
Mauna Loa Solar Observatory Observer's Log

Sat Jul 25 16:59:50 GMT 1998

Year: 98 Doy: 206

Observer: koon

WEATHER COMMENT: Sat Jul 25 16:59:52 GMT 1998

Clear sky, wind=5 mph from the SE, temp=50 F.

MLSO PROBLEM: Sat Jul 25 17:05:31 GMT 1998

Network is down again, this is becoming the norm. I think the problem is somewhere in Hawaii this time, maybe at UH Manoa, stall is happening after the hop from the mountain.

Sat Jul 25 17:11:37 GMT 1998 CHIP Startup--Initializing new tape

Sat Jul 25 17:11:55 GMT 1998 PICS Start Patrol

Sat Jul 25 17:12:10 GMT 1998 CHIP CHIP Start Patrol

MLSO PROBLEM: Sat Jul 25 17:25:47 GMT 1998

I was able to login at Boulder using the modem, but it wasn't working very well, had lots of strange messages and it seemed very sluggish. Anyway, I was able to limp through and read my mail.

MKIII PROBLEM: Sat Jul 25 17:27:25 GMT 1998

I'm glad to hear that the cleaning helped. I still see opposing dark areas though they are rotated CCW from the last time I saw them two days ago, and they seem to be less dark. But they are there and now they are in the NNE and SSW. So the dark area that was in the NNW looks like it brightened up a little and moved to the NNE. The area in the SSW is apparently still there, although it may be a little brighter. Later I'll R+R the O1 and clean it more thoroughly, hopefully that will help.

Sat Jul 25 18:00:51 GMT 1998 CHIP Bias

Sat Jul 25 18:01:46 GMT 1998 CHIP End Bias

Sat Jul 25 18:01:46 GMT 1998 CHIP End Bias

Sat Jul 25 18:02:03 GMT 1998 CHIP Water

Sat Jul 25 18:02:45 GMT 1998 CHIP End Water

Sat Jul 25 18:03:16 GMT 1998 PICS End Flat

Sat Jul 25 19:01:43 GMT 1998 PICS Flat

Sat Jul 25 19:02:58 GMT 1998 CHIP Bias

Sat Jul 25 19:03:08 GMT 1998 PICS End Flat

Sat Jul 25 19:04:00 GMT 1998 CHIP End Bias

Sat Jul 25 19:04:11 GMT 1998 CHIP Water

Sat Jul 25 19:04:51 GMT 1998 CHIP End Water

Sat Jul 25 20:01:35 GMT 1998 PICS Flat

Sat Jul 25 20:03:01 GMT 1998 PICS End Flat

Sat Jul 25 20:03:01 GMT 1998 PICS End Flat

Sat Jul 25 20:07:48 GMT 1998 CHIP End Gain

Sat Jul 25 20:07:58 GMT 1998 CHIP Bias

Sat Jul 25 20:08:53 GMT 1998 CHIP End Bias

Sat Jul 25 20:09:05 GMT 1998 CHIP Water

Sat Jul 25 20:09:40 GMT 1998 CHIP End Water

COMMENT: Sat Jul 25 20:14:03 GMT 1998

Extended the dome slot.

****MKIII PROBLEM****: Sat Jul 25 20:16:54 GMT 1998

I'm trying some tests dealing with the problem we've been having with the dark regions in the scans. Right now the spar is pointed off the sun so I can see what kind of scattered light is coming off the O1 and possibly the polarization of the scattered light in the sky. It looks like the NNE and SSW have extra intensity and the regions in the WNW and ESE have low intensity (like the regions I noticed at closedown on Thursday that were aligned with where the regular scans also looked dark).

COMMENT: Sat Jul 25 20:25:46 GMT 1998

OK, spar is tracking again.

****MKIII PROBLEM****: Sat Jul 25 20:36:51 GMT 1998

I just tilted the O1 in the opposite direction from the tilt I tried on Thursday. Like the other tilt test I don't see any change in the reflection I found on the occulting focus plane, it must be coming from something other than the O1, but it may not be big problem anyway. Scan at 2040 ut show that the dark regions appear to be in the same places as before are weren't affected by the O1 tilt.

****MKIII PROBLEM****: Sat Jul 25 20:46:38 GMT 1998

OK, I'm going to pause the scans soon and remove the O1 for a good cleaning.

| | | |
|------------------------------|------|-----------|
| Sat Jul 25 21:01:41 GMT 1998 | PICS | Flat |
| Sat Jul 25 21:01:52 GMT 1998 | CHIP | Bias |
| Sat Jul 25 21:02:47 GMT 1998 | CHIP | End Bias |
| Sat Jul 25 21:02:57 GMT 1998 | CHIP | Water |
| Sat Jul 25 21:03:08 GMT 1998 | PICS | End Flat |
| Sat Jul 25 21:03:41 GMT 1998 | CHIP | End Water |

WEATHER COMMENT: Sat Jul 25 21:32:58 GMT 1998

Orographic clouds are moving in.

| | | |
|------------------------------|------|-----------|
| Sat Jul 25 22:01:18 GMT 1998 | CHIP | Bias |
| Sat Jul 25 22:01:51 GMT 1998 | PICS | Flat |
| Sat Jul 25 22:02:24 GMT 1998 | CHIP | End Bias |
| Sat Jul 25 22:02:34 GMT 1998 | CHIP | Water |
| Sat Jul 25 22:03:20 GMT 1998 | CHIP | End Water |
| Sat Jul 25 22:03:30 GMT 1998 | PICS | End Flat |

****MKIII PROBLEM****: Sat Jul 25 22:04:48 GMT 1998

OK, I finished cleaning the O1 and installed it. But the clouds have ruined my attempt to get data before and after the cleaning. The Nitrogen filter I added to the cleaning system helps immensely, now I don't have to redo the entire cleaning process because of oil spraying out on the lens from the supposedly oil-free tank.

ICS End Patrol

| | | |
|------------------------------|------|-----------------|
| Sat Jul 25 22:09:20 GMT 1998 | CHIP | CHIP End Patrol |
| Sat Jul 25 22:10:42 GMT 1998 | CHIP | ending tape |

****PSPT PROBLEM****: Sat Jul 25 22:16:26 GMT 1998

Program crashed while trying to start up the last image sequence, around 2100 ut. Segmentation Fault was one of the messages, may have been due to clouds.

COMMENT: Sat Jul 25 22:28:46 GMT 1998

TAPES:

PICS: P01252

CHIP: C00647

LOWL: L00534 in Drive #0

Sat Jul 25 22:30:22 GMT 1998

MkIII

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| 17_11.rawmk3 | 17_55.rawmk3 | 18_39.rawmk3 | 19_29.rawmk3 | 20_16.rawmk3 |
| 17_14.rawmk3 | 17_58.rawmk3 | 18_42.rawmk3 | 19_35.rawmk3 | 20_19.rawmk3 |
| 17_17.rawmk3 | 18_01.rawmk3 | 18_45.rawmk3 | 19_38.rawmk3 | 20_22.rawmk3 |
| 17_20.rawmk3 | 18_04.rawmk3 | 18_48.rawmk3 | 19_41.rawmk3 | 20_25.rawmk3 |
| 17_23.rawmk3 | 18_07.rawmk3 | 18_51.rawmk3 | 19_44.rawmk3 | 20_28.rawmk3 |
| 17_26.rawmk3 | 18_10.rawmk3 | 18_54.rawmk3 | 19_47.rawmk3 | 20_31.rawmk3 |
| 17_29.rawmk3 | 18_13.rawmk3 | 18_57.rawmk3 | 19_50.rawmk3 | 20_34.rawmk3 |
| 17_32.rawmk3 | 18_16.rawmk3 | 19_00.rawmk3 | 19_53.rawmk3 | 20_37.rawmk3 |
| 17_35.rawmk3 | 18_19.rawmk3 | 19_02.rawmk3 | 19_56.rawmk3 | 20_40.rawmk3 |
| 17_38.rawmk3 | 18_22.rawmk3 | 19_05.rawmk3 | 19_59.rawmk3 | 20_43.rawmk3 |
| 17_41.rawmk3 | 18_24.rawmk3 | 19_08.rawmk3 | 20_02.rawmk3 | 20_46.rawmk3 |
| 17_44.rawmk3 | 18_27.rawmk3 | 19_11.rawmk3 | 20_05.rawmk3 | c19_20.rawmk3 |
| 17_47.rawmk3 | 18_30.rawmk3 | 19_14.rawmk3 | 20_08.rawmk3 | c19_26.rawmk3 |
| 17_49.rawmk3 | 18_33.rawmk3 | 19_17.rawmk3 | 20_11.rawmk3 | c19_32.rawmk3 |
| 17_52.rawmk3 | 18_36.rawmk3 | 19_23.rawmk3 | 20_14.rawmk3 | |