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Mauna Loa Solar Observatory Observer's Log  
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Tue Nov 24 16:50:57 GMT 1998

Year: 98 Doy: 328

Observer: yasukawa

WEATHER COMMENT: Tue Nov 24 16:51:57 GMT 1998

Cold, clear (finally!), brisk southeast wind.

Tue Nov 24 16:57:43 GMT 1998 CHIP Startup--Initializing new tape

COMMENT: Tue Nov 24 16:59:51 GMT 1998

Waiting for sky transmission telescope to clear dome wall.

Tue Nov 24 17:06:17 GMT 1998 CHIP CHIP Start Patrol

Tue Nov 24 17:06:29 GMT 1998 PICS Start Patrol

PSPT COMMENT: Tue Nov 24 17:08:40 GMT 1998

Set up thermoprinter date and time, set print rate at 1-minute intervals, set to centigrade scale. Started temperature monitoring.

\*\*PICS PROBLEM\*\*: Tue Nov 24 17:16:13 GMT 1998

Optics problem, Objective wheel is not working properly, Status is crashed in Pending.

\*\*PICS PROBLEM\*\*: Tue Nov 24 17:20:05 GMT 1998

Kill/moved Objective wheel to diffuser, then to clear/Run.

This got rid of RED condition on Obj. Wheel status.

Tue Nov 24 17:23:32 GMT 1998 MKIII Start Patrol

Tue Nov 24 17:24:26 GMT 1998 PICS Start Patrol

\*\*PICS PROBLEM\*\*: Tue Nov 24 17:27:08 GMT 1998

Program stuck in Init, did another Kill/Run.

Tue Nov 24 17:28:44 GMT 1998 PICS Start Patrol

\*\*PICS PROBLEM\*\*: Tue Nov 24 17:29:04 GMT 1998

OK, now it is running OK.

PSPT COMMENT: Tue Nov 24 17:30:33 GMT 1998

Started PSPT.

\*\*PSPT PROBLEM\*\*: Tue Nov 24 17:43:45 GMT 1998

Mirror servo not locking onto sun. Tried moving spar manually, but

Y error was still out of range. Restarting Run.

\*\*PSPT PROBLEM\*\*: Tue Nov 24 17:54:13 GMT 1998

Still not locking onto sun. Quit and this time reset PC and PSPT chassis.

Trying Run again.

Tue Nov 24 18:00:51 GMT 1998 CHIP Bias

Tue Nov 24 18:01:44 GMT 1998 CHIP End Bias

Tue Nov 24 18:01:54 GMT 1998 CHIP Water

Tue Nov 24 18:02:37 GMT 1998 PICS Flat

Tue Nov 24 18:02:47 GMT 1998 CHIP End Water

Tue Nov 24 18:04:12 GMT 1998 PICS End Flat

\*\*PSPT PROBLEM\*\*: Tue Nov 24 18:10:24 GMT 1998

Run failed again. Closed it down and alerted Haosheng. Left PSPT in stowed position, IDL exited. Turning off thermoprinter print function.

Tue Nov 24 18:15:14 GMT 1998 MKIII Start Cal

Tue Nov 24 18:35:25 GMT 1998 MKIII Start Patrol  
Tue Nov 24 19:00:55 GMT 1998 CHIP Bias  
Tue Nov 24 19:02:09 GMT 1998 CHIP End Bias  
Tue Nov 24 19:02:19 GMT 1998 CHIP Water  
Tue Nov 24 19:02:29 GMT 1998 PICS Flat  
Tue Nov 24 19:02:59 GMT 1998 CHIP End Water  
Tue Nov 24 19:03:56 GMT 1998 PICS End Flat

\*\*PSPT PROBLEM\*\* : Tue Nov 24 19:20:36 GMT 1998

Tried Run again, no luck. Standing by with instrument stowed. Appears that the mirror drive is not working. When I check the solar image at the mirror, the image was way off. I did not detect the mirror vibrating to correct mispoint. When pointed close to alignment, the Y meter on the servo chassis shows an error but when switched to drive mode, there is no drive signal trying to correct the error.

Tue Nov 24 20:00:47 GMT 1998 CHIP Gain  
Tue Nov 24 20:02:29 GMT 1998 PICS Flat  
Tue Nov 24 20:04:02 GMT 1998 PICS End Flat  
Tue Nov 24 20:05:18 GMT 1998 CHIP End Gain  
Tue Nov 24 20:05:34 GMT 1998 CHIP Bias  
Tue Nov 24 20:06:39 GMT 1998 CHIP End Bias  
Tue Nov 24 20:06:49 GMT 1998 CHIP Water  
Tue Nov 24 20:07:24 GMT 1998 CHIP End Water

\*\*PSPT PROBLEM\*\* : Tue Nov 24 20:54:47 GMT 1998

Haosheng determined that the spar is probably hitting the south limit in declination. The "notch" was not machined wide enough and it is set so we could reach the north dec extreme at the expense of the south extreme. In inspecting the limit ring, the sensor is indeed looking at one edge of the notch. Haosheng is trying a bunch of maneuvers remotely but we may have to physically move the ring and re-calibrate the ephemeris to get by this problem until NOAO makes a new ring.

Tue Nov 24 21:01:48 GMT 1998 CHIP Bias  
Tue Nov 24 21:02:34 GMT 1998 PICS Flat  
Tue Nov 24 21:02:43 GMT 1998 CHIP End Bias  
Tue Nov 24 21:02:52 GMT 1998 CHIP Water  
Tue Nov 24 21:03:29 GMT 1998 CHIP End Water  
Tue Nov 24 21:04:02 GMT 1998 PICS End Flat

\*\*PSPT PROBLEM\*\* : Tue Nov 24 21:31:24 GMT 1998

Moved dec ring approximately 5 degrees south. Running ephemeris calibration to align guider with the new limits.

\*\*PSPT PROBLEM\*\* : Tue Nov 24 21:36:54 GMT 1998

guider ephmcal is pau. Trying Run.

PSPT COMMENT: Tue Nov 24 21:38:36 GMT 1998

I will not continue thermoprinter today. We will resume temperature monitoring tomorrow or next clear day.

PSPT COMMENT: Tue Nov 24 21:47:23 GMT 1998

PSPT is working! I think date and time will hold on the thermoprinter as long as there are batteries installed. The print interval needs

to be set each time power is turned off. Low battery icon is displaying so I will send up a set of batteries tomorrow. Paper supply should also be checked as the 1-minute cadence will eat up a lot of paper.

Tue Nov 24 22:00:49 GMT 1998 CHIP Bias  
Tue Nov 24 22:01:46 GMT 1998 CHIP End Bias  
Tue Nov 24 22:02:08 GMT 1998 CHIP Water  
Tue Nov 24 22:02:35 GMT 1998 PICS Flat  
Tue Nov 24 22:02:48 GMT 1998 CHIP End Water  
Tue Nov 24 22:04:06 GMT 1998 PICS End Flat  
Tue Nov 24 22:06:27 GMT 1998 CHIP CHIP End Patrol  
Tue Nov 24 22:08:26 GMT 1998 MKIII End Patrol  
Tue Nov 24 22:08:04 GMT 1998 CHIP ending tape  
Tue Nov 24 22:08:28 GMT 1998 PICS End Patrol  
COMMENT: Tue Nov 24 22:10:07 GMT 1998

Tapes:

MKIV: MKIV-98328  
PICS: P01341  
CHIP: C00728  
LOWL: L00558 in drive 0  
Tue Nov 24 22:14:01 GMT 1998  
MkIII

17_23.rawmk3	18_32.rawmk3	19_30.rawmk3	20_28.rawmk3	21_26.rawmk3
17_26.rawmk3	18_35.rawmk3	19_33.rawmk3	20_31.rawmk3	21_29.rawmk3
17_30.rawmk3	18_38.rawmk3	19_36.rawmk3	20_34.rawmk3	21_33.rawmk3
17_33.rawmk3	18_42.rawmk3	19_40.rawmk3	20_38.rawmk3	21_36.rawmk3
17_36.rawmk3	18_45.rawmk3	19_43.rawmk3	20_41.rawmk3	21_39.rawmk3
17_39.rawmk3	18_48.rawmk3	19_46.rawmk3	20_44.rawmk3	21_42.rawmk3
17_43.rawmk3	18_51.rawmk3	19_49.rawmk3	20_47.rawmk3	21_45.rawmk3
17_46.rawmk3	18_54.rawmk3	19_53.rawmk3	20_51.rawmk3	21_49.rawmk3
17_49.rawmk3	18_58.rawmk3	19_56.rawmk3	20_54.rawmk3	21_52.rawmk3
17_52.rawmk3	19_01.rawmk3	19_59.rawmk3	20_57.rawmk3	21_55.rawmk3
17_55.rawmk3	19_04.rawmk3	20_02.rawmk3	21_00.rawmk3	21_58.rawmk3
17_59.rawmk3	19_07.rawmk3	20_05.rawmk3	21_04.rawmk3	22_02.rawmk3
18_02.rawmk3	19_11.rawmk3	20_09.rawmk3	21_07.rawmk3	22_05.rawmk3
18_05.rawmk3	19_14.rawmk3	20_12.rawmk3	21_10.rawmk3	c18_15.rawmk3
18_08.rawmk3	19_17.rawmk3	20_15.rawmk3	21_13.rawmk3	c18_22.rawmk3
18_12.rawmk3	19_20.rawmk3	20_18.rawmk3	21_16.rawmk3	c18_28.rawmk3
18_18.rawmk3	19_24.rawmk3	20_22.rawmk3	21_20.rawmk3	
18_25.rawmk3	19_27.rawmk3	20_25.rawmk3	21_23.rawmk3	