

LBT Observing Log: 2025 Jun 04 UT

Observers: Alex Becker

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

Telescope Operator: Steve Allanson

Plan:

ND RPED Gaia_DR3_4028137264415513728 (RPED 2), 0.6 hr

ND M3Cluster, NGC 5272 998 (0.81 hr) done

ND M3Cluster, NGC 5272 1050 (0.78 hr) done

ND M3Cluster, NGC 5272 832 (0.8 hr) done

UVA_Multistar TIC 8927 (should be observed after 7:00 UT) done

UVA_Multistar TIC 3227 (should be observed after 8:00 UT) done

UVA_Multistar TIC 2783 done

UVA_Multistar TIC 4140 (after 8:00 UT) done

UVA_Multistar TIC 4270 (after 9:00 UT) done

OSU_BHB 2M1909 incomplde

→ closed for clouds (rest not done)

OSU_BHB 2M1916

OSU_EBRV, V380 Dra (start exposure +/- 20 min within UT 9:02) (0.2 hr)

OSU_RRL J2033

UVA_Multistar TIC 2581 (after 11:00 UT)

UVA_Mutistar TIC 2839 (after 10:00 UT)

UVA_Multistar TIC 3071 (after 11:00 UT)

UVA_Multistar TIC 3898 (after 11:00 UT)

UVA_Multistar TIC 5285 (after 11:00 UT)

Summary:

<https://drive.google.com/file/d/1vHmSwR-YaxAKqjxiVzQS7EGU4NsgB2ZK/view?usp=sharing>

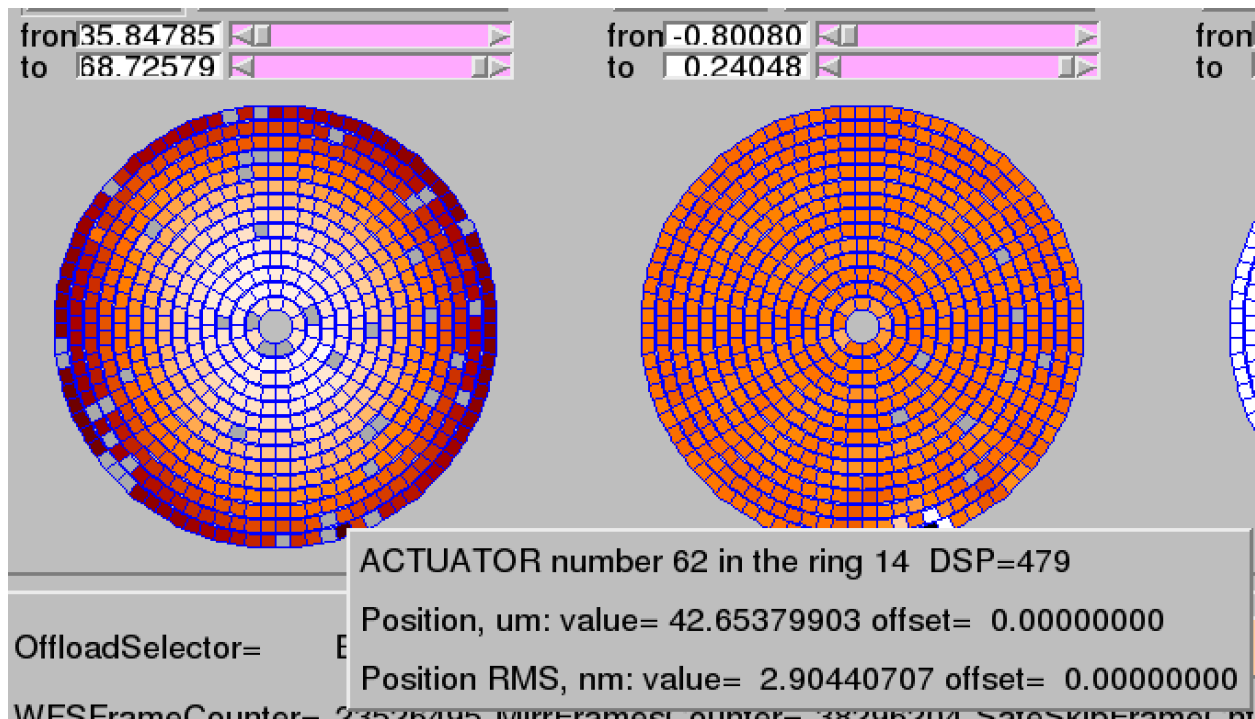
Issues:

Weather:

Overview (times are given in UT):

01:30 LUCI 1&2 init all
all good

01:48 UT Doug and Guido addressing an actuator showing a bad reading. This was preventing
a good flat on the SX adsec



02:25 Still some ugly clouds. Holding off with opening for now.

03:00 Opening

PEPSI

ND RPED

Gaia DR3 4028137264415513728

03:21 Preset

03:23 Starting exposure

ND M3Cluster

NGC 5272 998

03:54 Pointing check

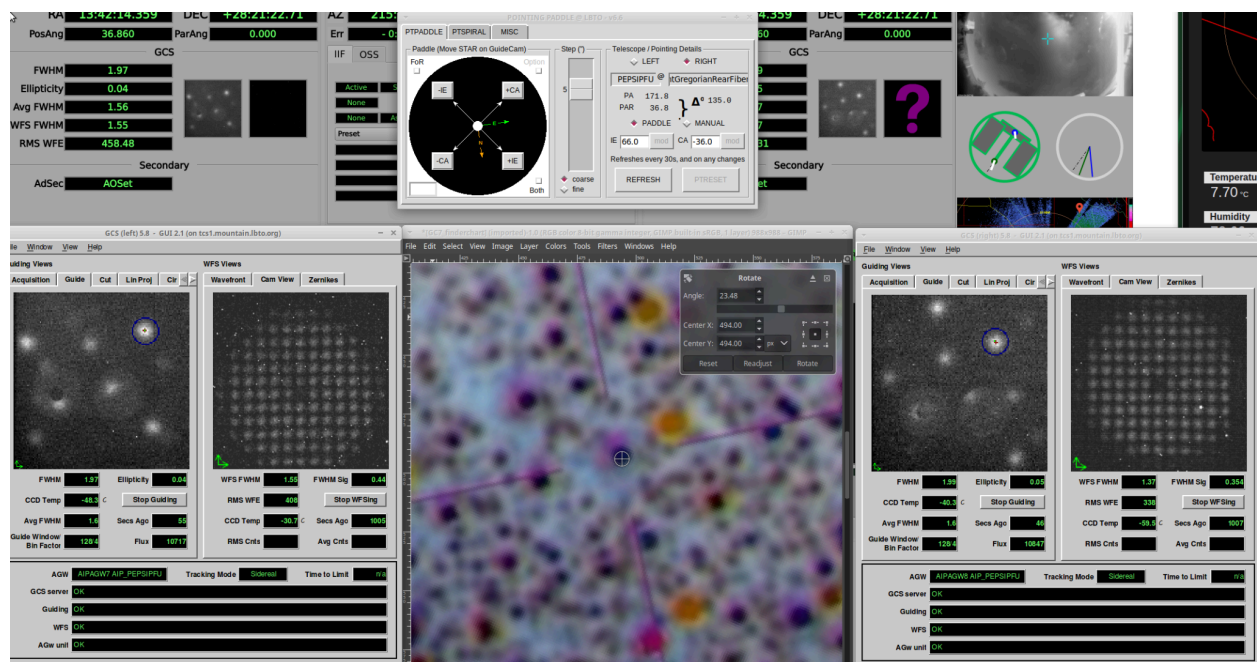
04:02 Preset

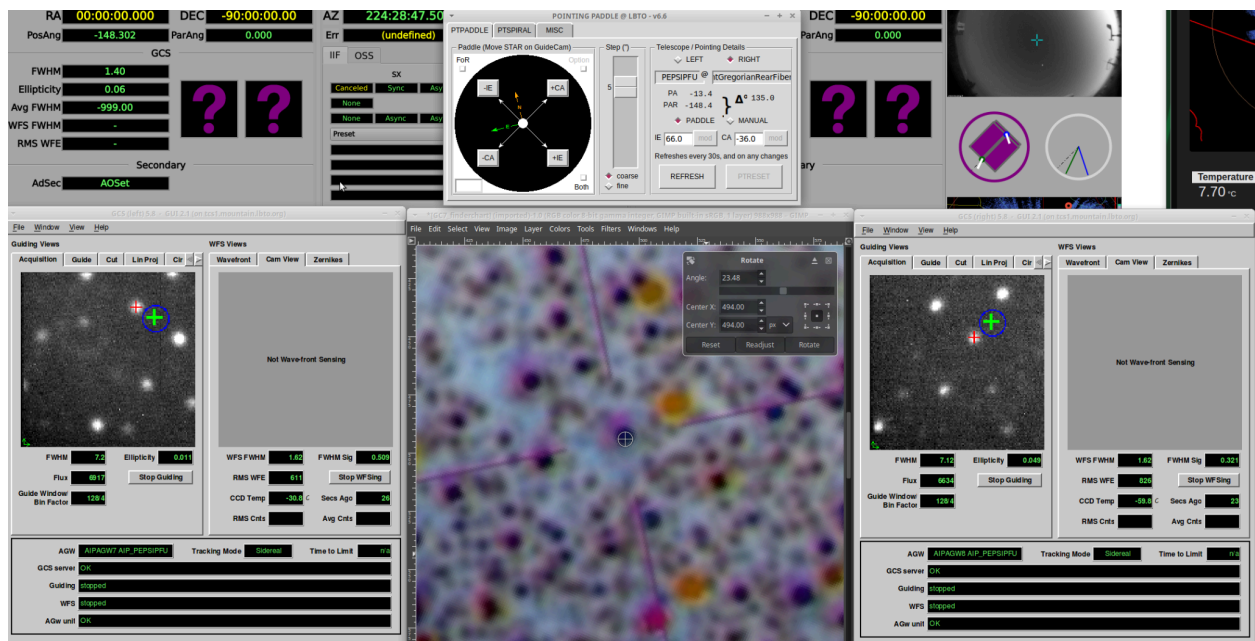
We need a pointing check closer to the target. Pointing model is not good enough at 86deg elevation

04:23 Starting exposure.

I think we are close to certain that we are on the correct target on both sides.

Black & White finders would be easier, with a scale bar closer to the object.





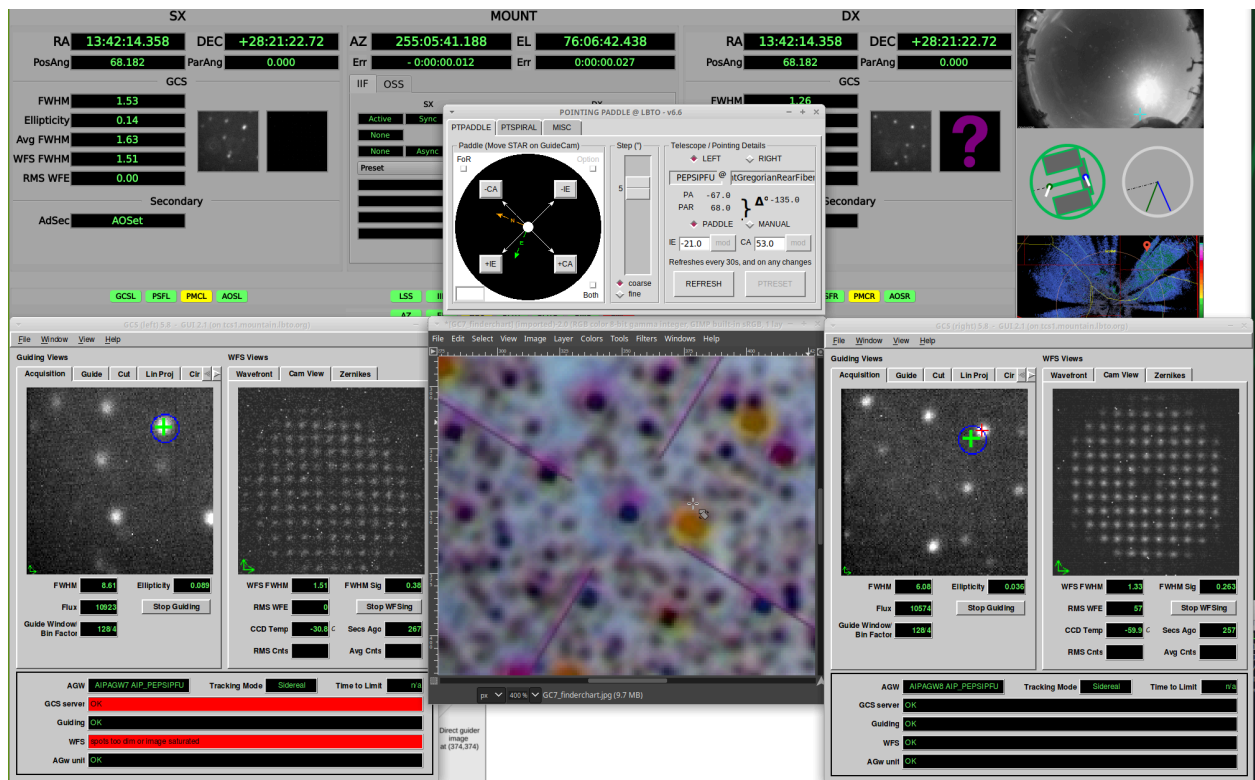
04:31 We have to close due to dust. Reading out after 6 min 48 sec

05:00 Opening again

05:04 Pointing check

05:05 Preset

05:11 Starting exposure

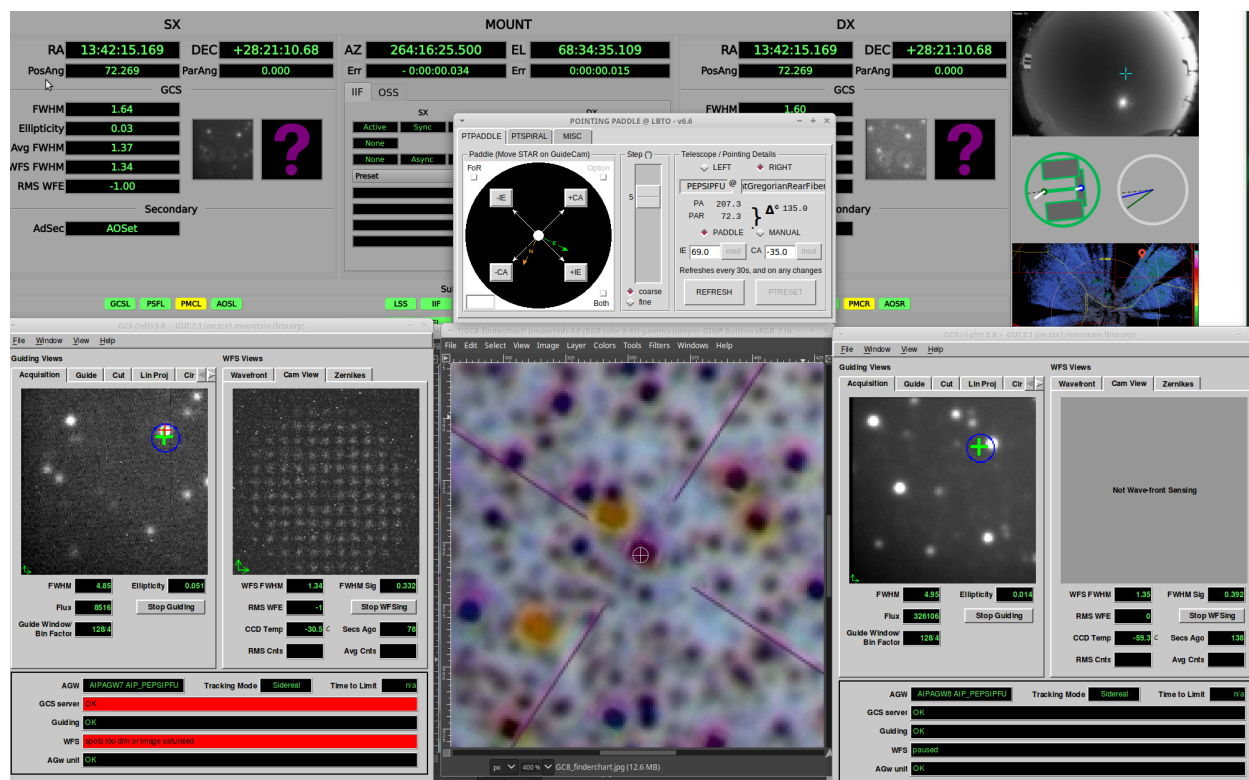


NGC 5272 1050

05:37 Preset

05:41 Pointing check

05:44 Guide star jump on DX



05:47 Starting exposure

05:53 **We lost the target on both sides.** Reading out after 5min 18sec.

05:59 It's completely overcast now and humidity is above 80%. **Closing until it clears.**

06:14 **Opening again**

06:19 Preset

06:22 Starting exposure

Still partly cloudy

06:28 Stopped hotspot guiding on PEPSI after a jump on DX most likely caused by the clouds.

NGC 5272 832

07:03 Preset

07:05 Starting exposure

UVa_Multistar

Some haze from a fire in Globe.

Decided conditions too risky (humidity, haze, patchy clouds) to do the SHARK-VIS program.

TIC 89278612

07:50 Preset

07:56 Starting exposure

TIC 322727163

07:59 Preset

08:01 Starting exposure

TIC 414026507

08:04 Preset

08:06 Pointing check

08:09 Preset

08:10 Starting exposure

TIC 278352276

08:12 Preset

Missed it on DX

08:15 Preset

08:16 Starting exposure

TIC 427092089

08:18 Preset

Missed it on SX.

08:21 Preset

08:23 Starting exposure

OSU_BHB

2M1909

08:33 Preset

Missed it on DX.

08:36 Preset

We are having clouds that are forming locally. SMT is already showing >95% humidity while we are at 80%. Closing for safety.

10:43 We are giving up for tonight. 12deg twilight is near.

Taking PEPSI calibs.