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Mauna Loa Solar Observatory Observer's Log  
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Thu Sep 30 16:50:16 GMT 1999

Year: 99 Doy: 273

Observer: koon

Thu Sep 30 16:53:00 GMT 1999 MKIV Start Patrol

WEATHER COMMENT: Thu Sep 30 16:53:07 GMT 1999

Clear sky, wind=10 mph from the SE, temp=48 F.

atrol

Thu Sep 30 16:53:24 GMT 1999 PICS Start Patrol

Thu Sep 30 17:03:05 GMT 1999 CHIP Bias

Thu Sep 30 17:04:05 GMT 1999 CHIP End Bias

Thu Sep 30 17:04:19 GMT 1999 CHIP Water

Thu Sep 30 17:05:06 GMT 1999 CHIP End Water

Thu Sep 30 17:13:40 GMT 1999 MKIV End Patrol

Thu Sep 30 17:24:19 GMT 1999 MKIV Start Patrol

Thu Sep 30 17:31:16 GMT 1999 MKIV End Patrol

COMMENT: Thu Sep 30 17:47:41 GMT 1999

Pausing observations to work on MKIV stuff.

Patrol

Thu Sep 30 17:48:23 GMT 1999 PICS End Patrol

\*\*PSPT PROBLEM\*\*: Thu Sep 30 18:14:19 GMT 1999

The telescope came up on the sun OK, it is taking data, the image is just slightly to the lefty of center. It looks like the Quadcell stage is in the same Y position, I will watch this during the calibration to see if it will actually move. I will probably stop the observing later to try to align the guiding system.

\*\*PSPT PROBLEM\*\*: Thu Sep 30 19:07:56 GMT 1999

I could see the Y direction movement of the Quadcell, so it does move on command. Yesterday I used the "xys goto ..." command without success on that axis (X axis worked). I'll try the "axis # goto" today.

\*\*PSPT PROBLEM\*\*: Thu Sep 30 19:33:54 GMT 1999

There were some fuzzy images taken during the flat section of the cal. Bumping the spar can cause the fast mirror to go unstable, and bumping it again in the correct direction can also make it stop. I'll try turning down the gain(s) once I figure out where they are.

Thu Sep 30 19:52:30 GMT 1999 MKIV Start Correct

Thu Sep 30 19:53:47 GMT 1999 MKIV End Correct

Thu Sep 30 19:53:53 GMT 1999 MKIV Start Patrol

Thu Sep 30 20:00:42 GMT 1999 MKIV End Patrol

Thu Sep 30 20:09:52 GMT 1999 MKIV Start Cal

Thu Sep 30 20:23:38 GMT 1999 CHIP CHIP Start Patrol

Thu Sep 30 20:23:50 GMT 1999 PICS Start Patrol

Thu Sep 30 20:31:31 GMT 1999 MKIV End Cal

Thu Sep 30 20:36:12 GMT 1999 MKIV Start Patrol

Thu Sep 30 20:50:19 GMT 1999 MKIV End Patrol

Thu Sep 30 20:56:55 GMT 1999 MKIV Start Patrol

MKIV COMMENT: Thu Sep 30 20:58:36 GMT 1999

Slit mask test using opal.

Thu Sep 30 21:03:05 GMT 1999 CHIP Bias

Thu Sep 30 21:03:52 GMT 1999 MKIV End Patrol

Thu Sep 30 21:04:10 GMT 1999 CHIP End Bias

Thu Sep 30 21:04:26 GMT 1999 CHIP Water

Thu Sep 30 21:05:18 GMT 1999 CHIP End Water

Thu Sep 30 21:12:56 GMT 1999 MKIV Start Patrol

MKIV COMMENT: Thu Sep 30 21:26:00 GMT 1999

MkIII PAU

\*\*PSPT PROBLEM\*\*: Thu Sep 30 21:33:27 GMT 1999

I'm trying to get the quadcell and ccd aligned but have run into problems, waiting for Haosheng to call back. I was able to get manual images but can't display them.

Thu Sep 30 21:45:27 GMT 1999 MKIV End Patrol

Thu Sep 30 22:03:01 GMT 1999 CHIP Bias

Thu Sep 30 22:03:58 GMT 1999 CHIP End Bias

Thu Sep 30 22:04:08 GMT 1999 CHIP Water

Thu Sep 30 22:04:57 GMT 1999 CHIP End Water

\*\*PSPT PROBLEM\*\*: Thu Sep 30 22:15:56 GMT 1999

I actually have some time to work on this but since it was stalled and Haosheng couldn't get back to me I cycled the Sparc power to clear the stall, brute force but it has been done before without any problems. Then I tried a few more times unsuccessfully to get images on the display. Then I lined up the beamsplitter on the lens by eye while the guider servo was on, then ran an ephmcal. I'll have to try Haosheng's suggestions another day when I can talk to him as I try them. For now I'll try one more data set to make sure it works for tomorrow. There is still no easy way to do a small data set when starting obs from scratch so I have to get it going now at the expense of doing more on the guiding troubleshooting. So besides the ephmcal the only thing I changed was the mirror software gains, they were at -25 and I turned those gains down (smaller absolute value) to -10.

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Thu Sep 30 22:44:46 GMT 1999    MKIV    Start Cal
Thu Sep 30 23:03:02 GMT 1999    CHIP    Bias
Thu Sep 30 23:04:00 GMT 1999    CHIP    End Bias
Thu Sep 30 23:04:09 GMT 1999    CHIP    Water
Thu Sep 30 23:04:55 GMT 1999    CHIP    End Water
Thu Sep 30 23:05:08 GMT 1999    MKIV    Start Patrol
Thu Sep 30 23:11:40 GMT 1999    MKIV    End Patrol
Thu Sep 30 23:19:08 GMT 1999    MKIV    Start Patrol
Thu Sep 30 23:32:26 GMT 1999    PICS    End Patrol
Thu Sep 30 23:35:34 GMT 1999    CHIP    CHIP End Patrol
Thu Sep 30 23:36:06 GMT 1999    CHIP    ending tape
COMMENT: Thu Sep 30 23:36:19 GMT 1999
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TAPES:

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MKIV: 99273

CHIP: C00937

PICS: P01562

LOWL: L00630 in drive #1

Thu Sep 30 23:38:54 GMT 1999 MKIV End Patrol

Thu Sep 30 23:40:49 GMT 1999

MkIII

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16_53.rawmk3  17_10.rawmk3  20_13.rawmk3  20_43.rawmk3  c20_17.rawmk3
16_56.rawmk3  17_24.rawmk3  20_20.rawmk3  20_46.rawmk3  c20_24.rawmk3
16_59.rawmk3  17_27.rawmk3  20_27.rawmk3  20_57.rawmk3
17_03.rawmk3  19_53.rawmk3  20_36.rawmk3  21_00.rawmk3
17_07.rawmk3  19_57.rawmk3  20_39.rawmk3  c20_09.rawmk3
```