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Mauna Loa Solar Observatory Observer's Log  
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Sun Jan 24 17:41:58 GMT 1999

Year: 99 Doy: 024

Observer: koon

WEATHER COMMENT: Sun Jan 24 17:42:06 GMT 1999

Mostly clear with very large thunderhead clouds just to the East, wind=20 mph from the ESE, temp=35 F.

Sun Jan 24 17:42:58 GMT 1999 CHIP Startup--Initializing new tape

Sun Jan 24 17:49:50 GMT 1999 MKIII Start Patrol

Sun Jan 24 17:49:59 GMT 1999 CHIP CHIP Start Patrol

Sun Jan 24 17:50:04 GMT 1999 PICS Start Patrol

Sun Jan 24 17:58:29 GMT 1999 PICS End Patrol

\*\*PICS PROBLEM\*\* Sun Jan 24 18:00:17 GMT 1999

No images on the screen, it looks like the filter wheel is timing out without being driven, I can see the "drive" and "request" LEDs light up but none of the status LEDs are lighting up. I'll take a look upstairs.

Sun Jan 24 18:02:50 GMT 1999 CHIP Bias

Sun Jan 24 18:03:48 GMT 1999 CHIP End Bias

Sun Jan 24 18:03:58 GMT 1999 CHIP Water

Sun Jan 24 18:04:38 GMT 1999 CHIP End Water

WEATHER COMMENT: Sun Jan 24 18:16:07 GMT 1999

Very low clouds are blowing over, may get foggy, pausing and closing.

Sun Jan 24 18:16:46 GMT 1999 CHIP CHIP End Patrol

WEATHER COMMENT: Sun Jan 24 18:19:45 GMT 1999

It is getting foggy now.

Sun Jan 24 18:22:14 GMT 1999 MKIII End Patrol

\*\*PICS PROBLEM\*\* Sun Jan 24 18:47:49 GMT 1999

The motor for the filter wheel was disconnected, I connected it and tested it before closing everything back up. The filter wheel works now.

WEATHER COMMENT: Sun Jan 24 19:11:08 GMT 1999

It rained for a while, now there is a light rain/fog but sun is shining through. I may be able to observe later.

WEATHER COMMENT: Sun Jan 24 20:12:28 GMT 1999

Thin fog still blowing over, it is sunny and the sky is clear above.

WEATHER COMMENT: Sun Jan 24 21:30:11 GMT 1999

Fog/rain cleared, sky is mostly clear except for scattered cirrus and heavy thunderclouds to the SE, very windy at 35+ gusts, very cold outside.  
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COMMENT: Sun Jan 24 21:32:26 GMT 1999

Restarted observations.

\*\*PICS PROBLEM\*\* Sun Jan 24 21:39:23 GMT 1999

Still no images, I'll pause and go check out the camera connections.

Sun Jan 24 21:41:33 GMT 1999 PICS End Patrol

Sun Jan 24 22:02:04 GMT 1999 CHIP Bias

Sun Jan 24 22:03:02 GMT 1999 CHIP End Bias

Sun Jan 24 22:03:16 GMT 1999 CHIP Water

Sun Jan 24 22:03:55 GMT 1999 CHIP End Water

\*\*PICS PROBLEM\*\* Sun Jan 24 22:10:40 GMT 1999

I opened up the instrument again and found that the camera was connected, and that light was coming down to the camera, and that the shutter was working. I tested the shutter in Video mode and could hear and see it open and close, but the Camera window looks the same way it did when I tried Patrol, it is gray with white horizontal noise streaks that move around with each exposure/image.

COMMENT: Sun Jan 24 22:14:35 GMT 1999

I'm bumping the spar now and then and affecting the observations of the other instruments as I work on the PICS.

Sun Jan 24 22:21:59 GMT 1999 MKIII Start Cal

\*\*PSPT PROBLEM\*\* Sun Jan 24 22:23:40 GMT 1999

The last image is vignetted, similar to the problem I had last week, can only see left sliver of the sun and that is moved into the middle of the image area. Closing down due to nearby clouds.

WEATHER COMMENT: Sun Jan 24 22:26:52 GMT 1999

A huge wall of clouds is approaching from the East.

\*\*PICS PROBLEM\*\* Sun Jan 24 22:28:19 GMT 1999

The Camera window didn't change despite taking images with the PICS cover open, and with many different combinations of filter wheel positions and exposure times and objective wheel positions and filter stage positions and occulting wheel positions. Maybe the recent software and/or hardware changes are incompatible with something. I will close it back up, I didn't get a chance to do the Halle Filter Test because of this problem.

MKIV COMMENT: Sun Jan 24 22:36:20 GMT 1999

Unfortunately the cirrostratus moved in before the calibration ended. I didn't get a chance to do the Height Mask Tests due to poor weather.

WEATHER COMMENT: Sun Jan 24 22:37:41 GMT 1999

The cirrostratus has arrived and the lower clouds aren't far behind, closing down for the day.

Sun Jan 24 22:39:34 GMT 1999 CHIP ending tape

Sun Jan 24 22:42:19 GMT 1999 MKIII End Cal

COMMENT: Sun Jan 24 23:17:30 GMT 1999

TAPES:

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MKIV: 99024

CHIP: C00767

LOWL: L00575

Sun Jan 24 23:18:16 GMT 1999

MkIII

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| 17_49.rawmk3 | 18_12.rawmk3 | 21_43.rawmk3 | 22_05.rawmk3 | 22_39.rawmk3  |
| 17_53.rawmk3 | 18_15.rawmk3 | 21_46.rawmk3 | 22_09.rawmk3 | c22_22.rawmk3 |
| 17_56.rawmk3 | 18_19.rawmk3 | 21_49.rawmk3 | 22_12.rawmk3 | c22_28.rawmk3 |

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| 17_59.rawmk3 | 21_30.rawmk3 | 21_53.rawmk3 | 22_15.rawmk3 | c22_35.rawmk3 |
| 18_03.rawmk3 | 21_33.rawmk3 | 21_56.rawmk3 | 22_18.rawmk3 |               |
| 18_06.rawmk3 | 21_36.rawmk3 | 21_59.rawmk3 | 22_25.rawmk3 |               |
| 18_09.rawmk3 | 21_40.rawmk3 | 22_02.rawmk3 | 22_32.rawmk3 |               |