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Mauna Loa Solar Observatory Observer's Log  
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Sun Apr 5 17:00:09 GMT 1998

Year: 98 Doy: 095

Observer: koon

WEATHER COMMENT: Sun Apr 5 17:00:10 GMT 1998

Clear sky, wind=15 mph from the SE, temp=44 F.

Sun Apr 5 17:00:56 GMT 1998 CHIP Startup--Initializing new tape

Sun Apr 5 17:07:25 GMT 1998 MKIII Start Patrol

Sun Apr 5 17:07:31 GMT 1998 PICS Start Patrol

Sun Apr 5 17:07:31 GMT 1998 PICS Start Patrol

PSPT COMMENT: Sun Apr 5 17:55:15 GMT 1998

Telescope wasn't pointed at the sun, pressed q to quit, exited IDL, then had to use Run to start over.

Sun Apr 5 18:00:15 GMT 1998 PICS Flat

Sun Apr 5 18:01:47 GMT 1998 PICS End Flat

Sun Apr 5 18:02:05 GMT 1998 CHIP Bias

Sun Apr 5 18:03:03 GMT 1998 CHIP End Bias

Sun Apr 5 18:03:21 GMT 1998 CHIP Water

Sun Apr 5 18:04:10 GMT 1998 CHIP End Water

Sun Apr 5 19:00:18 GMT 1998 PICS Flat

Sun Apr 5 19:01:47 GMT 1998 PICS End Flat

Sun Apr 5 19:02:10 GMT 1998 CHIP Bias

Sun Apr 5 19:03:21 GMT 1998 CHIP End Bias

Sun Apr 5 19:03:31 GMT 1998 CHIP Water

Sun Apr 5 19:04:19 GMT 1998 CHIP End Water

Sun Apr 5 19:17:54 GMT 1998 MKIII Start Cal

Sun Apr 5 20:00:18 GMT 1998 PICS Flat

Sun Apr 5 20:01:50 GMT 1998 PICS End Flat

Sun Apr 5 20:02:03 GMT 1998 CHIP Gain

PSPT COMMENT: Sun Apr 5 20:04:13 GMT 1998

Lots of trouble trying to get the observing started. After I "quit" the last problem noted in the log the screen started showing an apparently endless list of "counter timeout" messages. At first I waited, hoping this was something that would clear up, it didn't. I opened another xterm window and killed the Run task to get control again. Then I tried Run several times and would end up in the same position as the first problem I mentioned where you have to press q to quit. The telescope never pointed at the sun correctly. Then I tried resetting the PC and tried Run again, that too would lead to having to type q to get out of the endless loop, but the telescope seemed to point closer to the sun. Then I tried cycling the rack power and then tried Run, that too lead to the endless loop.

PSPT COMMENT: Sun Apr 5 20:25:58 GMT 1998

The last time I tried Run I noticed a message scroll by on the PC screen that said that the mirror servo was off, along with a few other things that were off. I'm not sure if this is normal at that point of the startup

but the green LED on the front of the mirror servo rack doesn't come on either. I sent e-mail asking Haosheng to call me up so I can ask him a few questions, in the mean time I'll keep trying different things.

PSPT COMMENT: Sun Apr 5 20:57:43 GMT 1998

Still no luck with this. It looks like everything is working OK but the telescope is pointing to the wrong place. It points to the coordinates that are requested on the screen but that isn't where the sun is. Its as if the ephemeris is wrong because it will point to where the sun was an hour or two earlier. I used Obs to check the time and it is correct so it isn't pointing to the wrong place due to the wrong system time. The only other thing I can think of is maybe the RA and Dec initializations haven't worked the last 6 or 7 times that I tried Run.

Sun Apr 5 21:03:25 GMT 1998 CHIP End Bias

Sun Apr 5 21:03:40 GMT 1998 CHIP Water

Sun Apr 5 21:04:36 GMT 1998 CHIP End Water

PSPT COMMENT: Sun Apr 5 21:05:26 GMT 1998

In a last ditch effort before consulting with Haosheng I used Obs to exit and stow the telescope and the dome, then turned off everything including the PC, then rebooted the Sparcstation, then I turned on the PC, then I turned on everything else as if I were starting in the morning.

Again the telescope doesn't point to the correct position but it points where it is told to point. Also, regarding questions I had earlier, I did see the mirror servo light go on and off when it should have and those messages I saw about things being off are apparently normal and are shown whenever those devices are turned off as scheduled. So the most likely problem is the ephemeris calculations, tomorrow is the start of daylight savings time but I doubt that was factored in anywhere since that doesn't affect GMT which is what the ephemeris probably uses. Secondly I guess the initialization of the RA and Dec could be incorrect but I doubt it. I can't go any further with this today unless Haosheng calls. Maybe if this is an ephemeris problem it will clear up with a change in date, as some of the old LOWL problems did.

COMMENT: Sun Apr 5 21:27:43 GMT 1998

I extended the dome about 20 minutes ago, late due to PSPT problems distracting my attention.

Sun Apr 5 22:01:18 GMT 1998 PICS Flat

Sun Apr 5 22:02:02 GMT 1998 CHIP Bias

Sun Apr 5 22:02:47 GMT 1998 PICS End Flat

Sun Apr 5 22:03:04 GMT 1998 CHIP End Bias

Sun Apr 5 22:03:18 GMT 1998 CHIP Water

Sun Apr 5 22:04:08 GMT 1998 CHIP End Water

Sun Apr 5 22:28:13 GMT 1998 PICS End Patrol

Sun Apr 5 22:28:40 GMT 1998 CHIP CHIP End Patrol

Sun Apr 5 22:31:10 GMT 1998 CHIP ending tape

COMMENT: Sun Apr 5 22:33:27 GMT 1998

TAPES:

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MKIII: H01791  
PICS: P01160  
CHIP: C00549  
LOWL: L00505 in drive #0

Sun Apr 5 22:36:22 GMT 1998  
MkIII

17_07.rawmk3	18_12.rawmk3	19_33.rawmk3	20_37.rawmk3	21_42.rawmk3
17_10.rawmk3	18_14.rawmk3	19_36.rawmk3	20_40.rawmk3	21_45.rawmk3
17_13.rawmk3	18_17.rawmk3	19_39.rawmk3	20_43.rawmk3	21_47.rawmk3
17_16.rawmk3	18_20.rawmk3	19_42.rawmk3	20_46.rawmk3	21_50.rawmk3
17_19.rawmk3	18_23.rawmk3	19_45.rawmk3	20_49.rawmk3	21_53.rawmk3
17_22.rawmk3	18_26.rawmk3	19_48.rawmk3	20_52.rawmk3	21_56.rawmk3
17_25.rawmk3	18_29.rawmk3	19_51.rawmk3	20_55.rawmk3	21_59.rawmk3
17_28.rawmk3	18_32.rawmk3	19_54.rawmk3	20_58.rawmk3	22_02.rawmk3
17_31.rawmk3	18_35.rawmk3	19_56.rawmk3	21_01.rawmk3	22_05.rawmk3
17_33.rawmk3	18_38.rawmk3	19_59.rawmk3	21_04.rawmk3	22_08.rawmk3
17_36.rawmk3	18_41.rawmk3	20_02.rawmk3	21_07.rawmk3	22_11.rawmk3
17_39.rawmk3	18_44.rawmk3	20_05.rawmk3	21_10.rawmk3	22_14.rawmk3
17_42.rawmk3	18_47.rawmk3	20_08.rawmk3	21_12.rawmk3	22_17.rawmk3
17_45.rawmk3	18_50.rawmk3	20_11.rawmk3	21_15.rawmk3	22_20.rawmk3
17_48.rawmk3	18_52.rawmk3	20_14.rawmk3	21_18.rawmk3	22_23.rawmk3
17_51.rawmk3	18_55.rawmk3	20_17.rawmk3	21_21.rawmk3	22_25.rawmk3
17_54.rawmk3	18_58.rawmk3	20_20.rawmk3	21_24.rawmk3	22_28.rawmk3
17_57.rawmk3	19_01.rawmk3	20_23.rawmk3	21_27.rawmk3	c19_17.rawmk3
18_00.rawmk3	19_04.rawmk3	20_26.rawmk3	21_30.rawmk3	c19_24.rawmk3
18_03.rawmk3	19_07.rawmk3	20_29.rawmk3	21_33.rawmk3	c19_30.rawmk3
18_06.rawmk3	19_21.rawmk3	20_32.rawmk3	21_36.rawmk3	
18_09.rawmk3	19_27.rawmk3	20_34.rawmk3	21_39.rawmk3	