OSURC Nightlog 20220930UT

Observer: Alex Becker
Lead Partner Observer*: Charlotte Wood
Telescope Operator: Josh Williams
AO Support*: ./.
*** = from home**

Night Info (AZ Time):

- Sunset: 18:13
- Nautical Twilight Ends: 19:30
- Astro Twilight Ends: 19:01
- Moonset: 20:01
- Astro Twilight Starts: 04:50
- Nautical Twilight Starts: 05:19
- Sunrise: 06:08

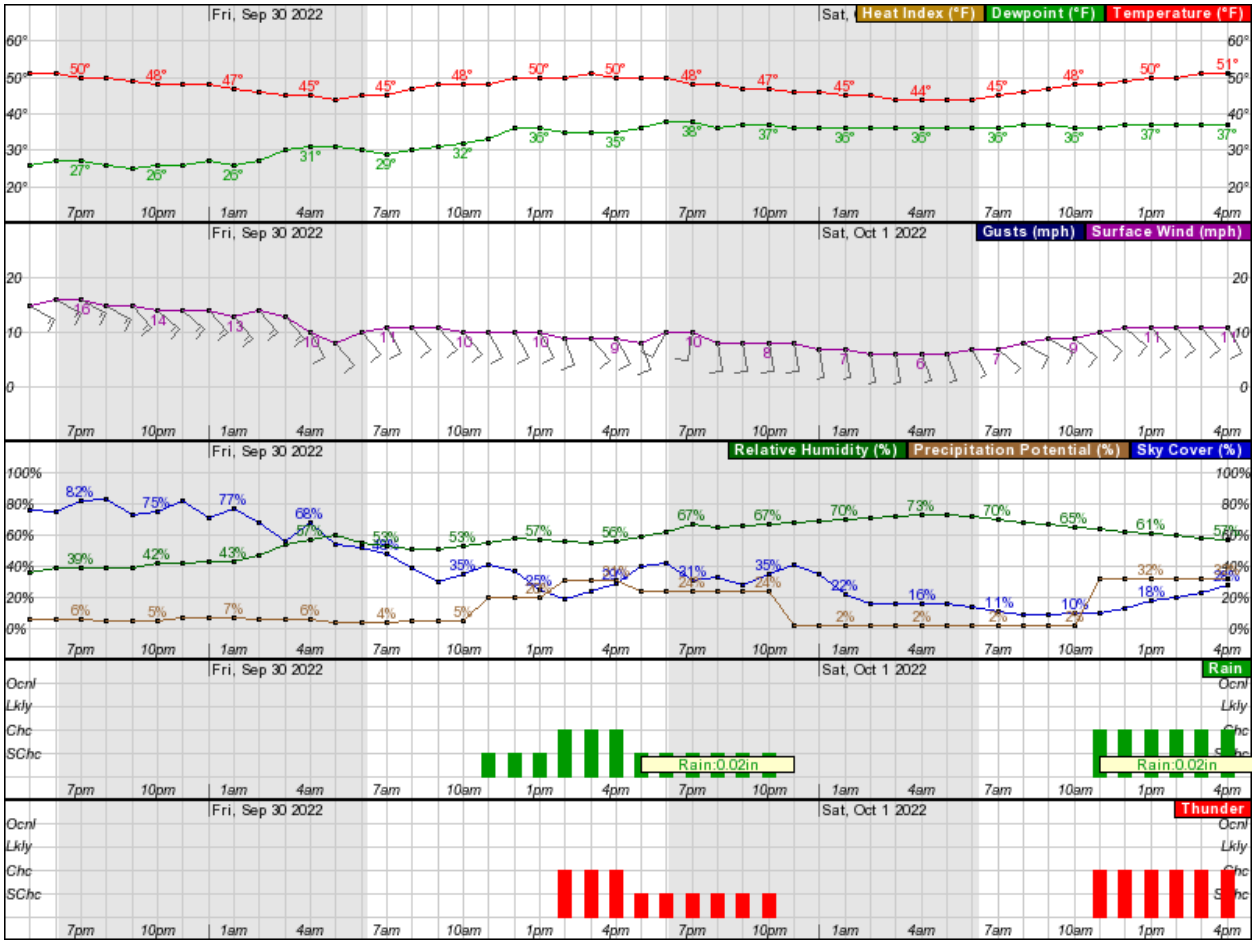
Plan:

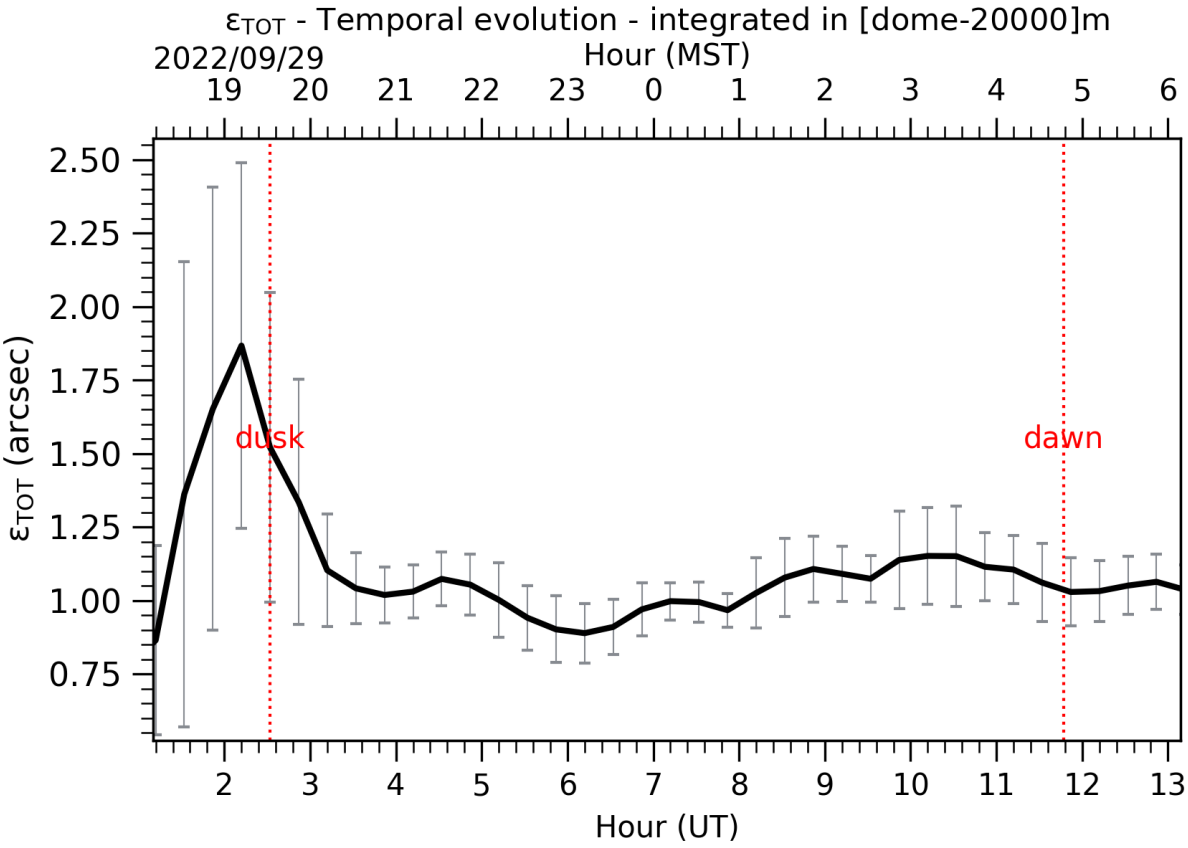
Summary:

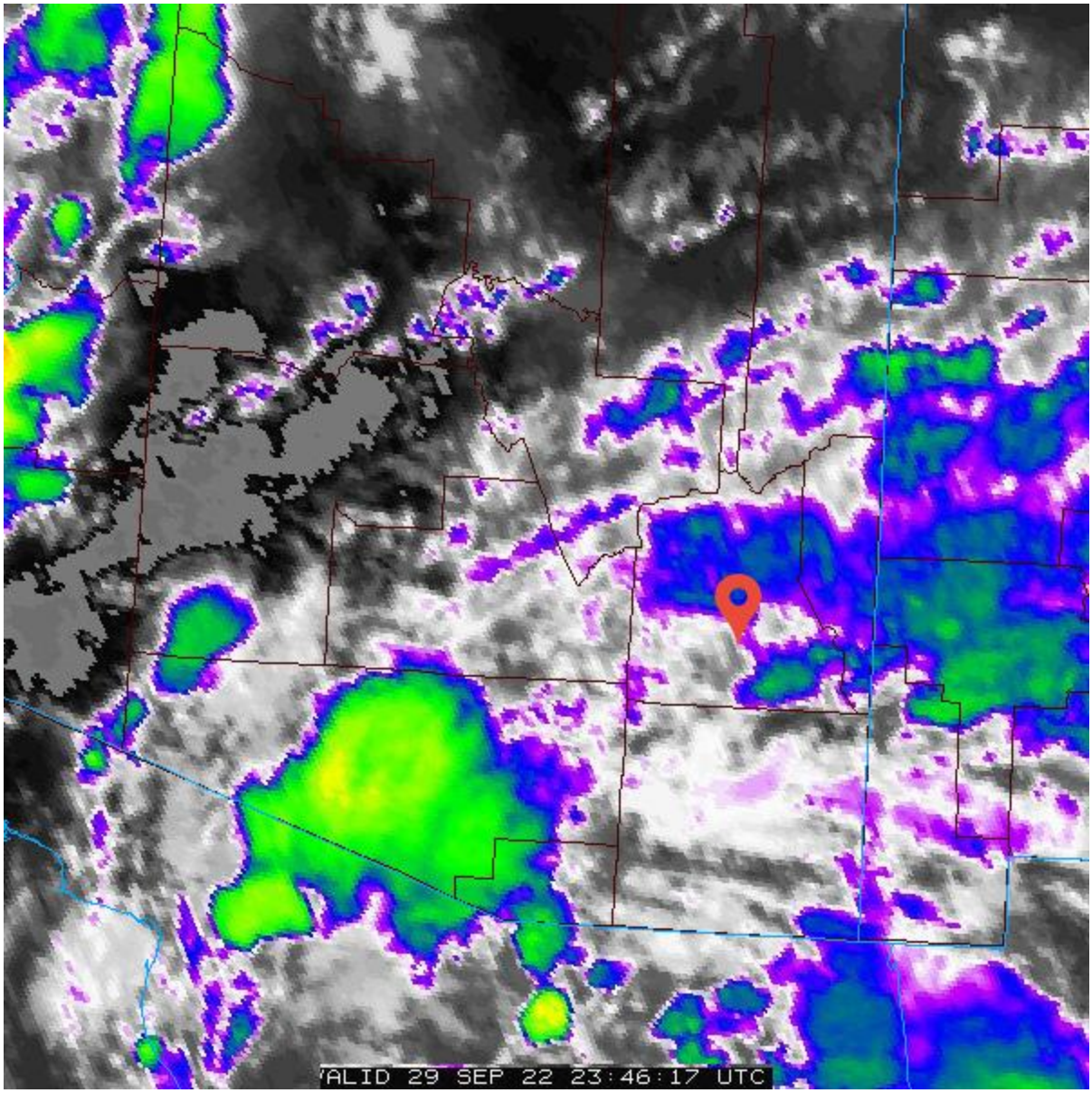
Issues:

Weather:

Mostly cloudy, with a low around 44. Southeast wind 10 to 16 mph.


Fri, Sep 30 2022
Sat, Oct 1 2022
Heat Index (°F)
Dewpoint (°F)
Temperature (°F)
Gusts (mph)
Surface Wind (mph)
Relative Humidity (%)
Precipitation Potential (%)
Sky Cover (%)
Rain
Thunder
Ocnl
Lkly
Chc
SChc
Rain:0.02in
7pm
10pm
1am
4am
7am
10am
1pm
4pm


εTOT - Temporal evolution - integrated in [dome-20000]m
2022/09/29
Hour (MST)
19 20 21 22 23 0 1 2 3 4 5 6
2.50
2.25
2.00
1.75
1.50
1.25
1.00
0.75
εTOT (arcsec)
dusk
dawn
2 3 4 5 6 7 8 9 10 11 12 13
Hour (UT)



Night/Closed Dome Log (times are given in UT)

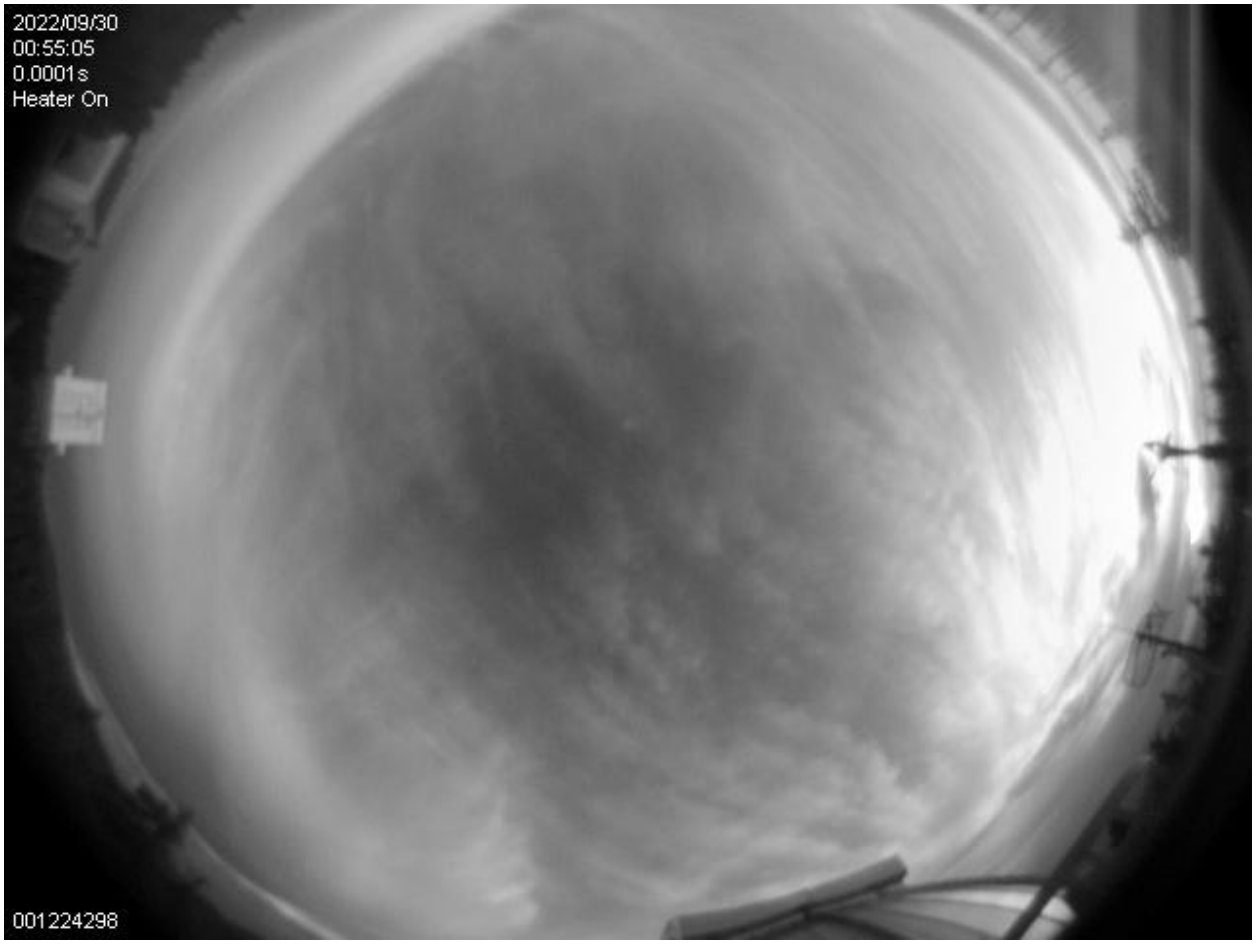
Closed Dome:

00:20 MODS awake

00:22 simSnap bino

00:35 LUCI Initialize all

01:00



01:03 MODS in observing mode.

01:04 Open

On-sky:

01:30 Pointing check and collimation.
It looks like ~5mag of extinction
Seeing around 1.2”

OSU_WD

HAT-P-18

01:40 Sending preset
Guidestar 14.9mag. Too faint for us now.

Std

BD254211

01:48 Sending preset

01:51 Nope. Nothing to see here

01:51 Standing by, watching clouds, drinking coffee

02:02 We try again
We found a guide star!

modsAlign -r mods1r.20220930.0003.fits
MODS1 Offset Command:
  offsetxy -0.682 11.705 rel

modsAlign -r mods2r.20220930.0003.fits
MODS2 Offset Command:
  offsetxy 3.877 7.604 rel

02:08 Starting science OB
Seeing about 1”

OSU_WD

HAT-P-18

02:18 Sending preset
** ERROR: Command 'PARTNER OSURC' timed out after 120 seconds
Retry

Still 3mag extinction, but clouds are clearing up.

02.35 We are not able to clearly identify the objects. But, conditions are still improving.

Target at position:
MODS1 x=515
MODS2 x=525

Slit center 1” slit:
MODS1 x=505
MODS2 x=512

Moving target 10px=1.2” to the left for MODS1
Moving target 13px=1.56” to the left for MODS2

There is something at the correct position in the slit. Hard to tell if it is the WD. Still about 1mag extinction.

02:55 Science time!
I think we are on the white dwarf.

03:50 We have lost the guide stars due to thicker clouds about 4 minutes ago. Exposures paused while we are waiting for the guide stars to come back.

03:58 Stopping exposures about halfway through the third image.

03:58 Reconfig LBC

04:00 Turning on TMS Lasers and LBCs

OSU_monitor

N6503

04:15 preset to focus field. No stars

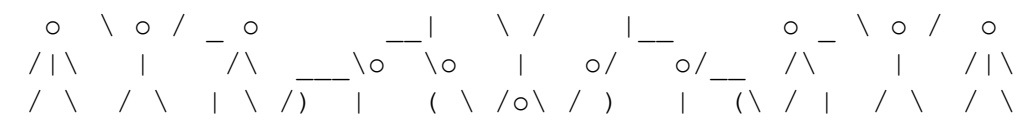
N6946

04:22 Preset to N6946

04:26 Uhhh, I see three faint donuts. Doubling exp time for dohybrid…
Nope!

04:36 Conditions are slightly improving. Waiting…

04:44 Wooohhuuuu! dohybrid is happy, I am happy



04:50 Copointing check

IQ ~0.7”

04”53 Setting tms reference

04:54 tms active

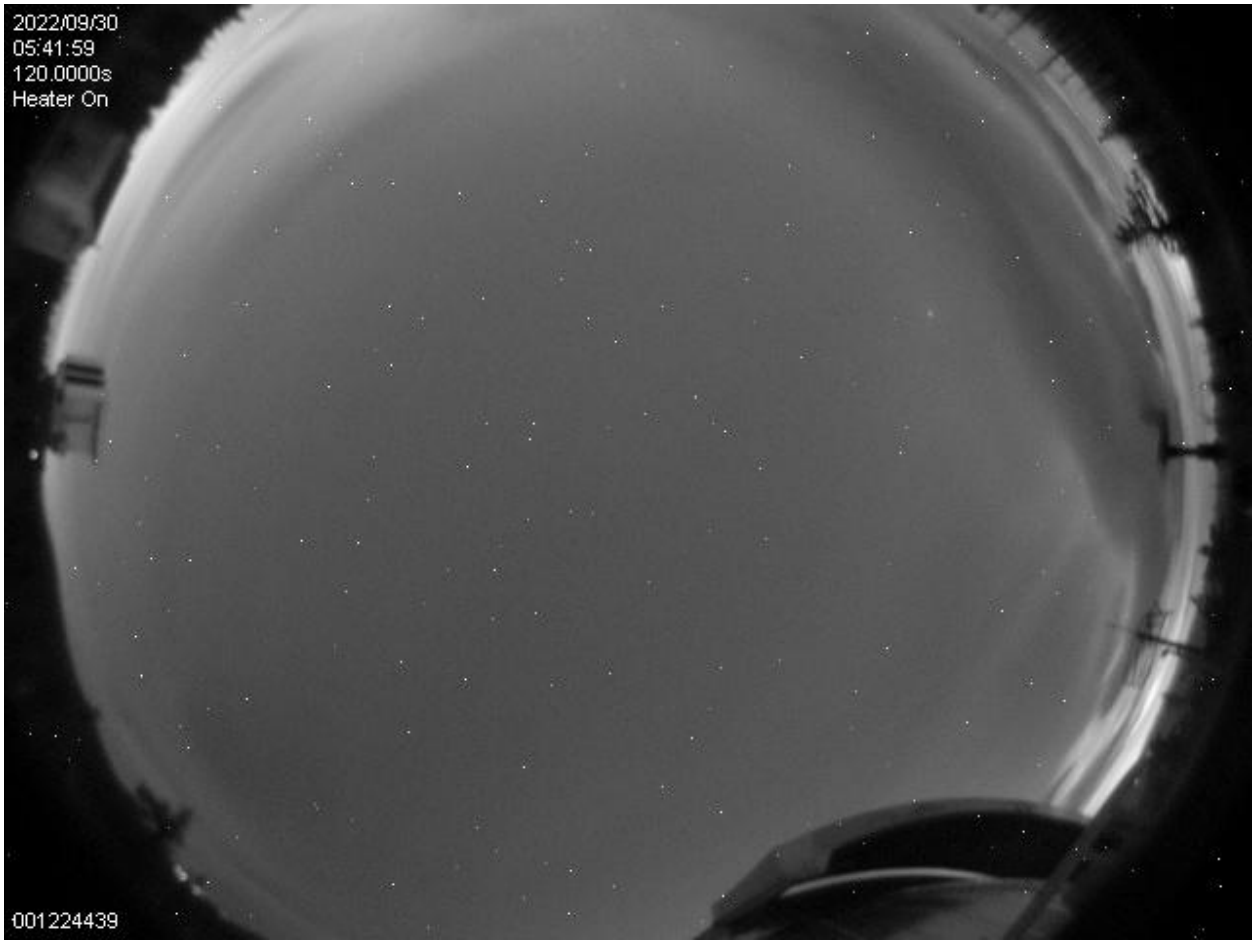
Computer slowed down for about a minute when starting TMS and loading the science OB. Input lag of several seconds and very slow response.

04:55 Starting science

Tonight LBCR seems to have a better IQ. LBCB ~4px, LBCR ~3.5px.
05:17 Still good and stable on both sides

05:31 Repeating the script to compensate for clouds. And new clouds are also coming in. We might be forced to pause soon anyway.

05:44 We have lost the galaxy. I blame Josh, even though he thinks it’s because of clouds… I don’t see any clouds, the all-sky-cam is too dark…



05:51 Closed due to clouds

11:30 calling the night

11:30 TMS off

11:33 TMS Lasers OFF

11:34 Turning LBCs off

11:35 Putting MODS to sleep

11:37 Putting the Observer, the Lead Partner Observer and the Telescope Operator to sleep.

See you next time!!!

Calibrations: