
Mauna Loa Solar Observatory Observer's Log

Fri Apr 3 16:48:14 GMT 1998

Year: 98 Doy: 093

Observer: yasukawa

WEATHER COMMENT: Fri Apr 3 16:49:04 GMT 1998

Cold, clear, brisk southeast wind.

Fri Apr 3 16:52:16 GMT 1998 CHIP Startup--Initializing new tape

Fri Apr 3 16:52:58 GMT 1998 MKIII Start Patrol

Fri Apr 3 16:54:12 GMT 1998 CHIP CHIP Start Patrol

Fri Apr 3 16:54:24 GMT 1998 PICS Start Patrol

Fri Apr 3 17:01:04 GMT 1998 CHIP Bias

Fri Apr 3 17:02:00 GMT 1998 CHIP End Bias

Fri Apr 3 17:02:15 GMT 1998 CHIP Water

Fri Apr 3 17:02:15 GMT 1998 CHIP Water

Fri Apr 3 17:03:10 GMT 1998 CHIP End Water

Fri Apr 3 17:03:48 GMT 1998 PICS End Flat

PSPT COMMENT: Fri Apr 3 17:08:44 GMT 1998

Haosheng assessed the tape write problem and determined that the problem lies with tape compatibility. The black cartridges work with the drive we sent back to Boulder but DON'T WORK with the new drive. USE THE WHITE CARTRIDGES. We are testing this now.

PSPT COMMENT: Fri Apr 3 17:13:44 GMT 1998

As for the dome problem, We think that the drive motor is jumping the track in the home position sector and the encoder works with the motor (doesn't care where the dome is), counting from when home is sensed. I found the sector--topical grease is scraped off by the drive gear teeth, and coaxed it up a bit with a crowbar.

PSPT COMMENT: Fri Apr 3 17:21:06 GMT 1998

THE dome rotated from Stow to Home OK, then rotated to where sun should be OK without jumping track.

MKIII COMMENT: Fri Apr 3 17:25:54 GMT 1998

*** recycling H01787 ***

PSPT COMMENT: Fri Apr 3 17:35:10 GMT 1998

PSPT crashed. Last messages indicated intensity was too low, but crash messages were as follows:

```
% Variable is undefined: FN
% Execution halted at: DATA 45 data.pro
% PSPT_STARTUP 27 pspt_startup.pro
% PSPT_CONTROL 52 pspt_control.pro
% $MAIN$
```

IDL>

Exited and re Run. Had to type 'exp' on PC to get the 3 initial

test exposures to go. Dome worked OK.
PSPT COMMENT: Fri Apr 3 17:42:49 GMT 1998
PSPT crashed again, same error message.
PSPT COMMENT: Fri Apr 3 17:50:51 GMT 1998
Exited IDL and restarting with 'Obs' instead of 'Run' since it is close to the hour.
Fri Apr 3 18:01:03 GMT 1998 CHIP Bias
PSPT COMMENT: Fri Apr 3 18:01:45 GMT 1998
Same crash. Have sent message to Haosheng. I'll wait for a reply before attempting to startup again.
nd Bias
Fri Apr 3 18:02:31 GMT 1998 CHIP Water
Fri Apr 3 18:03:17 GMT 1998 CHIP End Water
Fri Apr 3 18:03:41 GMT 1998 PICS End Flat
PSPT COMMENT: Fri Apr 3 18:17:19 GMT 1998
Haosheng called back, there was a change he made yesterday to test the drive. A filename was changed and he forgot to restore the system completely. He fixed the problem over the net so I will restart PSPT.
MT 1998 MKIII Start Cal
PSPT COMMENT: Fri Apr 3 18:20:35 GMT 1998
Started with 'Run'. Still had to type 'exp' on PC because the first 3 test exposures did not go. Dome initialized OK.
I can see that the data is writing to the white data cartridge.
PSPT COMMENT: Fri Apr 3 18:26:36 GMT 1998
Guider looks lost. It is trying to home, Axis 0 is trying to go to -500, but the encoder is running the wrong direction.
PSPT COMMENT: Fri Apr 3 18:29:26 GMT 1998
Hit Enter on PC and that routine stopped and started next routine.
I take it spar was Home but didn't know it.
After a couple of iterations, it concluded it was home and then proceeded to point to sun. At this point, the spar began to move.
Spar pointed at sun and program proceeded OK.
PSPT COMMENT: Fri Apr 3 18:38:46 GMT 1998
PSPT guider wasn't pointed at sun. Quit and restarting. Had to type 'exp' on PC again.
PSPT COMMENT: Fri Apr 3 18:44:54 GMT 1998
Phew! finally looks like the PSPT is running correctly (except for having to type 'exp' to start the 3 test exposures).
Fri Apr 3 19:01:08 GMT 1998 CHIP Bias
Fri Apr 3 19:02:19 GMT 1998 PICS Flat
Fri Apr 3 19:02:19 GMT 1998 PICS Flat
Fri Apr 3 19:02:34 GMT 1998 CHIP Water
Fri Apr 3 19:03:20 GMT 1998 CHIP End Water
Fri Apr 3 19:03:52 GMT 1998 PICS End Flat
Fri Apr 3 19:16:05 GMT 1998 PICS End Patrol
Fri Apr 3 19:18:34 GMT 1998 CHIP CHIP End Patrol
COMMENT: Fri Apr 3 19:18:47 GMT 1998

Stopping to reconfigure dome shutter.
 Fri Apr 3 19:24:15 GMT 1998 MKIII Start Patrol
 Fri Apr 3 19:24:39 GMT 1998 PICS Start Patrol
 Fri Apr 3 19:24:39 GMT 1998 PICS Start Patrol
 PSPT COMMENT: Fri Apr 3 19:54:48 GMT 1998
 Data tape started by Haaosheng over net pau. Unloading and loading
 next tape for overnight write.
 Fri Apr 3 20:01:04 GMT 1998 CHIP Gain
 Fri Apr 3 20:02:02 GMT 1998 PICS Flat
 MKIII COMMENT: Fri Apr 3 20:03:32 GMT 1998
 1956 UT scan had a blank sector, not sure why.
 Ugh! I think microprocessor crashed again, barrel is behaving badly.
 Unloading H01788, loading H01789. Resetting KCC and micro.
 :22 GMT 1998 CHIP Bias
 Fri Apr 3 20:08:14 GMT 1998 CHIP End Bias
 Fri Apr 3 20:08:22 GMT 1998 CHIP Water
 Fri Apr 3 20:09:00 GMT 1998 CHIP End Water
 Fri Apr 3 20:16:35 GMT 1998 MKIII Start Patrol
 Fri Apr 3 21:01:04 GMT 1998 CHIP Bias
 Fri Apr 3 21:02:06 GMT 1998 CHIP End Bias
 Fri Apr 3 21:02:16 GMT 1998 PICS Flat
 Fri Apr 3 21:02:16 GMT 1998 PICS Flat
 Fri Apr 3 21:03:10 GMT 1998 CHIP End Water
 Fri Apr 3 21:03:47 GMT 1998 PICS End Flat
 Fri Apr 3 22:01:03 GMT 1998 CHIP Bias
 Fri Apr 3 22:02:03 GMT 1998 CHIP End Bias
 Fri Apr 3 22:02:12 GMT 1998 PICS Flat
 Fri Apr 3 22:02:20 GMT 1998 CHIP Water
 Fri Apr 3 22:03:13 GMT 1998 CHIP End Water
 Fri Apr 3 22:03:48 GMT 1998 PICS End Flat
 Fri Apr 3 22:08:45 GMT 1998 PICS End Patrol
 Fri Apr 3 22:09:36 GMT 1998 CHIP CHIP End Patrol
 Fri Apr 3 22:10:42 GMT 1998 CHIP ending tape
 COMMENT: Fri Apr 3 22:11:26 GMT 1998

Tapes:
 MKIII: H01788 & H01789
 PICS: P01158
 CHIP: C00547
 LOWL: L00505

Fri Apr 3 22:12:37 GMT 1998
 MkIII

16_53.rawmk3	17_51.rawmk3	19_03.rawmk3	20_25.rawmk3	21_24.rawmk3
16_56.rawmk3	17_54.rawmk3	19_06.rawmk3	20_28.rawmk3	21_27.rawmk3
16_59.rawmk3	17_57.rawmk3	19_09.rawmk3	20_31.rawmk3	21_29.rawmk3
17_02.rawmk3	18_00.rawmk3	19_12.rawmk3	20_34.rawmk3	21_32.rawmk3

17_04.rawmk3	18_03.rawmk3	19_15.rawmk3	20_37.rawmk3	21_35.rawmk3
17_07.rawmk3	18_06.rawmk3	19_24.rawmk3	20_40.rawmk3	21_38.rawmk3
17_10.rawmk3	18_09.rawmk3	19_27.rawmk3	20_43.rawmk3	21_41.rawmk3
17_13.rawmk3	18_12.rawmk3	19_30.rawmk3	20_46.rawmk3	21_44.rawmk3
17_16.rawmk3	18_21.rawmk3	19_33.rawmk3	20_49.rawmk3	21_47.rawmk3
17_19.rawmk3	18_27.rawmk3	19_36.rawmk3	20_51.rawmk3	21_50.rawmk3
17_22.rawmk3	18_34.rawmk3	19_38.rawmk3	20_54.rawmk3	21_53.rawmk3
17_25.rawmk3	18_37.rawmk3	19_41.rawmk3	20_57.rawmk3	21_56.rawmk3
17_28.rawmk3	18_40.rawmk3	19_44.rawmk3	21_00.rawmk3	21_59.rawmk3
17_31.rawmk3	18_43.rawmk3	19_47.rawmk3	21_03.rawmk3	22_02.rawmk3
17_34.rawmk3	18_46.rawmk3	19_50.rawmk3	21_06.rawmk3	22_05.rawmk3
17_37.rawmk3	18_49.rawmk3	19_53.rawmk3	21_09.rawmk3	c18_18.rawmk3
17_40.rawmk3	18_51.rawmk3	19_56.rawmk3	21_12.rawmk3	c18_24.rawmk3
17_42.rawmk3	18_54.rawmk3	20_16.rawmk3	21_15.rawmk3	c18_31.rawmk3
17_45.rawmk3	18_57.rawmk3	20_19.rawmk3	21_18.rawmk3	
17_48.rawmk3	19_00.rawmk3	20_22.rawmk3	21_21.rawmk3	