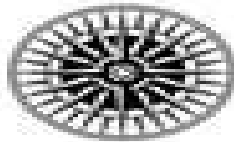


Encounter Geosystems

Name: _____

Date: _____

Chapter 2: Solar Energy, Seasons, and the Atmosphere

Solar energy at the top of the atmosphere sets into motion the winds, weather systems, and ocean currents that greatly influence our lives. This solar energy input to the atmosphere plus Earth's tilt, orientation, revolution, and rotation produce daily, seasonal, and annual patterns of changing daylength and Sun angles.

The periodic rhythms of warmth and cold, dawn and daylight, twilight and night have fascinated humans for centuries. In fact, many ancient societies demonstrated a greater awareness of seasonal change do than modern peoples, and formally commemorated natural energy rhythms

with festivals and monuments. Presently, warm-season length is on the increase worldwide in response to global temperature change.

Insolation cascades through the atmosphere toward Earth's surface, powering the physical systems in the atmosphere, in the oceans, and on land—varying through the seasonal changes just discussed. Along the way the atmosphere works as an efficient filter, removing harmful radiation from sunlight. Let's now examine the seasonal changes and the filtering effect of our unique atmosphere.

This exercise will introduce you to shifting patterns of solar energy, seasons, and the atmosphere. After completing these exercises, you should be able to:

- *Define* solar altitude, solar declination, and daylength and *describe* the annual variability of each—Earth's seasonality.
- *Describe* conditions within the stratosphere, specifically, *review* the function and status of the ozoneosphere (ozone layer).

Download the solar.kmz file from www.mygeoscienceplace.com and open it in Google Earth™.

Exploration 1: Net Radiation

After reviewing the section "Global Net Radiation" in your text, double click on the Daily Net Radiation placemark and make sure that its box is checked. This animation shows changing patterns of monthly clear-sky average net radiant flux from July 2002 through June 2004 as measured by the CERES instrument. The regions that are red to yellow are the regions of maximum heating, and the blue regions are regions of maximum cooling.

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