

# LBT Observing Log for 2024 10 30 UT

Observers: Jenny

Partner Observer: Evan Skillman

Telescope Operator: Josh Williams

**Plan:** Plan is to observe high priority Pepsi targets

## Summary:

At first we tried to obtain the calibration observation of 58 AQL for UM\_2024B-001, but the wind from the SW was too strong so we shifted to sources in the NE.

We observed the BHB 2MASSJ19052961+6233154 from OSU\_BH binaries. The s/n was right on as planned.

We then observed TIC 278352276 from UVa\_Multistar. This target was observed in its “high” priority period. Again the s/n was as planned.

Immediately after that, the wind picked up to a level requiring closing and stayed at that level. The wind is having trouble following the Mount Graham Clear Sky Chart which clearly states that the wind is not a concern.

[OSU BH Binaries Gaia Dr3 2252263532714971136](#)

[MultiStar TIC278352276](#)

[Weather Downtime](#)

[Calibrations](#)

## Issues:

## Weather:

Lost most of the night to high winds. Humidity rose above limits for the last few hours of the night.

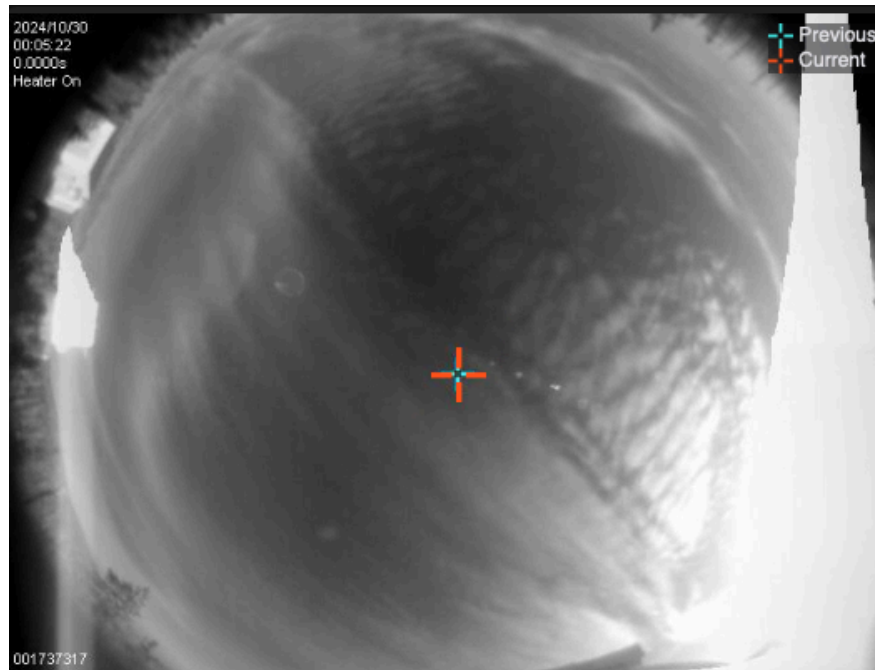
## Overview (times are given in UT):

23:36 UT Verified all PEPSI scripts are loaded. Reviewing LUCI loaded scripts I found that OSU\_XMDs\_LUCI and UM\_XMDs\_LUCI were made for LUCI2, converted to LUCI1. The UVa nirjets program is a fraternal imaging program and the scripts will need to be remade for monocular operations - now mono scripts have been uploaded for nirjets.

23:54 UT Starting up MODS and LBC and taking a few cals just in case.

00:03 UT MODS SimSnap looks good and taking a mods bias all (8Kx3K, 4Kx3K, 3Kx3K, 1Kx1K). Powered up LBCs and taking 25xbiases.

00:09 UT Clouds moving and winds are quite gusty.



00:36 UT Sunset

00:49 UT Josh has opened. It's probably a bit early but he's sending the first pointing preset to get us in place for 58 Aql

01:01 UT Tried to slew to UM PEPSI V1405 Cas - Calibrator but the torques were too high on the drives with teh high winds. The winds do appear to be coming down a bit. Winds still gusting to 17.2m/s

## OSU BH Binaries Gaia Dr3 2252263532714971136

01:07 UT Josh is doing a pointing check near the target. Gusting to 19.7m/s now. Mostly clear now

01:16 UT Winds continue to tick up 21.7m/s. Seeing ~2"

01:19 UT Preset sent to OSU BH Binaries Gaia Dr3 2252263532714971136..

01:21 UT Starting science. Executing CD3 CD5

01:25 UT 12 Degree twilight

01:29 UT Seeing 1.4" on the guider.

SNR CD3 98/CD5 119

## MultiStar TIC278352276

01:32 UT Preset to target TIC278352276. Mostly clear, seeing 1.46" on the guider.

01:34 UT Starting science CD 3 CD 6  
SNR CD3 104/ CD6 106

## Weather Downtime

01:37 UT Winds have blasted past our limit, 23.5m/s. We are closing.

01:55 UT Wind gusting to 25m/s and seems to be trending up.

02:13 UT Gusting to 28.2 m/s

02:44 UT Winds calming a bit, Gusting to 23.1m/s. Still a bit of a ways to go before we can open but trending the right way.

04:09 UT Winds are gusting to 22.5 m/s but did appear to be trending down briefly.

05:05 UT Wind continues to gust well over the limits, up to 26 m/s.

07:17 UT Winds continue to gust to 23.5m/s. Humidity has crept up steadily and now sits at 89.1%.

08:44 UT Humidity is pegged at 99.9% and frost has started forming on the all sky. Temps have been steadily falling all night, dropping from 0C at sunset to -6C

10:36 UT All sky is frosted over. Humidity remains at 99.9%. Winds have dropped to gusting to 18.8m/s,

11:40 UT Calling the night. Humidity is dropping off but winds remain high and there was quite a bit of ice formation.

## Calibrations

Taking PEPSI calibrations

12:42 UT 12 degree morning twilight

13:31 UT Sunrise