

LBT Observing Log: 2026 01 15 UT

Observers: D Thompson

Partner Observer: D Rowan

Telescope Operator: J Williams

Plan:

Start with PETS target, TOI 1518 at start of night until ~UT 5

OSU/BHBinaries J08073604+6945544

OSU/BHBinaries J08301619-0204550

OSU/PASTA TOI 963

Swap to LUCI? Nope, poor seeing!

More BHBinaries, MWabund, and PASTA. M3Cluster targets are too faint for the seeing

Summary:

Started with TOI 1518 PETS observation. Continued with BHBinaries, PASTA, and MWAbund targets. Observed brighter stars only since seeing was consistently $>2''$ or so.

Issues:

Weather:

02:15 seeing has increased to nearly $4''$

03:00 seeing has improved to $1''$

05:30 seeing back up to $2''$

08:30 seeing between 1.5 and $2''$

Overview:

PETS TOI 1518

01:20 Started OSU PETS TOI 1518

OSU/BHBinaries J08073604+6945544 (1098324086498919552)

05:14 Start science, Increased exptime to 5min

OSU/BHBinaries J08301619-0204550 (3072979835351666304)

05:25 Increased exptime to 15min

SNR was still very low – 50 in CD3. Plan to reobserve later in the run

OSU/PASTA TOI 963

05:43 Doubling exptimes

SNR 132 and 185 in CD3 and CD5

SNR 123 and 219 in CD2 and CD4

SNR 176 and 469 in CD1 and CD6

OSU/PASTA K2 352

07:04 Tripling exptimes in CD3+CD5 and CD2+CD4

Doubling exptime in CD1+CD6

SNR 140 and 200 in CD3 and CD5

SNR 130 and 240 in CD2 and CD4

SNR 150 and 480 in CD1 and CD6

OSU/BHBinaries J09570138-0121316 (3832686329410918272)

08:30 Increase exptime from 100s to 400s

OSU/BHBinaries J08255161-1622474 (5721905003970002688)

08:41 Increase exptime from 100s to 400s

OSU/PASTA K2 185

09:00 Triple exptimes in CD3+CD5 and CD2+CD4

Increasing exptime in CD1+CD6 to 90min

SNR of 135 in CD1

OSU/MWAbund J12262872-0216143

12:10 Increase exptime from 300s → 900s

OSU/BHBinaries J15562887+1218157 (1191216433749408128)

12:30 Increase exptime from 100s → 300s

OSU/MWAbund J13250328+2402024

12:38 Increase exptime from 600s → 1200s

OSU/MWAbund J15174362+8635266

13:05 Increase exptime from 300 → 900s

PEPSI log from last night: [OSURC PEPSI Log20260115](#)