

# LBT Observing Log: 20025 Jun 01 UT

Observers: Alex Becker, Ilya Ilyin

Partner Observer: Mark Whittle (UVa), Yifan Zhou (UVa), Annika Peter (OSU), Sarah Taft (MN).

Telescope Operator: Josh Williams

## Plan:

HR 5501 (visit duration: 0.52 hr) done

T Cr B (visit duration: 1.12hr) done

Not done (lost time to clouds)

Possibly squeeze in one ND\_RPED, OSU RRL, OSU PASTA, or OSU BHB

ND\_RPED (ND's lowest priority): PRED2 (Gaia 3894), 800 s

OSU RRL: J1226,

OSU PASTA: HD109286, HD135694

OSU\_PETS KELT-20 observation done but started UT 06:14 instead of 05:30

Star time: UT 5:30 to UT 10:50

After UT 10:50

TIC123098844 (exptime 189)

BD+283402 (exptime: 60)

HIP 104548 (exptime: 60)

skipTIC427092089 (exptime: 530)

TIC278352276 (exptime: 94), not enough S/N

A spectrum of the twilight sky (same set up as the UVA\_Multistar) not taken (not feasible, S/N would be too low, use daytime solar spectrum taken separately).

## Summary:

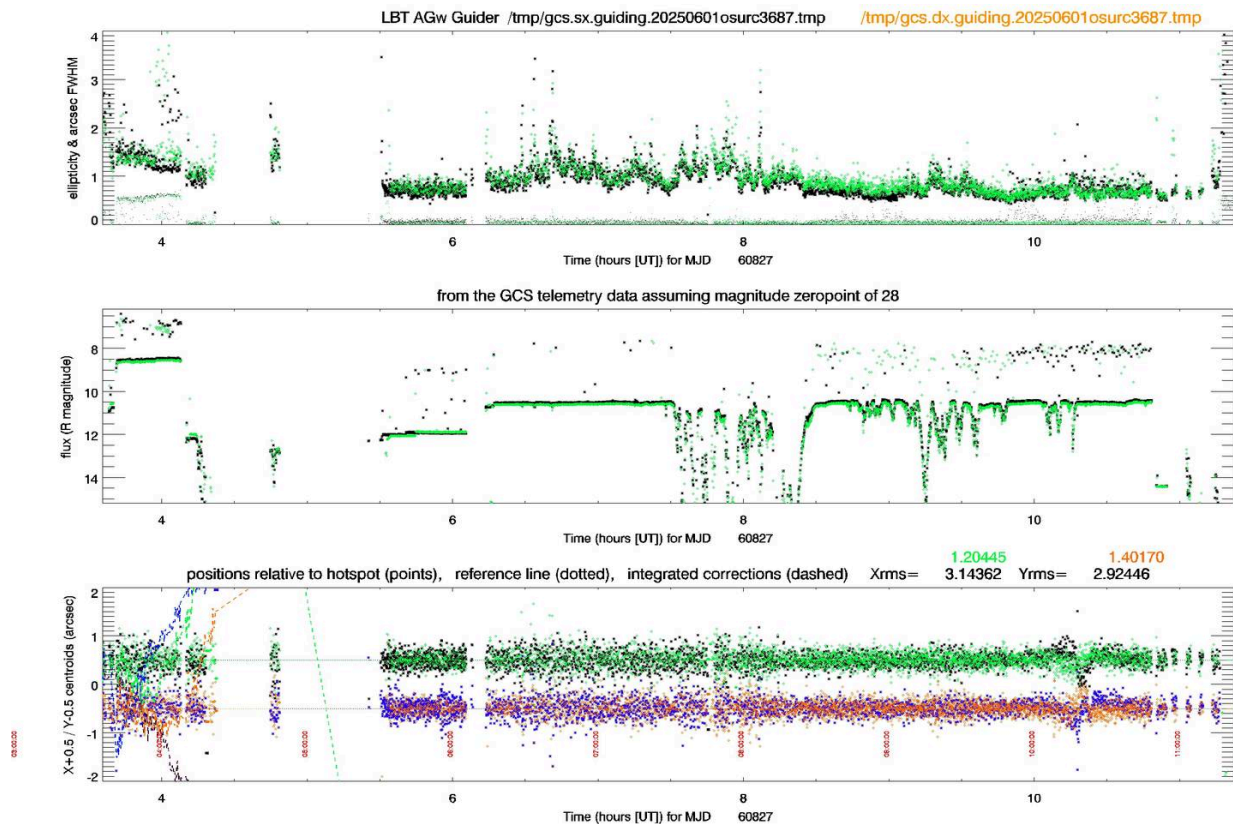
PEPSI log:

<https://drive.google.com/file/d/1Fsy3l8bSjb1touTlf70SUQHs2MFhv8fs/view?usp=sharing>

Issues:

Weather:

Some rain 20min before sunset. Some clouds throughout the night. Variable seeing until ~1:30, afterwards mostly below 1", with episodes of 1.5" seeing in between



Overview (times are given in UT):

01:35 Waking up MODS

01:37 modsSimSnap  
all good

## Calibs

### MODS

bias 8k bin 1x2  
grlamps bin12  
grslitflats 5.0 bin12

02:28 Waiting with opening due to clouds and rain

03:20 Opening now

## PEPSI

UM\_ TcrB Woodward

HR 5501

03:40 Preset

T CrB

04:08 Preset

We are losing the target from time to time due to clouds. Added 5 minutes to the exposure times.

We lost the target about 8 minutes into the exposure.

04:45 New preset to continue the observation

04:48 Spoken too soon. It is starting to rain. Closing

05:18 Opening again and continuing with this target

OSU\_PETS Johnson

Kelt-20

06:05 Preset

06:07 Target not found on DX. Pointing check

06:12 Preset

First 4 exposures with 300s exposure time. After that 100s

06:37 Seeing flared up and we switched to the 200 fiber.

06:45 Seeing stays variable.

06:47 Exp time increased to 180s.

SNR above 300 for CD3&5

7:47 clouds getting thick, lost target on the left side, preset on the left side

7:56 Losing target on both sides

8:21 Clouds continue affecting observations, low S/N (77) exposure

## UVa\_Multistar Majewski

TIC 123098844

10:48 Preset

10:51 Starting exposure

BD+28 3402

10:54 Preset

10:57 We need a pointing check

11:01 Preset

11:03 Starting exposure

HIP 104548

11:04 Preset

11:08 Starting exposure

TIC 278352276

11:10 Preset

11:14 Starting exposure

Clouds were coming through. Low SNR ~50

11:22 Closing