
Mauna Loa Solar Observatory Observer's Log

Sun Dec 11 17:22:03 GMT 2005

Year: 05 Doy: 345

Observer: koon

WEATHER COMMENT: Sun Dec 11 17:22:07 GMT 2005

Clear sky, wind =5 mph from the SE, temp=38F.

____end____

****MLSO PROBLEM****: Sun Dec 11 17:27:42 GMT 2005

Spar guider isn't locking onto sun, first noticed while up in dome pointing telescope, also noticed a filter over the Guider Telescope. Repeated resets aren't helping. Will read logs and email to see what is in progress before trying anything else to get guider working and starting observations.

____end____

****MLSO PROBLEM****: Sun Dec 11 17:34:38 GMT 2005

It looks like guiding is stable now, will start obs, it did take several repointing/reset cycles though.

____end____

Sun Dec 11 17:36:08 GMT 2005 MKIV Start Patrol

Sun Dec 11 17:38:46 GMT 2005 CHIP Start Patrol

Sun Dec 11 17:39:07 GMT 2005 PICS Start Patrol

PSPT COMMENT: Sun Dec 11 18:04:03 GMT 2005

Observing.

____end____

****PICS PROBLEM****: Sun Dec 11 18:04:35 GMT 2005

Stalled with Optics:Busy and Sync:40,42. Did a Kill/Run cycle to fix.

____end____

****CHIP PROBLEM****: Sun Dec 11 18:08:00 GMT 2005

Stalled also with Optics:Busy, did a Kill/Run cycle to fix.

____end____

PSPT COMMENT: Sun Dec 11 18:22:31 GMT 2005

Wasn't exited from IDL this morning like usual, exited before starting Pspt.

____end____

Sun Dec 11 18:29:30 GMT 2005 MKIV End Patrol

Sun Dec 11 18:29:43 GMT 2005 MKIV Start Cal

Sun Dec 11 18:36:00 GMT 2005 PICS Start Patrol

Sun Dec 11 18:40:05 GMT 2005 CHIP Start Patrol

****PICS PROBLEM****: Sun Dec 11 18:35:43 GMT 2005

The Kill/Run cycle didn't fix the problem, it kept giving the message about the Mechanism Control Computer not being ready. I first rebooted Nene but that didn't fix it, cycling power to the MCC did fix the problem. This morning when I logged in I noticed that someone had logged into Nene, Kii, and Nahenahe about 4:05 am on 12/10 GMT, that would be about 6:05 pm last night NSToops that is HST (Hawaiian Standard Time), not NST. Observations appear to be back to normal.

____end____

****CHIP PROBLEM****: Sun Dec 11 18:41:34 GMT 2005

Same recovery as noted for PICS, see comment above.

____end____

Sun Dec 11 18:49:05 GMT 2005 MKIV End Cal

Sun Dec 11 19:08:49 GMT 2005 PICS End Patrol

****PICS PROBLEM****: Sun Dec 11 19:08:49 GMT 2005

Halle filter isn't being moved out for limb images, pausing obs to check it.

____end____

Sun Dec 11 19:25:45 GMT 2005 CHIP End Patrol

****PICS PROBLEM****: Sun Dec 11 19:24:00 GMT 2005

Found cable-chain off of gears, and possibly a bad actuator for the In limit switch, switches seems normal. I need to stop obs and position the spar differently to be able to work on the problem. Pausing spar instruments for a while.

____end____

Sun Dec 11 19:31:21 GMT 2005 MKIV End Patrol

Sun Dec 11 21:24:17 GMT 2005 MKIV Start Patrol

Sun Dec 11 21:24:53 GMT 2005 CHIP Start Patrol

Sun Dec 11 21:25:19 GMT 2005 PICS Start Patrol

****PICS PROBLEM****: Sun Dec 11 21:25:30 GMT 2005

I see 2 possible causes of the problem. The first possibility is the one I concentrated on and made some changes to, it looked like the IN limit switch for the Halle filter was activating too close to the end of possible stage travel, thus if it overdrove just maybe 10-20 degrees revolution of the stage drive leadscrew then the stage limit was met and the possible torque from the drive motor was getting transformed into an outward stress on the leadscrew bearing at the cable-chain side, eventually that drove the bearing out and then the leadscrew followed enough to loosen the cable-chain tension to the point where the cable-chain jumped off the gears, that would leave the Halle undrivable. So working on that assumption I removed the IN limit switch actuator tab and reversed the orientation to allow better switch actuation and better adjustability. I remounted that tab without the adjustment screw since it is unnecessary and won't work with that orientation. That gave about 180 degrees of rotation to the leadscrew after IN switch activation before stage end limit. Reassembled it all and it works fine.

The other possibility is that the leadscrew slowly works its bearing out of place from normal wear and tear. I'll monitor that possibility over time.

___end___

MKIV COMMENT: Sun Dec 11 21:45:26 GMT 2005

It looks like the scan images are noticeably better than they have been recently, probably due to the better guiding due to the filter over the guider telescope.

___end___

A NEW PSPT EXABYTE IS LOADED ON KENOBI Sun Dec 11 21:54:53 GMT 2005

PSPT PROBLEM : Sun Dec 11 21:54:56 GMT 2005

Crashed at 1948 with "Set wavelength CAK narrow" message, restarted. Didn't get it right away due to being busy with other problems.

___end___

A NEW TAPE HAS BEEN PUT INTO KAIEE DLT DRIVE, Sun Dec 11 21:58:10 GMT 2005

Mon Dec 12 02:22:41 GMT 2005 CHIP End Patrol

Mon Dec 12 02:23:17 GMT 2005 PICS End Patrol

Mon Dec 12 02:24:18 GMT 2005 MKIV End Patrol

NICE MK4 IMAGE: 1802

NICE PICSDISC IMAGE: 1851

NICE PICSLIMB IMAGE: 2144

NICE CHIP IMAGE: 1919

Mon Dec 12 02:36:43 GMT 2005

MkIV

00_00.rawmk4	01_22.rawmk4	17_56.rawmk4	21_27.rawmk4	22_49.rawmk4
00_03.rawmk4	01_25.rawmk4	17_59.rawmk4	21_30.rawmk4	22_52.rawmk4
00_05.rawmk4	01_28.rawmk4	18_02.rawmk4	21_33.rawmk4	22_55.rawmk4
00_08.rawmk4	01_31.rawmk4	18_05.rawmk4	21_36.rawmk4	22_58.rawmk4
00_11.rawmk4	01_34.rawmk4	18_08.rawmk4	21_38.rawmk4	23_01.rawmk4
00_14.rawmk4	01_37.rawmk4	18_11.rawmk4	21_41.rawmk4	23_04.rawmk4
00_17.rawmk4	01_39.rawmk4	18_14.rawmk4	21_44.rawmk4	23_07.rawmk4
00_20.rawmk4	01_42.rawmk4	18_17.rawmk4	21_47.rawmk4	23_10.rawmk4
00_23.rawmk4	01_45.rawmk4	18_20.rawmk4	21_50.rawmk4	23_13.rawmk4
00_26.rawmk4	01_48.rawmk4	18_23.rawmk4	21_53.rawmk4	23_15.rawmk4
00_29.rawmk4	01_51.rawmk4	18_26.rawmk4	21_56.rawmk4	23_18.rawmk4
00_32.rawmk4	01_54.rawmk4	18_32.rawmk4	21_59.rawmk4	23_21.rawmk4
00_35.rawmk4	01_57.rawmk4	18_38.rawmk4	22_02.rawmk4	23_24.rawmk4
00_38.rawmk4	02_00.rawmk4	18_49.rawmk4	22_05.rawmk4	23_27.rawmk4
00_41.rawmk4	02_03.rawmk4	18_52.rawmk4	22_08.rawmk4	23_30.rawmk4
00_44.rawmk4	02_06.rawmk4	18_55.rawmk4	22_11.rawmk4	23_33.rawmk4
00_47.rawmk4	02_09.rawmk4	18_58.rawmk4	22_14.rawmk4	23_36.rawmk4
00_50.rawmk4	02_12.rawmk4	19_01.rawmk4	22_17.rawmk4	23_39.rawmk4
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00_55.rawmk4	02_18.rawmk4	19_07.rawmk4	22_23.rawmk4	23_45.rawmk4
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01_01.rawmk4	17_36.rawmk4	19_13.rawmk4	22_28.rawmk4	23_51.rawmk4
01_04.rawmk4	17_39.rawmk4	19_16.rawmk4	22_31.rawmk4	23_54.rawmk4
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01_10.rawmk4	17_45.rawmk4	19_22.rawmk4	22_37.rawmk4	c18_29.rawmk4
01_13.rawmk4	17_47.rawmk4	19_25.rawmk4	22_40.rawmk4	c18_35.rawmk4
01_16.rawmk4	17_50.rawmk4	19_28.rawmk4	22_43.rawmk4	c18_42.rawmk4

01_19.rawmk4 17_53.rawmk4 21_24.rawmk4 22_46.rawmk4