Where are all the Lights?

Learning Objective: Identify the factors that influence the distribution of human populations at different scales.

Essential Knowledge:

- Physical factors (e.g., climate, landforms, water bodies) and human factors (e.g., culture, economics, history, politics) influence the distribution of population.
- Factors that illustrate patterns of population distribution vary according to the scale of analysis.

Instructions: Look at each map below and mark your observations in the right column. Use the questions and the acronym ESPeN to guide your responses. You can use the link in Canvas as well.

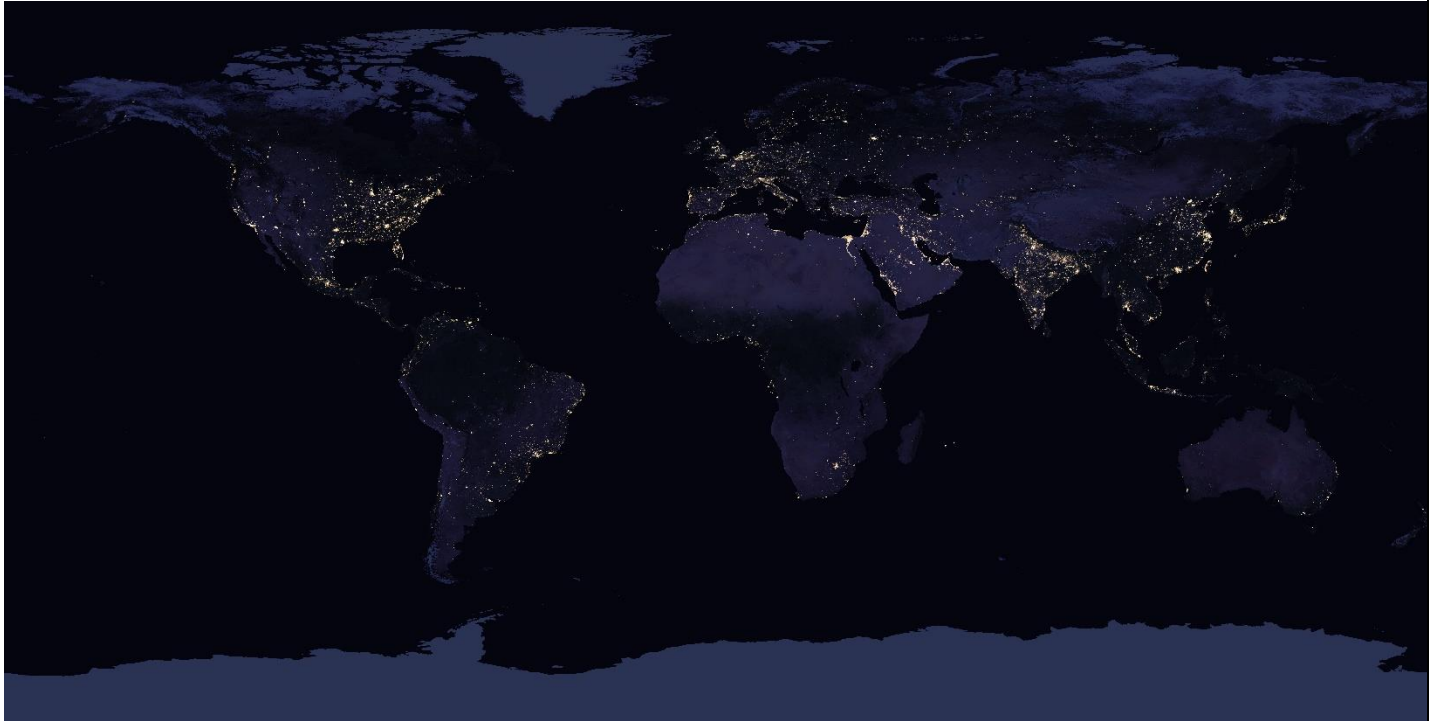|	
Composite image of continental U.S. at night, 2016.	Where do people live in the United States? Where don't people live in the United States? Using a <u>physical map</u> of the United States, identify two topographic features that support each of your answers above. Using a <u>political map</u> of the North America, identify 5 places that have light clusters. Elaborate on why those particular places are the brightest.
Composite image of Mid-Atlantic and Northeastern U.S. at night, 2016.	This is a map of Northeastern United States. Use a political or physical map of this region to explain the reason(s) for the pattern you see here.

Above you can see the night lights on a **global scale**. The *reasons* people live where they live do not necessarily change as you shift from the local scale to the global scale. Identify and explain your observations of the following regions:

- South America

- Europe

- Africa

- India

- Southeast Asia

What similarities and differences can you identify? Remember to focus on ESPeN to guide your answers.

- Similarities:

- Differences:

Below you will analyze maps of Chicago in both 2012 and 2016.

Chicago 2012 and 2016

There is only one major difference between the two maps. Identify and explain the difference and analyze *why* the night lights would increase at this location.

Below you will analyze maps of India in both 2012 and 2016.

India 2012 and 2016

Analyze the two maps above and explain what may have contributed to such changes in India. You may have to do some research to find reasons for the population explosion in this region.