LBT Observing Log: 2025 JUL 07 UT

Observers: Alex Becker, Ilya Ilyin
Partner Observer: Dominick Rowan
Telescope Operator: David Gonzalez Huerta

Plan:

Original plan was PEPSI POL and PFU, but I guess we will do LUCI and see if the PEPSI issues get resolved!

~~UVa_BCD_LUCI/J1444 (0.97 hours)~~
~~UVa_BCD_LUCI/J1416 (0.94 hours)~~
~~UVa_nirjets/G18_67 (1.24 hours)~~
~~UVa_nirjets/G30_76 (1.24 hours)~~

Swap to LBC
OSU_monitor/N6946 (0.66 hours) or ~~OSU_monitor/N6503 (0.3 hours)~~ depending on LBC start time

Summary:

We took all 4 LUCI targets and 1 LBC target

http://people.lbto.org/~cveillet/dms/lbcIQ_raw_20250707.png

Issues:

IT #9377 (Critical): MOXA ioLogik 4000 on PEPSI bridge stopped working

Weather:

Clear, 13.8C, 52% humidity, wind 4.2 m/s @ 340deg, good seeing

Overview (times are given in UT):

02:00 We are starting the night with some network issues. Some issues communicating with the bridge Moxa. The data address is not available. Possibly a bad PLC. PEPSI-POL & PEPSI-PFU not available for now

02:48 LUCI 1&2 init all

03:07 Opening

LUCI

UVa_BCD_LUCI

J1444

Seeing 0.9"-1" (GCS)

03:47 Preset
Target is very faint and barely visible in LUCI2. Verification is difficult

04:07 Starting science part of the script

LUCI2 spectrum is shifted by about 200px. Retaking first two exposures after fixing the grating
We see emission lines in the spectrum on both sides.

BD 40 2857 (Telluric)

04:55 Preset
Seeing 0.9"

J1416

05:08 Preset
Seeing 0.9"

05:21 Target confirmed in slit for LUCI1&LUCI2
Emission lines and continuum visible on both sides.

UVa_nirjets

G18_67

06:15ish Preset

06:50 Seeing ~0.8"

G30_76

07:39 Preset

07:42 Preset failed. Pointing check

Guide star was outside the patrol field. Fixed

07:52 Preset

09:19 Done with LUCI. Reconfig to LBC

LBC

OSU_monitor

N6946

10:04 Preset to copointing/focus field

10:06 dohybrid
LBCR images are not out of focus when running dofpia. David is clearing the active optics and we try again. LBCB was fine.

10:20 it happened again. For some reason dohybrid is bringing it into focus…

10:23 OK, we are just adding 2000 Z4
OK, now dofpia is adding -16000 Z4

(Clouds are coming in from the SW)

10:26 And another -14000 Z4 for LBCR… and complained that seeing is undefined…

10:30 running dofpia with redempseeing 1.00
Much better. It still has a ton of coma, but I think it should be fine

10:35 setting tms reference offset

10:36 Starting TMS loop

Switching to another target…

N6503

DIMM 0.8"-1"

10:39 Preset to copointing field

10:46 Starting science script

11:05 We are closing. No skyflats because of clouds.

Calibs

LBC

25 bias

11:54 LBCs turned off

LUCI

Img flats

BrG+H2
Pb+Fe2
J+H
K+K

Spec

BCD flats and arcs G200 zJspec