
Mauna Loa Solar Observatory Observer's Log

Mon Dec 18 17:04:39 GMT 2006

Year: 06 Doy: 352

Observer: yasukawa

WEATHER COMMENT: Mon Dec 18 17:04:45 GMT 2006

Clear, S wind 8 mph, temp 33 F.

____end____

Mon Dec 18 17:20:39 GMT 2006 CHIP Start Patrol

Mon Dec 18 17:20:49 GMT 2006 PICS Start Patrol

SBM COMMENT: Mon Dec 18 17:26:23 GMT 2006

Observing

____end____

PSPT COMMENT: Mon Dec 18 17:26:32 GMT 2006

Starting up.

____end____

A NEW TAPE HAS BEEN PUT INTO KAIEE DLT DRIVE, Mon Dec 18 17:26:48 GMT 2006

PSPT COMMENT: Mon Dec 18 17:45:50 GMT 2006

Observing

____end____

Mon Dec 18 17:46:04 GMT 2006 MKIV Start Patrol

Mon Dec 18 18:00:16 GMT 2006 PICS Flat

Mon Dec 18 18:02:39 GMT 2006 PICS End Flat

Mon Dec 18 18:02:48 GMT 2006 PICS ReStart Patrol

Mon Dec 18 18:03:01 GMT 2006 CHIP LSD

Mon Dec 18 18:04:44 GMT 2006 CHIP End LSD

Mon Dec 18 18:04:54 GMT 2006 CHIP BiasLSD

Mon Dec 18 18:05:52 GMT 2006 CHIP End BiasLSD

Mon Dec 18 18:06:00 GMT 2006 CHIP Bias

Mon Dec 18 18:06:50 GMT 2006 CHIP End Bias

Mon Dec 18 18:07:06 GMT 2006 CHIP ReStart Patrol

Mon Dec 18 18:10:08 GMT 2006 MKIV End Patrol

CHIP COMMENT: Mon Dec 18 18:21:31 GMT 2006

Will be running CHIP focus test.

Spar may shake around while removing CHIP covers and making adjustments.

SBM alignment will be affected by cover removal so I will be standing

down on SBM obs until the tests are over and I can realign the SBM.

____end____

Mon Dec 18 18:29:22 GMT 2006 CHIP End Patrol

Mon Dec 18 18:29:51 GMT 2006 MKIV End Cal

Mon Dec 18 18:29:57 GMT 2006 MKIV Start Patrol

SBM COMMENT: Mon Dec 18 18:30:01 GMT 2006

Paused observations.

____end____

CHIP PROBLEM: Mon Dec 18 20:44:50 GMT 2006

After removing covers, I discovered that the Meadowlark filter's front

and rear surfaces had oil smears near the edges, not encroaching more

than approximately 1/8" from the edge, on several areas around the circumference, the largest smear, about 1/2" long. Carefully cleaned the oil off the surfaces with alcohol swabs and lens tissue. I could not tell by looking up thru the filter whether there was any separation internally.

Loosened camera on mount, proceeding with focus test.

____end____

CHIP COMMENT: Mon Dec 18 20:53:28 GMT 2006

Original setting of focus (read off Oriol Encoder Mike Controller) is 20570.0.

I will be moving it thru a series of focus positions:

-600, -400, -200, 0, +200, +400, +600

checking the registration of the camera against the micrometer and the retaining spring each time, and then taking one patrol loop at each position.

____end____

CHIP COMMENT: Mon Dec 18 21:02:11 GMT 2006

At 19970.5

____end____

Mon Dec 18 21:02:37 GMT 2006 CHIP Start Patrol

Mon Dec 18 21:06:20 GMT 2006 CHIP End Patrol

CHIP PROBLEM Mon Dec 18 21:04:55 GMT 2006

Too much scattered light, covering the camera/filter area with dark cloth.

Repeating 19970.5

FixCEenter needs controller to be in remote mode. Switching changed focus. finished Patrol and then re-focused at 19972.4 (close as I could get it.)

____end____

Mon Dec 18 21:09:54 GMT 2006 CHIP Start Patrol

Mon Dec 18 21:11:10 GMT 2006 CHIP End Patrol

CHIP PROBLEM Mon Dec 18 21:11:18 GMT 2006

Exposure better but still a bit bright. Will go with that on this go-around otherwise, I'll have to put covers on between each adjustment.

If the micrometer/spring registration appears good each time, I'll put the covers on for the next two focus series.

____end____

CHIP COMMENT: Mon Dec 18 21:17:12 GMT 2006

focus set at 20170.1, mike/screw registration was good.

____end____

Mon Dec 18 21:18:16 GMT 2006 CHIP Start Patrol

Mon Dec 18 21:19:12 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 21:24:18 GMT 2006

focus set at 20369.2, registration OK.

____end____

Mon Dec 18 21:24:59 GMT 2006 CHIP Start Patrol

Mon Dec 18 21:25:52 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 21:27:16 GMT 2006

Focus set at 20571.0, registration OK.

____end____

Mon Dec 18 21:31:10 GMT 2006 CHIP Start Patrol
Mon Dec 18 21:32:12 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 21:33:33 GMT 2006

Focus set at 20771.4, registration OK.

___end___

Mon Dec 18 21:38:48 GMT 2006 CHIP Start Patrol
Mon Dec 18 21:40:01 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 21:41:46 GMT 2006

focus set at 20970.4, registration OK.

___end___

Mon Dec 18 21:46:55 GMT 2006 CHIP Start Patrol
Mon Dec 18 21:48:16 GMT 2006 CHIP End Patrol

Mon Dec 18 21:53:44 GMT 2006 CHIP Start Patrol

CHIP COMMENT: Mon Dec 18 21:50:00 GMT 2006

focus set at 21169.8, registration OK.

___end___

Mon Dec 18 21:55:26 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 21:56:02 GMT 2006

First series complete.

Procedure to prevent focus shift during FixCenter step is to press either M1 or M2 (X or Y) and then switch from local to remote before FixCenter begins. If M3 (focus) is selected, it will move after remote is selected during the FixCenter mode.

Looks like spring/mike registration is good throughout. I will put covers on to reduce scattered light.

___end___

CHIP COMMENT: Mon Dec 18 22:06:18 GMT 2006

Covers back on after repositioning focus to 19971.4 and checking registration on return to first test position.

___end___

Mon Dec 18 22:07:37 GMT 2006 CHIP Start Patrol
Mon Dec 18 22:08:51 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 22:10:42 GMT 2006

focus set at 20169.7

___end___

Mon Dec 18 22:11:17 GMT 2006 CHIP Start Patrol
Mon Dec 18 22:12:16 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 22:13:25 GMT 2006

focus set at 20370.6

___end___

Mon Dec 18 22:14:00 GMT 2006 CHIP Start Patrol
Mon Dec 18 22:14:53 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 22:15:52 GMT 2006

Focus set at 20570.2

___end___

Mon Dec 18 22:16:21 GMT 2006 CHIP Start Patrol
Mon Dec 18 22:17:36 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 22:18:30 GMT 2006

focus set at 20770.6

____end____

Mon Dec 18 22:19:00 GMT 2006 CHIP Start Patrol

Mon Dec 18 22:20:00 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 22:20:51 GMT 2006

focus set at 20969.6

____end____

Mon Dec 18 22:21:27 GMT 2006 CHIP Start Patrol

Mon Dec 18 22:22:27 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 22:24:06 GMT 2006

focus set at 21171.0

____end____

Mon Dec 18 22:24:41 GMT 2006 CHIP Start Patrol

Mon Dec 18 22:25:29 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 22:28:41 GMT 2006

Checked registration at 21171.0. OK

Moved to 19969.8 and checked registration. OK.

____end____

CHIP COMMENT: Mon Dec 18 22:32:05 GMT 2006

Re-covered CHIP. Starting third focus test series--second test series
with covers (better exposure) loosely in place.

focus is set at 19969.8

____end____

Mon Dec 18 22:34:11 GMT 2006 CHIP Start Patrol

Mon Dec 18 22:35:07 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 22:37:42 GMT 2006

focus is set at 20171.1

____end____

Mon Dec 18 22:38:27 GMT 2006 CHIP Start Patrol

Mon Dec 18 22:39:30 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 22:40:59 GMT 2006

focus set at 20370.5

____end____

Mon Dec 18 22:41:27 GMT 2006 CHIP Start Patrol

Mon Dec 18 22:42:27 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 22:43:27 GMT 2006

Focus is set to 20570.6

____end____

Mon Dec 18 22:44:00 GMT 2006 CHIP Start Patrol

Mon Dec 18 22:45:26 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 22:46:51 GMT 2006

focus set at 20769.8

____end____

Mon Dec 18 22:47:18 GMT 2006 CHIP Start Patrol

Mon Dec 18 22:48:46 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 22:49:53 GMT 2006

focus set at 20969.6

____end____

Mon Dec 18 22:50:32 GMT 2006 CHIP Start Patrol
Mon Dec 18 22:51:32 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 22:52:40 GMT 2006
focus set at 21169.4

____end____

Mon Dec 18 22:53:10 GMT 2006 CHIP Start Patrol
Mon Dec 18 22:54:00 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 23:03:50 GMT 2006

Removed covers, checked registration at 21169.4, looked OK.

Moved back to first position in test series, 19969.9, registration OK.

Re-covered CHIP.

Decided to repeat series one more time in order to get three focus test series with the covers on (loosely) for better exposures. First series is inconsistent with the cover-on series.

____end____

CHIP COMMENT: Mon Dec 18 23:07:16 GMT 2006
focus set at 19969.9

____end____

Mon Dec 18 23:07:43 GMT 2006 CHIP Start Patrol
Mon Dec 18 23:08:54 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 23:09:43 GMT 2006

focus set at 20170.9

____end____

Mon Dec 18 23:10:12 GMT 2006 CHIP Start Patrol
Mon Dec 18 23:11:15 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 23:12:14 GMT 2006

focus set at 20371.0

____end____

Mon Dec 18 23:12:46 GMT 2006 CHIP Start Patrol
Mon Dec 18 23:13:39 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 23:15:56 GMT 2006

focus set at 20569.9

____end____

Mon Dec 18 23:16:31 GMT 2006 CHIP Start Patrol
Mon Dec 18 23:17:28 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 23:18:11 GMT 2006

focus set at 20769.9

____end____

Mon Dec 18 23:18:49 GMT 2006 CHIP Start Patrol
Mon Dec 18 23:19:51 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 23:20:52 GMT 2006

focus set at 20969.4

____end____

Mon Dec 18 23:21:25 GMT 2006 CHIP Start Patrol
Mon Dec 18 23:22:15 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 23:23:41 GMT 2006

focus set at 21169.6

____end____

Mon Dec 18 23:24:17 GMT 2006 CHIP Start Patrol

Mon Dec 18 23:25:13 GMT 2006 CHIP End Patrol

CHIP COMMENT: Mon Dec 18 23:25:52 GMT 2006

Focus test pau.

Will check registration at last position, move to original position, check registration, secure camera on dovetail, and break for lunch before putting covers back on.

___end___

****CHIP PROBLEM****: Mon Dec 18 23:29:47 GMT 2006

Buggers! I need to stop everybody and move spar in order to reach CHIP at this time. Will postpone lunch and do the checks and restoration first.

___end___

Mon Dec 18 23:31:42 GMT 2006 PICS End Patrol

Mon Dec 18 23:35:51 GMT 2006 MKIV End Patrol

Tue Dec 19 00:34:31 GMT 2006 MKIV Start Patrol

CHIP COMMENT: Tue Dec 19 00:36:26 GMT 2006

Covers back on CHIP. Focus is set at 20570.8

Filter surfaces look OK for now. Took a bunch of photos to document insides before buttoning up. Restored encoder mike controller to remote status.

___end___

Tue Dec 19 00:38:29 GMT 2006 CHIP Start Patrol

Tue Dec 19 00:38:44 GMT 2006 PICS Start Patrol

****SBM PROBLEM****: Tue Dec 19 00:48:26 GMT 2006

Restarted SBM and did some alignment. It is well aligned but there is a strange artifact near one of the struts. Something may have come loose and fallen inside tube. Waiting for SBM to get lower before I look down the tube with a mirror. Good time to eat some lunch--finally!

___end___

****PSPT PROBLEM****: Tue Dec 19 01:19:21 GMT 2006

I just received email that PSPT crashed. It was actually still running, taking images. Data transfer may have crashed, though so I killed program and restarted it.

___end___

****SBM PROBLEM****: Tue Dec 19 01:21:13 GMT 2006

I don't see the artifact anymore. I'll wait until close to shutdown to look down the tube-- it'll be safer then.

___end___

NICE MK4 IMAGE: 1820

NICE PICSLIMB IMAGE: 1815

NICE PICSDISC IMAGE: 1814

NICE CHIP IMAGE: 1816

GONG COMMENT: Tue Dec 19 01:24:30 GMT 2006

Going down to GONG to do weekly PM.

___end___

GONG COMMENT: Tue Dec 19 01:48:08 GMT 2006

Back from GONG.

___end___

WEATHER COMMENT: Tue Dec 19 01:48:19 GMT 2006
Seeing is deteriorating. Fortunately, I think today's seeing was pretty good most of the day throughout the CHIP focus tests.

____end____
SBM PROBLEM : Tue Dec 19 01:49:26 GMT 2006
pausing to look down the tube.

____end____
SBM COMMENT: Tue Dec 19 01:57:36 GMT 2006
I did not see anything out of the ordinary inside and at the aperture of the tube. I do not see the "artifact" that was on the initial image(s) after reassembling CHIP and re-aligning the SBM. Observing.

____end____
CHIP COMMENT: Tue Dec 19 02:18:59 GMT 2006
Unplugged p3 (focus control cable) from Oriel encoder mike controller. Cable is normally unplugged to prevent changing focus. Plugged it it for tests.

____end____
Tue Dec 19 02:26:29 GMT 2006 MKIV End Patrol
Tue Dec 19 02:27:17 GMT 2006 CHIP End Patrol
Tue Dec 19 02:27:37 GMT 2006 PICS End Patrol
Tue Dec 19 02:35:42 GMT 2006

MkIV

00_34.rawmk4	02_08.rawmk4	19_14.rawmk4	20_48.rawmk4	22_22.rawmk4
00_37.rawmk4	02_11.rawmk4	19_16.rawmk4	20_50.rawmk4	22_25.rawmk4
00_40.rawmk4	02_14.rawmk4	19_19.rawmk4	20_53.rawmk4	22_27.rawmk4
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00_52.rawmk4	17_46.rawmk4	19_31.rawmk4	21_05.rawmk4	22_39.rawmk4
00_55.rawmk4	17_49.rawmk4	19_34.rawmk4	21_08.rawmk4	22_42.rawmk4
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01_59.rawmk4	19_05.rawmk4	20_39.rawmk4	22_13.rawmk4	
02_02.rawmk4	19_08.rawmk4	20_42.rawmk4	22_16.rawmk4	
02_05.rawmk4	19_11.rawmk4	20_45.rawmk4	22_19.rawmk4	