

OSURC Nightlog 20220124 UT

Observer*: Olga Kuhn

Lead Partner Observer*: Jack Neustadt (OSU)

Other Partner Observers*: Elvira Cruz-Cruz (OSU), Mark Whittle (UVa)

Special Assistants*: none

Telescope Operator: Josh Williams (LBT)

* = from home

Plan:

The plans were reassessed given the lack of internet, road conditions and the forecast. Ultimately it was decided to start with MODS (the first PEPSI target, the nova, needs 2 hours and fairly stable conditions, which may be unlikely to start with) and the switch to PEPSI to observe the Thompson & Griffith targets.

MODS schedule

☐ MODSPhotCal/gd71	UTC 02:00 - 02:20
☐ OSU_ASASSN/J062307	UTC 02:25 - 03:00
☐ OSU_ASASSN/ASASSN19dj	UTC 03:05 - 05:45 (maybe do standard if finishes quick)
☐ OSU_ASASSN/SN2021adlw	UTC 05:50 - 07:00
☐ OSU_ASASSN/ASASSN14li	UTC 07:05 - 09:45
☐ OSU_ASASSN/ASASSN14ae	UTC 09:50 - 12:30
☐ MODSPhotCal/standard??	UTC 12:35 - ??:??

Summary:

Issues:

Weather:

100% humidity

Preparations:

luci[1|2].20220124.0NNN.fits
mods[1|2][b|r].20220124.NNNN.fits
lbc[b|r].20220124.HHMMSS.fits

Overview (times are given in UT):

01:27 Josh has MODS run up but the conditions of variable clouds may argue for using PEPSI instead. He's got the vnc session onto PEPSI

01:28 After authorizing for PEPSI, he was able to "Engage" both PFUs. (He had to restart the azcamserver for AGw7).

01:29 Josh has started up the telescope, MODS and PEPSI-PFUs. Now we're still in 100% humidity and fog, but ready to go...

02:00 Still 100% humidity and fog.

03:51 Still 100% humidity. Josh reports that there is light snow blowing around outside - it is not clear where it's coming from, above or wind-blown snow that already had fallen. There is also a very, very thin later of ice build up on the all sky and on metal surfaces; that could go either way - if the humidity drops, it could sublime, but if not it could get thicker.

04:29 Still 100% humidity and -6 d C. Josh reports that he saw stars in one frame, but they disappeared by the next.

04:34 Josh reports that it is definitely snowing out there now. It does look clearer overhead, but there is snow coming down.

04:40 Josh sent an email out to call the night.

08:24 Still 100% humidity and the allsky is iced over

MODS Calibrations

Since Josh has the MODS up and running, he'll obtain some calibrations:

mods[1|2][b|r].20220124.NNNN.fits

calibration	mods1b	mods1r	mods2b	mods2r
grpixflats dual	3-7 check #s 8-12 check #s	3-7	1-5 6-10	1-5
grlamps dual	13-15 check #s	8-10	11-13 14 repeat Ne+Hg	6-8 (6 Ne lamp did not come on) *** 12 repeat Ne+Hg
grlamps dual	15-17	11-13	15-17	13-15
dual 1.0" slit flats	18-23	14-19	18-23	16-21
dual 1.2" slit flats	24-29	20-25	24-29	22-27
grpixflats dual bin 12	30-34 35-39	26-30	30-34 35-39	28-32
dual 0.8" slit flats bin 12	40-42 43-45	31-33 34-36	40-42 43-45	33-35 36-38
bias 8K bin 12	46-50	37-41	46-50	39-43
bias 8K	51-55	42-46	51-55	44-48
grlamps bin12	56-58	47-49	56-58	49-51
bias 1K	59-63	50-54	59-63	52-56
<i>A set of dual grating 5" slit flats were taken a couple of days ago. mods[1 2][b r].20220122.NNNN.fits and have the following index numbers.</i>				
<i>Dual grating 5" flat</i>	<i>0013-18</i>	<i>0019-21</i>	<i>0013-18</i>	<i>0019-21</i>

*** Josh is turning the Ne lamp in MODS2 off and on to try to get it to fire up. These are test exposures 9,10,11 - the 3rd time was the charm.

ALTA predictions

Just including the RH predictions, since that is the most relevant for the night.

LBTplot

The SX (black) and DX (green) guide star FWHM and flux are plotted below.