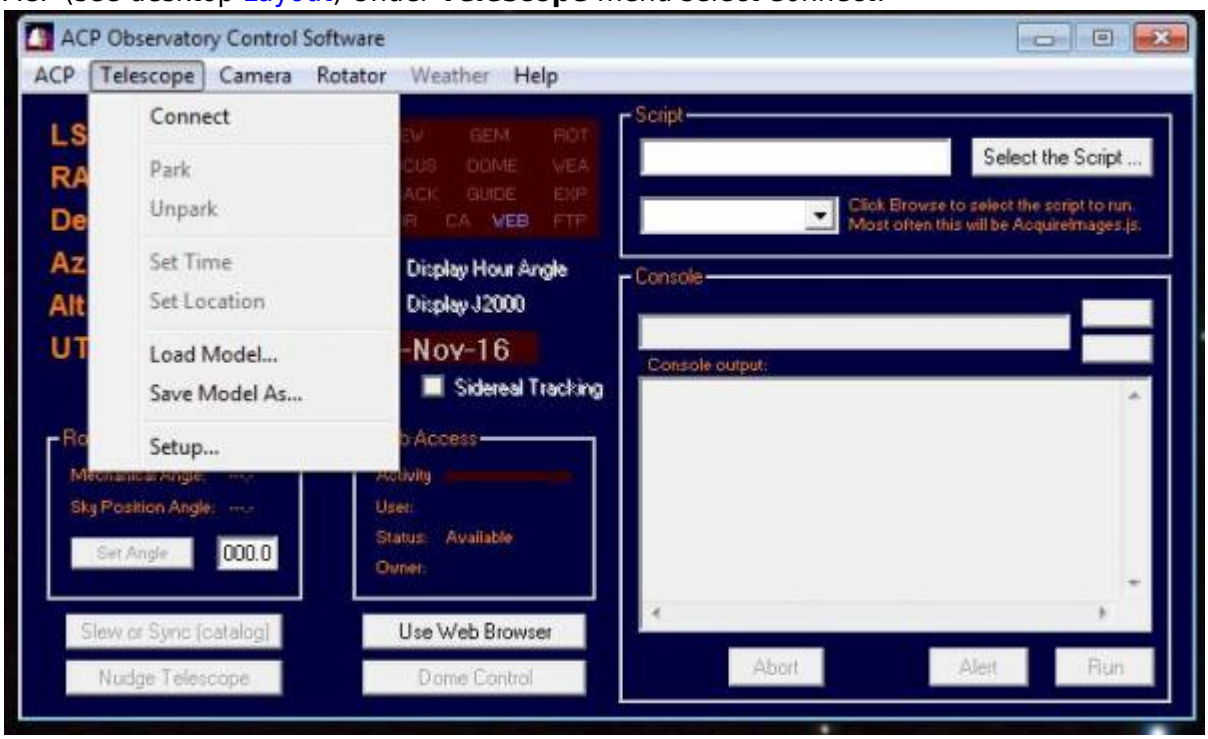
Normal Operating Instructions for the Schulman 0.8m Telescope

In this case “normal” basically means using the telescope for visual observing (SkyNights programs).

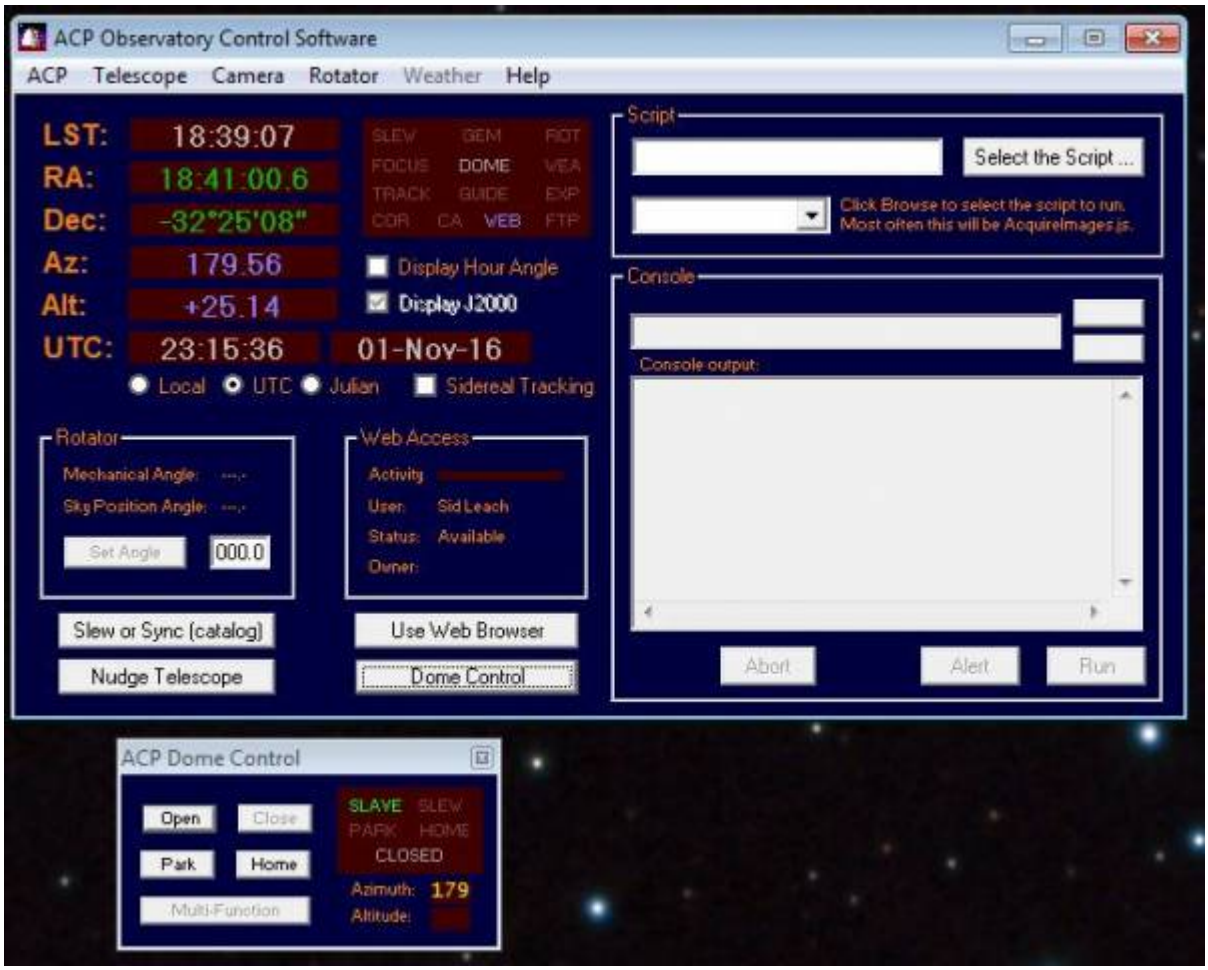
Everything that follows assumes the following:

- Telescope Controller is operational and in the normal state. (Telescope servos are on and the telescope has been homed. The telescope is in the ready state to observe.)
- Dome is operational and in the normal state.
- Computer does not have other running software, scripts or connections that would interfere with normal operations.

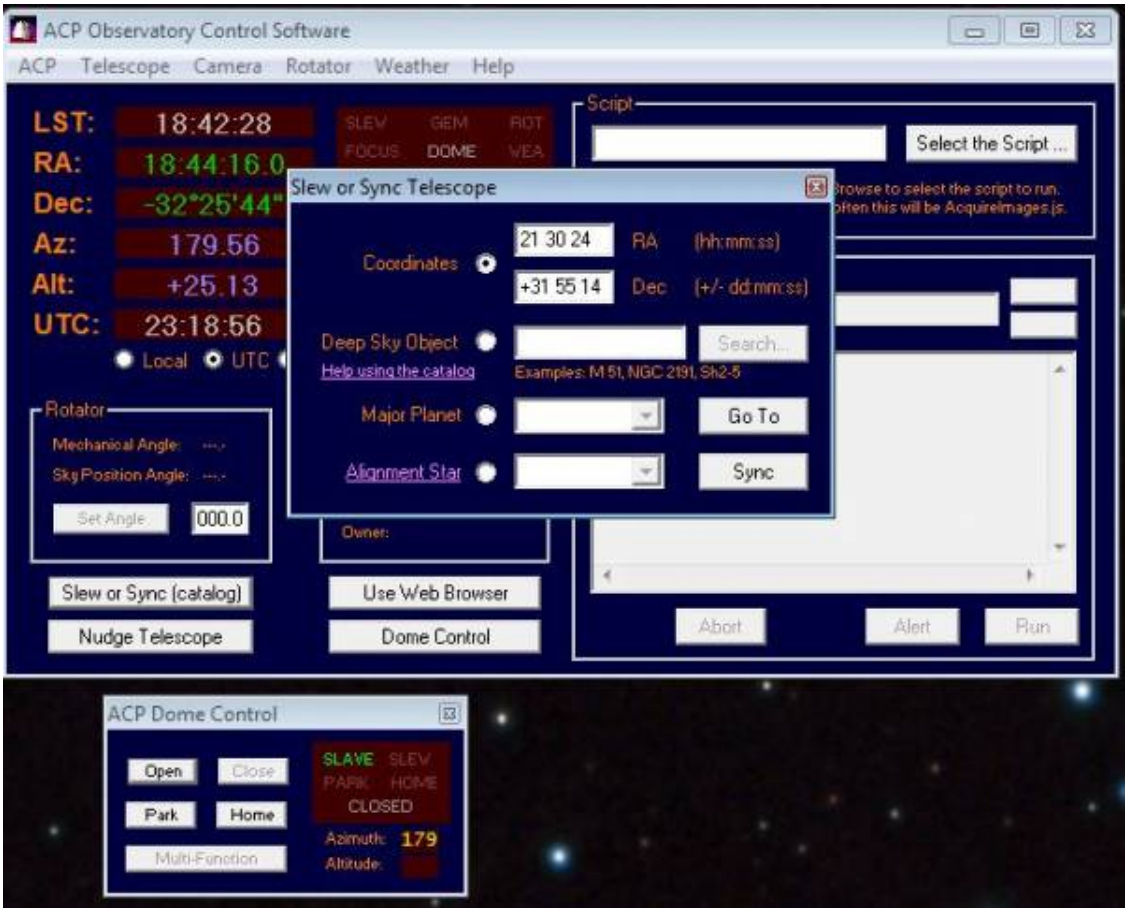
Starting things up

1. Open ACP (see desktop Layout) Under **Telescope** menu select *Connect*.


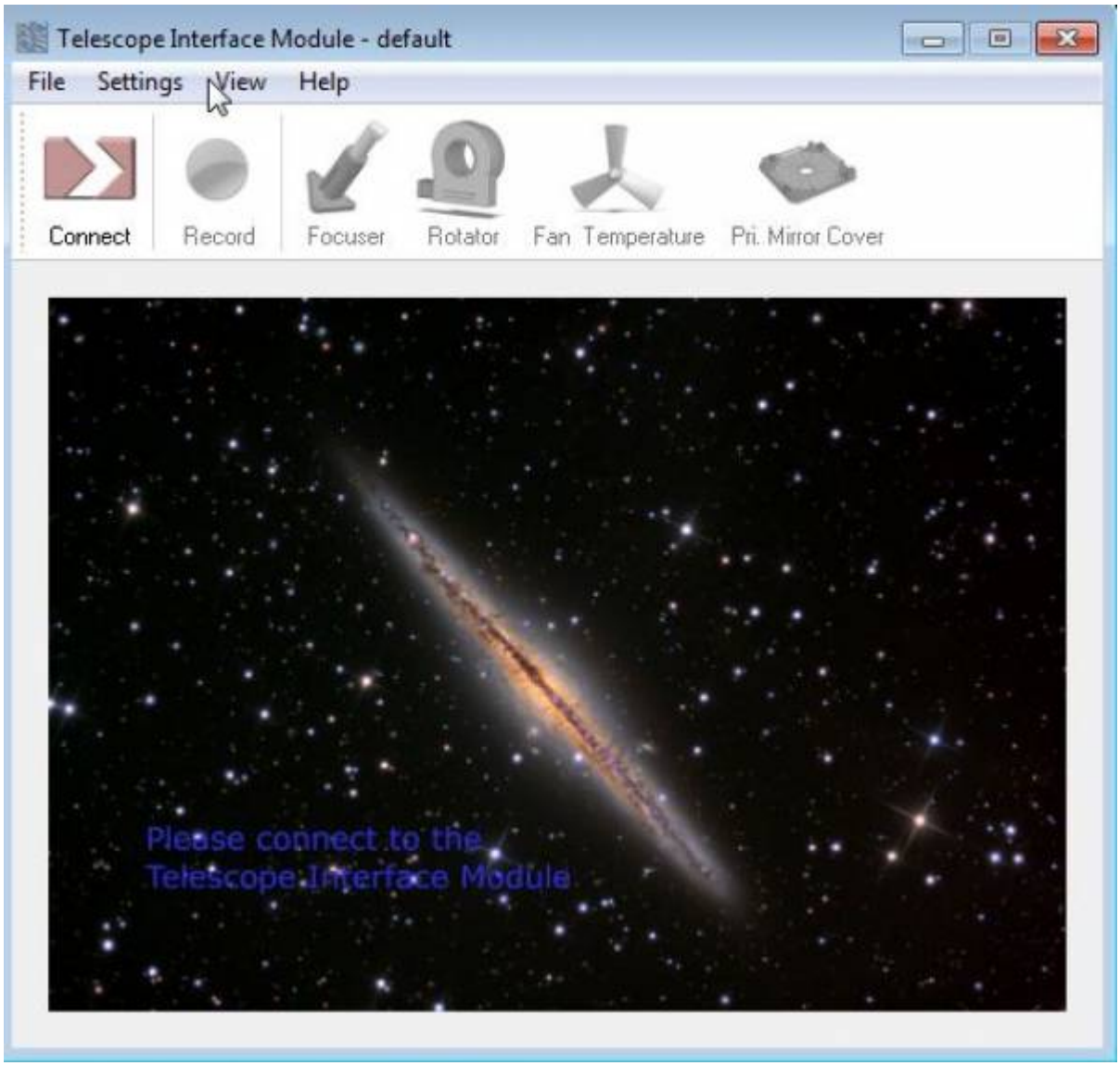
    1. Upon connecting the heads up screen will show the coordinates of the telescope. Please verify LST and coordinates make sense.
    2. If ACP complains the COM port is not available, it is likely another program is talking to the DOME or Telescope controllers. (e.g. ASCOM Dome software)
    3. Also ACP is set up to command the dome to find **HOME** when first connecting. If ACP was already connected to the telescope and the dome is slaved the dome will not move.
2. Press the “Dome Control” button to reveal the dome state. It will only allow this once the dome is homed and not moving.

1. 

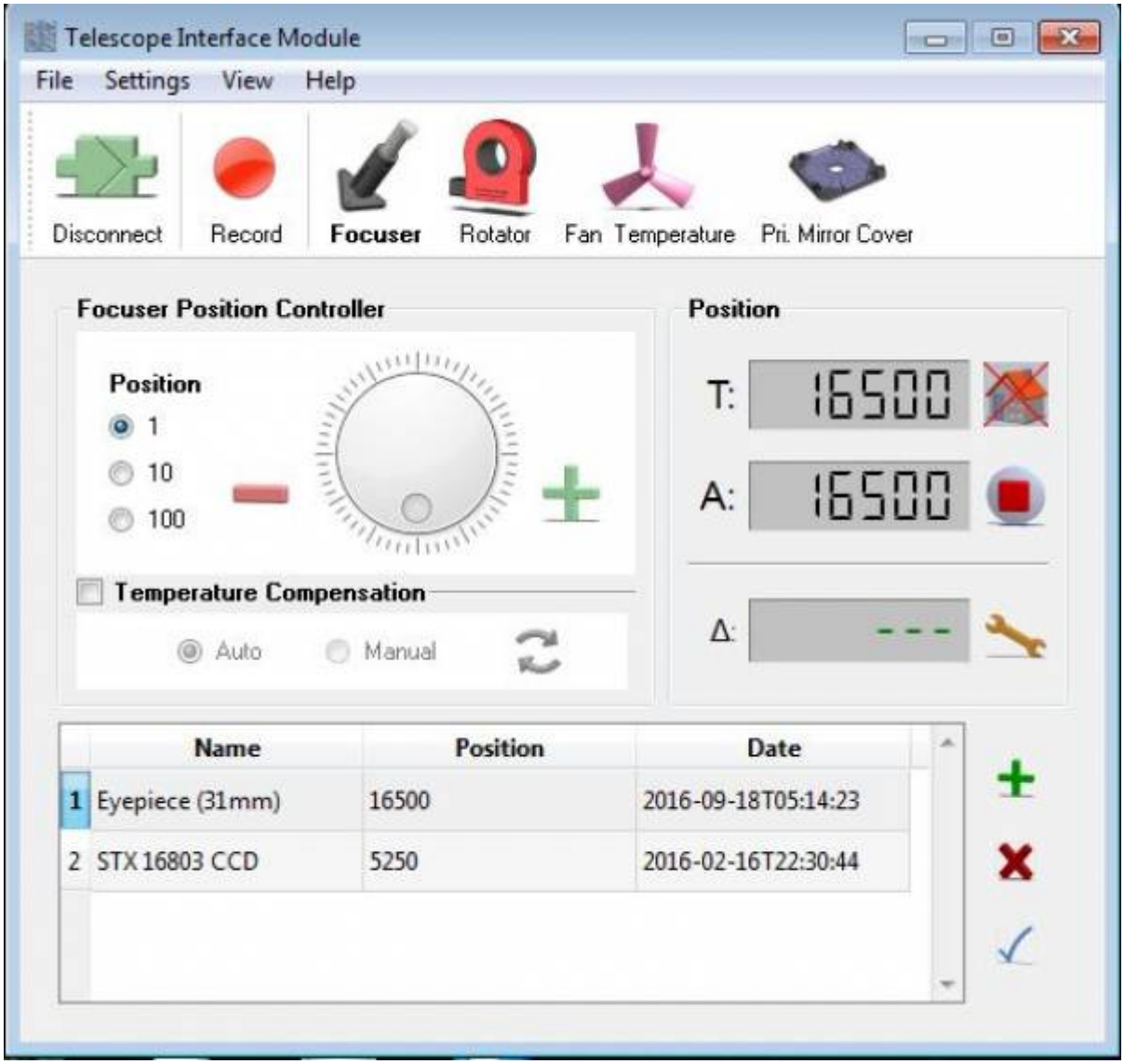
   Seeing *Slave*d and reporting the correct Azimuth is a success.
3. Open the dome by pressing the “Open” button.
4. After the shutter is open move the telescope to the Zenith position (in order to open the mirror covers). Once there the telescope is now tracking.
   1. Press the *Slew or Synch (Catalog)* button to command the telescope to move.
   2. Select to radio button for *Coordinates* and input LST values for the RA coordinates and 32 for Declination.

1. 

3. Press the *Go To* button to slew to Zenith.
5. Open the RCOS TIM software and *Connect*.

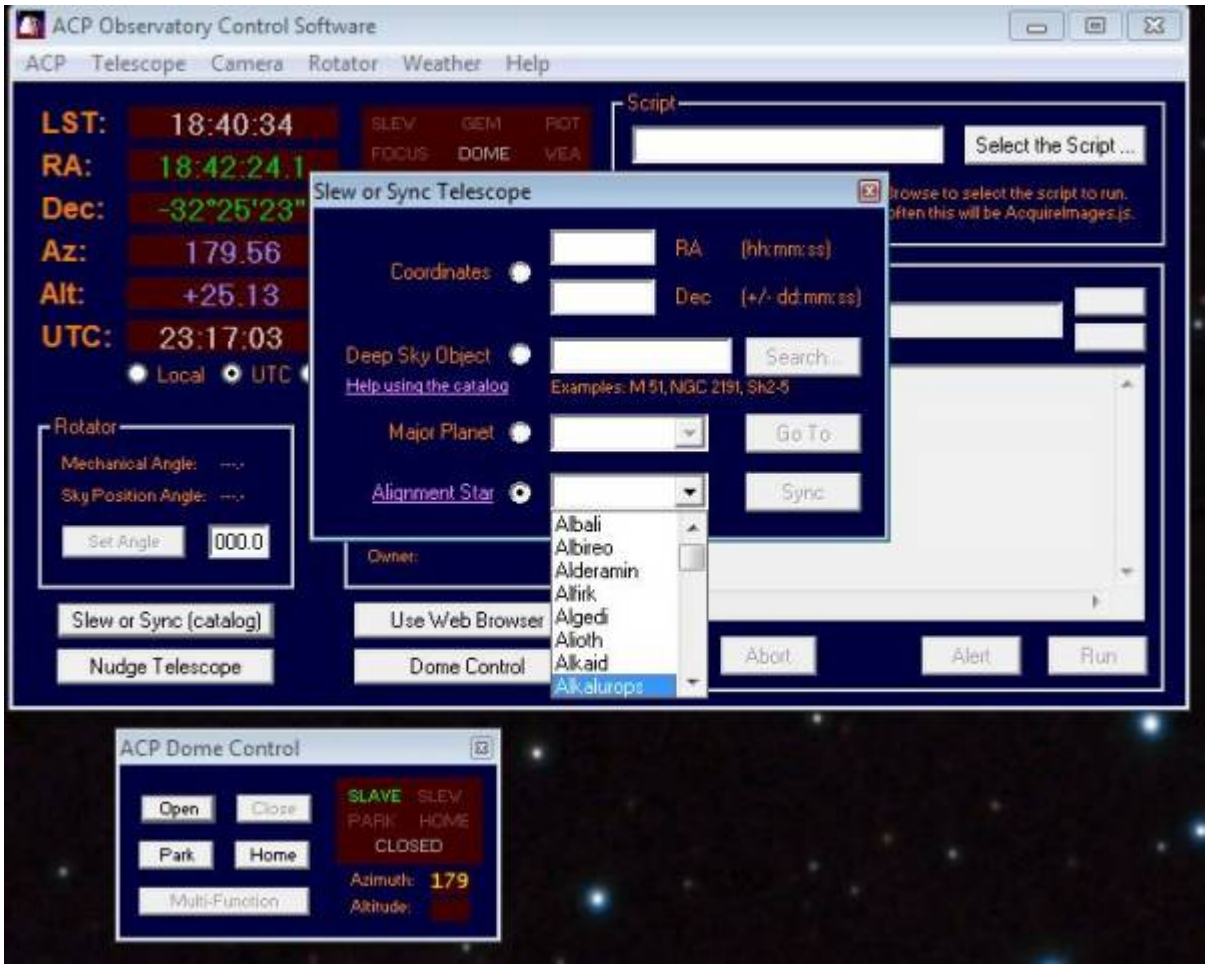
1. 

6. *OPEN* the Mirror Covers.
7. Press the *FOCUSER* icon to be certain the secondary mirror is at the Eyepiece focus position.



1. If not at eyepiece value, select this position and press the blue check mark.

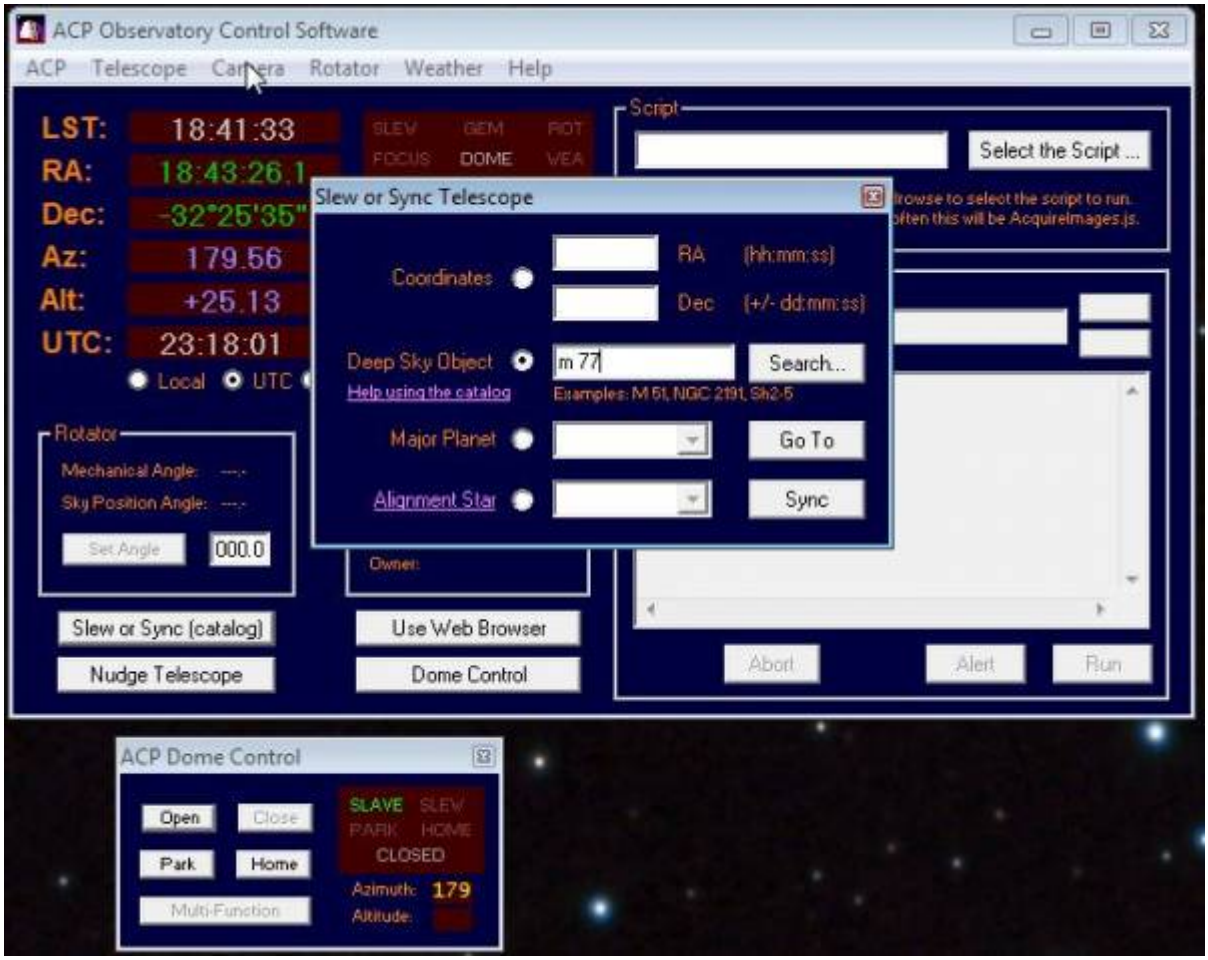
8. Using ACP *Slew or Synch*, command the the telescope to point at a first object. This is typically a bright star to verify pointing.

1. 

(See “Can not find bright star” wiki page for troubleshooting information)

The telescope is now ready to start observing. Below are more important things to know:

- In ACP *Slew or Synch → Deep Sky Object* you must put a space between the catalog and its number. For example, “M77” will not work but “M 77” is correct.



- When necessary use the telescope Hand Paddle to center objects.

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