LBT Observing Log for 2024 07 04

Observers: Justin Rupert Partner Observer: Telescope Operator: David Gonzales Huerta

Plan:

PEPSIPOL checkout followed by PEPSIPOL/PFU science.

Summary:

Issues:

Weather:

Overview (times are given in UT):

01:58 UT Mountain crew accidentally hit an eStop that powered down the UMAC on SX. They were investigating an issue related to the fiber alignment troubles we experienced last night.

02:06 UT All is well now.

02:35 UT Received a little rain a few minutes ago. Clouds overhead still at sunset.

02:40 UT Issue with the All-Sky tiles on FACSUM. Reports to be in an error state and doesn't produce any images (IT# 9141).

09:50 UT We are opening now. Clouds have kept us closed up to this point. There was a huge cell that grew and moved past us throughout the night. It seems to have dissipated to the point where we might be able to salvage the end of this night.

PEPSI-POL Hotspot Alignment to WFS

10:09 UT Pointing check.

10:15 UT Power cycling AGW4. Seems to be a focus issue that caused errors in sending the guide probe.

Resmsg[0] = PresetTelescope result status: Error

Resmsg[1] = Secondary mirror collimation reached limit

Resmsg[2] = AGw command status: AGW4: Error moving the motor(s)

Resmsg[3] = isPosAccessible: probe cannot move to requested position (SFP) (x,y): 0.098991, -0.0438471 mm.

Resmsg[4] = guidestar list successfully changed but failed moving probe to position.

Theta stage on the right is in the limit. This will require someone to go up and manually move it out of the limit. We will try to focus on the left side since we have less than an hour to checkout the system.

David is centering up the left side.

10:30 UT Re-auhtorizing for PEPSIPOL monocular on SX.

10:32 UT Pointing and collimation.

10:39 UT Hotspot alignment actually looks good on SX. Moving onto rotator center check.

PEPSI-POL AGw3 to Rotator Center Check

10:45 UT Due to the AGW4 hitting the limit, we are unsure about sending the guide probe of AGw3 to the nominal center provided by the wiki. Performing an off-axis preset. Hotspot is moving all over the place.

10:53 UT Sending on-axis preset to gamma equ.

11:05 UT Looks like the wrong guide star was grabbed (~5" off).

11:25 UT Sending another preset to get a guide star at ~3.5' from center. It's faint especially in 12-degree twilight.

11:28 UT Going to a brighter star at ~4' from center.

11:29 UT Resending as a track preset.

11:31 UT Adjusted pointing to IE -55.9, CA -19.8.

11:32 UT Resent as active preset. Pointing is better.

11:33 UT Going to guide star at ~2.6' from center. Still off. So we'll have to work on rotator centering tomorrow as well as the checks for DX. What we've learned is that on SX the HotSpot alignment looks good, at least. Calling it a night.