

# LBT Observing Log: 2025 JUL 05 UT

Observers: Alex Becker, Ilya Ilyin

Partner Observer:

Telescope Operator: David Gonzalez Huerta

## Plan:

Starting with PEPSI-PFU and switching over to PEPSI-POL (OSU\_WMBStokesV) around midnight

## Summary:

We got about 3.5h of data during the first half of the night. Closing afterwards mainly for clouds. But also had spikes in particle counts and humidity between 90% & 95%.

Night called 30 minutes before 18deg twilight (~1h before 12deg twilight)

## Issues:

## Weather:

Mostly clear & good seeing ( $\leq 1''$ ) for OSU\_MWAbundDisp and the first half of UM\_PEPSITCrB. From UT 06:20 on, the seeing got worse over time and some clouds were passing through for the last 30min of TCrB.  
Closed for the second half of the night due to clouds.

## Overview (times are given in UT):

### PEPSI-PFU

03:08 Opening

03:29 Losing the GS on DX during initial pointing and collimation check.

OSU\_MWAbundDisp

Seeing 0.9", DIMM 1.2"

2MJ1241+3749

03:33 Preset

03:35 Starting science exposure

0.25 mag of extinction due to clouds

SNR 163/305

2MJ1301+5702

03:41 Preset

03:44 Starting science exposure

SNR 175/406

2MJ1321+5403

03:50 Preset

03:51 Pointing check

03:55 Preset

03:56 Starting science exposure

SNR 188/365

2MJ1339+2820

04:01 Preset

04:04 Pointing check

04:07 Preset

04:08 Starting science exposure

SNR 218/457

UM\_PEPSITCrB

HR5501

DIMM 1.1, GCS 0.5"-0.7"

04:14 Preset

04:17 Starting science exposure

04:37 ~1 mag of extinction

T CrB

04:44 Pointing check

04:45 We have to close. Threatening clouds

05:43 Opening again

05:52 Pointing check

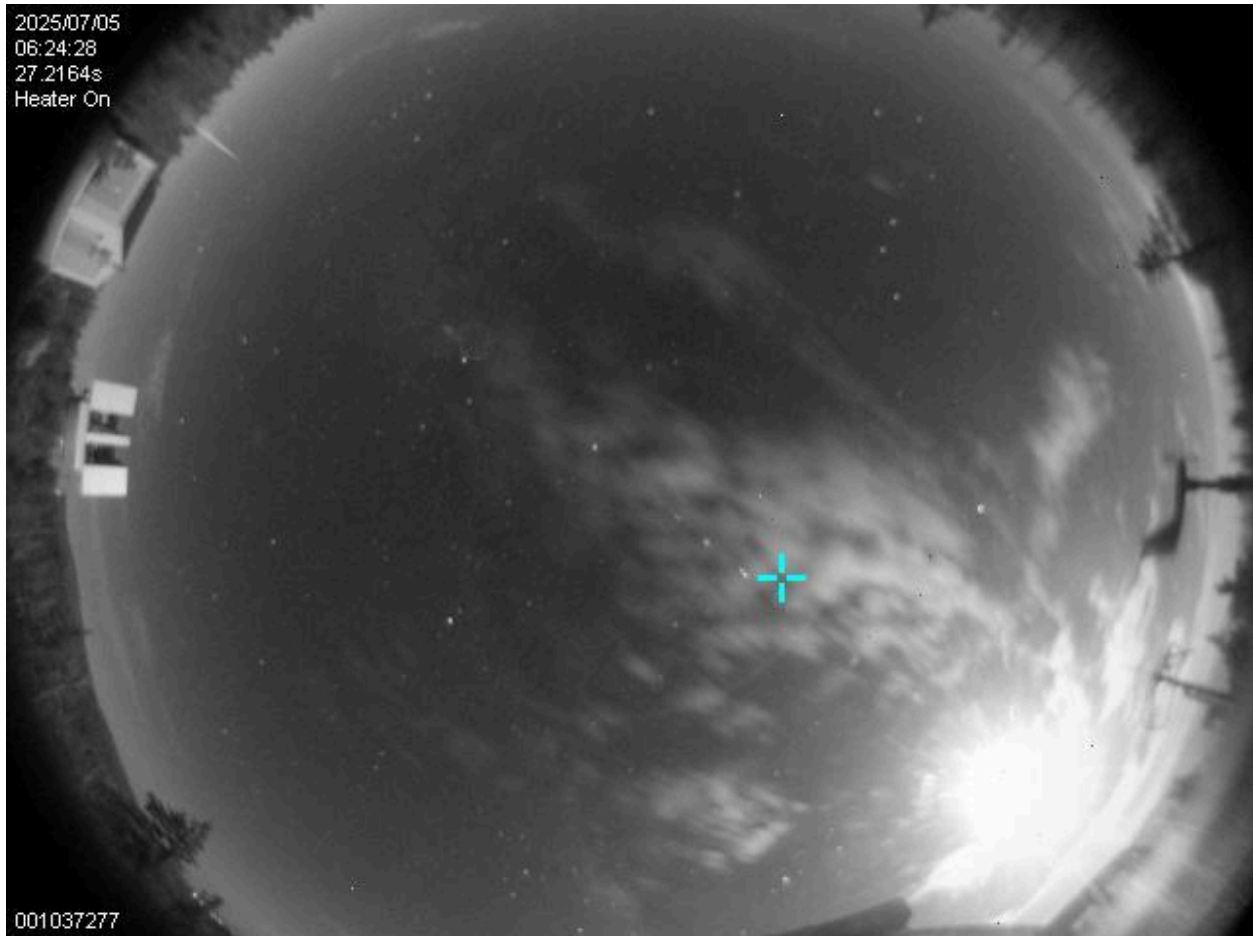
05:56 Preset

05:59 Starting science integration

GCS ~1"

06:20 Seeing is variable. 1.3" on average and clouds also coming back...

06:25 Up to 4 mag of extinction... Wrong spot at the wrong time...



06:30 Out of the clouds again

06:48 Seeing ~1.4" for CD 1&6

07:02 **Reconfig to PEPSI-POL**

07:22 **Closing for high particle counts, clouds**

10:09 **Night called as a large cloud front is coming in from SW. We don't see us opening again tonight.**

**PEPSI-POL**