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Mauna Loa Solar Observatory Observer's Log  
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Wed Aug 20 16:29:29 GMT 2003

Year: 03 Doy: 232

Observer: yasukawa

WEATHER COMMENT: Wed Aug 20 16:30:28 GMT 2003

Cool, clear, light south wind. Scattered cirrus to west.

Wed Aug 20 16:35:39 GMT 2003 CHIP Start Patrol

Wed Aug 20 16:35:57 GMT 2003 PICS Start Patrol

A NEW TAPE HAS BEEN PUT INTO KAIEE DLT DRIVE, Wed Aug 20 16:41:14 GMT 2003

MKIV COMMENT: Wed Aug 20 16:58:05 GMT 2003

mk4 cleared dome cylinder, Centering O1.

Wed Aug 20 16:58:28 GMT 2003 MKIV Start Patrol

PSPT COMMENT: Wed Aug 20 17:06:13 GMT 2003

Starting up.

**\*\*PSPT PROBLEM\*\***: Wed Aug 20 17:06:37 GMT 2003

Removed and inspected the swapped Red and CaK filters and the Blue filter that was left in its correct station. With heater left on overnight, Red filter that was in the CaK position was heavily hazed as we expected. CaK filter that was left in the Red position was relatively clean. Blue filter was partially (~2/3 of area) hazed as before. Cleaned all ND filters and installed filters into their correct stations before starting up.

PSPT COMMENT: Wed Aug 20 17:14:08 GMT 2003

Starting daily obs.

**\*\*PSPT PROBLEM\*\***: Wed Aug 20 17:25:36 GMT 2003

Just replaced hatch cover. I was watching the positions move past the optical path.

**\*\*PSPT PROBLEM\*\***: Wed Aug 20 17:40:25 GMT 2003

When in overnight stow position, blocked station is positioned over optical path. Other blocked station is partially in hatch location and Blue filter is also partially in hatch location. Blue filter is next to one of the heater rods. Next filter around is the CaK filter that is positioned next to the other heater rod. Next filter is the Red filter which is positioned distally to the hatch and is not positioned next to any heater rod. This is probably why the Red filter is not normally hazed over whereas the CaK and the Blue filters are hazed over. During normal operations, observing, the filters do not spend a lot of time sitting near the heater rods.

MKIV COMMENT: Wed Aug 20 17:57:23 GMT 2003

Centered O1.

Wed Aug 20 18:02:44 GMT 2003 CHIP LSD

Wed Aug 20 18:02:52 GMT 2003 PICS Flat

Wed Aug 20 18:04:22 GMT 2003 CHIP End LSD

Wed Aug 20 18:04:38 GMT 2003 CHIP BiasLSD

Wed Aug 20 18:05:17 GMT 2003 PICS End Flat

Wed Aug 20 18:05:41 GMT 2003 CHIP End BiasLSD

Wed Aug 20 18:05:50 GMT 2003 CHIP Bias

Wed Aug 20 18:06:43 GMT 2003 CHIP End Bias

MKIV COMMENT: Wed Aug 20 18:59:15 GMT 2003

Centered O1.

Wed Aug 20 19:03:13 GMT 2003 MKIV Start Cal

COMMENT: Wed Aug 20 19:21:25 GMT 2003

Stopping to reconfigure dome shutter.

Wed Aug 20 19:21:40 GMT 2003 CHIP End Patrol

Wed Aug 20 19:22:02 GMT 2003 MKIV End Cal

Wed Aug 20 19:24:37 GMT 2003 PICS End Patrol

MKIV COMMENT: Wed Aug 20 19:32:27 GMT 2003

Centered O1.

Wed Aug 20 19:32:25 GMT 2003 CHIP Start Patrol

Wed Aug 20 19:32:39 GMT 2003 MKIV Start Patrol

Wed Aug 20 19:32:30 GMT 2003 PICS Start Patrol

MKIV COMMENT: Wed Aug 20 20:31:33 GMT 2003

Centered O1.

WEATHER COMMENT: Wed Aug 20 21:22:15 GMT 2003

In thin cirrostratus, sky bright close to sun.

MKIV COMMENT: Wed Aug 20 21:39:11 GMT 2003

Centered O1. Bright sky looks evenly bright around the sun.

\*\*PSPT PROBLEM\*\* : Wed Aug 20 22:08:42 GMT 2003

Stopped observations. I will attempt to remove insulation material from the filter wheel area.

\*\*PSPT PROBLEM\*\* : Wed Aug 20 22:20:34 GMT 2003

Turned off heater. Removed filters and checked ND pre-filters. All were relative clean.

WEATHER COMMENT: Wed Aug 20 22:22:49 GMT 2003

in scattered orographic clouds.

Thu Aug 21 01:12:56 GMT 2003 CHIP End Patrol

WEATHER COMMENT: Thu Aug 21 01:13:05 GMT 2003

Panic dome closure. Was working on PSPT when it suddenly started raining off dark clouds to east which I did not notice due to shutter pointing west.

Thu Aug 21 01:15:40 GMT 2003 PICS End Patrol

Thu Aug 21 01:17:22 GMT 2003 MKIV End Patrol

\*\*PSPT PROBLEM\*\* : Thu Aug 21 01:39:40 GMT 2003

Removed all insulation from inside of filter wheel cavity after removing the filters for safe-keeping.

Removed as much of the RTV adhesive as possible.

Cleaned out the debris with Wet-Swabs (isopropyl alcohol soaked foam-tipped wands) and reassembled the PSPT.

Turned heaters back on after shutting PSPT down for the night.

Darryl will check if the hazing is still occurring without the neoprene-like insulation.

WEATHER COMMENT: Thu Aug 21 02:00:03 GMT 2003

Cloudburst has past, sky is now very clear except for thick altostratus cloud just to west of sun.

Shutting down so I can clean up the PSPT platform and put away tools.

COMMENT: Thu Aug 21 02:02:23 GMT 2003

Checked instruments. Although rain was pouring into the dome slot at the peak of the cloudburst (PSPT flap was still open for a while), no rain got onto the PSPT or onto the MK4/PICS/CHIP due to the direction the slots were facing when the wind-driven rain began. I got tops of the shutters closed and the spars moved before the rain became real heavy.

Ols did not get any raindrops on them.

Thu Aug 21 02:08:07 GMT 2003

MkIV

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