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Mauna Loa Solar Observatory Observer's Log  
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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

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	