

C19 Observer: Andrew Cardwell (From obs1, x2go session 51)  
Partner Observer(s): Mark Whittle (UV, remote)  
Telescope Operator: Steve Allanson

### Plan:

We begin with PEPsi PFU. Conditions are cloudy, with a high probability of rain. The satellite images strongly suggest that clouds will be an issue all night.

### Observed and completed:

None

Summary: Cloud, rain, and high humidity prevented observations.

### Issues:

**MODS1B is offline for the night due to IMCS issues**

### Overview (times are given in UT):

00:26 Conditions are cloudy. Clouds are fast moving, the satellite animation shows much more on the way. The prediction gives us a 40% chance of thunderstorms tonight.

00:54 PEPsi is looking good, Ilya is running cals.

01:37 Sunset. Remaining closed. MODS are up.

01:43 On running a MODS sieveSnap mods1B appears to achieve IMCS lock. That was unexpected!

01:46 Checking with Olga, who monitored imcsTools while I ran it again, this is a false positive. All 4 quadcells read 2 (2 is not "data", it means no serial port read - all 4 quads have the same number so no false mirror correction can be applied).

02:26 12 degree twilight.

02:28 100% clouded out. Running a full MODS bias sequence.

02:56 18 degree twilight.

03:51 Conditions are unchanged, thick clouds. Humidity has been slowly rising for the past 4 hours and is now 75%.

05:23 There has been no break in the cloud, humidity is now 80.5%

06:30 Still cloudy. 80.8% humidity.

07:43 100% cloud cover, 83.1% humidity.

08:47 100% cloud cover, 86.7% humidity.

09:20 We have called the night. It is now raining heavily at the summit, the satellite animation gives no hope of conditions improving enough to observe.

09:24 93.4% humidity, still cloudy.

09:32 95.6% humidity.

09:34 MODS have been put to sleep.

10:34 100% humidity.

11:37 18 degree twilight.

12:07 12 degree twilight.

12:56 Sunrise.