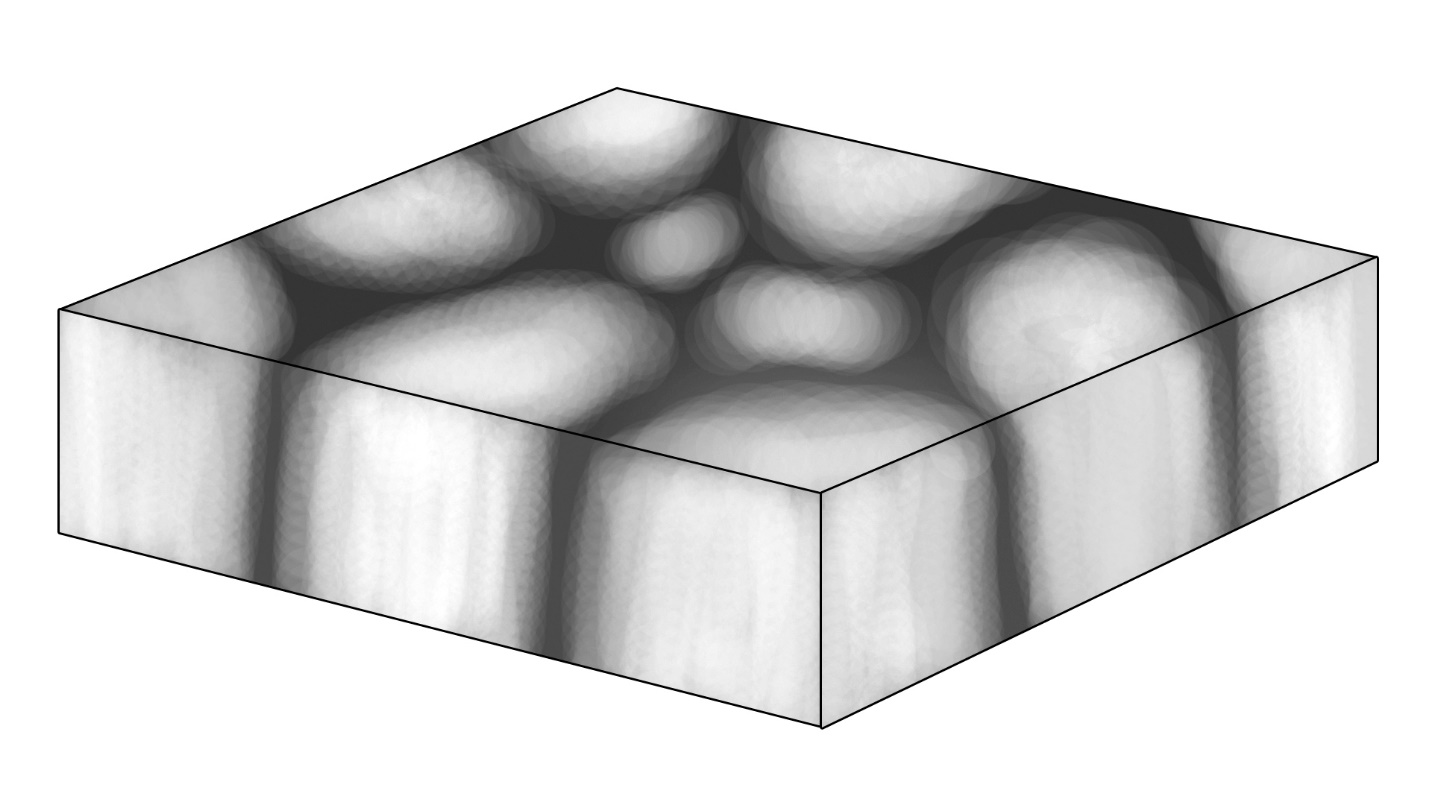
**Thermal Transport: Convection** – Worksheet to follow the viewing of the demonstration movie at

<http://astro.unl.edu/video/demonstrationvideos>

1. The diagram below represents a slab of the material that makes up the visible surface of the sun.
2. Circle the quantity that best describes the value of the variable at the position labeled A.

**Temperature:** hotter average colder

**Motion:** rising still sinking

**Density:** high average low

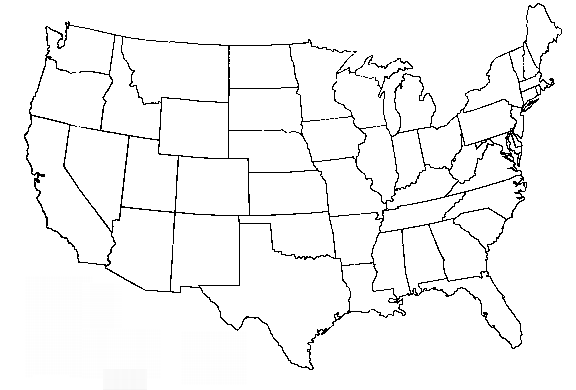
**A**

**B**

1. Circle the quantity that best describes the value of the variable at the position labeled B.

**Temperature:** hotter average colder

**Motion:** rising still sinking

**Density:** high average low

2.) Convection cells on the sun are about 1000 km in diameter. Draw the convective cell at position A on top of the map of the United States as a circle using your best estimation of the proper scale. (Hint: the distance from New York City to Los Angeles is ~4,000 km)