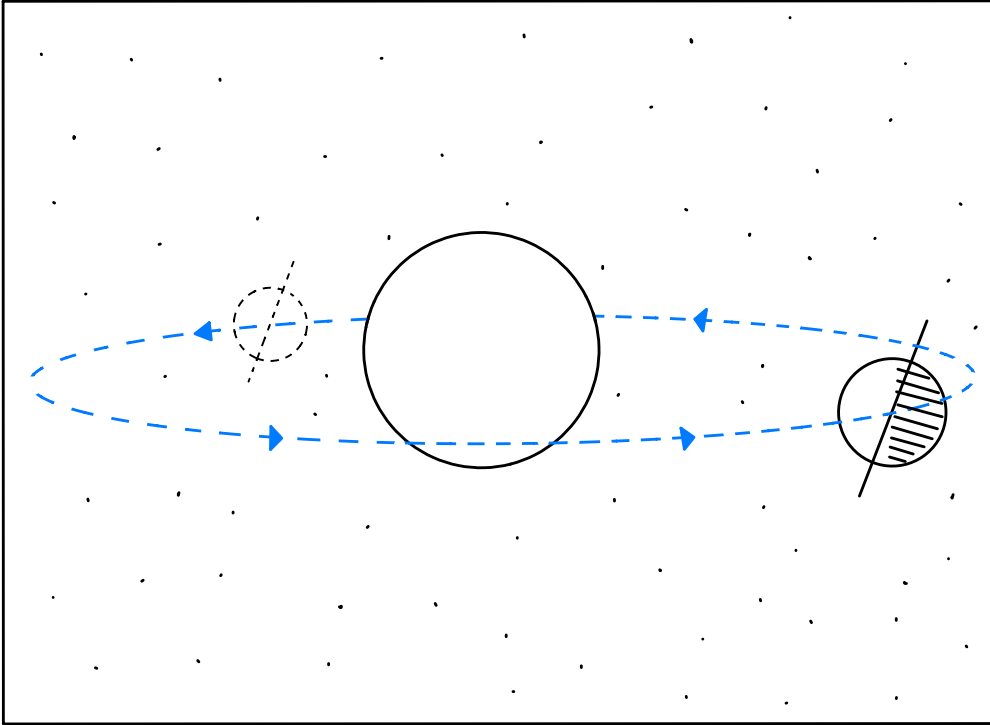


## I. Overview of Earth's Orbit around the Sun

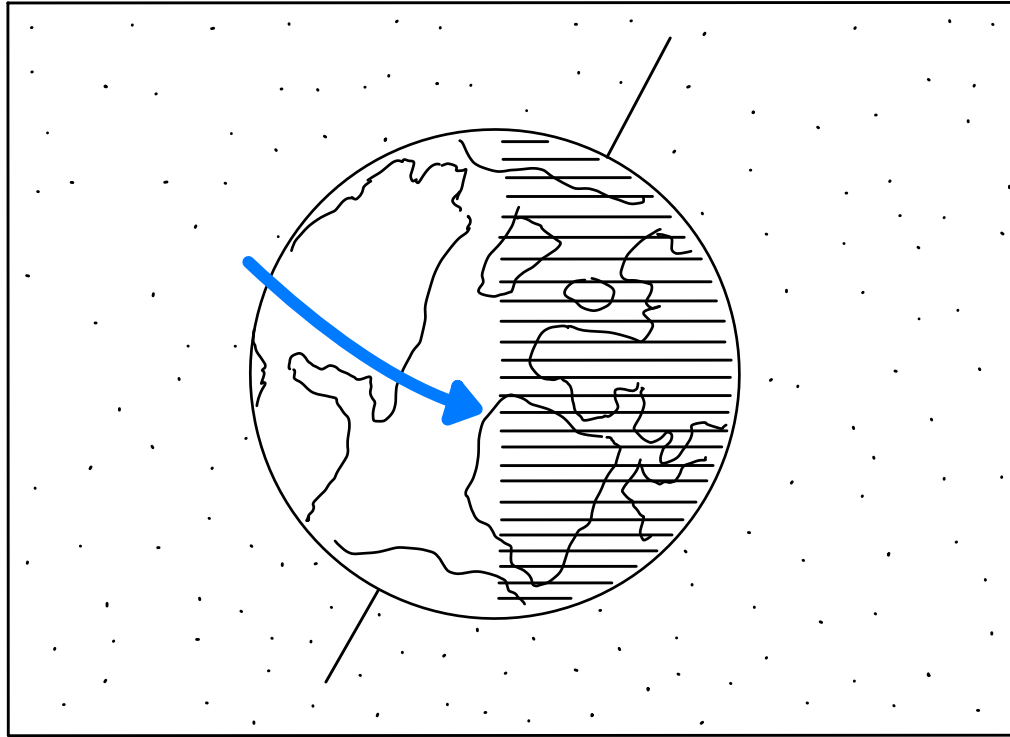


Special Note: For dramatization purposes and emphasis on Earth's orbit, other planets and Earth's Moon have been excluded. Earth is also depicted as being much closer to the Sun with a condensed period of about 30 seconds.

Interactive Component: Viewer has the ability to rotate and resize a three-dimensional model of the scene. This allows the model to be adjusted by individuals in a manner that is not possible for images or fixed perspective video simulations.

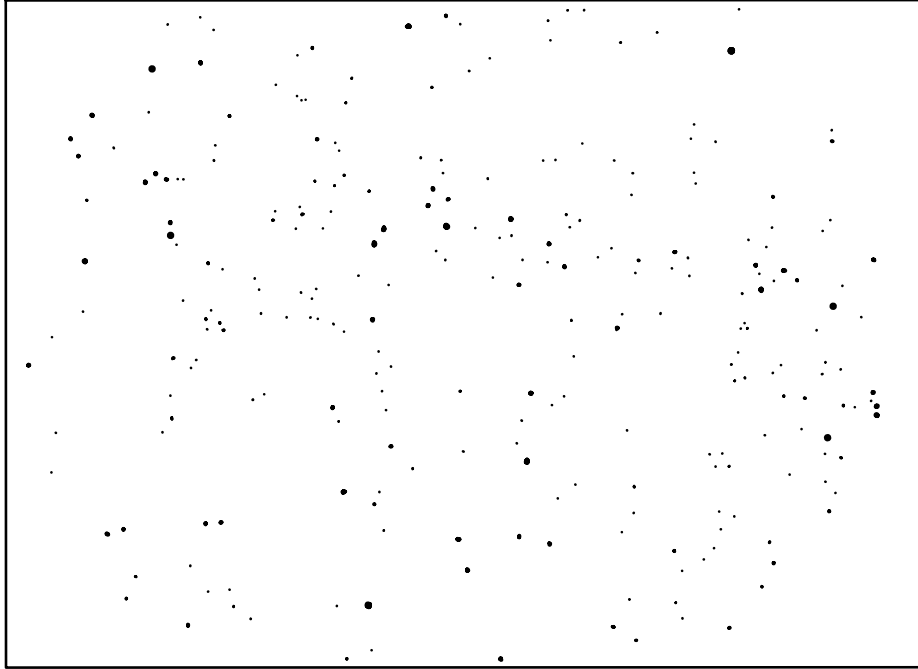
Purpose: Provide a general and simplified visual of the Sun's rays on Earth throughout the planet's orbital period and demonstrate how this accounts for seasonal changes.

## II. Earth's Orbit and Rotation



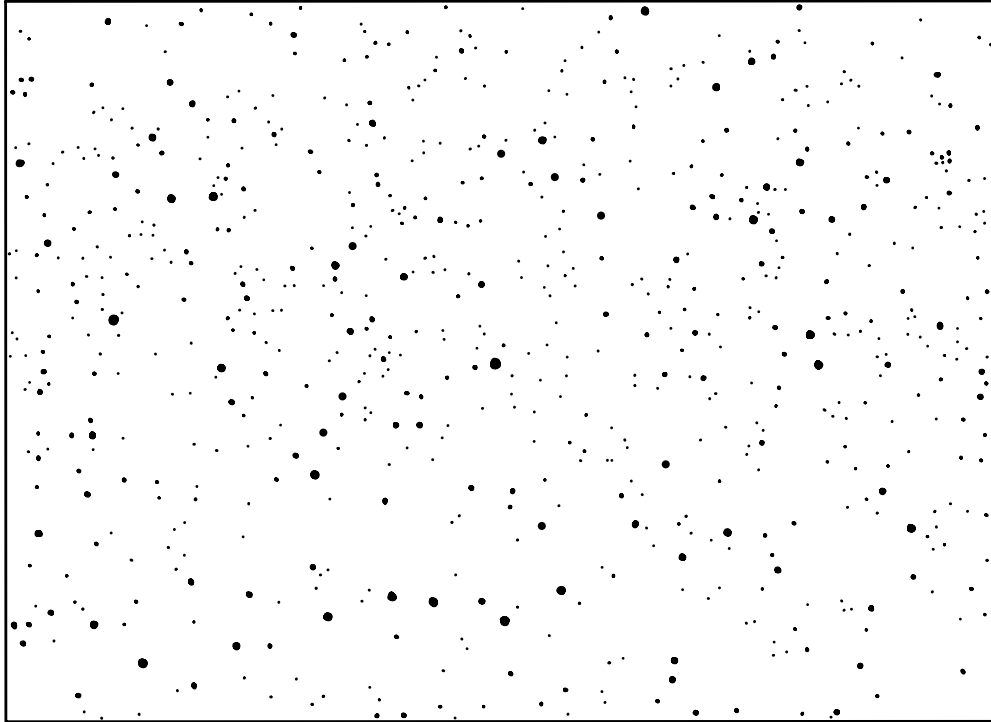
Purpose: Depict Earth's orbit in relation to background stars, illustrating how the position of Earth relative to the Sun changes which stars are visible at night.

### III. Observatory View of the Southern Hemisphere



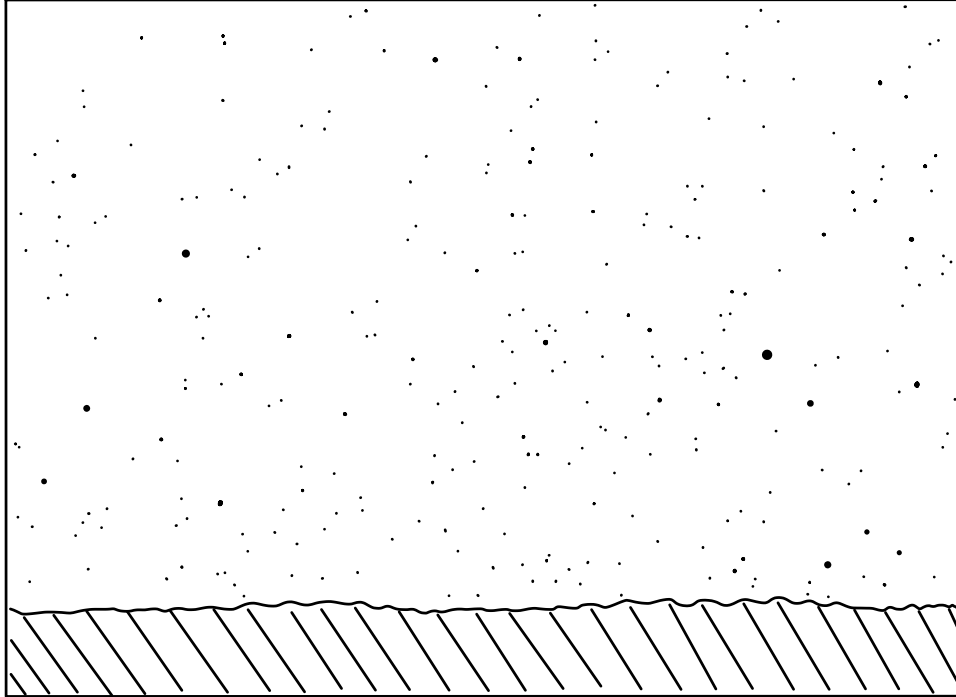
Purpose: Demonstrate the seasonal changes of the constellations as viewed from the South Pole, and illustrate how the constellations visible at this location remain approximately the same throughout a calendar year.

#### IV. Observatory View of the Northern Hemisphere



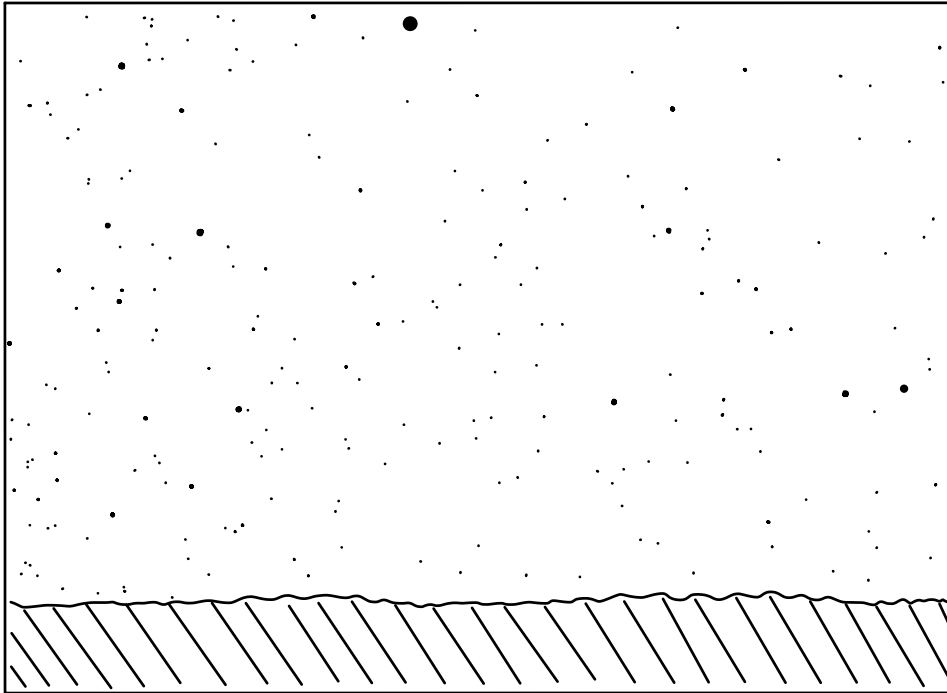
Purpose: Demonstrate the seasonal changes of the constellations as viewed from the North Pole, and illustrate how the constellations visible at this location remain approximately the same throughout a calendar year.

## V. Observatory View from the Equator during Summer



Purpose: Depict the constellations visible from Earth's equator during Summer due to Earth being on one side of the Sun.

## VI. Observatory View from the Equator during Winter



Purpose: Depict the constellations visible from Earth's equator during Winter due to Earth being on one side of the Sun.