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Mauna Loa Solar Observatory Observer's Log  
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Sun Jun 25 16:45:36 GMT 2006

Year: 06 Doy: 176

Observer: koon

Sun Jun 25 16:49:49 GMT 2006 MKIV Start Patrol

WEATHER COMMENT: Sun Jun 25 16:45:41 GMT 2006

Clear sky, wind=5 mph from the East, temp=46F.

\_\_\_\_end\_\_\_\_

Sun Jun 25 16:51:45 GMT 2006 CHIP Start Patrol

Sun Jun 25 16:56:59 GMT 2006 PICS Start Patrol

Sun Jun 25 18:00:46 GMT 2006 CHIP LSD

Sun Jun 25 18:01:12 GMT 2006 PICS Flat

Sun Jun 25 18:02:24 GMT 2006 CHIP End LSD

Sun Jun 25 18:02:33 GMT 2006 CHIP BiasLSD

Sun Jun 25 18:03:17 GMT 2006 CHIP End BiasLSD

Sun Jun 25 18:03:32 GMT 2006 CHIP Bias

Sun Jun 25 18:03:37 GMT 2006 PICS End Flat

Sun Jun 25 18:03:57 GMT 2006 PICS ReStart Patrol

Sun Jun 25 18:04:27 GMT 2006 CHIP End Bias

Sun Jun 25 18:04:35 GMT 2006 CHIP ReStart Patrol

PSPT COMMENT: Sun Jun 25 18:33:47 GMT 2006

Obs.

\_\_\_\_end\_\_\_\_

SBM COMMENT: Sun Jun 25 18:33:52 GMT 2006

Obs, adjusted telescope to move sun lower on screen.

\_\_\_\_end\_\_\_\_

Sun Jun 25 18:36:03 GMT 2006 MKIV End Patrol

Sun Jun 25 18:36:08 GMT 2006 MKIV Start Cal

\*\*MKIV PROBLEM\*\*: Sun Jun 25 18:44:12 GMT 2006

Clicked on Stop for Tilt In on KCC GUI to get calibration to continue after stalling waiting for tiltplates to go in.

\_\_\_\_end\_\_\_\_

Sun Jun 25 18:55:59 GMT 2006 MKIV End Cal

Sun Jun 25 18:56:06 GMT 2006 MKIV Start Patrol

\*\*GONG PROBLEM\*\*: Sun Jun 25 20:25:02 GMT 2006

Going down to shelter to check why images aren't updating.

\_\_\_\_end\_\_\_\_

\*\*GONG PROBLEM\*\*: Sun Jun 25 20:43:06 GMT 2006

Back from shelter, only had to cycle Data and Instrument chassis power.

\_\_\_\_end\_\_\_\_

WEATHER COMMENT: Sun Jun 25 21:18:27 GMT 2006

Cirrus passing over.

\_\_\_\_end\_\_\_\_

MKIV COMMENT: Sun Jun 25 21:51:01 GMT 2006

Paused due to clouds.

\_\_\_\_end\_\_\_\_

Sun Jun 25 21:53:27 GMT 2006 MKIV End Patrol

Sun Jun 25 22:58:43 GMT 2006 CHIP End Patrol

WEATHER COMMENT: Sun Jun 25 22:58:30 GMT 2006

Clouds are getting thicker, air is hazy, spar not tracking, pausing instruments.

\_\_\_\_end\_\_\_\_

Sun Jun 25 22:59:12 GMT 2006 PICS End Patrol

NICE MK4 IMAGE: 1719

NICE CHIP IMAGE: 1828

NICE PICSLIMB IMAGE: 1926

NICE PICSDISC IMAGE: 1754

\*\*MKIV PROBLEM\*\*: Mon Jun 26 01:38:21 GMT 2006

I fixed the tiltplate problems. Both plate holders could slip on their axles so I tightened the setscrews after aligning the plates to the IN stop, then I put some loctite on the setscrews. The IN limit switch is relatively sticky due to it's design (it's a metal shaft that slides up and down against a switch), so I lightly lubed the metal shaft. The clutch was too loose so there wasn't enough torque getting through to the end of the upper tiltplate to activate the switch, I tightened the clutch by loosening the setscrew then rotated the clutch plate a little then tightened

the tiny setscrew again - be careful with that or it will get stripped and you'll have to pull the entire tiltplate assembly to fix it. I recommend replacing that setscrew with a good capscrew if there is enough time the next time we have to adjust that clutch - years from now probably. The tiltplates are in that enlarged diameter section of the telescope down near the rotating barrel, there are angle marks on the section. To do this job safely you need to remove the small sections of tube just above and just below the tiltplate section, 2 screws in the top section, 1 screw in the bottom section then the lower part of that section screws up into the upper half to give enough clearance to remove that section. Put paper towels or something similar over the open tube below the tiltplates to keep dust and other things from falling into the lower telescope.

\_\_\_\_end\_\_\_\_

WEATHER COMMENT: Mon Jun 26 01:59:22 GMT 2006

Still have thick cloud cover with a little fog.

\_\_\_\_end\_\_\_\_

Mon Jun 26 02:10:48 GMT 2006

MkIV

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