
Mauna Loa Solar Observatory Observer's Log

Mon Oct 14 16:57:40 GMT 1996

Year: 96 Doy: 288

Observer: koon

WEATHER COMMENT: Mon Oct 14 16:57:46 GMT 1996

Clear sky up here but foggy and rainy from Hilo up to about 4 miles down the road from here, wind=10 mph from the SE, temp=47 F.

Mon Oct 14 17:02:41 GMT 1996 dPMon Start Patrol
Mon Oct 14 17:02:55 GMT 1996 CHIP CHIP Start Patrol
Mon Oct 14 18:02:56 GMT 1996 dPMon Flat
Mon Oct 14 18:03:52 GMT 1996 dPMon End Flat
Mon Oct 14 18:05:16 GMT 1996 CHIP Bias
Mon Oct 14 18:06:18 GMT 1996 CHIP End Bias
Mon Oct 14 18:06:28 GMT 1996 CHIP Water
Mon Oct 14 18:07:06 GMT 1996 CHIP End Water
Mon Oct 14 19:02:57 GMT 1996 dPMon Flat
Mon Oct 14 19:03:52 GMT 1996 dPMon End Flat
Mon Oct 14 19:12:45 GMT 1996 CHIP Bias
Mon Oct 14 19:14:01 GMT 1996 CHIP End Bias
Mon Oct 14 19:14:11 GMT 1996 CHIP Water
Mon Oct 14 19:14:44 GMT 1996 CHIP End Water

MKIII COMMENT: Mon Oct 14 19:26:28 GMT 1996

The Polar Plot from the calibration looked weird, like something was overflowing and wrapping around, lots of vertical lines, channel 21000, etc.

Mon Oct 14 20:01:03 GMT 1996 dPMon Flat
Mon Oct 14 20:01:55 GMT 1996 dPMon End Flat

COMMENT: Mon Oct 14 20:02:49 GMT 1996

Extended the dome slot.

Mon Oct 14 20:05:27 GMT 1996 CHIP Gain
Mon Oct 14 20:10:19 GMT 1996 CHIP End Gain
Mon Oct 14 20:10:28 GMT 1996 CHIP Bias
Mon Oct 14 20:11:15 GMT 1996 CHIP End Bias
Mon Oct 14 20:11:25 GMT 1996 CHIP Water
Mon Oct 14 20:11:54 GMT 1996 CHIP End Water

MKIII COMMENT: Mon Oct 14 20:10:04 GMT 1996

I coiled up the encoder gear preload spring as far as possible, but still get backlash error of 0.1 degree between barrel angles of 80 and 184 degrees while spinning in one direction. The shaft with the primary encoder gear is pinned to the gear, there is also an empty setscrew hole, through this hole it looks like the shaft is splined. The only way I can tell if the gear is slipping is to watch the readout downstairs at the same time as the barrel starts to move upstairs. I need to set up a camera to work on the dPMon vignetting also, so I'll try it then.

Mon Oct 14 21:00:54 GMT 1996 dPMon Flat
Mon Oct 14 21:01:47 GMT 1996 dPMon End Flat
Mon Oct 14 21:03:35 GMT 1996 CHIP Bias

Mon Oct 14 21:04:40 GMT 1996 CHIP End Bias
Mon Oct 14 21:04:49 GMT 1996 CHIP Water
Mon Oct 14 21:05:30 GMT 1996 CHIP End Water
Mon Oct 14 22:00:58 GMT 1996 dPMon Flat
Mon Oct 14 22:01:53 GMT 1996 dPMon End Flat
Mon Oct 14 22:07:09 GMT 1996 CHIP Bias
Mon Oct 14 22:08:27 GMT 1996 CHIP End Bias
Mon Oct 14 22:08:36 GMT 1996 CHIP Water
Mon Oct 14 22:09:14 GMT 1996 CHIP End Water
Mon Oct 14 23:01:00 GMT 1996 dPMon Flat
Mon Oct 14 23:01:56 GMT 1996 dPMon End Flat
Mon Oct 14 23:03:55 GMT 1996 CHIP Bias
Mon Oct 14 23:05:00 GMT 1996 CHIP End Bias
Mon Oct 14 23:05:11 GMT 1996 CHIP Water
Mon Oct 14 23:05:53 GMT 1996 CHIP End Water
Mon Oct 14 23:13:48 GMT 1996 dPMon End Patrol
Mon Oct 14 23:15:34 GMT 1996 CHIP CHIP End Patrol

DPMON COMMENT: Mon Oct 14 23:15:02 GMT 1996

Program didn't stop as it should have when I chose End. Did a Kill/Run to get back up so I could exit gracefully.

MKIII COMMENT: Mon Oct 14 23:16:05 GMT 1996

I routed a coax cable up into the dome from below with the camcorder in the control room watching the barrel angle readout, the other end was hooked up to a spare monitor I put in the dome. Comparing the start/stop of the barrel and the readout shows that there is no slippage between the encoder shaft and the gearing. The barrel would have to move 5 degrees before the encoder started to move for there to be a constant 5 degree offset throughout the whole scan. I'm out of ideas, but Alice said she may be able to coregister the scans with software.

Mon Oct 14 23:40:37 GMT 1996 CHIP ending tape

COMMENT: Mon Oct 14 23:41:39 GMT 1996

Activity report:

QP: 63; 115-130; 237; 278; 294.

No coronal activity.

TAPES:

MKIII: H01413

DPMON: P00737

CHIP: C00154

LOWL: L00420 in drive #0

SCAN-LOG

SCAN-LOG 17:03:56. 10/14/96 DOY 288

17:18:56	17:22:09	17:25:23	17:28:36	17:31:51
17:35:04	17:38:16	17:41:27	17:44:39	17:47:50
17:51:06	17:54:17	17:57:29	18:00:39	18:03:51
18:07:01	18:10:13	18:13:24	18:16:37	18:19:49
18:23:01	18:26:12	18:29:24	1836 0 CL	18:41:02

1847 15CL	19:05:36	19:22:40	19:25:52	19:29:05
19:32:17	19:35:34	19:38:45	19:42:02	19:45:13
19:48:26	19:51:37	19:54:49	19:58:01	20:01:13
20:04:24	20:07:36	20:10:47	20:13:58	20:17:11
20:20:29	20:23:40	20:26:51	20:30:01	20:33:13
20:36:23	20:39:39	20:42:51	20:46:03	20:49:14
20:52:25	20:55:35	20:58:47	21:01:57	21:05:10
21:08:20	21:11:32	21:14:42	21:17:53	21:21:03
21:24:15	21:27:25	21:30:36	21:33:46	21:36:58
21:40:08	21:43:20	21:46:30	21:49:47	21:53:00
21:56:11	21:59:22	22:02:33	22:05:44	22:08:55
22:12:08	22:15:21	22:18:31	22:21:42	22:24:52
22:28:04	22:31:14	22:34:26	22:37:36	22:40:48
22:43:58	22:47:10	22:50:20	22:53:32	22:56:42

0 ERRORS

OK