Mauna Loa Solar Observatory Observer's Log ______ Tue Jul 6 16:15:35 GMT 1999 Year: 99 Doy: 187 Observer: yasukawa WEATHER COMMENT: Tue Jul 6 16:16:48 GMT 1999 Cold, continued extensive cirrus overcast, thick with diffuse shadows, strong south wind. **LOW-L PROBLEM**: Tue Jul 6 16:18:19 GMT 1999 LOWL found crashed with graphics characters across screen. Clock stopped at 04:51 UT. Popping out L00610 and starting L00611 in drive #1. Loading L00612 into drive #0. **MKIV PROBLEM**: Tue Jul 6 16:27:15 GMT 1999 MKIV 99-186 was not popped out. WEATHER COMMENT: Tue Jul 6 17:45:18 GMT 1999 Hole opening up, cirrus is thinning. **CHIP PROBLEM**: Tue Jul 6 17:51:38 GMT 1999 David requested removal of the filter to better inspect and clean it. Since it is clearing, I will document the sun first before removing it. Tue Jul 6 17:52:54 GMT 1999 Startup--Initializing new tape CHIP Tue Jul 6 17:53:22 GMT 1999 Start Patrol PICS Tue Jul 6 17:58:33 GMT 1999 CHIP Start Patrol CHIP Tue Jul 6 18:00:32 GMT 1999 Flat PICS Tue Jul 6 18:02:09 GMT 1999 CHIP Bias Tue Jul 6 18:02:57 GMT 1999 End Bias CHIP Tue Jul 6 18:03:05 GMT 1999 PICS End Flat Tue Jul 6 18:03:05 GMT 1999 PICS End Flat Tue Jul 6 18:03:42 GMT 1999 CHIP End Water **MKIV PROBLEM**: Tue Jul 6 18:18:57 GMT 1999 Nahenahe was not doing the overnight chron job the last few nights. Loaded a tape and Andrew Stanger is writing the data to it. Tue Jul 6 18:21:52 GMT 1999 MKIII Start Patrol WEATHER COMMENT: Tue Jul 6 18:34:43 GMT 1999 Still in thin cirrus. May not get coronal skies. Tue Jul 6 19:00:53 GMT 1999 Bias CHIP Tue Jul 6 19:01:45 GMT 1999 Flat PICS Tue Jul 6 19:01:56 GMT 1999 End Bias CHIP Tue Jul 6 19:02:13 GMT 1999 CHIP Water Tue Jul 6 19:02:56 GMT 1999 CHIP End Water WEATHER COMMENT: Tue Jul 6 19:04:49 GMT 1999 In thicker cirrus patch. 999 PICS End Flat COMMENT: Tue Jul 6 19:05:29 GMT 1999 Stopping to reconfigure dome shutter. **CHIP PROBLEM**: Tue Jul 6 19:05:47 GMT 1999

Stopping CHIP, Removing filter.

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Tue Jul 6 19:06:26 GMT 1999
                               CHIP
                                        CHIP End Patrol
Tue Jul 6 19:08:10 GMT 1999
                               PICS
                                        End Patrol
Tue Jul 6 19:14:23 GMT 1999
                               MKIII
                                        Start Patrol
WEATHER COMMENT: Tue Jul 6 19:14:32 GMT 1999
In thin cirrus, thick patch passed.
tart Patrol
**MKIV PROBLEM**: Tue Jul 6 19:34:31 GMT 1999
MKIV data transfer to tape is complete. Labeled tape
MKIV 99183,184,185,186.
Loaded next tape for tonight's transfer if program is fixed.
WEATHER COMMENT: Tue Jul 6 19:49:54 GMT 1999
Clear.
Tue Jul 6 20:00:30 GMT 1999
                               PICS
                                        Flat
Tue Jul 6 20:03:06 GMT 1999
                               PICS
                                        End Flat
Tue Jul 6 21:01:22 GMT 1999
                                        Flat
                               PICS
Tue Jul 6 21:04:05 GMT 1999
                               PICS
                                        End Flat
**CHIP PROBLEM**: Tue Jul 6 21:33:44 GMT 1999
Removed CHIP filter to inspect it on the workbench. Found residual
smudges on the rear window and two bubbles or chips on the corners
of some og the internal elements. There was a larger canine-footprint
shaped bubble on one edge on an internal element that appeared to
invert the contrast. There was a hairline across one edge of an internal
element. I cleaned away the window smudge as best as I could. David and
Kim decided we should try squeezing the hairline out--turned out to be
a separation air bubble. Tried squeezing the opposite edge first with
low torque on the screws on the front surface of the mount. This did
not work. Deduced that the air wedge needed to be squeezed together
so I gently squeezed on the bubble side and the bubble edged its way out.
The canine-footprint bubble enlarged slightly even though it was on the
same side as the large bubble. It also changed shape slightly. The other two
bubbles/chips did not change. We decided to resolve the large bubble
first so I re-installed the filter. Once the filter gets back on
temperature and we can observe the sun, we will determine how much
improvement the fix made. If there is still some residual degradation,
we can then go after the other smaller bubble.
Tue Jul 6 21:54:55 GMT 1999
                               CHIP
                                        ending tape
Tue Jul 6 22:02:30 GMT 1999
                               PICS
                                        Flat
Tue Jul 6 22:05:08 GMT 1999
                                        End Flat
                               PICS
COMMENT: Tue Jul 6 22:06:02 GMT 1999
Tapes:
MKIV: 99-187
CHIP: C00857
PICS: P01478
LOWL: L00611 in drive #1
Tue Jul 6 22:07:50 GMT 1999
                               PICS
                                        End Patrol
Tue Jul 6 22:09:20 GMT 1999
       MkIII
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18_21.rawmk3	19_14.rawmk3	20_11.rawmk3	20_57.rawmk3	21_43.rawmk3
18_25.rawmk3	19_18.rawmk3	20_16.rawmk3	21_01.rawmk3	21_46.rawmk3
18_29.rawmk3	19_21.rawmk3	20_19.rawmk3	21_05.rawmk3	21_50.rawmk3
18_33.rawmk3	19_25.rawmk3	20_23.rawmk3	21_08.rawmk3	21_54.rawmk3
18_37.rawmk3	19_29.rawmk3	20_27.rawmk3	21_12.rawmk3	21_58.rawmk3
18_41.rawmk3	19_33.rawmk3	20_31.rawmk3	21_16.rawmk3	c19_52.rawmk3
18_45.rawmk3	19_37.rawmk3	20_34.rawmk3	21_20.rawmk3	c19_59.rawmk3
18_49.rawmk3	19_40.rawmk3	20_38.rawmk3	21_23.rawmk3	c20_07.rawmk3
18_53.rawmk3	19_44.rawmk3	20_42.rawmk3	21_27.rawmk3	
18_57.rawmk3	19_48.rawmk3	20_46.rawmk3	21_31.rawmk3	
19_01.rawmk3	19_56.rawmk3	20_49.rawmk3	21_35.rawmk3	
19_05.rawmk3	20_03.rawmk3	20_53.rawmk3	21_39.rawmk3	