OSURC Nightlog 20220617 (2nd half) UT

Observer*: Olga Kuhn Lead Partner Observer*: Mark Whittle (UVa) Special Assistants*: AO Operator*: Juan Carlos Guerra Telescope Operator: Josh Williams * = from home

Plan:

This is a split night with LBTB and the initial plan was to use the 2nd half, except for a 1.5hr trade to observe the UM PEPSI program at the end of the first half and allow LBTB to use 1.5 hrs in the second half. But as a consequence of a power outage earlier in the day, the PEPSI CCDs lost cooling and PEPSI was unavailable tonight.

Tonight's plan was therefore a mix of MODS and LUCI, depending on conditions.

Summary:

No observations were made all night due to clouds.

Issues:

The planned switchover from generator to line power at 10am this morning did not go smoothly there was no line power and we could not switch back to the generator either. All instruments were shut down before the UPS ran out.

The LBCs, MODS were back up, the FPU on LUCI2 was warm at sunset but is projected to be within temperature by about 8:30 or 9pm, and LUCI2 could be used with it a couple degrees warm anyway, so this would not have precluded use of LUCI.

The PEPSI CCDs lost cooling, however and the dewars need to be pumped, which Ilya says will take ~12 hours. PEPSI is offline for tonight. There is also an issue with the red CD mechanism - the fix did not anticipate losing power. Thomas Hahn wil be looking into it.

Weather:

There were clouds all night, preventing opening. Around 18 deg twilight a hole started to form above the observatory, though there are clouds all around.

Preparations:

mods[1,2][b,r].20220617.NNNN.fits luci[1,2].20220617.NNNN.fits

Overview (times are given in UT):

07:20 Night center and handover from LBTB. No observations were done in the first half and it was completely overcast at this time. LBTB had opted to do a backup program with MODS if we opened, and we remained configured for MODS.

10:08 There may be a hole. It's shifting and closing up - clouds are still all around. The allsky image below is about the best it has looked all night so far:



10:41 Calling it a night as there is no time to open and execute even the shortest program.

Closed Dome Calibrations

MODS

	m1b	m1r	m2b	m2r
dual grating comp lamps	10-12	10-12	9-11	9-11

dual grating pixel flats	13-17 (clear) 18-22 (UG5)	13-17	12-16 (clear) 17-21 (UG5)	12-16
0.6" slit flats (for an LBTB)	22-24 25-27	18-20 21-23	22-24 25-27	17-19 20-22
1" slit flats	28-30 31-33	24-26 27-29	28-30 31-33	23-25 26-28
bias 8K	34-38	30-34	34-38	29-33
bias 3K				
bias 1K				

LUCI

I aligned the N30 FS and took a few closed-dome flats with the N30 camera and FS, using the UVa_nirjets_AO script to provide a look. (I will repeat on the night that the target is observed so as to match the field position, since it may change a bit). There are some donuts on the flats, but I do not see these with the N3.75 camera or in all 3 filters: H2, BrG and Ks. Are they on the N30 camera and filters?

Ks	5-9 lamp off 10-14 lamp on
BrG	15-19 lamp off 20-24 lamp on
H2	25-29 lamp off 30-34 lamp on

