

Mauna Loa Solar Observatory Observer's Log

Tue May 31 17:04:36 GMT 1994

Year: 94 Doy: 151

Observer: koon

COMMENT: Tue May 31 17:04:47 GMT 1994

Clear sky, wind ~5 mph from the southeast, temp~ 45 F.

Tue May 31 17:09:39 GMT 1994: Patrol Start

DPMON COMMENT: Tue May 31 17:17:05 GMT 1994

Both the diffuser and the Halle filter are moving in and out of the light path I will pause Patrol and manually reset the Plessey and those problems.

Tue May 31 17:20:27 GMT 1994: Patrol Start

DPMON COMMENT: Tue May 31 17:43:24 GMT 1994

Increased the disk exposure to 100 ms, left limb exposure at 300 ms. The disk image still looks out of focus, I'll try focusing that today. Note that the focus of the prominence at 310 looks in decent focus, you can see structure. But the focus down at PA=232 doesn't look real sharp, this is noticeable on both disk and limb images.

Tue May 31 18:00:16 GMT 1994: Filemark-Calibration

DPMON COMMENT: Tue May 31 18:33:32 GMT 1994

I rotated the Lyot Stop/Filter (LSF) about 60 degrees CW from point of view of the camera, you can see that the prominence at PA=310 has become a little unfocused. I think there is stray light entering the LSF on one half, I'll check it out.

DPMON COMMENT: Tue May 31 18:51:48 GMT 1994

Rotated the LSF CCW back to original position. Looking through the LSF you can see the inside edge of the filter on the side of the aperture at which the filter is tilted the farthest away from the camera, this is the side that corresponds to the abnormal focus on the limb of the sun, I will try to stop the Lyot aperture down far enough to eliminate any scattered light coming off of that visible filter edge.

DPMON COMMENT: Tue May 31 19:22:44 GMT 1994

Rotated the LSF about 180 degrees from original position so that the cutaway is facing the filter wheel so that I can install the 0.7" paper Lyot stop under the LSF without interference with the filter wheel. Will take some data like this before installing the 0.7" stop.

DPMON COMMENT: Tue May 31 19:38:50 GMT 1994

Installed paper 0.7" Lyot stop under LSF.

Tue May 31 20:00:21 GMT 1994: Filemark-Calibration

DPMON COMMENT: Tue May 31 20:02:22 GMT 1994

ADR moved dome too far and instruments got blocked, also just extended dome slot

Tue May 31 20:06:08 GMT 1994: Patrol End

DPMON COMMENT: Tue May 31 20:06:21 GMT 1994

Pausing the Patrol program so I can do some faster manual testing.

DPMON COMMENT: Tue May 31 21:27:09 GMT 1994

Manual program stalled with Camera field showing "Busy". Had to reboot computer and installed a new tape. Continuing with manual disk image focusing

LOW-L COMMENT: Tue May 31 21:31:40 GMT 1994
Crashed again today in a different way than normal. Instrument was pointed to the sun, but no data was being recorded. Tape drive #0 showed 2217 MB free for quite a while, I kept an eye on it while doing DPMon stuff. The screen looked normal but wasn't updating. Reset computer, stopped startup sequence and checked Log directory. There was a Tapelog.000 log file but it only had two files listed, the first from yesterday afternoon when I started up after the last crash, the second file was from ~16:12 ut (first file for today). I deleted the Tapelog.000 file and R+R tapes and restarted.

COMMENT: Tue May 31 22:08:20 GMT 1994
Getting some low clouds, stopped MKIII.

MKIII COMMENT: Tue May 31 22:43:44 GMT 1994
Doing Dark Scan.

COMMENT: Tue May 31 22:43:55 GMT 1994
Still cloudy.

DPMON COMMENT: Tue May 31 22:44:10 GMT 1994
I found that the best focus for the disk was at 2.000 mm which means we have at least two different focus settings: 4.300 for the occulting disk and 2.000 for the solar disk. It is very difficult to see if the prominences are in focus at either setting because they are so small and get obscured by the blurring of the occulting disk, we really need a nice big loop prominence. Perhaps the occulting disk is not at the primary focus or perhaps the Halle filter is causing a focal change somehow but it doesn't seem like it should if the light passing through it is collimated. I'll try to get data at both settings next time. Also, the LSF was projecting reflections into the light path with the cutaway facing the filter wheel so I rotated it back to the original position I had it in this morning.

LOW-L COMMENT: Tue May 31 23:27:03 GMT 1994
Can't get it yo run for long. It either stalls out after printing "jday done" to the screen or it starts and writes a file or two and stalls out in the same mode as it was found this morning.

COMMENT: Tue May 31 23:44:40 GMT 1994
Activity report:
QP: 42; 74; 125; 232; 310.
No coronal activity.

TAPES:

MKIII: H00757

DPMON: P00069

LOW-L: Currently program won't run, removed L00051 from drive #0 and installed L00053, removed L00052 from drive #1 and installed L00054.

Tue May 31 23:56:52 GMT 1994: Filemark

SCAN-LOG

SCAN-LOG 17:11:08. 5/31/94 DOY 151

17:17:06	17:20:17	17:23:30	17:26:41	17:29:54
17:33:06	17:36:19	17:39:30	17:42:42	17:45:52
17:49:04	17:52:15	17:55:26	17:58:37	18:01:48
18:04:59	18:08:10	18:11:20	1815 0 CL	18:18:15
1822 15CL	18:42:42	18:45:53	18:49:09	18:52:17
18:55:26	18:58:33	19:01:41	19:04:48	19:07:56
19:11:02	19:14:09	19:17:16	19:20:23	19:23:30
19:26:38	19:29:44	19:32:52	19:35:59	19:39:13
19:42:22	19:45:30	19:48:38	19:51:46	19:54:53

19:58:02	20:01:09	20:04:18	20:07:26	20:10:35
20:13:42	20:16:50	20:19:57	20:23:05	20:26:12
20:29:21	20:32:29	20:35:37	20:38:44	20:41:53
20:45:02	20:48:10	20:51:17	20:54:26	20:57:33
21:00:41	21:03:48	21:06:56	21:10:03	21:13:12
21:16:19	21:19:27	21:22:34	21:25:43	21:28:50
21:31:59	21:35:06	21:38:14	21:41:21	21:44:29
21:47:36	21:50:44	21:53:51	21:57:05	22:00:13
22:03:22	22:06:29	22:43:30		

0 ERRORS
OK