

The Rotating Sky – Student Guide

Please type your answers using a red font

I. Background Information

Work through the explanatory material on *The Observer*, *Two Systems – Celestial, Horizon*, *the Paths of Stars*, and *Bands in the Sky*. All of the concepts that are covered in these pages are used in the Rotating Sky Explorer and will be explored more fully there.

II. Introduction to the Rotating Sky Simulator

- Open the **Rotating Sky Explorer**

The Rotating Sky Explorer consists of a flat map of the Earth, Celestial Sphere, and a Horizon Diagram that are linked together. The explanations below will help you fully explore the capabilities of the simulator.

- You may click and drag either the celestial sphere or the horizon diagram to change your perspective.
- A flat map of the earth is found in the lower left which allows one to control the location of the observer on the Earth. You may either drag the map cursor to specify a location, type in values for the latitude and longitude directly, or use the arrow keys to make adjustments in 5° increments. You should practice dragging the observer to a few locations (North Pole, intersection of the Prime Meridian and the Tropic of Capricorn, etc.)
- Note how the Earth Map, Celestial Sphere, and Horizon Diagram are linked together. Grab the map cursor and slowly drag it back and forth vertically changing the observer's latitude. Note how the observer's location is reflected on the Earth at the center of the Celestial Sphere (this may occur on the back side of the earth out of view).
- Continue changing the observer's latitude and note how this is reflected on the horizon diagram. When the observer is in the northern hemisphere the NCP is seen above the north point on the horizon at an altitude equal to the observer's latitude. When the observer is in the southern hemisphere the SCP is seen above the south point at an altitude equal to the observer's latitude.
- The Celestial Sphere and Horizon Diagram are also linked in that any stars are added to the simulation are shown on both. There are many features related to stars.
 - A star will be randomly created by clicking the **add star randomly** button.
 - A star may be created at a specific location on either sphere by shift-clicking at that location. (Hold down the shift key on the keyboard while clicking at that spot.)
 - You may move a star to any location by clicking on it and dragging it. Note that it moves on both spheres as you do this.

Rotating Sky Student Guide Answer Key

J Rink



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