LBT Observing Log for 2023 May 15/16

C19 Observer: Andrew Cardwell (From obs1, x2go session 51) Partner Observer(s): Peter Garnavich (ND) Telescope Operator: David Gonzalez-Huerta

Plan:

Observed and completed: N/A.

Summary:

Whole night was lost to poor weather. Executed MODS calibrations

Issues:

Overview (times are given in UT):

00:15 David is finishing up his test resets, I'll start MODS calibrations once he is done.

00:35 Waking MODS, putting it into observing mode, and homing AGws.

00:41 Bringing up LUCIs, init all on both sides.

00:44 Powering up LBCs.

01:01 LBC Blue trackers did not come up. Performing Kill/Start

01:02 Running simSnap on MODS.

01:07 LBC issue not resolved. Trying a power cycle from the GUI.

01:10 SimSnap looks good, running full MODS bias sequence.

01:14 LUCI field stops checked and aligned.

01:34 LBCs are now up. It took a couple of kill/start cycles and power cycles to get the blue trackers up. Running the 2 bias bino checkout.

01:37 The satellite animation on the weather big screen on the summit, and on info.mountian.lbto.org, are stale. Info.lbto.org seems fine. I've sent an email to IT.

01:38 **LBC biases** look fine, running a full bias sequence.

01:47 Taking MODS arcs for Dual Grating.

01:58 Taking MODS slitless flats, Dual Grating.

02:04 LBC biases are finished, powering down LBCs. We will remain closed at sunset due to threatening clouds.

02:17 Sunset.

02:28 We will not attempt AO observations tonight, I've mailed Doug and Juan Carlos to let them know.

02:32 Taking MODS Dual Grating 0.6" slit flats.

02:56 MODS Dual Grating 0.8" slit flats.

03:04 The clouds seem persistent.



03:11 12 degree twilight.

03:17 MODS Dual Grating 1" slit flats.

03:46 18 degree twilight.

04:00 MODS Dual Grating 1.2": slit flats.

04:36 MODS Dual Grating 5" slit flats.

05:42 We have an extended clear patch. We are going to open up and see if we can get something.

05:51 Enclosure open. Our first target will be a specphot, HZ44.

05:56 Clouds are coming in rapidly. We are closing again.

07:08 Reconfiguring to bino LUCI. Potential MODS targets have largely set.

07:16 Taking LUCI cals, HK arcs and flats for UM_Nova23A.

07:48 Taking LUCI cals. zJ arcs and flats for UM_Nova23A.

08:15 Opening up to try again.

08:27 The readme calls for HD188720 as the telluric, but the telluric provided in the scripts and OT file is HD189920. The PI should check this. Googling for HD188720 I can find no reference to this object.

08:39 David reports the wind is too high in this direction, TSS has activated on DX, and that he is not finding the pointing correction star. Both UM nova targets are in the east where the wind is high.

08:59 Still no pointing correction star found. Giving up on LUCI and reconfiguring to LBCs.

09:04 David reports that the SHARK-NIR detector is heating, he is waking Jared to fill it.

09:27 Turning on TMS lasers.

09:47 Preset to copointing field for OSU_delvedwarf4. Once in position I will apply the most recent reference, 20230510.

09:50 PSF error on both sides, David is working on it.

09:54 This may be a bigger issue.

09:59 Preset sent again.

10:00 Running TMS to apply some initial corrections. We do have clouds again.

10:02 Running dofpia.

10:05 No pupils found, too cloudy. Trying again with the /X2 flag.

10:08 Closing again. We had fewer pupils this attempt, even using double the exposure time. Putting MODS to sleep as we do not plan to use it again tonight.

10:18 We are calling the night. Even if we could open right now it is unlikely we would have time to take any data.

10:20 Powering off LBCs.

10:24 Finishing off the zJ flats and arcs for UM_Nova23A.

10:45 18 degree twilight.

10:47 LUCIs safed, putting blinds in place as we may want to take darks tomorrow.

10:58 End of night.

11:20 12 degree twilight.

11:43 TMS lasers are off.

12:15 Sunrise.