

South Dome Setup

- 1) **Unlock and open the fence gate.** The key is inside the South dome, hanging from the gray dome power box on the Eastern wall.
- 2) **Turn on the power for both dome boxes,** the gray box on the Eastern wall and the one on the dome ceiling. The power switch is on the lower right-hand side.
- 3) **Open the shutter.** On the gray box on the dome ceiling press the 'open windscreen' button to open both shutter and windscreen.
- 4) **Remove mirror and finder-scope covers;** the mirror cover unscrews rather than slides.
- 5) **Plug in and turn on telescope.** Use the power outlet on the telescope pillar.
- 6) **The Celestron won't slew or track without pointing setup.** Use scroll keys to select 'EQ North Align' (not Two Star Align!) and press Enter.



Just press Enter for the time. Use scroll keys to select either '**One Star**' or '**Two Star**' alignment and press Enter. Use arrow keys to slew the telescope to a star you know, use scroll keys to find your star in the list, press Enter, and press Align. Two star: for best alignment use stars on opposite sides of the sky. Telescope must say '**Alignment successful**'.

To fix a bad alignment, turn the telescope off and on and repeat step 6.

To change the slew rate press the Rate button and 1 - 9 (slowest - fastest).

If you get stuck at any point, press Undo.

- 7) **To slew by hand use the arrow keys.** **To slew automatically** select your object with the scroll keys or with the catalog buttons: press 1 (with 'M' on the button) and a Messier number or 4 (with 'NGC' on the button) and an NGC number, then press Enter. If you get an "exceeds slew limits" warning but know the object is above the horizon, press Enter to slew.
- 8) **Focus the telescope** using the black knob on the telescope barrel base.
- 9) **Position the shutter** using the buttons on the dome power box on the Eastern wall.
- 10) **Change the eyepiece** by unscrewing the little knob on the eyepiece, sliding the old one out, sliding the new one in, and retightening the knob. **Put the old eyepiece in the North dome in one of the Orion plastic boxes to keep it safe.**
- 11) **You can update alignment** during the night by centering on a known object. Use the scroll keys to select 'Synch' and press Enter.

South Dome Shut Down

- 1) **Close the shutter.** On the dome power box on the dome ceiling hit the 'close all' button (it will take a while).
- 2) **Turn off the power for both dome boxes,** the gray box on the Eastern wall (on the left as you walk in) and the gray box on the dome ceiling. The black power switch is on the lower right-hand side. **Make sure the red LED in the center of each box is off.**

- 3) **Park the telescope** so that the barrel faces South with the barrel axis perpendicular to the U-mount (it ends up pointed up 45°). From the East door the telescope should look like this

The telescope should not look like this:



- 4) **Turn off and unplug the telescope.**
- 5) **Secure the paddle** in the brace on the telescope mount.
- 6) **Replace mirror and finder-scope covers,** remember that the mirror cover screws on rather than sliding.
- 7) **Make sure the keys to the fence lock** are hanging from the dome power box on the wall.
- 8) **Shut and lock both East and West dome doors.**