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Mauna Loa Solar Observatory Observer's Log  
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Tue Aug 19 16:26:55 GMT 2003

Year: 03 Doy: 231

Observer: koon

WEATHER COMMENT: Tue Aug 19 16:26:59 GMT 2003

Medium to thick cirrostratus overcast, wind=10 mph from the SE, temp=44 F.

Tue Aug 19 16:33:34 GMT 2003 CHIP Start Patrol

Tue Aug 19 16:33:47 GMT 2003 PICS Start Patrol

COMMENT: Tue Aug 19 17:05:57 GMT 2003

Disconnected the battery charger on the lift in the main dome.

PSPT COMMENT: Tue Aug 19 17:30:00 GMT 2003

There was a hazy deposit on the CaK filter again despite cleaning it yesterday, probably caused by outgassing from foam rubber in vicinity of heaters which are very near the filters. Removed pieces of plastic tape that were on the inside of the hatch since plastic outgasses too. Maybe we can turn down the temp.

PSPT COMMENT: Tue Aug 19 17:57:57 GMT 2003

Observing.

Tue Aug 19 18:00:41 GMT 2003 CHIP LSD

Tue Aug 19 18:02:22 GMT 2003 CHIP End LSD

Tue Aug 19 18:02:28 GMT 2003 CHIP BiasLSD

Tue Aug 19 18:02:36 GMT 2003 PICS Flat

Tue Aug 19 18:03:19 GMT 2003 CHIP End BiasLSD

Tue Aug 19 18:03:25 GMT 2003 CHIP Bias

Tue Aug 19 18:04:15 GMT 2003 CHIP End Bias

Tue Aug 19 18:04:58 GMT 2003 PICS End Flat

Tue Aug 19 18:10:38 GMT 2003 MKIV Start Patrol

MKIV COMMENT: Tue Aug 19 18:10:40 GMT 2003

Centered occulting and started obs though thin cloud layer still exists.

WEATHER COMMENT: Tue Aug 19 18:19:55 GMT 2003

Cirrostratus overcast is gradually thinning out.

\*\*\*\* EVENT COMMENT \*\*\*\*: Tue Aug 19 18:44:47 GMT 2003

Nice Flare on AR near East limb around 1820 UT.

Tue Aug 19 18:46:21 GMT 2003 MKIV End Patrol

COMMENT: Tue Aug 19 19:53:31 GMT 2003

Extended the dome slot.

WEATHER COMMENT: Tue Aug 19 19:53:40 GMT 2003

Some orographic clouds are getting near.

Tue Aug 19 20:13:56 GMT 2003 CHIP End Patrol

WEATHER COMMENT: Tue Aug 19 20:14:07 GMT 2003

Thick orographic clouds are overhead, pausing obs.

Tue Aug 19 20:15:44 GMT 2003 PICS End Patrol

PSPT COMMENT: Wed Aug 20 02:24:09 GMT 2003

For the next few days we are trying a few tests to determine if the haze on the ND prefilters is related to the heater and the orientation of the filter wheel when it is stowed at the end of the day. The current filter wheel

stow position is 1000.

For today's test I removed and cleaned the prefilters of the CaK and the Red filter assemblies, then I swapped their normal locations, then I stowed the filter wheel at the regular 1000 position. This morning the CaK filter had the greatest haze and the Red filter had the least, we'll see if that is reversed tomorrow morning. I also checked the blue filter and it was hazy so I cleaned it too - but it is in its regular position now. At the end of today the CaK prefilter was good, no haze, even though the heater was on and that instrument was used.

Tomorrow Eric will check the filters in the morning, and at the end of the day he'll clean them again and then leave the heater off overnight. On Thursday I'll check them in the morning to see if they got hazy without the heater on. I'll turn the heater back on and we may decide to reposition the filter wheel stowing to a place where the prefilters stay cleaner, if possible.

Wed Aug 20 02:35:09 GMT 2003

MkIV

18\_10.rawmk4 18\_19.rawmk4 18\_28.rawmk4 18\_37.rawmk4  
18\_13.rawmk4 18\_22.rawmk4 18\_31.rawmk4 18\_40.rawmk4  
18\_16.rawmk4 18\_25.rawmk4 18\_34.rawmk4 18\_43.rawmk4