The new mobile Telescope at the CHARA array

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Status at last year's CHARA meeting

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Telescope Installation 2024-03-19

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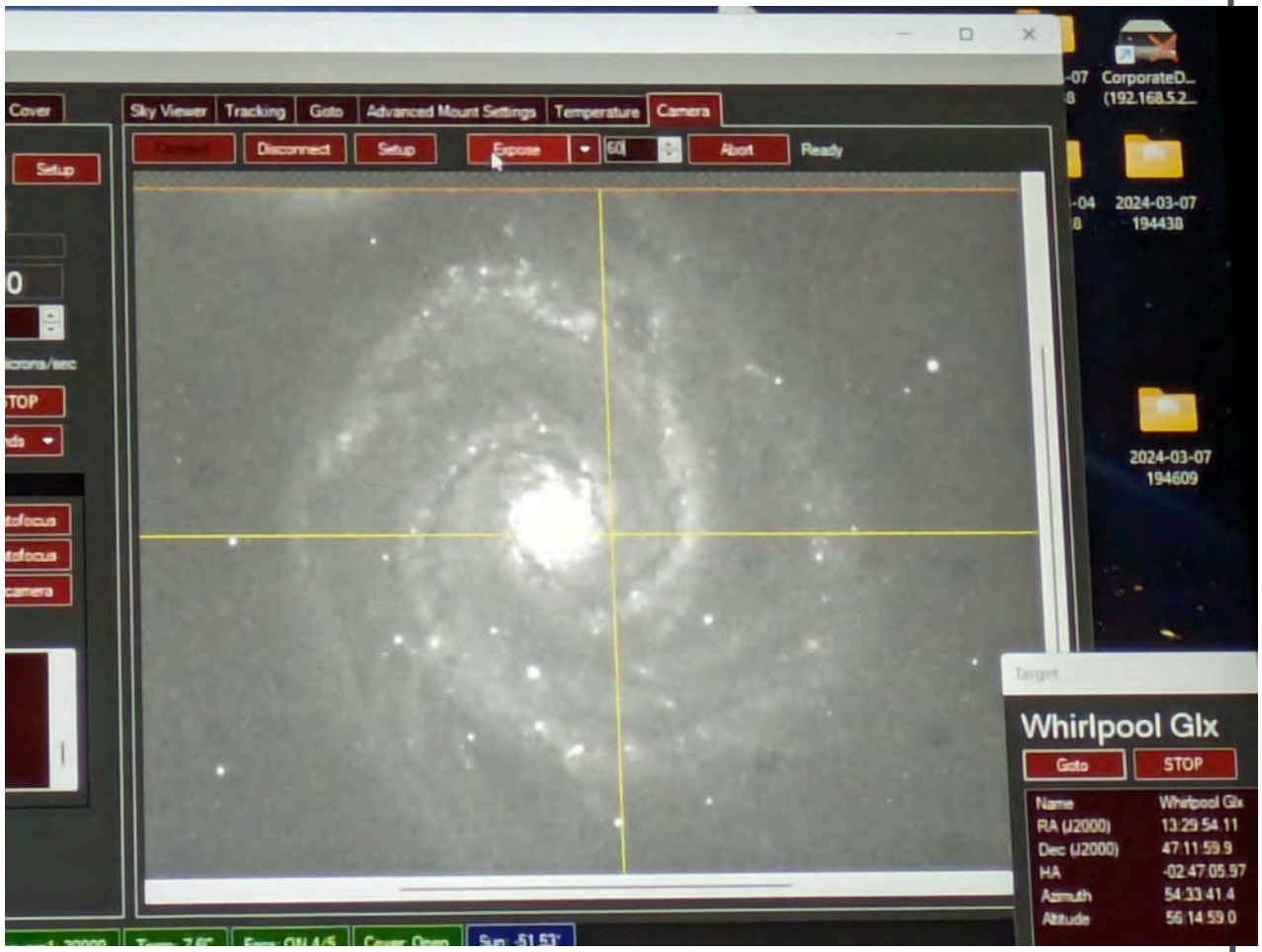
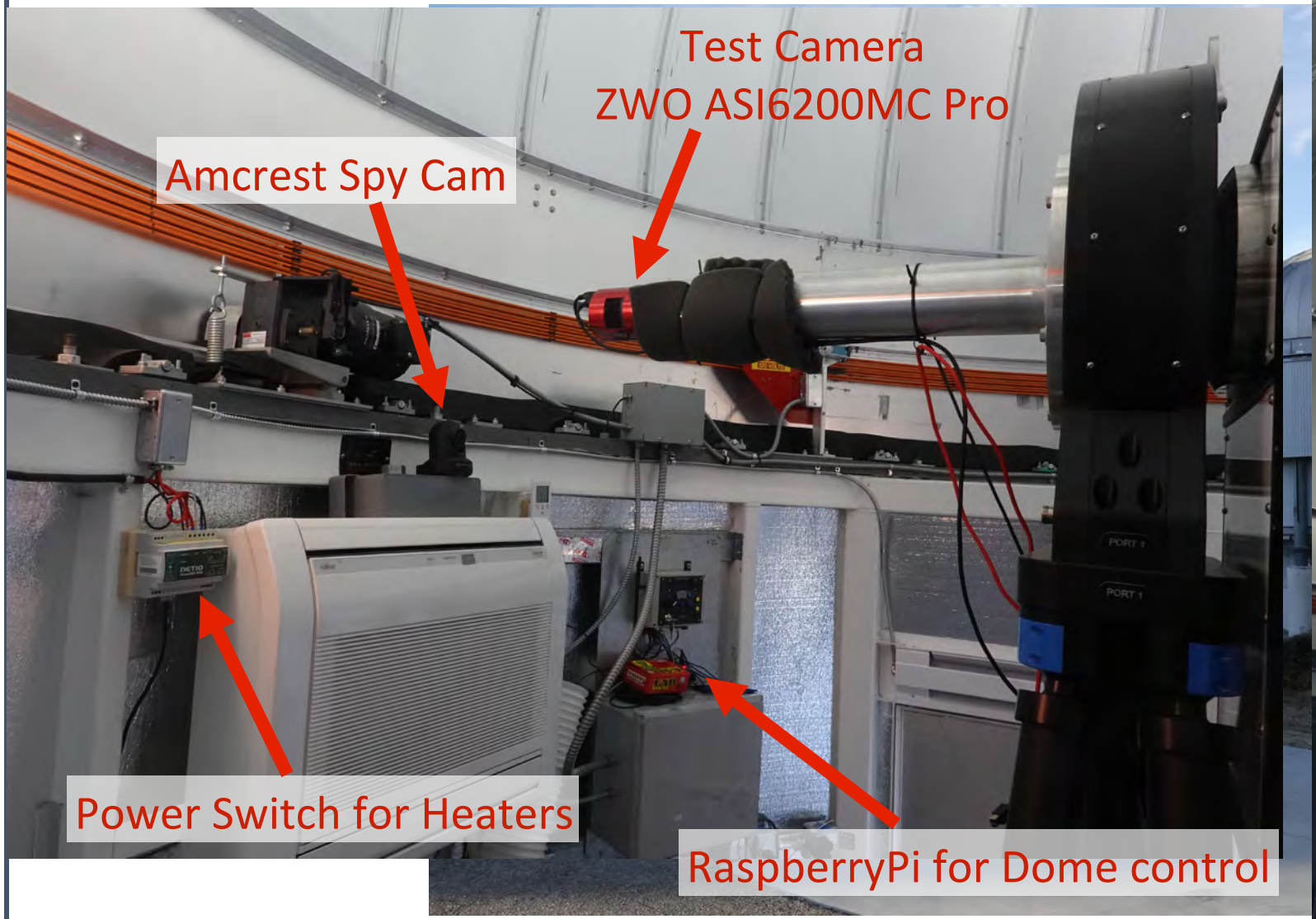
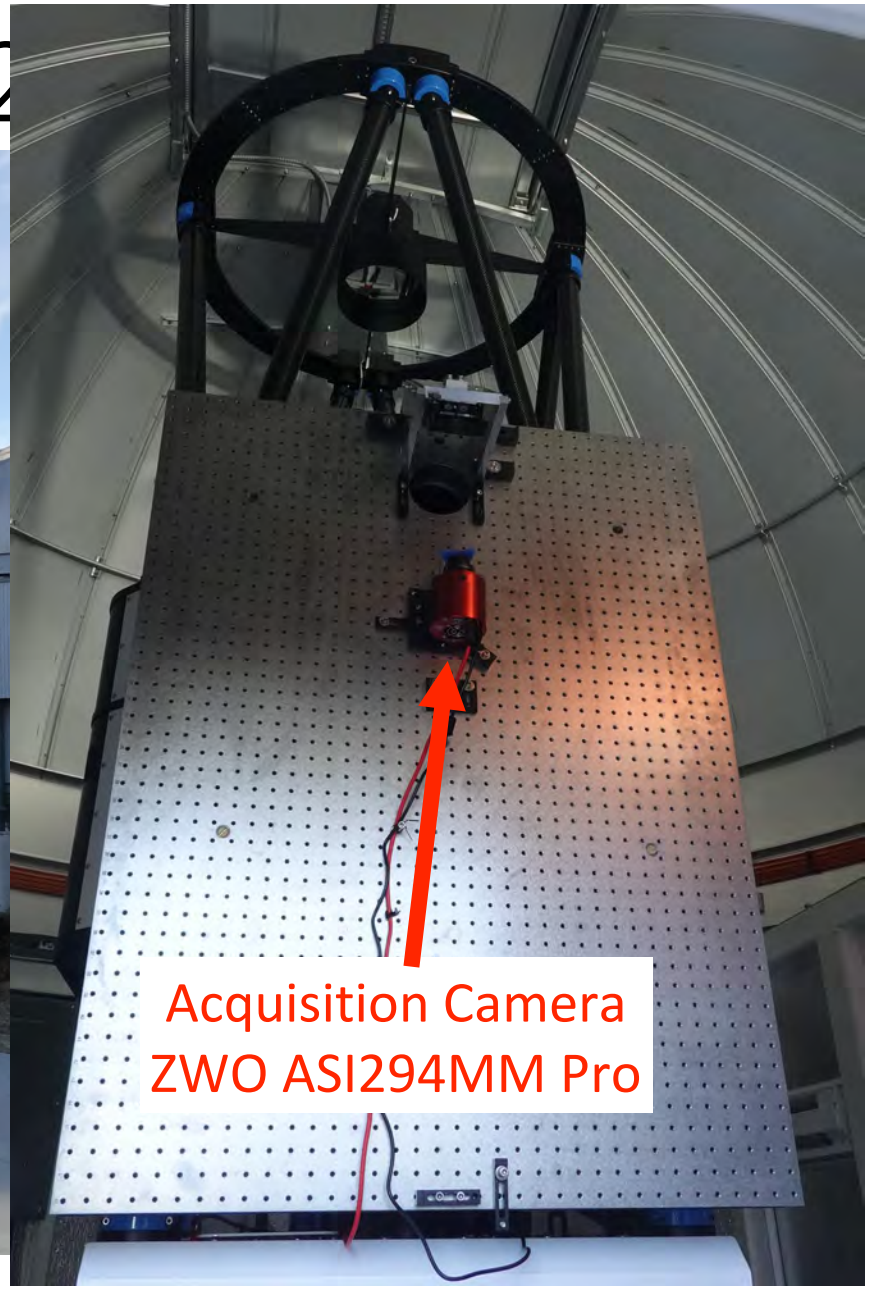
First light


Sky Viewer
Tracking
Goto
Advanced Mount Settings
Temperature
Camera
Connect
Disconnect
Setup
Expose
Abort
Ready
Cover
Setup
2024-03-07
194438
2024-03-07
194609
Whirlpool Glx
Goto
STOP
Name
Whirlpool Glx
RA (J2000)
13:29:54.11
Dec (J2000)
47:11:59.9
HA
-02:47:05.97
Azimuth
54:33:41.4
Altitude
56:14:59.0

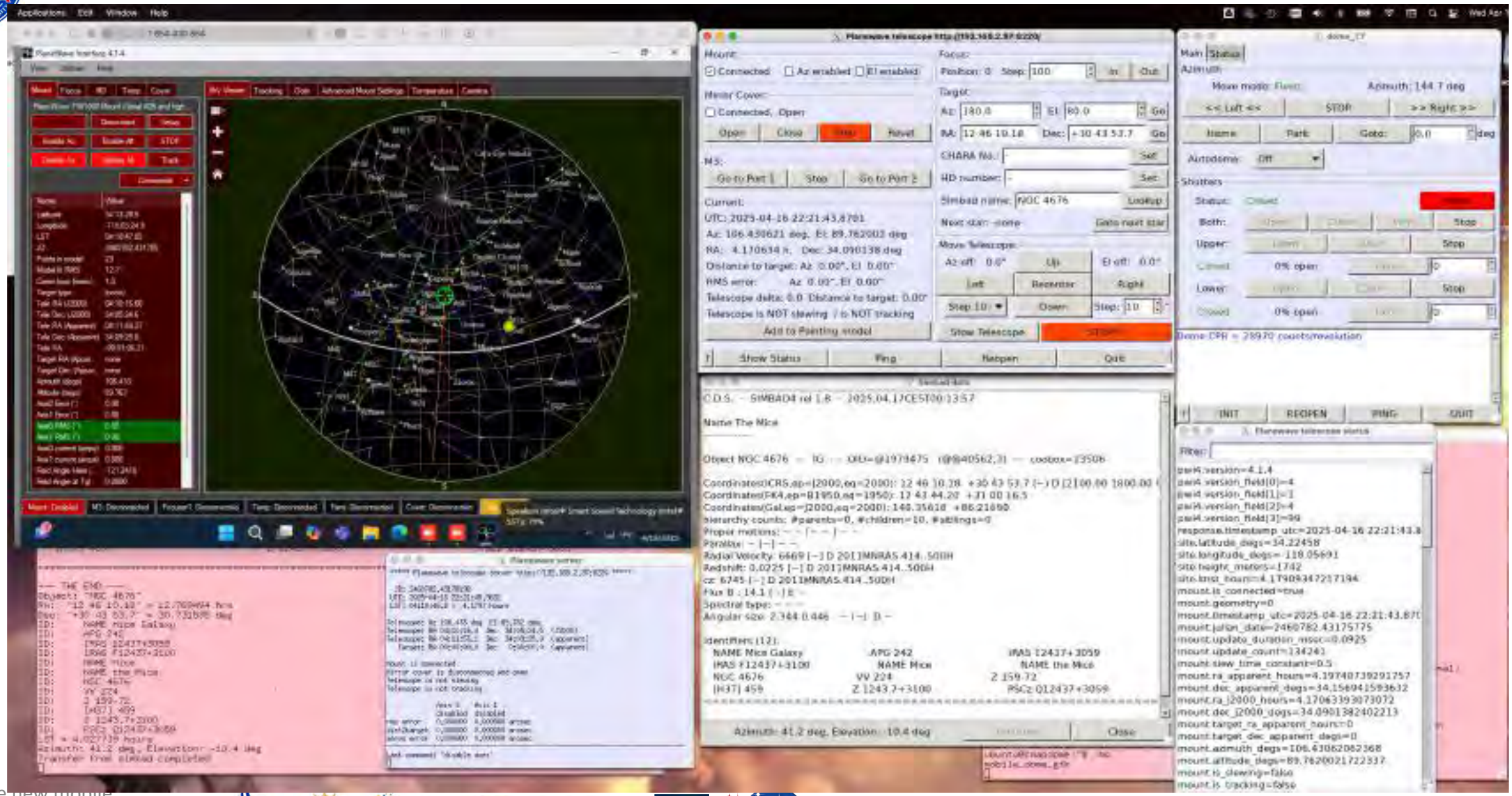
Status April 202





Telescopes do not like it cold

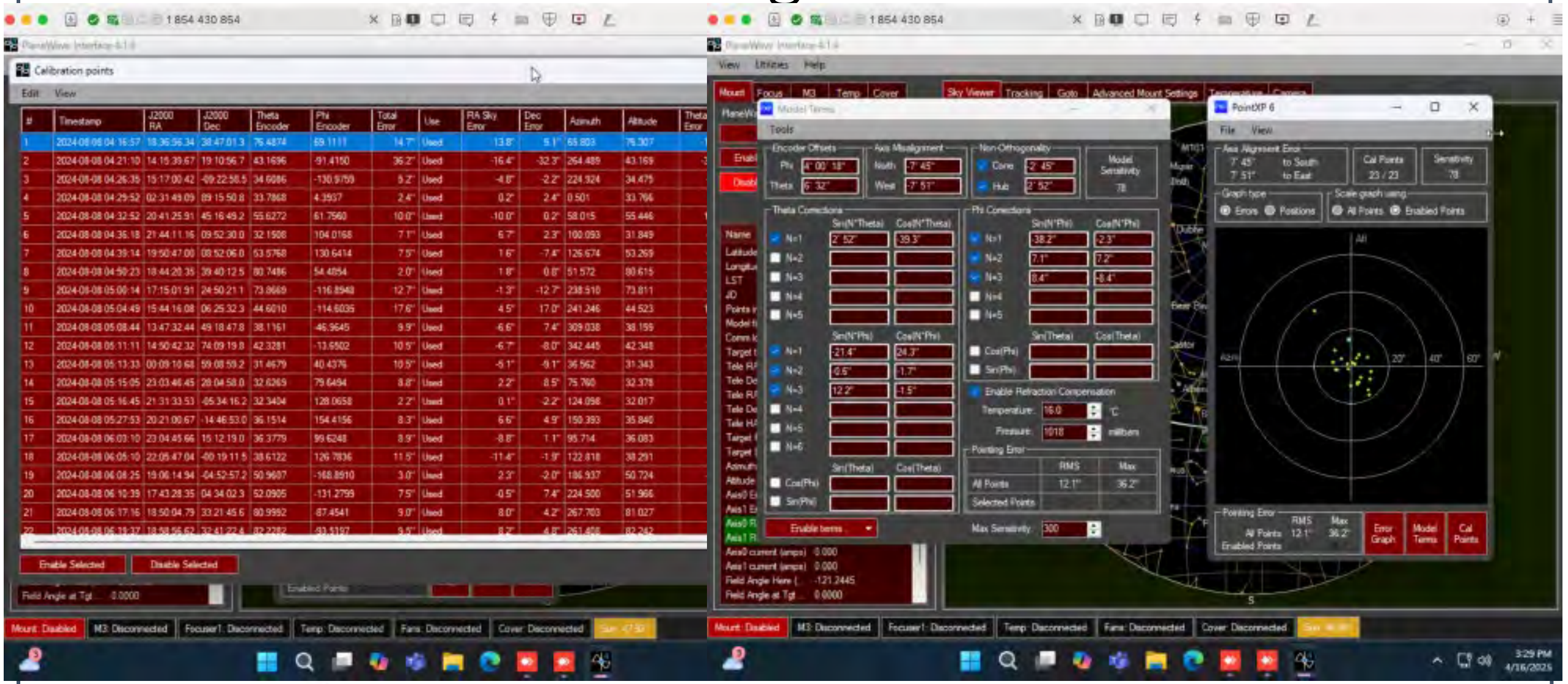
Software



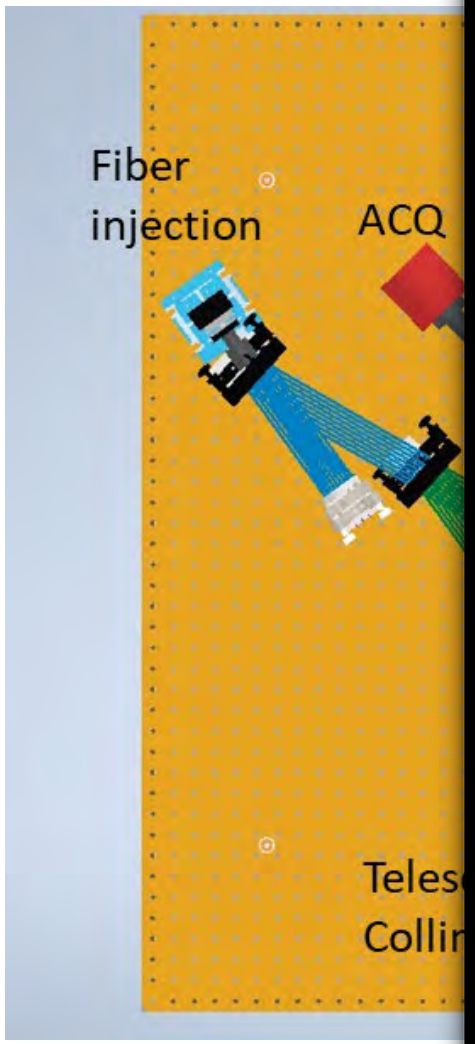
Pointing Model

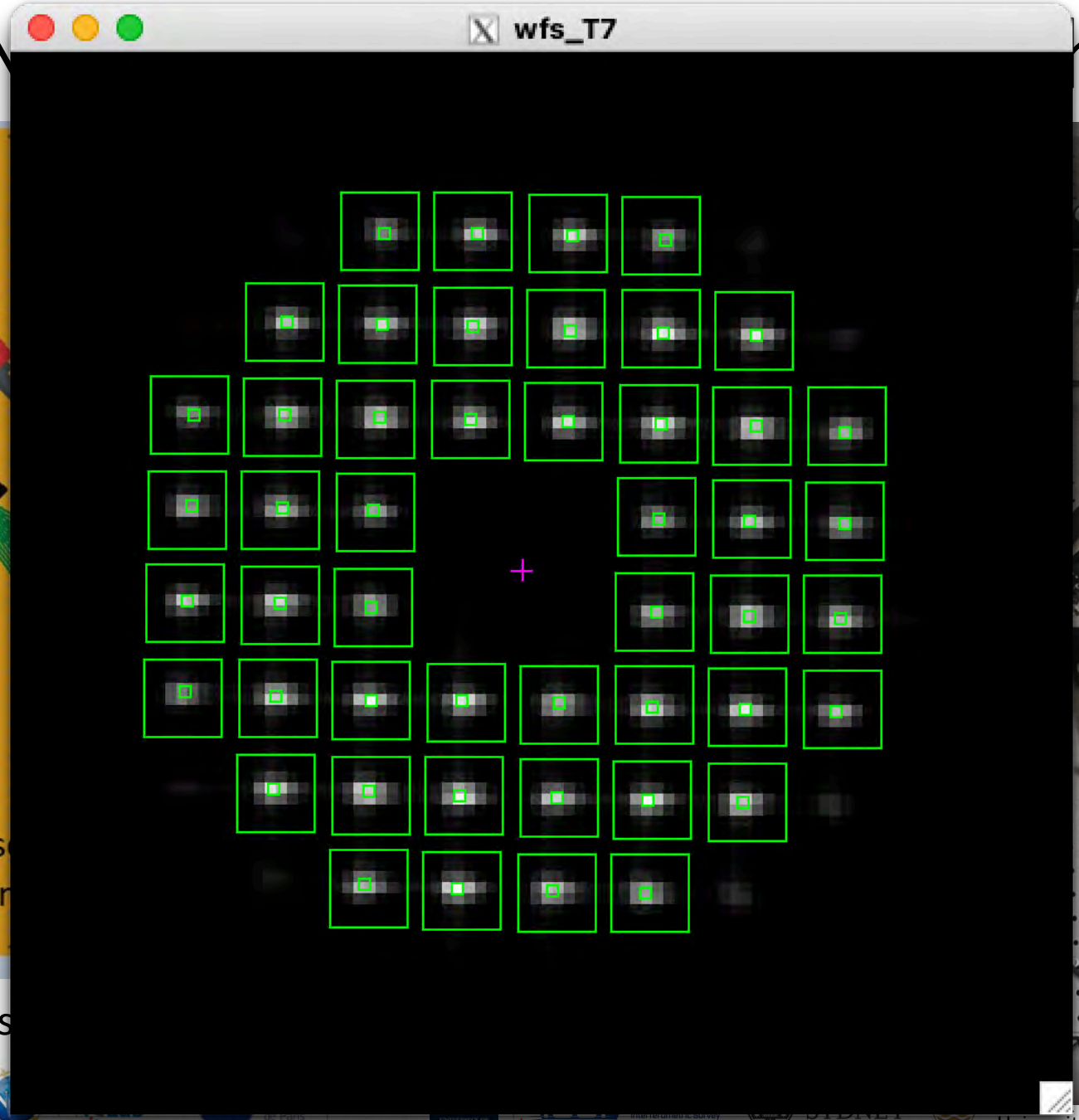
- Integrated in PlaneWave software
- Can work fully automatic:
  Point telescope, find stars, solve for pointing direction
- Not an option for us: FoV about 1 arcmin
- Do it manually:
  Point to bright star, center by hand, add point to model

Pointing Model



N…n





WFS path ins…

Next Steps

- Connect DM
- Close AO loop
- Acquisition camera
- Mount NIB on telescope

Results so far: pretty pictures