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--------------------------------------------------------------------------------
                 Mauna Loa Solar Observatory Observer's Log
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         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
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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 one 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 junped off the gea
rs, 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

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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
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