_00.rawmk4 | 20_56.rawmk4 | 21_49.rawmk4 |
| 17_54.rawmk4 | 18_54.rawmk4 | 20_03.rawmk4 | 20_59.rawmk4 | 21_52.rawmk4 |
| 17_57.rawmk4 | 19_00.rawmk4 | 20_06.rawmk4 | 21_02.rawmk4 | 21_55.rawmk4 |
| 18_00.rawmk4 | 19_06.rawmk4 | 20_08.rawmk4 | 21_05.rawmk4 | 21_58.rawmk4 |
| 18_03.rawmk4 | 19_19.rawmk4 | 20_11.rawmk4 | 21_08.rawmk4 | 22_01.rawmk4 |
| 18_06.rawmk4 | 19_21.rawmk4 | 20_17.rawmk4 | 21_11.rawmk4 | 22_04.rawmk4 |
| 18_09.rawmk4 | 19_24.rawmk4 | 20_21.rawmk4 | 21_14.rawmk4 | 22_07.rawmk4 |
| 18_11.rawmk4 | 19_27.rawmk4 | 20_24.rawmk4 | 21_17.rawmk4 | 22_10.rawmk4 |
| 18_14.rawmk4 | 19_30.rawmk4 | 20_27.rawmk4 | 21_20.rawmk4 | 22_13.rawmk4 |
| 18_17.rawmk4 | 19_33.rawmk4 | 20_30.rawmk4 | 21_23.rawmk4 | 22_16.rawmk4 |
| 18_20.rawmk4 | 19_36.rawmk4 | 20_33.rawmk4 | 21_26.rawmk4 | 22_19.rawmk4 |
| 18_23.rawmk4 | 19_39.rawmk4 | 20_36.rawmk4 | 21_29.rawmk4 | c18_51.rawmk4 |
| 18_26.rawmk4 | 19_42.rawmk4 | 20_39.rawmk4 | 21_32.rawmk4 | c18_57.rawmk4 |
| 18_29.rawmk4 | 19_45.rawmk4 | 20_42.rawmk4 | 21_35.rawmk4 | c19_03.rawmk4 |
| 18_32.rawmk4 | 19_48.rawmk4 | 20_45.rawmk4 | 21_38.rawmk4 | |
| 18_35.rawmk4 | 19_51.rawmk4 | 20_48.rawmk4 | 21_41.rawmk4 | |
| 18_38.rawmk4 | 19_54.rawmk4 | 20_51.rawmk4 | 21_44.rawmk4 | |