

LBT Observing Log: 2025 Feb 28 UT

Observers: Justin Rupert

Partner Observer:

Telescope Operator: David Gonzalez Huerta

Plan:

Starting with PEPSI given the abysmal seeing forecast by ALTA. We'll have MODS and LBCs ready if conditions improve.

Summary:

Never opened. At first it was dust, but winds took over and remained above the observing limit.

Issues:

IT 7399: Bad bias voltage and trackers not starting on LBCB.

IT 7777: MODS2R vacuum leak.

Weather:

Dust and wind did us in tonight.

Overview (times are given in UT):

23:03 UT MODS awake, simSnap taken. Running up some calibrations.

Calibrations

Dual grating 1x1 calibrations: /lbt/lbto/mods/modsCalibs_OT/Dual

Dual grating 1x2 Calibrations: /lbt/lbto/mods/modsCalibs_OT/Bin12/Dual

mods[#{r/b}.20250228.00##.fits

Cal (1x1bin Dual Grating)	m1b	m1r	m2b	m2r	Notes
8Kx3K bias	3-7	3-7	3-7	3-7	
3Kx3K bias	8-12	8-12	8-12	8-12	

grpixflats	13-22	13-17	13-22	13-17	
grlamps	53-55	40-42	53-55	40-42	
grslitflats_1.0	56-61	43-48	56-61	43-48	
grslitflats_2.4	62-67	49-54	62-67	49-54	
grslitflats_5.0	68-73	55-57	68-73	55-57	
Cal (1x2bin Dual Grating)					
bias8K_bin12	23-27	18-22	23-27	18-22	
grslitflats_0.8_bin12	28-33	23-28	28-33	23-28	
grlamps_bin12	34-36	29-31	34-36	29-31	
grslitflats_5.0_bin12	37-42	32-34	37-42	32-34	
grpixflats_bin12	43-52	35-39	43-52	35-39	

01:00 Warming LBCs.

01:10 Turning on LBCs.

01:14 IT 7399

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54  2025/02/28  01:14:03.412496  TrackersInitialize failed, disabling TRACKERS
system
53  2025/02/28  01:14:03.412448  trackers system encountered a problem: CCD
Controller error (9) [src/channel/channel.c:542]
52  2025/02/28  01:13:11.188071  TRACKERS          ccdctrlinit failed; CCD
Controller error (8) [src/trackers/trackers.c:728]
51  2025/02/28  01:13:09.448000  TRACKERS  CCDCTRL  bad Bias voltage line
16 ( +0.52V instead of +0.0V+-0.5V)
50  2025/02/28  01:13:09.401000  TRACKERS  CCDCTRL  bad Bias voltage line
14 (+21.65V instead of +21.0V+-0.5V)
49  2025/02/28  01:13:09.386000  TRACKERS  CCDCTRL  bad Bias voltage line
13 (+21.65V instead of +21.0V+-0.5V)
48  2025/02/28  01:13:09.354000  TRACKERS  CCDCTRL  bad Bias voltage line
12 ( +0.68V instead of +0.0V+-0.5V)
47  2025/02/28  01:13:09.323000  TRACKERS  CCDCTRL  bad Bias voltage line
10 ( +9.71V instead of +9.0V+-0.5V)
46  2025/02/28  01:13:09.292000  TRACKERS  CCDCTRL  bad Bias voltage line
9 (+15.52V instead of +15.0V+-0.5V)

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45	2025/02/28	01:13:09.276000	TRACKERS	CCDCTRL	bad Bias voltage line
8 (+0.61V instead of +0.0V+-0.5V)					
44	2025/02/28	01:13:09.245000	TRACKERS	CCDCTRL	bad Bias voltage line
7 (+0.52V instead of +0.0V+-0.5V)					
43	2025/02/28	01:13:09.214000	TRACKERS	CCDCTRL	bad Bias voltage line
5 (+0.52V instead of +0.0V+-0.5V)					
42	2025/02/28	01:13:09.182000	TRACKERS	CCDCTRL	bad Bias voltage line
3 (-5.46V instead of -6.0V+-0.5V)					
41	2025/02/28	01:13:09.135000	TRACKERS	CCDCTRL	bad Bias voltage line
1 (-5.46V instead of -6.0V+-0.5V)					
40	2025/02/28	01:13:05.525000	TRACKERS	CCDCTRL	bad Bias voltage line
16 (+0.52V instead of +0.0V+-0.5V)					
39	2025/02/28	01:13:05.494000	TRACKERS	CCDCTRL	bad Bias voltage line
14 (+21.65V instead of +21.0V+-0.5V)					
38	2025/02/28	01:13:05.400000	TRACKERS	CCDCTRL	bad Bias voltage line
9 (+15.51V instead of +15.0V+-0.5V)					
37	2025/02/28	01:13:05.384000	TRACKERS	CCDCTRL	bad Bias voltage line
8 (+0.52V instead of +0.0V+-0.5V)					
36	2025/02/28	01:13:05.337000	TRACKERS	CCDCTRL	bad Bias voltage line
6 (+0.52V instead of +0.0V+-0.5V)					
35	2025/02/28	01:13:05.322000	TRACKERS	CCDCTRL	bad Bias voltage line
5 (+0.70V instead of +0.0V+-0.5V)					
34	2025/02/28	01:13:05.291000	TRACKERS	CCDCTRL	bad Bias voltage line
4 (-4.38V instead of -5.0V+-0.5V)					
33	2025/02/28	01:13:05.275000	TRACKERS	CCDCTRL	bad Bias voltage line
3 (-5.43V instead of -6.0V+-0.5V)					
32	2025/02/28	01:13:05.244000	TRACKERS	CCDCTRL	bad Bias voltage line
2 (-4.42V instead of -5.0V+-0.5V)					
31	2025/02/28	01:13:05.228000	TRACKERS	CCDCTRL	bad Bias voltage line
1 (-5.43V instead of -6.0V+-0.5V)					
30	2025/02/28	01:13:01.618000	TRACKERS	CCDCTRL	bad Bias voltage line
16 (+0.52V instead of +0.0V+-0.5V)					
29	2025/02/28	01:13:01.508000	TRACKERS	CCDCTRL	bad Bias voltage line
9 (+15.51V instead of +15.0V+-0.5V)					
28	2025/02/28	01:13:01.477000	TRACKERS	CCDCTRL	bad Bias voltage line
8 (+0.52V instead of +0.0V+-0.5V)					
27	2025/02/28	01:13:01.461000	TRACKERS	CCDCTRL	bad Bias voltage line
7 (+0.70V instead of +0.0V+-0.5V)					
26	2025/02/28	01:13:01.430000	TRACKERS	CCDCTRL	bad Bias voltage line
6 (+0.68V instead of +0.0V+-0.5V)					
25	2025/02/28	01:13:01.414000	TRACKERS	CCDCTRL	bad Bias voltage line
5 (+0.70V instead of +0.0V+-0.5V)					
24	2025/02/28	01:13:01.399000	TRACKERS	CCDCTRL	bad Bias voltage line
4 (-4.38V instead of -5.0V+-0.5V)					

23	2025/02/28	01:13:01.368000	TRACKERS	CCDCTRL	bad Bias voltage line
3 (-5.43V instead of -6.0V+-0.5V)					
22	2025/02/28	01:13:01.336000	TRACKERS	CCDCTRL	bad Bias voltage line
1 (-5.43V instead of -6.0V+-0.5V)					
21	2025/02/28	01:12:57.710000	TRACKERS	CCDCTRL	bad Bias voltage line
15 (+15.51V instead of +15.0V+-0.5V)					
20	2025/02/28	01:12:57.663000	TRACKERS	CCDCTRL	bad Bias voltage line
13 (+21.63V instead of +21.0V+-0.5V)					
19	2025/02/28	01:12:57.648000	TRACKERS	CCDCTRL	bad Bias voltage line
12 (+0.52V instead of +0.0V+-0.5V)					
18	2025/02/28	01:12:57.616000	TRACKERS	CCDCTRL	bad Bias voltage line
11 (+9.73V instead of +9.0V+-0.5V)					
17	2025/02/28	01:12:57.585000	TRACKERS	CCDCTRL	bad Bias voltage line
9 (+15.52V instead of +15.0V+-0.5V)					
16	2025/02/28	01:12:57.538000	TRACKERS	CCDCTRL	bad Bias voltage line
7 (+0.61V instead of +0.0V+-0.5V)					
15	2025/02/28	01:12:57.507000	TRACKERS	CCDCTRL	bad Bias voltage line
5 (+0.52V instead of +0.0V+-0.5V)					
14	2025/02/28	01:12:57.491000	TRACKERS	CCDCTRL	bad Bias voltage line
4 (-4.38V instead of -5.0V+-0.5V)					
13	2025/02/28	01:12:57.460000	TRACKERS	CCDCTRL	bad Bias voltage line
3 (-5.46V instead of -6.0V+-0.5V)					
12	2025/02/28	01:12:53.818000	TRACKERS	CCDCTRL	bad Bias voltage line
16 (+0.52V instead of +0.0V+-0.5V)					
11	2025/02/28	01:12:53.787000	TRACKERS	CCDCTRL	bad Bias voltage line
15 (+15.52V instead of +15.0V+-0.5V)					
10	2025/02/28	01:12:53.772000	TRACKERS	CCDCTRL	bad Bias voltage line
14 (+21.63V instead of +21.0V+-0.5V)					
9	2025/02/28	01:12:53.756000	TRACKERS	CCDCTRL	bad Bias voltage line
13 (+21.65V instead of +21.0V+-0.5V)					
8	2025/02/28	01:12:53.725000	TRACKERS	CCDCTRL	bad Bias voltage line
12 (+0.52V instead of +0.0V+-0.5V)					
7	2025/02/28	01:12:53.678000	TRACKERS	CCDCTRL	bad Bias voltage line
9 (+15.51V instead of +15.0V+-0.5V)					
6	2025/02/28	01:12:53.647000	TRACKERS	CCDCTRL	bad Bias voltage line
8 (+0.52V instead of +0.0V+-0.5V)					
5	2025/02/28	01:12:53.615000	TRACKERS	CCDCTRL	bad Bias voltage line
6 (+0.52V instead of +0.0V+-0.5V)					
4	2025/02/28	01:12:53.584000	TRACKERS	CCDCTRL	bad Bias voltage line
5 (+0.52V instead of +0.0V+-0.5V)					
3	2025/02/28	01:12:53.568000	TRACKERS	CCDCTRL	bad Bias voltage line
4 (-4.38V instead of -5.0V+-0.5V)					
2	2025/02/28	01:12:53.537000	TRACKERS	CCDCTRL	bad Bias voltage line
3 (-5.43V instead of -6.0V+-0.5V)					

1	2025/02/28	01:12:53.521000	TRACKERS	CCDCTRL	bad Bias voltage line
2 (-4.36V instead of -5.0V+-0.5V)					
0	2025/02/28	01:12:53.490000	TRACKERS	CCDCTRL	bad Bias voltage line
1 (-5.26V instead of -6.0V+-0.5V)					

Turning off/on. Worked. More Bad bias voltages after successful power on:

65	2025/02/28	01:21:52.899000	TRACKERS	CCDCTRL	bad Bias voltage line
16 (+0.53V instead of +0.0V+-0.5V)					
64	2025/02/28	01:21:52.883000	TRACKERS	CCDCTRL	bad Bias voltage line
15 (+15.52V instead of +15.0V+-0.5V)					
63	2025/02/28	01:21:52.852000	TRACKERS	CCDCTRL	bad Bias voltage line
14 (+21.65V instead of +21.0V+-0.5V)					
62	2025/02/28	01:21:52.821000	TRACKERS	CCDCTRL	bad Bias voltage line
12 (+0.53V instead of +0.0V+-0.5V)					
61	2025/02/28	01:21:52.789000	TRACKERS	CCDCTRL	bad Bias voltage line
11 (+9.55V instead of +9.0V+-0.5V)					
60	2025/02/28	01:21:52.758000	TRACKERS	CCDCTRL	bad Bias voltage line
9 (+15.52V instead of +15.0V+-0.5V)					
59	2025/02/28	01:21:52.742000	TRACKERS	CCDCTRL	bad Bias voltage line
8 (+0.52V instead of +0.0V+-0.5V)					
58	2025/02/28	01:21:52.711000	TRACKERS	CCDCTRL	bad Bias voltage line
7 (+0.52V instead of +0.0V+-0.5V)					
57	2025/02/28	01:21:52.696000	TRACKERS	CCDCTRL	bad Bias voltage line
6 (+0.53V instead of +0.0V+-0.5V)					
56	2025/02/28	01:21:52.649000	TRACKERS	CCDCTRL	bad Bias voltage line
4 (-4.45V instead of -5.0V+-0.5V)					
55	2025/02/28	01:21:52.633000	TRACKERS	CCDCTRL	bad Bias voltage line
3 (-5.46V instead of -6.0V+-0.5V)					
54	2025/02/28	01:21:52.602000	TRACKERS	CCDCTRL	bad Bias voltage line
2 (-4.38V instead of -5.0V+-0.5V)					
53	2025/02/28	01:21:52.586000	TRACKERS	CCDCTRL	bad Bias voltage line
1 (-5.44V instead of -6.0V+-0.5V)					

01:32 Got the email to cycle the M1.BC IC.

01:34 Timeout on MODS2 at BLUE FLAT Retry worked.

01:38 Cycling M1.BC IC.

01:42 Running 2-bias checkout.

01:44 Images seem to be displaying fine with RB_Science. Running 25 biases. Staying closed due to high particle counts. All-sky images are quite hazy.

02:08 12-degree twilight

02:36 18-degree twilight.

02:38 Running MODS arcs for OSU_SCAT.

02:44 blue fitsflush on MODS1.

03:09 Running red fitsflush on MODS1.

03:11 Running OSU_lmcsat slit flats.

03:41 MODS1B timeout at CCDBIN.

04:08 Running LUCI bino darks.

04:26 Pressure on MODS2R has been rising slowly from 1.00E-3. It's at 1.03E-3 now. Temp is nominal.

06:14 MODS2R pressure is at 1.05E-3. Temps still nominal.

07:44 MODS2R pressure is at 1.07E-3. Temps still nominal.

09:14 MODS2R pressure is at 1.10E-3. Temps still nominal.

10:46 MODS2R pressure is at 1.15E-3. Temps still nominal.

11:54 MODS2R pressure is at 1.19E-3. Temps still nominal. Calling the night.