

LBT Observing Log: 2025 Nov 17 UT

Observers: Jenny Power

Partner Observer: Marshall Johnson

Telescope Operator: Riccardo Ansaldi

Plan:

If we open, we will start with Pepsi POL for the polarimetry programs.

Summary:

Did not open

Issues:

Weather:

High humidity and high winds, with rime ice encasing the dome

Overview:

23:18 UT LUCIs initialized. Telescope configured for PEPSI POL. Just waiting for the telescope to be handed from day to night ops for the test preset. High humidity, fog, rain, and high winds gusting to 27m/s. No snow accumulation.

23:53 UT With the high winds, Riccardo will hold off on his test preset, but otherwise the telescope has been checked out for PEPSI POL. We are standing by and monitoring conditions.

Starting LUCI calibrations:

Starting imaging cals for UVa_nirjets

luci2.20251117.0021-30 PaB

luci2.20251117.0031-40 FeII

luci2.20251117.0041-50 H2

luci2.20251117.0051-60 J

luci2.20251117.0061-70 H

luci2.20251117.0071-80 BrG

luci2.20251117.0081-90 K

After the resolution of FW1 issue

luci1.20251117.0034-43 PaB

luci1.20251117.0044-53 Fell

luci1.20251117.0054-63 H2

luci1.20251117.0064-73 J

luci1.20251117.0074-83 H

luci1.20251117.0084-93 BrG

luci1.20251117.0094-103 K

PaB failed to move into the detent on the first attempt. 4x+10 triggered switch 6, init and resumed script

This appears to not have resolved it. The following filter move to Fell failed to move to detent. +10 triggered switches 6 and 4. Fell should trigger 6,5, 3 only. This would suggest the J High filter, unless one of the other switches is bad.

Moving in increments of 194 until a known state visually is reached.

Commanded move	Counter	Switches	Corresponding filter	
	1404	6,4	J-High	But was commanded Fell
+194	1598	4,3		
+10	1608	6,4,3	PV-Lens	
+194	1802	6,5	OH_1190	
+194	1996	6,5,3	Fell	
+194	2190	6,5,4	H2	
+194	2384	6,5,4,3	Hel	
+194	2578	3	BrG	
+194	2772	4	OH_1060	
+194	2966	none		
+10	2976	4,3	clear	Image 0031 confirmed clear
+194	3170	5	blind	Image 0032 confirmed blind

Testing if moves in the negative and positive dir are equally reliable

Commanded move	Counter	Switches	Corresponding filter	
	3170	5	blind	
-194	2976	4,3	clear	
-194	2782	4	OH_1060	
-194	2588	3	BrG	
-194	2394	4,3		
-10	2384	6,5,4,3	Hel	Within standard autocorrect
-194	2190	6,5,4	H2	
-194	1996	6,5,3	Fell	
-194	1802	none		
-10	1792	6,5	OH_1090	Within standard autocorrect
-194	1598	6,4,3	PV_lens	
-194	1404	6,4	J_high	
-194	1210	6,3	J_Low	
-194	1016	6	P_beta	
-194	822	5,4,3	P,gam	
-194	628	5,4	Y2	
-194	434	5,3	Y1	
-194	240	5	blind	
+194	434	5,3	Y1	
+194	628	5,4	Y2	
+194	822	NONE		

+10	832	5,4,3	P_gam	Within standard autocorrect
+194	1026	6	P_beta	
+194	1220	NONE		
3x+10	1250	6,3	J_Low	Within standard autocorrect
194	1444	6,4	J_High	
194	1638	NONE		
3x+10	1668	6,4,3	PV_Lens	Within standard autocorrect
194	1862	NONE		
+10	1872	6,5	OH_1090	Within standard autocorrect
194	2066	6,5,3	Fell	
194	2260	6,5,4	H2	
194	2454	NONE		
3x+10	2484	6,5,4,3	Hel	
194	2678	3	BrG	
194	2872	4	OH_1060	
194	3066	4,3	clear	
194	3260	5	blind	

03:29 UT Winds gusting to just under 25m/s, humidity remains 100%, continuing to wait.

04:41 UT Winds are starting to trend down, humidity still 100%. There is accumulation of ice or snow on the all-sky camera. Riccardo has confirmed that ice is starting to form across surfaces.

06:53 UT Significant ice accumulation on the building. Humidity is still 100%. Night is being called.