LBT Observing Log for 2024 04 18

Observers: Justin Rupert
Partner Observer: Don Terndrup
Telescope Operator: Josh Williams

Plan:

Will run LBC sky flats at evening twilight, then PEPSI the rest of the night.

Summary:

Issues:

None!

Weather:

Decent conditions overall. Experienced a couple hours of thin clouds. Seeing was good most of the night.

Overview (times are given in UT):

00:57 Running LUCI darks for XMD program. Will have to grab more of the longer darks at the end of the script later.

01:02 2Bias_Bino_Checkout on LBCs. Looks fine.

01:05 Running 25Bias_Bino.

01:50 Opening.

01:55 Preset to sky flat field 1109+5148.

02:16 Starting S-R 90 Flats.

02:21 Starting B-R 270 Flats.

02:25 Running V-R 270 Flats. Mistakenly ran the SkyFlatTest. Counts too low.

02:30 **Reconfiguring to PEPSI PFU.**

02:51 Pointing check.

02:55 Couldn’t find any star. Preset to a brighter one.

02:58 See it on DX. Hunting around on SX.

03:01 Found it on SX. Slewing back to the first pointing star.

03:08 Collimation check.

OSU_2MASS J070402 (UT 03:15-03:23)

Pepsib: 34
Pepsir: 34

03:15 Preset.

03:18 Starting science. Seeing is 0.8”-1.0” on guiders.

OSU_2MASS J125030 (UT 03:23-03:33)

Pepsib: 35
Pepsir: 35

03:23 Preset

03:26 Starting science. Seeing is 0.7”-0.8” on guiders.

OSU_2MASS J130307 (UT 03:33-03:56)

Pepsib: 36
Pepsir: 36

03:33 Preset

03:36 Starting science.

ND_NGC5272 1372 (UT 03:56-04:53)

Pepsib: 37-38
Pepsir: 37-38

03:56 Preset

04:05 Starting science. Seeing is 0.7”-1.0” on guiders.

ND_NGC5272 1305 (UT 04:53-05:46)

Pepsib: 39-40
Pepsir: 39-40

04:53 Preset. Missed guide star on DX. Pointing check.

04:58 Resending preset to target.

05:01 Starting science. Seeing is 0.6”-0.9” on guiders.

ND_NGC5272 323 (UT 05:46-06:38)

Pepsib: 41-42
Pepsir: 41-42

05:46 Preset

05:49 Starting science. Seeing is 0.7”-1.0” on guiders.

UM_T Crb (UT 06:38-07:46)

Pepsib: 43-45
Pepsir: 43-45

06:38 Preset

06:41 Starting science. Seeing is 0.7”-1.0” on guiders. Thin-ish layer of clouds overhead now.

UM_HD 134807 (UT 07:46-08:16)

Pepsib: 46-48
Pepsir: 46-48

07:46 Preset

07:49 Starting science. Seeing is 1.4”-1.7” on guiders. Thin-ish layer of clouds overhead still. Noticed that text on the new weather display in the remote room is hard to read when elements turn yellow (e.g. when the wind reaches 15m/s). Might be better to either change the text to a darker font when that happens or change the color scheme to make information easier to read when conditions are approaching the observing limits.

UM_HR 5501 (UT 08:16-08:47)

Pepsib: 49-51
Pepsir: 49-51

08:16 Preset

08:20 Starting science. Seeing is 1.8” on SX, 2.6” on DX guiders. Thin clouds still passing by.

08:43 Clouds are gone now. Guider seeing measurements are similar to what they were at the beginning of these exposures, but the DIMM is reading 1.0”-1.5”.

OSU_2MASS J144623 (UT 08:47-09:12)

Pepsib: 52
Pepsir: 52

08:47 Preset

08:49 Starting science. Seeing is ~0.9” on guiders.

OSU_2MASS J155628 (UT 09:12-09:23)

Pepsib: 53
Pepsir: 53

09:12 Preset

09:15 Starting science. Seeing is ~0.9” on guiders.

OSU_2MASS J145734 (UT 09:23-09:38)

Pepsib: 54
Pepsir: 54

09:23 Preset

09:26 Starting science. Seeing is ~0.9” on guiders.

OSU_2MASS J160108 (UT 09:38-09:51)

Pepsib: 55
Pepsir: 55

09:38 Preset

09:42 Starting science. Seeing is ~1.2” on guiders.

OSU_2MASS J163306 (UT 09:51-10:04)

Pepsib: 56
Pepsir: 56

09:51 Preset

09:53 Starting science. Seeing is ~1.4” on guiders.

OSU_2MASS J170636 (UT 10:05-10:13)

Pepsib: 57-58
Pepsir: 57-58

10:05 Preset

10:10 Starting science. Seeing is ~1.4” on guiders.

OSU_2MASS J175517 (UT 10:13-10:37)

Pepsib: 59
Pepsir: 59

10:13 Preset. SX missed the target slightly. Resending SX preset. Still missed it. Pointing check.

10:20 Resending preset to target.

10:21 Starting science. Seeing is ~0.8” on guiders.

OSU_2MASS J190543 (UT 10:38-10:50)

Pepsib: 60
Pepsir: 60

10:38 Preset.

10:40 Starting science. Seeing is ~0.8” on guiders.

OSU_2MASS J190950 (UT 10:50-11:05)

Pepsib: 61
Pepsir: 61

10:50 Preset. Missed on SX again. Pointing check.

10:56 Resending preset to target.

10:57 Starting science. Seeing is ~0.8” on guiders.

OSU_2MASS J194525 (UT 11:05-11:23)

Pepsib: 62
Pepsir: 62

11:05 Preset. Missed on SX again. Pointing check.

11:11 Resending preset to target.

11:13 Starting science. Seeing is ~0.8” on guiders.

OSU_2MASS J201711 (UT 11:23-11:28)

Pepsib: 63
Pepsir: 63

11:23 Preset.

11:25 Starting science. Seeing is ~1.0” on guiders.

OSU_2MASS J203055 (UT 11:28-11:43)

Pepsib: 64
Pepsir: 64

11:28 Preset.

11:30 Starting science. Seeing is ~0.9” on guiders.

OSU_2MASS J203215 (UT 11:43-11:55)

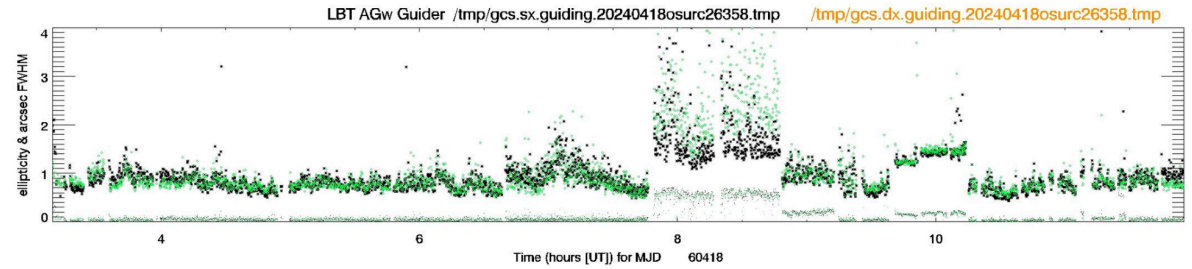
Pepsib: 65
Pepsir: 65

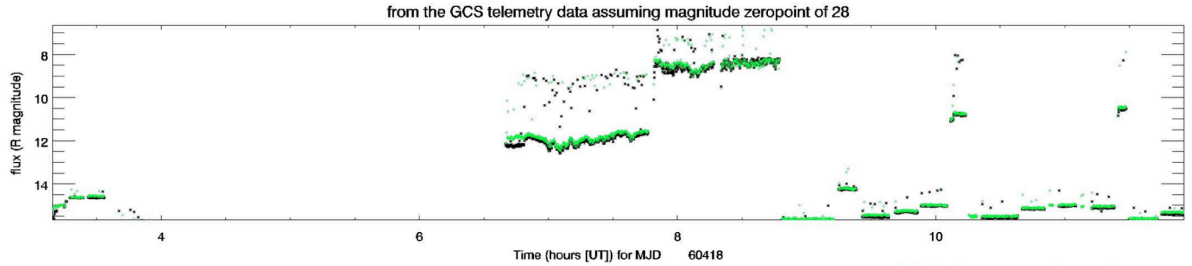
11:43 Preset.

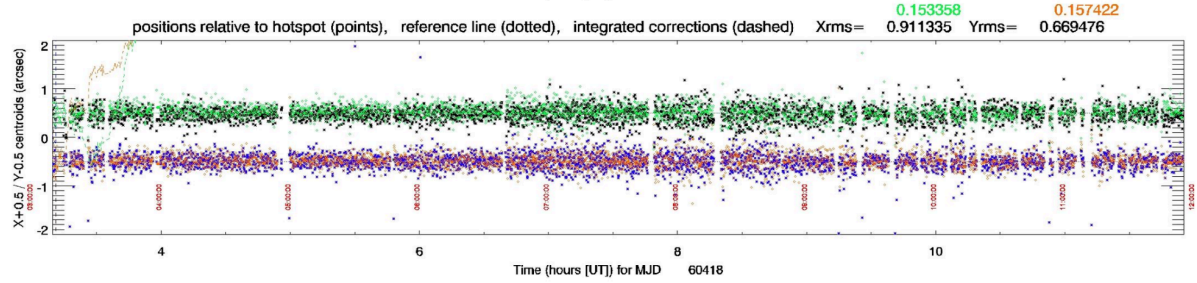
11:45 Starting science. Seeing is ~0.9” on guiders.

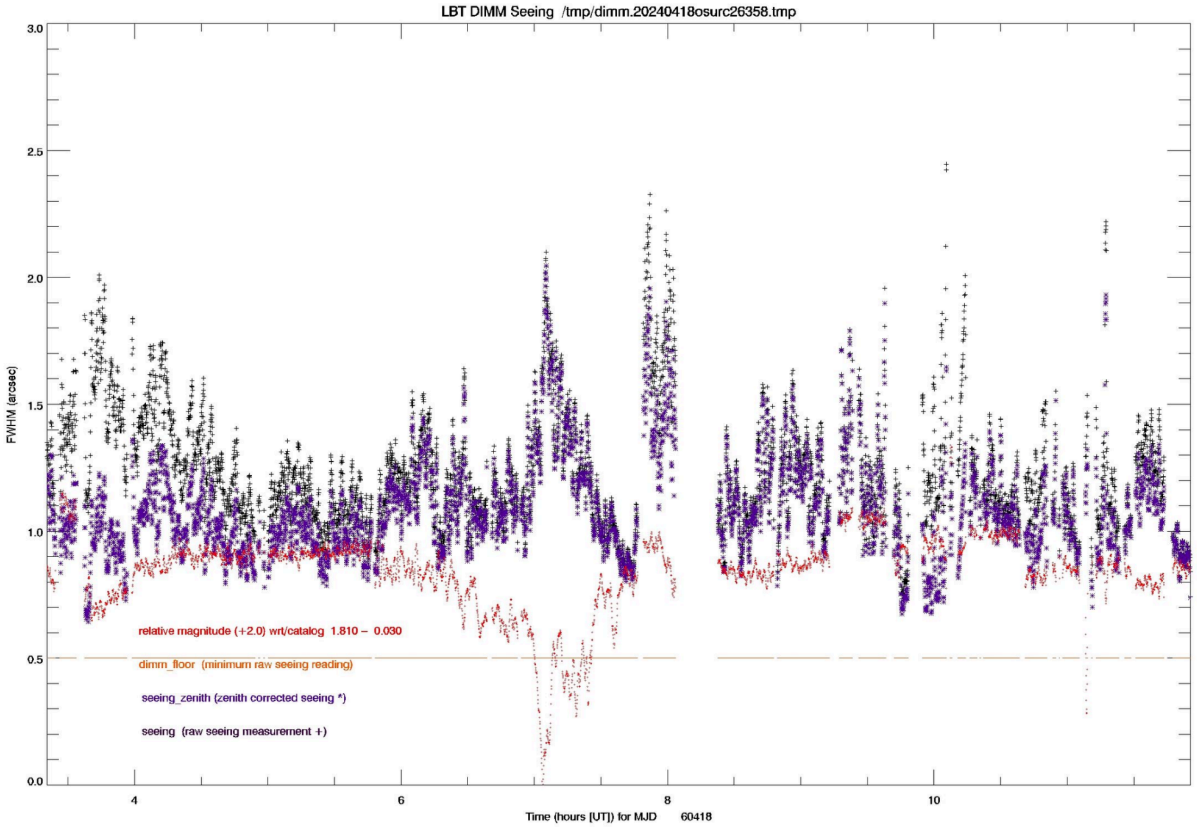
11:55 Closing. Will run PEPSI cals when the telescope is ready.

12:05 Running PEPSI cals.


LBT AGw Guider /tmp/gcs.sx.guiding.20240418osurc26358.tmp
/tmp/gcs.dx.guiding.20240418osurc26358.tmp
ellipticity & arcsec FWHM
Time (hours [UT]) for MJD 60418


from the GCS telemetry data assuming magnitude zeropoint of 28
flux (R magnitude)
Time (hours [UT]) for MJD 60418


positions relative to hotspot (points), reference line (dotted), integrated corrections (dashed) Xrms= 0.911335 Yrms= 0.669476
0.153358
0.157422
X+0.5 / Y-0.5 centroids (arcsec)
Time (hours [UT]) for MJD 60418


LBT DIMM Seeing /tmp/dimm.20240418osurc26358.tmp
FWHM (arcsec)
relative magnitude (+2.0) wrt/catalog 1.810 – 0.030
dimm_floor (minimum raw seeing reading)
seeing_zenith (zenith corrected seeing *)
seeing (raw seeing measurement +)
Time (hours [UT]) for MJD 60418