
Mauna Loa Solar Observatory Observer's Log

Fri Mar 7 17:24:07 GMT 1997

Year: 97 Doy: 066

Observer: koon

WEATHER COMMENT: Fri Mar 7 17:24:12 GMT 1997 Clear sky, wind=15 mph from the SE, temp=38 F.

Fri Mar 7 17:24:48 GMT 1997 CHIP Startup--Initializing new tape

Fri Mar 7 17:28:34 GMT 1997 dPMon Start Patrol Fri Mar 7 17:28:34 GMT 1997 CHIP CHIP Start Patrol

COMMENT: Fri Mar 7 17:42:11 GMT 1997

Excavation work going on below us for NOAA, luckily the wind is in our

favor. I'll keep a lookout for potential dust problems.

Fri Mar 7 18:02:00 GMT 1997 dPMon Flat Fri Mar 7 18:02:03 GMT 1997 CHIP Bias Fri Mar 7 18:02:47 GMT 1997 CHIP End Bias Fri Mar 7 18:02:57 GMT 1997 dPMon End Flat Fri Mar 7 18:02:55 GMT 1997 CHIP Water Fri Mar 7 18:03:24 GMT 1997 End Water CHIP Fri Mar 7 19:01:08 GMT 1997 Bias CHIP Fri Mar 7 19:01:51 GMT 1997 CHIP End Bias Fri Mar 7 19:01:58 GMT 1997 CHIP Water Fri Mar 7 19:02:30 GMT 1997 CHIP End Water

LOW-L COMMENT: Fri Mar 7 18:52:00 GMT 1997

Regarding the guiding problem that Eric mentioned in yesterday's log, it didn't sound like there was a slippage problem between the motor/encoder and the lightfeed head because he mentioned that the motor was constantly running, which indicates that the motor can't drive the head for some reason. To check I drove the head to various locations and checked where the encoder thought it was, it checked out correctly, if there was slippage then the head might stay still although the encoder would think it was moving the head, and an RA of 38.6 probably wouldn't point at zenith like it should, but all worked as it should. So I tried to run the head through its range of movement and found that it would stop at -28 is RA although I was trying to point to -40, I went outside and could hear the motor running as Eric had mentioned, so something was preventing movement beyond -28 in RA as the head was trying to point down to the sunrise location. I found that the conduit clamp for the flex conduit (which rotates with the head) was hitting the lightfeed mount and couldn't get past it. The motor kept trying to run until I pointed it to a location in the other direction. So the lightfeed head was probably stuck that way early yesterday morning as it tried to point to the sunrise, then it stayed stuck until Eric turned it off. I bent the conduit clamp back into shape and tightened the screw holding it. When I tried to go through -28 again it worked OK, so I went through the entire range of motion and found out how the clamp probably got bent. When the head points to sunrise a small cable on the conduit was snagging on the head mount and pulling at the conduit which then eventually bent the clamp enough to stop the RA motion completely, so I repositioned the cable out of the way. This probably was also the cause of the mysterious motor/encoder slippage problems that we had earlier in the year, it makes sense that there must have been some kind of additional load on the motor to cause the setscrew to loose its grip. Also the cable snagging probably caused some of the conduit splitting that continues to plaque us. So now the head moves freely and the data are going to tape again. Fri Mar 7 19:42:54 GMT 1997 dPMon Start Patrol DPMON COMMENT: Fri Mar 7 19:42:54 GMT 1997 Stalled in sync mode, used Kill/Run to restart. WEATHER COMMENT: Fri Mar 7 19:43:47 GMT 1997 Thick orographic clouds are creeping up the East slope towards MLSO. WEATHER COMMENT: Fri Mar 7 19:50:58 GMT 1997 Water vapor ahead of visible clouds is already degrading data. Fri Mar 7 20:00:58 GMT 1997 dPMon Flat Fri Mar 7 20:01:53 GMT 1997 dPMon End Flat Fri Mar 7 20:03:05 GMT 1997 CHIP Gain WEATHER COMMENT: Fri Mar 7 20:03:56 GMT 1997 Water vapor gone, data look good again. Fri Mar 7 20:07:27 GMT 1997 CHIP End Gain Fri Mar 7 20:07:37 GMT 1997 CHIP Bias Fri Mar 7 20:08:18 GMT 1997 CHIP End Bias Fri Mar 7 20:08:28 GMT 1997 CHIP Water Fri Mar 7 20:08:56 GMT 1997 CHIP End Water Fri Mar 7 21:00:53 GMT 1997 dPMon Flat Fri Mar 7 21:01:02 GMT 1997 CHIP Bias Fri Mar 7 21:01:49 GMT 1997 dPMon End Flat Fri Mar 7 21:01:52 GMT 1997 CHIP End Bias Fri Mar 7 21:02:02 GMT 1997 CHIP Water Fri Mar 7 21:02:35 GMT 1997 CHIP End Water WEATHER COMMENT: Fri Mar 7 22:01:49 GMT 1997 Wind is starting to come from a more Northerly direction, closing dome due to danger of getting dust blown into it. Fri Mar 7 22:03:21 GMT 1997 CHIP Bias Fri Mar 7 22:04:11 GMT 1997 CHIP End Bias Fri Mar 7 22:04:18 GMT 1997 CHIP Water Fri Mar 7 22:04:46 GMT 1997 CHIP End Water Fri Mar 7 22:26:01 GMT 1997 CHIP End Patrol CHIP Fri Mar 7 22:39:13 GMT 1997 ending tape CHIP COMMENT: Fri Mar 7 22:58:44 GMT 1997 Activity report: OP: 44; 62-77; 125-137; 240-255; 294. No coronal activity. TAPES: *****

MKIII: H001512 DPMON: P00839 CHIP: C00257

LOWL: L00444 in drive #0

SCAN-LOG

SCAN-LOG					
SCAN-LOG	17:30:03.	3/7/97 DOY	7 66		
17:34:	42 17	7:37:52	17:41:04	17:44:13	17:47:23
17:50:	33 17	7:53:44	17:56:54	18:00:06	18:03:17
18:06:	30 18	3:09:41	18:12:54	18:16:06	18:19:19
18:22:	32 18	3:25:47	18:28:59	1843 0 CL	18:49:06
1859 1	.5CL 19	0:09:06	19:16:52	19:20:06	19:23:22
19:26:	36 19	:29:51	19:33:06	19:36:23	19:39:37
19:42:	59 19	9:46:14	19:49:30	19:52:45	19:56:01
19:59:	15 20	0:02:31	20:05:47	20:09:04	20:12:21
20:15:	38 20	:18:53	20:22:09	20:25:25	20:28:42
20:31:	58 20	:35:15	20:38:30	20:41:47	20:45:02
20:48:	19 20	:51:35	20:54:57	20:58:12	21:01:29
21:04:	45 21	:08:03	21:11:18	21:14:35	21:17:50
21:21:	06 21	:24:21	21:27:41	21:30:57	21:34:14
21:37:	29 21	:40:45	21:44:00	21:47:16	21:50:31
21:53:	47 21	:57:02	22:00:17		

0 ERRORS

OK