LBT Observing Log for 2024 06 04 UT

Observers: Andrew Cardwell
Partner Observer: Michael Tucker, Dominick Rowan (remote)
Telescope Operator: Josh Williams

Plan:

OSURC partner observing night 3 of 3. Multiple programs for all 4 facility instruments

NOTE:

- **LUCI2 G200 grating is not available tonight.**

Summary:

A productive night until clouds came in for the final hour after reconfiguring for PEPSI.
MODS: OSU_MODS_XMDs HS1222 and VCC1744, OSU_SCAT SN2023zvq
LBC: OSU_monitor NGC4234, NGC5474, and NGC6946

Issues:

MODS ACQ script error for UVa_Supernovae target - see notes below

Weather:

Overview (times are given in UT):

00:40 MODS are awake, running simSnap.

00:44 Bringing up LUCIs, init_all on both sides.

00:53 Starting MODS biases.

00:54 Checking LUCI field stop positions.

01:00 All good. Taking LUCI cals for OSU_SCAT_LUCI.

01:17 MODS2b is hung on readout. It finally read after several minutes.

01:18 Starting MODS DG cals.

02:29 **Sunset**.

02:40 Opening.

03:00 **UVa_Supernovae SN2020ywx**. Script error, investigating.

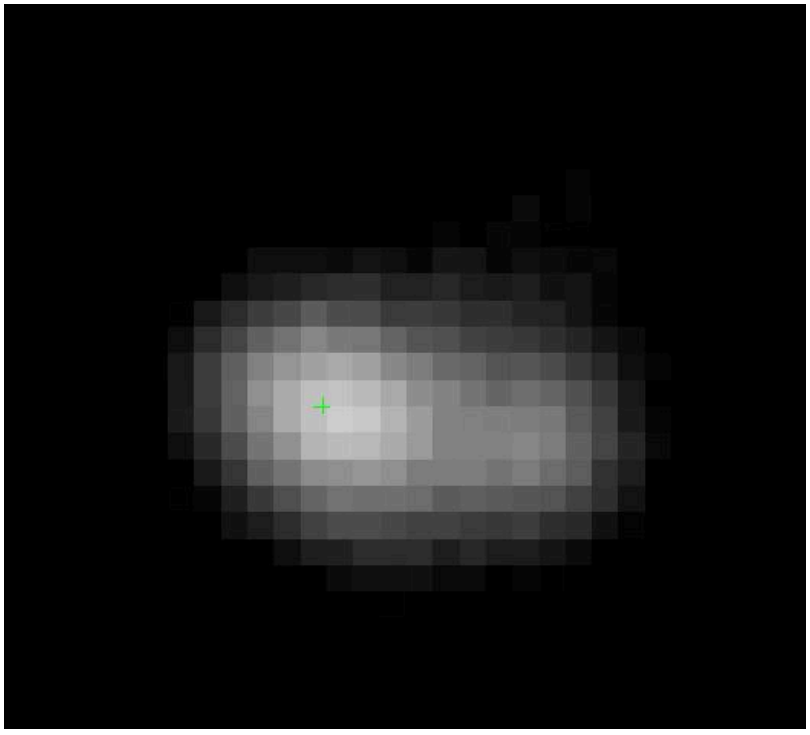
03:04 AcqMode was not set. We strongly suggest observers use the OT for all scripts.

03:13 Giving up and moving on. The acquisition scripts are not functional, they do not take a slit definition exposure. Again, USE THE OT!

NOTE added 6/4/2024 [rwp]: investigated the morning after, the acq script headers say they were created using OT version 2022B.1.1.0, MODS.xsl v1.41, and both contain the proper ACQGo and SlitGo command sequences. The only difference is that ACQMode does not have an argument. Could be a OT Fault, scripts to not look like they've been edited. Will follow up with the PI. Simple fix would have been to edit to change "ACQMode" to "ACQMode longslit"

03:13 **OSU_XMDs_MODS HS1222**.

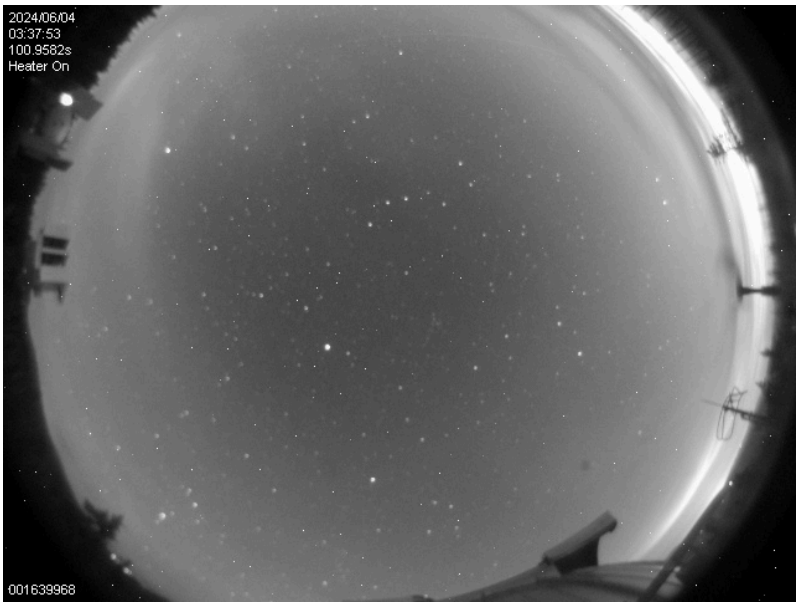
03:23 The target has two components, we have centered up on the brighter one.



03:26 **12 degree twilight**.
03:28 Slight manual adjustment needed on both sides, -0.2" in X.

03:31 Starting science.

03:34 Guiders report 0.6”. We have some clouds.

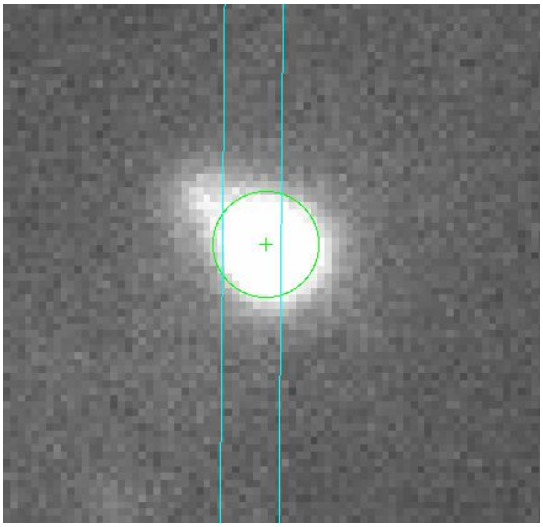


04:03 **18 degree twilight**.

04:15 Seeing remains excellent, 0.6” from the guiders.

04:40 **OSU_XMDs_MOD VCC1744**

04:48 Acquisition on the brighter component.



04:54 Starting science. A manual correction of +0.3” in x was required for MODS1.

05:29 1” from the guiders. Clear, bright. Emission lines are seen in both the red and blue spectra.

06:02 **OSU_SCAT SN2023zvq**

06:15 Once again the MODS1 target is offset to the right of the slit by about 0.25”. Correcting.

06:20 Starting science.

07:28 Imaging script on the same target. Guiders report 1”.

07:33 Script error, correcting and trying again.

07:47 mods2b has hung on readout, giving it time to clear itself.

07:48 **Reconfiguring to LBCs.**

08:06 Preset to OSU_monitor: **NGC4236**. Copointing field.

08:08 Starting collimation, dohybrid, /X2.

08:16 Collimated in 2 iterations. Moving on to copointing.

08:21 Starting science. DIMM reports 0.75”. IQ of 1.2” in blue and 1” in red. Pretty good for a target at 32 degrees in elevation!

08:33 Preset to collimation field for **NGC5474**.

08:34 Starting collimation.

08:44 Collimated. 5 iterations required on red, 3 on blue. Copointing.

08:49 Starting science. We had a few iraf issues. IQ of 1” measured on the copointing exposures.

09:17 IQ of 1.35” measured on both sides.

09:26 Preset to copointing field for **NGC6946**.

09:29 Starting collimation.

09:37 Collimated in 3 iterations, around 17 good pupils per side. Copointing.
09:41 Starting science. 1.3” from the DIMM, however IQ of 0.9” measured on the copointing exposures.

10:13 Clouds are getting thicker, there is a visually obvious drop in throughput.

1024 **Reconfiguring to PEPSI.**

10:32 **18 degree twilight**.

10:40 Issues connecting to agw7. Clouds are now very thick.

10:52 Clouds have persisted, as has this issue. We are calling the night.

10:56 Putting MODS to sleep, running LBC biases.

11:09 **12 degree twilight**.

12:07 **Sunrise**.