

OSURC night log UT 2022 December 28

Observers: Dave Thompson

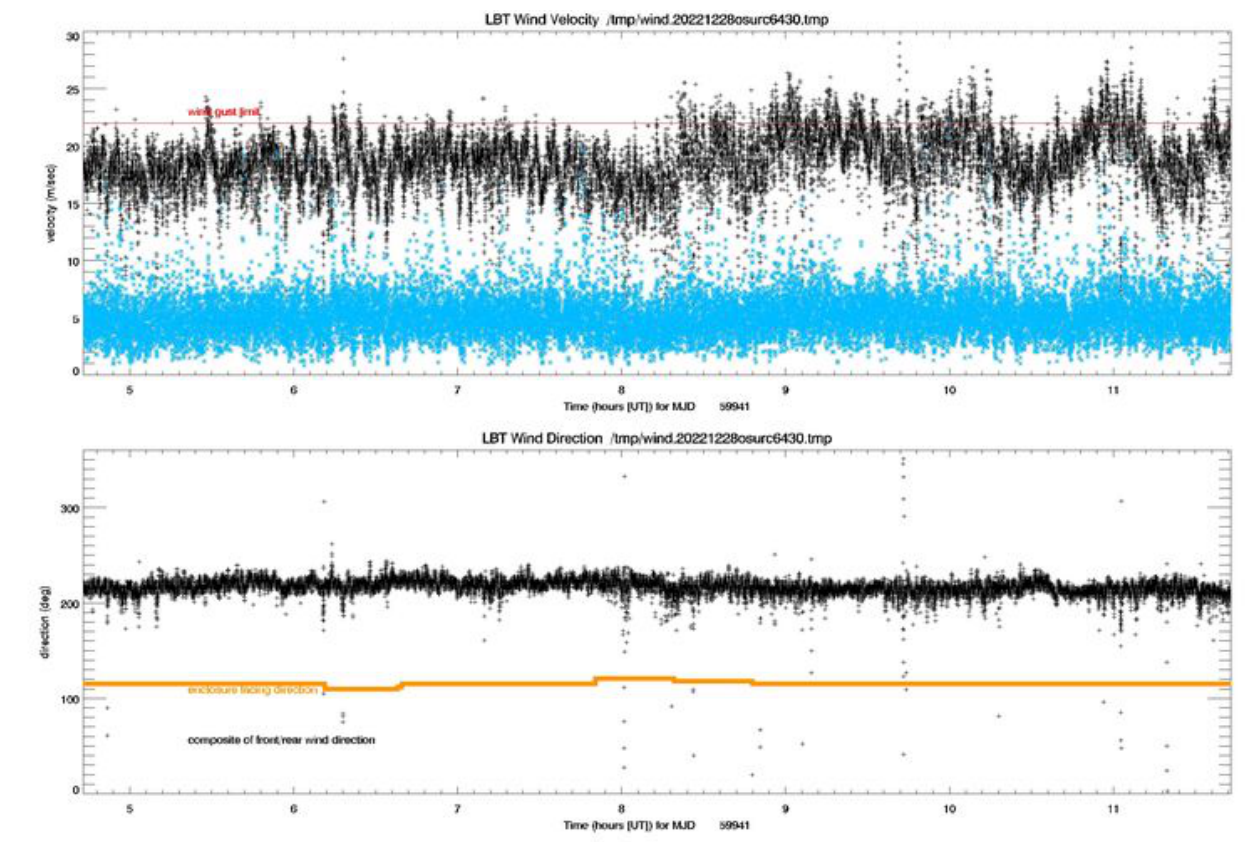
Lead partner observer: Donald Terndrup*

Telescope operator: Steve Allanson

* = from home

Summary:

Clouds all night, with only brief intervals where constellations could be recognized over ~50% of the sky. Steady winds with gusts frequently above the closure limit. Weather radar showed advancing rain. This wind plot covers about 10pm-5am MST:



At UT 08:15 we called it a night and started MODS calibrations.

MODS Calibs done: 1k, 3k, 8k bias, dual grating pixflats, 0.8,1.0,1.2,5" slitflats and arcs.

Dave Thompson's technical notes:

OSURC Science Run - UT 20221228

TMS running, setup with Olga's help

RDP to 192.168.18.55 user/<<see wiki for pwd>>
follow instructions to turn on laser

Open terminal for TMS

```
ssh -X telescope@robs
```

```
LBTplot &
```

```
cd /lbt/lbto/supportscripts/MetrologySupport
```

Set reference:

```
<<collimate on PSF for primary mirrors>>
```

```
./lbc_set_tms_offset.py -s 2
```

Start TMS loop:

```
./tms_loop.py
```

to recollimate

stop loop

dohybrid/dofpia

run co-pointing script

set reference while integrating

start loop

@ new field:

allow TMS to update

Did not open

TMS shutdown

^c to stop loop

MultiLine

Parameters->Stop TCP/IP

EnvDataSys -> disconnect

MeasurementSys -> disconnect

Note: Only TCP/IP client shows green, others red

Disconnect from RDP

^c in watcher terminals, exit

Turn off LBCs

MODS Calibrations from the other night

MODS wake up and checkout

```
mods1 status mods2 status
mods1 start gui  mods2 start gui
modsDisp --mods1 modsDisp --mods2
```

```
modsWake bino
modsSimSnap bino
done, looks normal
```

08:39 Still mostly cloudy, with wind gusts frequently over our 22m/s limit.

```
### MODS Calibrations (postponed from UT20221226)
cd /lbt/lbto/mods/modsCalibs_OT
```

```
Started: Wed 28 Dec 2022 08:55:55 AM GMT
# execBinoMODS bias1K.txt 0003-0007
# execBinoMODS bias3K.txt 0008-0012 m1r readout delays
# execBinoMODS bias8K.txt 0013-0017 m2b readout delays, unique filenames
    0013-0021 for m2b, missing 0018 ??
m2: blue fitsflush
m2b 0018 not saved to /lbt/data/new? Extra images taken by script?
```

```
cd /lbt/lbto/mods/modsCalibs_OT/Dual
# execBinoMODS grpixflats_m1.txt grpixflats_m2.txt
    m1r IMCS failed 1x, retry worked
m1: blue fitsflush - caught up
m1: red fitsflush - still shows unique filename
```

```
# execBinoMODS grslitflats_0.8_m1.txt grslitflats_0.8_m2.txt
# execBinoMODS grslitflats_1.0_m1.txt grslitflats_1.0_m2.txt
# execMODS --mods2 grslitflats_1.0_m2.txt
    IMCS timeout on mods1, instconfig timeout on mods2
# execBinoMODS grslitflats_1.2_m1.txt grslitflats_1.2_m2.txt
# execBinoMODS grslitflats_5.0_m1.txt grslitflats_5.0_m2.txt
# execBinoMODS grlamps_m1.txt grlamps_m2.txt
```

```
### Put mods to bed:
modsSleep bino
```

```
xterm -sb -cr red -bg LightSteelBlue1 -fn
-misc-fixed-bold-r-normal--18-120-100-100-c-90-iso8859-1 -geom 120x24+240+700 &
```

```
gethead mods1b.20221226.* OBJECT MASKNAME | grep -v 60x1.0 | grep -v 60x1.2 | grep -v
60x0.8
```