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Mauna Loa Solar Observatory Observer's Log  
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Tue Jun 17 16:48:23 GMT 1997

Year: 97 Doy: 168

Observer: koon

WEATHER COMMENT: Tue Jun 17 16:48:33 GMT 1997

Clear sky, no wind, temp=52 F.

Tue Jun 17 16:49:00 GMT 1997 CHIP Startup--Initializing new tape

Tue Jun 17 16:52:49 GMT 1997 dPMon Start Patrol

Tue Jun 17 16:52:52 GMT 1997 CHIP CHIP Start Patrol

Tue Jun 17 17:01:57 GMT 1997 dPMon Flat

Tue Jun 17 17:02:51 GMT 1997 dPMon End Flat

Tue Jun 17 17:03:05 GMT 1997 CHIP Bias

Tue Jun 17 17:03:49 GMT 1997 CHIP End Bias

Tue Jun 17 17:03:59 GMT 1997 CHIP Water

Tue Jun 17 17:04:36 GMT 1997 CHIP End Water

Tue Jun 17 17:36:05 GMT 1997 dPMon Start Patrol

DPMON COMMENT: Tue Jun 17 17:37:06 GMT 1997

Had an "OPTICS BUSY" crash, cleared with Kill/Run. I've been up in the dome trying to figure out some things about the way the Spar is guiding, so image occulting is going to change now and then.

Tue Jun 17 18:01:37 GMT 1997 dPMon Start Patrol

Tue Jun 17 18:35:11 GMT 1997 CHIP CHIP Start Patrol

Tue Jun 17 18:37:48 GMT 1997 dPMon Start Patrol

Tue Jun 17 18:44:02 GMT 1997 CHIP CHIP Start Patrol

DPMON COMMENT: Tue Jun 17 18:01:35 GMT 1997

Had another "Optics:Busy" crash, couldn't get Run to work, messages kept saying "Make MCC ready", also CHIP had the same crash, both of those symptoms point to a loose connection at an ethernet transceiver. So I wiggled the connections to the ethernet transceivers while trying to "ping" Kii and Nene until the ping got through. Both Kii and Nene observing programs crashed again until I positioned the ethernet transceiver so that there wasn't any strain on the cables. I marked the cable that appears to have a flaky BNC connector on it.

COMMENT: Tue Jun 17 18:49:40 GMT 1997

From my Spar guider and MKIII O1 guider testing it looks like the Spar is guiding very well but the range of the MKIII O1 guider is insufficient (due to those missing teeth on the Driving Gear) to keep the sun well occulted throughout the day. We either have to pick a time that we want good guiding (currently adjusted for after 2100 ut) or we have to adjust the Spar guider throughout the day and then adjust the dPMon occulting as necessary, I'll try this latter technique first.

Tue Jun 17 19:01:56 GMT 1997 dPMon Flat

Tue Jun 17 19:02:50 GMT 1997 dPMon End Flat

Tue Jun 17 19:03:11 GMT 1997 CHIP Bias

Tue Jun 17 19:04:02 GMT 1997 CHIP End Bias

Tue Jun 17 19:04:12 GMT 1997 CHIP Water

Tue Jun 17 19:04:51 GMT 1997 CHIP End Water

COMMENT: Tue Jun 17 19:17:29 GMT 1997

I adjusted the Spar guider so that the MKIII O1 guiders are semi-stable near the center of their travel.

DPMON COMMENT: Tue Jun 17 19:20:43 GMT 1997

I had to readjust the occulting due to the change in Spar guiding.

MKIII COMMENT: Tue Jun 17 19:21:11 GMT 1997

Occulting looks very good now.

COMMENT: Tue Jun 17 19:37:19 GMT 1997

Extended the dome slot. After repointing on the sun I found that I had to adjust the Spar guiding again so that the MKIII O1 guiding wouldn't be at a limit. When the sun was blocked by the dome the MKIII guiders took off and the N-S guider (which is the one with the bad gear) got out of adjustment due to gear slippage, this explains why Donna noticed that the "smudge" was occurring just after I adjusted the dome slot because that is when the O1 guider lost its guiding center. So we will have to adjust the Spar guiding after the dome slot extensions each day, and probably at least one other time at the start of the day once the Spar is guiding on the sun. Adjustments to the N-S adjusting screw are small, about plus or

minus 1/4 revolution, and the MKIII O1 guiders react fairly quickly once you get the right screw position, so this procedure takes one or two minutes at most.

MKIII COMMENT: Tue Jun 17 19:59:24 GMT 1997

I noticed that the Y-axis readout needle was pegged at the top of the scale, I went up into the dome and saw that the image was too far South on the occulting disk. I adjusted the Spar guiding again to improve this occulting.

Tue Jun 17 20:01:59 GMT 1997 dPMon Flat

DPMON COMMENT: Tue Jun 17 20:01:40 GMT 1997

I had to adjust the occulting due to a change in Spar guiding.

Tue Jun 17 20:02:56 GMT 1997 dPMon End Flat

Tue Jun 17 20:03:04 GMT 1997 CHIP Gain

Tue Jun 17 20:07:36 GMT 1997 CHIP End Gain

Tue Jun 17 20:07:43 GMT 1997 CHIP Bias

Tue Jun 17 20:08:23 GMT 1997 CHIP End Bias

Tue Jun 17 20:08:33 GMT 1997 CHIP Water

Tue Jun 17 20:09:02 GMT 1997 CHIP End Water

MKIII COMMENT: Tue Jun 17 20:52:51 GMT 1997

The guider Y-axis (N-S) pushrod is pushed toward the Spar and the motor is at its limit, but the occulting looks good.

MKIII COMMENT: Tue Jun 17 20:56:04 GMT 1997

Forgot to mention that neither guider readout needle is pegged though they are moving slightly.

Tue Jun 17 21:01:04 GMT 1997 CHIP Bias

Tue Jun 17 21:02:02 GMT 1997 dPMon Flat

Tue Jun 17 21:01:56 GMT 1997 CHIP End Bias

Tue Jun 17 21:02:07 GMT 1997 CHIP Water

Tue Jun 17 21:02:40 GMT 1997 CHIP End Water

Tue Jun 17 21:03:02 GMT 1997 dPMon End Flat

MKIII COMMENT: Tue Jun 17 21:17:24 GMT 1997

Depletion noticed between 2024 and 2043 at PA=310. Very noticeable, but maybe this is due to irregular O1/Spar guiding?

Tue Jun 17 22:03:04 GMT 1997 CHIP Bias

Tue Jun 17 22:03:50 GMT 1997 CHIP End Bias

Tue Jun 17 22:03:57 GMT 1997 CHIP Water

Tue Jun 17 22:04:32 GMT 1997 CHIP End Water

DPMON COMMENT: Tue Jun 17 22:10:31 GMT 1997

I just noticed that the Patrol was stalled with Program:K-Corona.

Did Kill/Run so that I could shut down all more elegantly.

Tue Jun 17 22:13:45 GMT 1997 CHIP CHIP End Patrol

Tue Jun 17 22:15:51 GMT 1997 CHIP ending tape

COMMENT: Tue Jun 17 22:12:00 GMT 1997

Activity report:

QP: 55; 102; 130; 150; 235; 270.

No coronal activity.

TAPES:

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MKIII: H01582

DPMON: P00913

CHIP: C00334

LOWL: L00460 in drive #0

SCAN-LOG

SCAN-LOG 16:53:37. 6/17/97 DOY 168

16:59:03	17:02:18	17:05:33	17:08:49	17:12:03
17:15:17	17:18:31	17:21:44	17:24:55	17:28:08
17:31:19	17:34:32	17:37:43	17:40:57	17:44:09
17:47:23	17:50:36	17:53:52	17:57:03	18:00:16
18:03:26	18:06:37	18:09:47	18:12:59	18:16:09
18:19:20	18:22:30	18:25:41	18:28:51	18:32:02
18:35:12	18:38:23	18:41:33	18:44:44	18:47:54
18:51:05	18:54:15	18:57:26	19:00:36	19:03:51
19:07:01	19:10:13	19:13:23	19:16:35	19:19:45
19:22:58	19:26:09	19:29:21	19:32:31	19:35:43
1949 0 CL	19:59:02	2004 15CL	20:13:49	20:20:59
20:24:11	20:27:27	20:30:37	20:33:51	20:37:03
20:40:15	20:43:26	20:46:39	20:49:49	20:53:01

20:56:11	20:59:22	21:02:33	21:05:50	21:09:03
21:12:16	21:15:27	21:18:45	21:21:55	21:25:07
21:28:20	21:31:32	21:34:43	21:37:55	21:41:06
21:44:18	21:47:30	21:50:44	21:53:57	21:57:14
22:00:27	22:03:46	22:06:57	22:10:15	

0 ERRORS

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