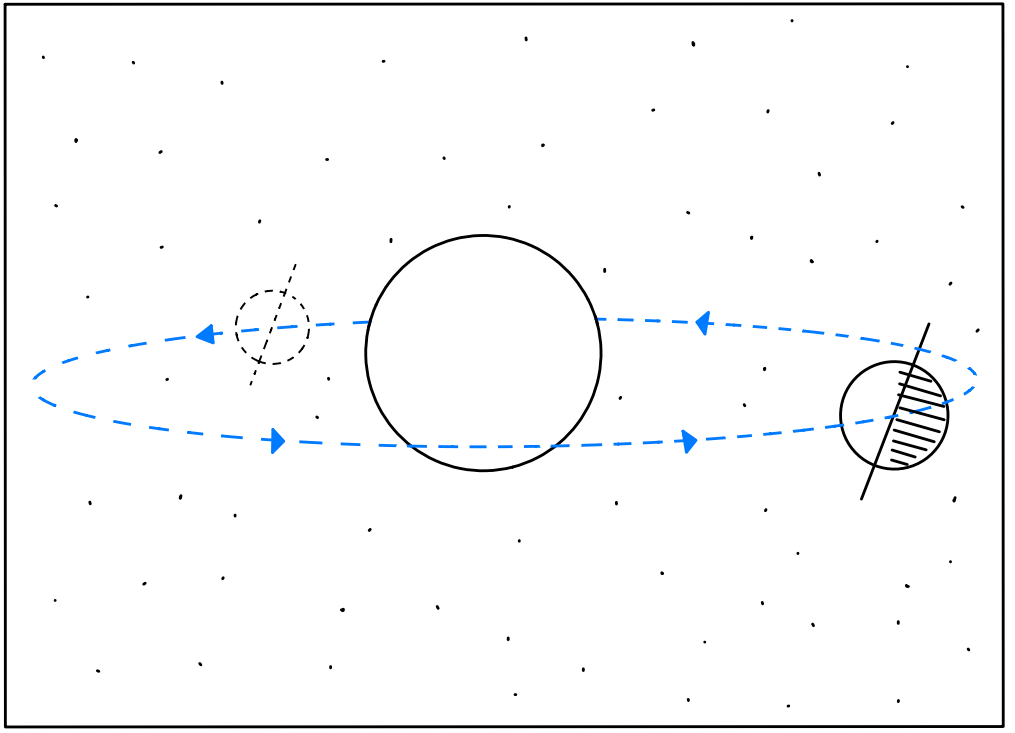
I. Overview of Earth's Orbit around the Sun

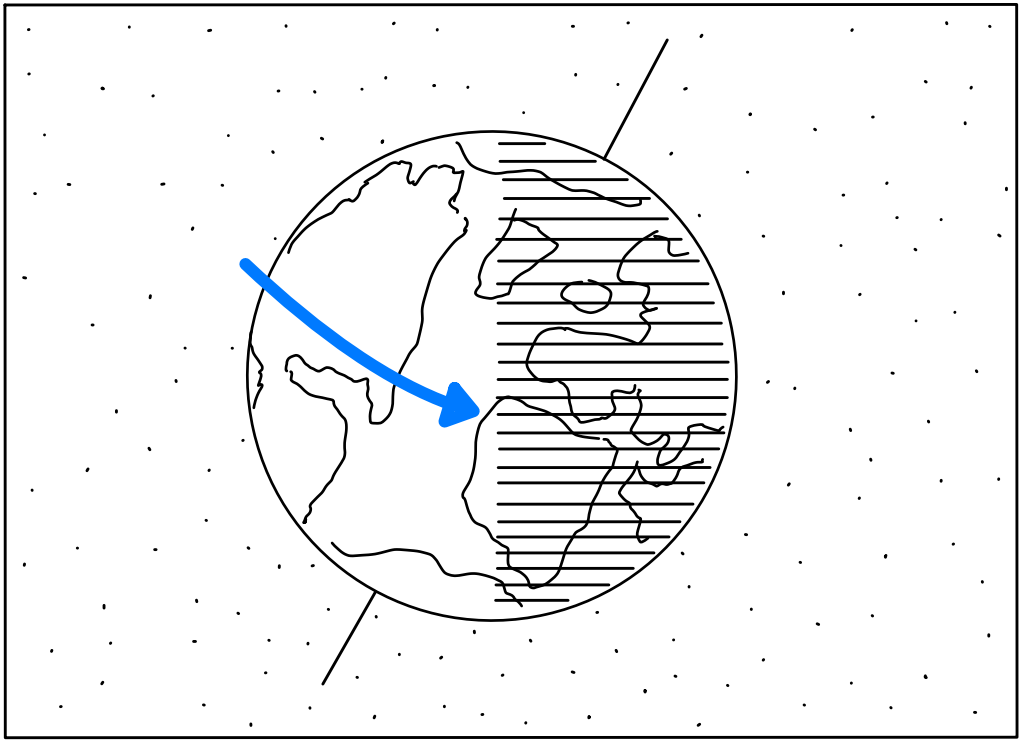


Purpose: Provide a general and simplified visual of the Sun's rays on Earth throughout the planet's orbital period and demonstrate how this accounts for seasonal changes.

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.

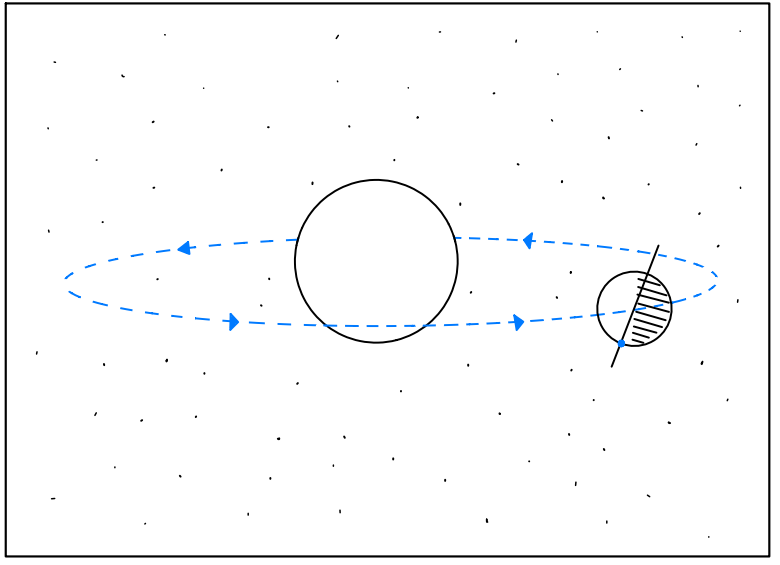
Interactive Component: Viewer has the ability to rotate and resize a three-dimensional model of the scene. This allows the model to be adjusted by individuals in a manner that is not possible for images or fixed perspective video simulations.

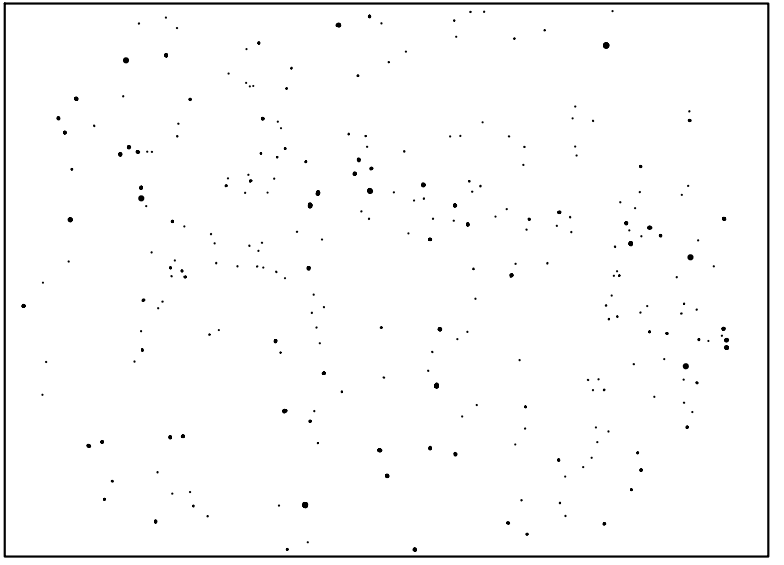
II. Earth's Orbit and Rotation



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

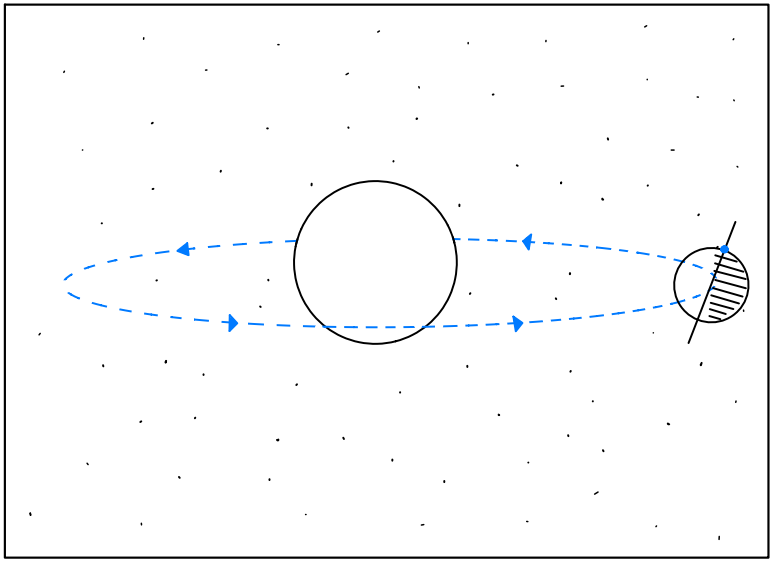


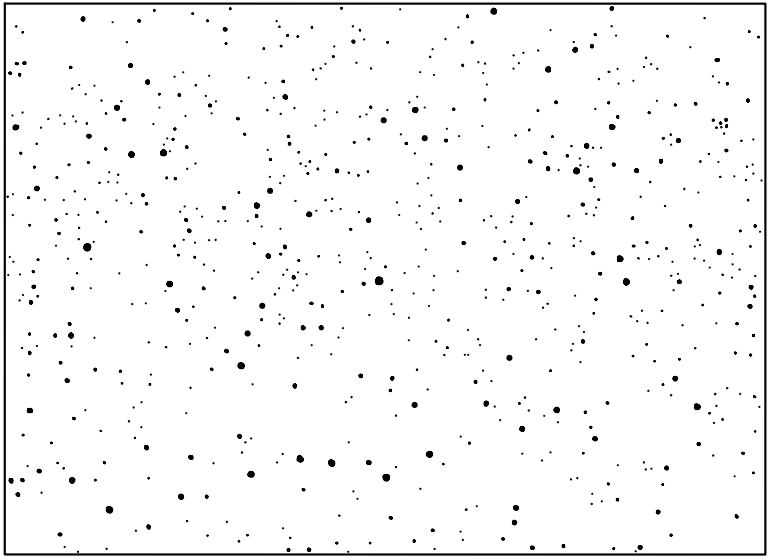


Purpose: Demonstrate the seasonal changes of the constellations as viewed from the South Pole, and illustrate how the constellations visible at this location remain approximately the same throughout a calendar year.

Special Note: A fixed time of midnight at the observation location is set for the sake of simplicity and more easily identifying seasonal changes.

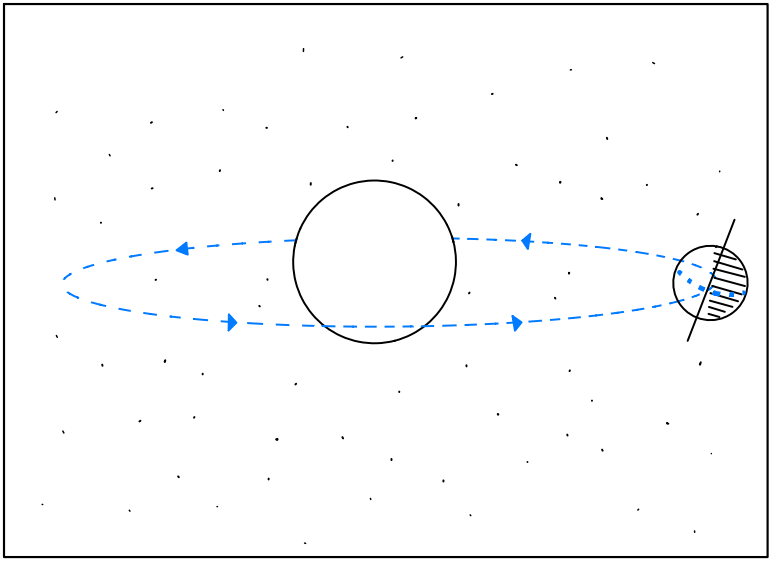
IV. Observatory View of the Northern Hemisphere

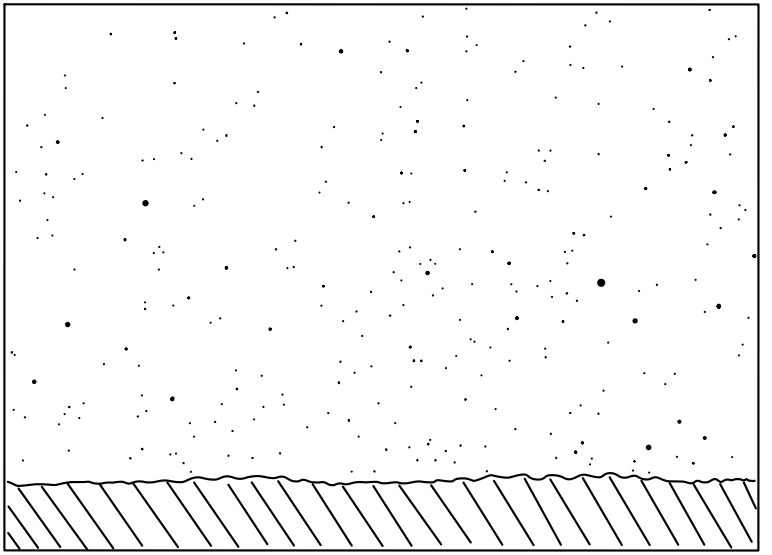




Purpose: Demonstrate the seasonal changes of the constellations as viewed from the North Pole, and illustrate how the constellations visible at this location remain approximately the same throughout a calendar year.

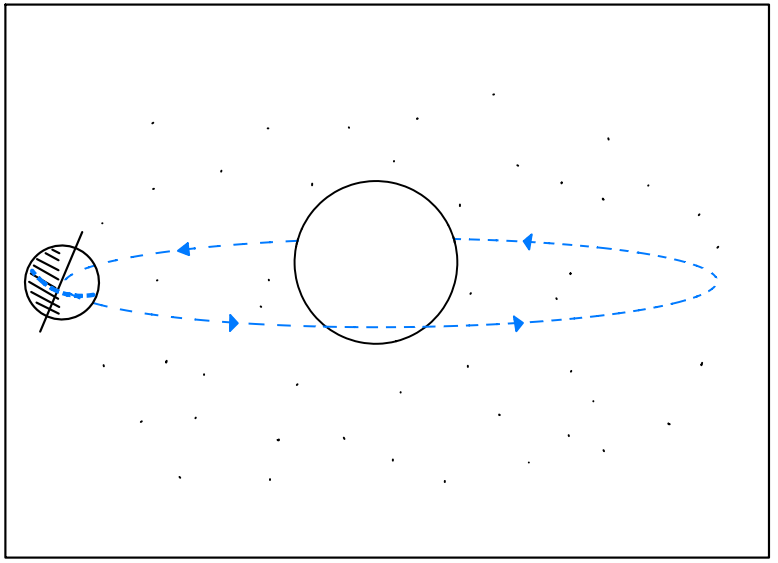
V. Observatory View from the Equator during Summer

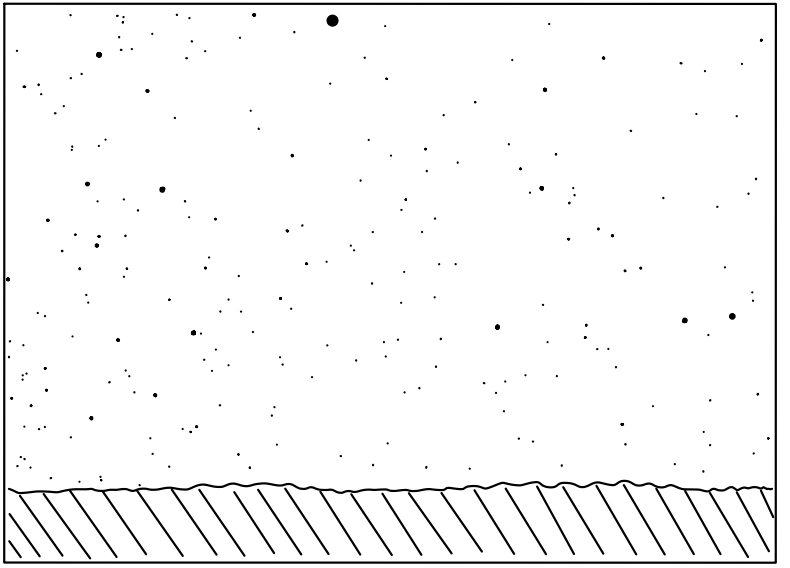




Purpose: Depict the constellations visible from Earth's equator during Summer due to Earth being on one side of the Sun.

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.