

C19 Observer: Andrew Cardwell (From obs1, x2go session 51)
Partner Observer(s): M. Johnson & R. Pogge (OSU)
Telescope Operator: Steve Allanson

Plan:

PEPSI if clear then dark-time programs. Closed-dome calibrations if bad weather.

Observed and completed:

None

Summary:

Whole night lost to poor conditions (snow, ice, and wind). Executed the instrument closed-dome calibration programs for LUCI and MODS. Because the LUCI field stop alignment was checked LUCI darks will be deferred until tomorrow night.

Issues:

Overview (times are given in UT):

23:51 The night has been called due to the ongoing winter storm.

00:40 Setting up LUCI for cals.

01:02 LUCI field stops are spot on on both sides, no need for adjustment.

01:24 Starting LUCI cals.

OSU_neblaLUCI; zJspec_cals.xml: luci[1|2].20230322.0003-0020

01:28 Starting up MODS. Oddly the mods2 lbtcs service was not running, I have started it.

01:34 MODS is awake, running simSnap.

01:37 Sunset.

01:40 MODS looks good, running a full bias sequence.

mods[1|2][b|r].20230322.0003-0022.

01:52 OSU_neblaLUCI; HKspec_cals.xml: luci[1|2].20230322.0021-0038

02:08 OSU_XMDs_LUCI; zJspec_flats_arcs luci[1|2].20230322.0039-0056

02:24 MODS DG slitless flats. Mods[1|2][b|r].20230322.0023 mods[1|2]b.0032, mods[1|2]r.0027.

02:25 12 degree twilight.

02:54 18 degree twilight.

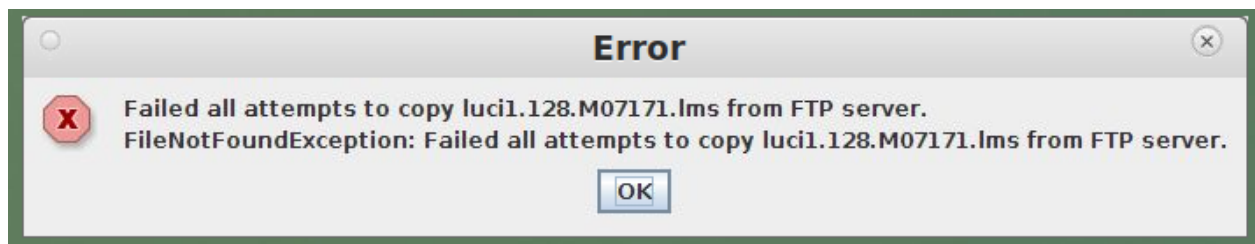
02:57 MODS DG 5" slit flat. mods[1|2]b.0033-0038, mods[1|2]r.0028-0030.

02:59 UVa_BCD_LUCI; Flats_Arcs.xml: luci[1|2].20230322.0057-0074.

03:24 UM_Flashlights: fraternal_masks_cal.xml. luci[1|2].20230322.0075-0096.

03:26 MODS DG 2.4" slit flat. mods[1|2]b.0039-0044, mods[1|2]r.0031-0036.

LUCI2 MOS error! Also multiple errors of the kind below:



04:52 MODS DG 1.2" slit flat. mods[1|2]b.0045-0050, mods[1|2]r.0037-0042.

05:23 MODS DG 1.0" slit flat. mods[1|2]b.0051-0056, mods[1|2]r.0042-0048.

05:46 MODS DG 0.8" slit flat. mods[1|2]b.0057-0062, mods[1|2]r.0049-0054.

06:43 MODS DG 0.6" slit flat. mods[1|2]b.0063-0068, mods[1|2]r.0055-0060.

07:23 MODS DG imaging flats. mods[1|2]b.0069-0078, mods[1|2]r.0061-0075.

08:11 MODS DG arcs. mods[1|2]b.0079-0083, mods[1|2]r.0076-0078.

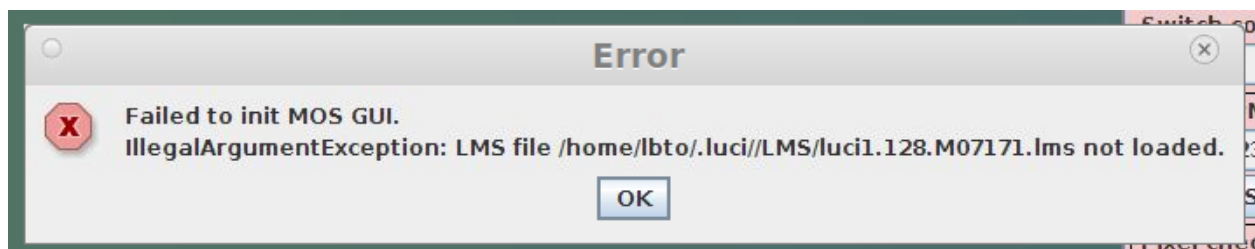
08:30 MODS cals complete, mods have been put to sleep.

10:11 Looking into the LUCI2 error:

40706040 2023-03-22 03:26:38.6570 ERROR ***** Luci TWO
TWO_MOSUnit Error in sequence MOS - storage to turnout. WARNING holding current
still active at [card number: 1, motor number: 5, ty...
ID: 40706040
Software Timestamp: 2023-03-22 03:26:38.6570
Time Service Client: sync
Type: ERROR (12)
Level: HIGHEST (3)
Usage: Luci TWO (4)
Host: luci.luci.lbto.org (141)
Program: TWO_MOSUnit (11)
Address: SequenceMaskFromStorageToTurnoutPosition.java:234
long Address: de.rub.astro.lucifer.instrument.mosUnit.sequences
.SequenceMaskFromStorageToTurnoutPosition .execute :234
Content: Error in sequence MOS - storage to turnout. WARNING holding current still
active at [card number: 1, motor number: 5, type: "mask handling unit head translation",
description: "spindle"]!
Attachment: de.rub.astro.lucifer.instrument.sequence.PostConditionsViolatedException
Details: Transmission

10:13 Simple error (looking into the eng GUI), an init of the MOS unit should suffice. Error state cleared. Configuring LUCI2, running missing LUCI2 exposures.

10:18 LUCI2 exposures are running fine, but FTP error message is persistent. Checking /home/lucifer/LMS/FTP on luci.luci.lbto.org the lms file is indeed missing, however nothing in this directory is older than 2021 I assume I am looking in the wrong place. It looks like the file should be in /home/lucifer/LMS/L2/2023.03.07/luci1.128.M07171.lms but is not. The file does exist in /home/lucifer/LMS/L1/2023.03.09, I've copied it over. This did not clear the issue completely, but did result in a new error message.



Checking that directory we see:

```
[lbto@obs1 LMS]$ ls -l
total 8
-rw-r--r--. 1 lbto users 7537 Mar 22 10:50 luci1.128.M07171.lms
-rw-r--r--. 1 lbto users    0 Mar 19 2022 luci2.132.M07171.lms
[lbto@obs1 LMS]$
```

I'm at a loss and will mail Dave T.

10:38 Calibrations complete, LUCI darks will be taken tomorrow. LUCIs safed. Quitting for the night.

12:59 18 degree twilight.

12:28 12 degree twilight.

13:16 Sunrise.