

LBT Observing Log for 2024 10 08 UT

Observers: Alex Becker, Ilya Ilyin

Partner Observer: Michael Tucker

Telescope Operator: David Gonzalez Huerta

Plan:

PEPSI transit Kelt-9 for the first half of the night

Summary:

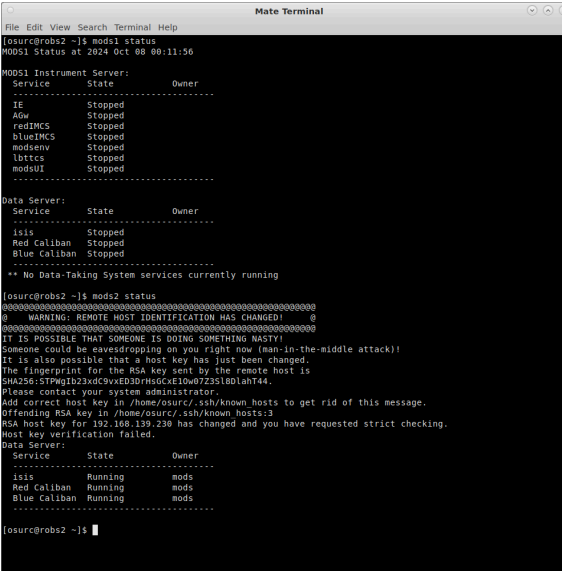
PEPSI LOG:

<https://drive.google.com/file/d/1INgmSwjPPL1o40tNkhcCCGRDWiix1DfR/view?usp=sharing>

Issues:

PEPSI software became unresponsive at the end of the night, 29 minutes before 12 deg twilight. It took about 15 minutes to bring the software up again as it continued to be unresponsive. Total time lost: 29 minutes

Old RSA key for MODS2 instrument server (192.168.139.230) for osurc on robs2. Deleted old key from known_hosts and added new one. MODS1 was fine. Everything came up nicely afterwards.



```
File Edit View Search Terminal Help
[osurc@robs2 ~]$ modsl status
MODS1 Status at 2024 Oct 08 08:11:56

MODS1 Instrument Server:
Service      State      Owner
-----
IE           Stopped
Alo          Stopped
redMCS       Stopped
blueMCS      Stopped
modsenrv     Stopped
lbtss        Stopped
modslUI      Stopped

Data Server:
Service      State      Owner
-----
isis         Stopped
Red Caliban  Stopped
Blue Caliban Stopped

** No Data-Taking System services currently running

[osurc@robs2 ~]$ modsl status
*****
WARNING: REMOTE HOST IDENTIFICATION HAS CHANGED! *****
IT IS POSSIBLE THAT SOMEONE IS DOING SOMETHING NASTY!
Someone could be eavesdropping on you right now (man-in-the-middle attack)!
It is also possible that a host key has just been changed.
The fingerprint for the RSA key sent by the remote host is
SHA256:STPw01D33dC9vxEED3DRH5dC810w07Z351801ahT44.
Please contact your system administrator.
Add correct host key in /home/osurc/.ssh/known_hosts to get rid of this message.
Offending RSA key in /home/osurc/.ssh/known_hosts:3
RSA host key for 192.168.139.230 has changed and you have requested strict checking.
Host key verification failed.
Data Server:
Service      State      Owner
-----
isis         Running    mods
Red Caliban  Running    mods
Blue Caliban Running    mods

[osurc@robs2 ~]$
```

PEPSI had a long latency at the beginning of the observation (~30 seconds). Was fine afterwards. Reported by Ilya, so not related to robs machines or x2go

Weather:

Sunset: 12°C, 34.5% humidity, 4.4 m/s @ 210°, clear, seeing 0.8"

Overview (times are given in UT):

00:20 MODS2 awake, LBCs turned on.

01:05 open

PEPSI

OSU_PETS

Kelt-9

~01:20 Preset

01:28 Starting science observation

SNR blue: ~270, red: ~310

02:03 DIMM seeing 0.95", still 0.75" on the guider

03:15 some clouds near the horizon to the east/south-east

06:37 Conditions remained stable throughout the observation.

OSU_LiDwarf

2MJ01244193+0124528

06:46 Preset

06:51 Starting science exposure

SNR: red: 118, blue: 85

2MJ03435417+1719250

07:04 Preset

07:09 No star. Pointing check

07:11 Preset

07:12 Starting science exposure

SNR red: 122, blue 90

2MJ04134178+2305579

07:16 Preset

07:17 Starting science exposure

SNR: red: 117, blue 73

OSU_BHBinaries

2MJ23591989+0607195

07:29 Preset

07:32 Starting science exposure

SNR: red 149, blue 104

2MJ23434829+2706302

07:41 Preset

07:43 Starting science exposure

SNR: red 140, blue 105

2MJ02074777-2538269 (1800s)

08:14 Preset

08:16 Guide star not found. Pointing check

08:17 Preset ... there it is!

08:20 Starting science exposure

SNR: red 150, blue 95

ND_RPED

Gaia DR3 165559792284004736

08:51 Preset

Not found...

08:53 Pointing check

08:55 Preset

08:57 Starting science exposure

SNR red ~130, blue ~50

We might have had a bit of clouds during the last exposures CD1+CD6. SNR slightly lower

Gaia DR3 3425822389539781376

09:43 Preset

DummDumm ... preset failed

09:45 Pointing check

09:46 Preset

09:49 Starting science exposure

OSU_LiDwarf

2MJ08280198+1913343

10:50 Preset

10:52 Starting science exposure

SNR: red 106, blue 81

OPU_BHBinaries

Picking ones away from horizon, short, close together on-sky

2MJ05433601+4405207

11:07 Preset

failed ...

11:09 Pointing check

11:10 Preset

11:11 Starting science exposure

2MJ05313920+4729318

11:14 Preset

11:15 Starting science exposure

2MJ05305735+4448123

11:18 Preset

11:19 Starting science exposure

2MJ04574725+4514512

11:26 Preset

11:28 Starting science exposure

2MJ04441561+5032350

11:33 Preset

11:34 Starting science exposure

2MJ04270830+4539396

11:41 Preset

11:42 Starting science exposure

2MJ04080155+4847592

11:45 Preset

11:46 Starting science exposure

2MJ02252603+4528330

11:48 Preset

failed

11:50 Pointing check

11:52 Preset

11:54 Starting science exposure

11:57 Pepsi software stuck. No response for the last few minutes. Was still reading out. Trying to ctrl-c out of it ... Windows are only slowly closing.

12:02 There it is! It took only 5 minutes to fully ctrl-c out of it...

12:04 Restarting is also veeeery slow...

12:08 PEPSI software still not fully up and still totally unresponsive. ctrl+c

12:08 Starting software again. Image Browser, Spectrum Browser, PEPSI Control Unit, and PEPSI Device Status coming up quickly. PEPSI Spectrograph Control Interface took a bit longer ... After that, nothing happens

12:10 Closing hatch via PEPSI control GUI

12:11 Oh, I think I have everything back.

12:13 Taking PEPSI calibrations

12:32 Bringing MODS to bed and turning off LBCs