

The Effects of Temperature and Cities on Birds

Directions- Using info from the recent assignment (*How Does Climate Change Impact Birds?*) and the notes you just completed (from the *Info on Birds* slides), answer the questions below each map.


1. What does it mean if the following colors appear on this map?

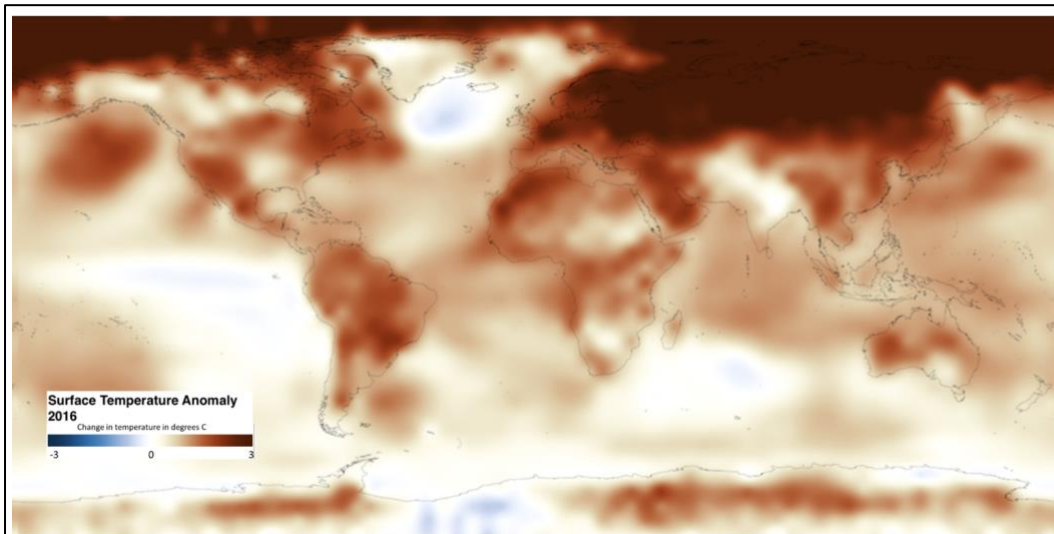
a.  = _____

b.  = _____

c.  = _____

d.  = _____

e.  = _____



Surface Temperature Anomaly map for 2016

The map shows areas where the average temperature for 2016 differed from the average for the 20th century. See the key for what each color represents.

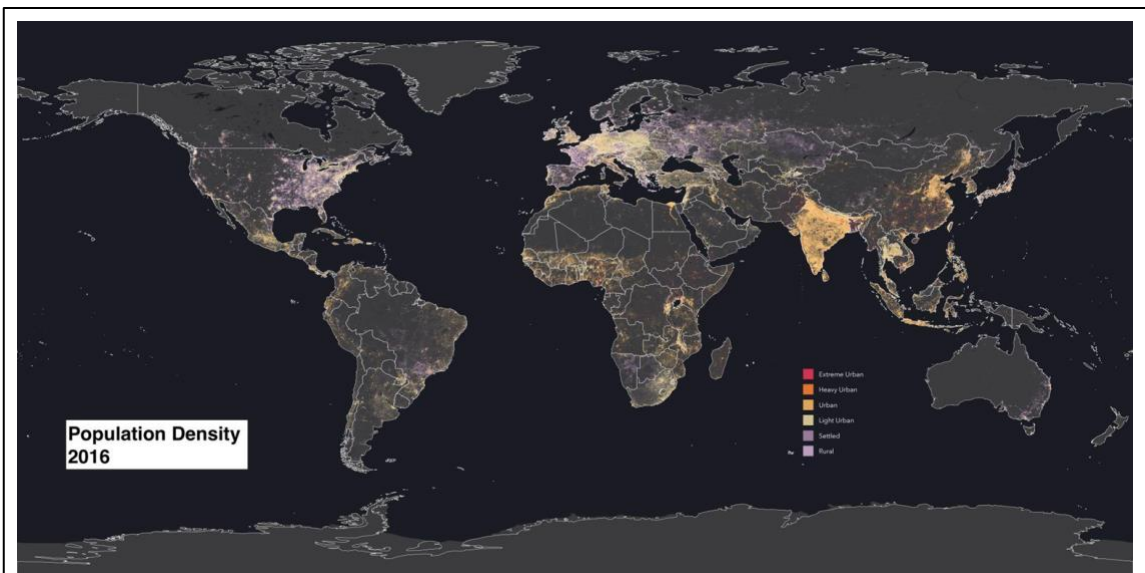
2. Knowing what you do

about the effects of climate change on where birds live, select a location in North America where you think birds might move **from**. Mark this original location with a circle (○). Find a location on the same continent where you think these birds might move **to** and mark it with a triangle (△). The map colors for these locations should be correct. Be sure to draw an arrow from the ○ to the △. **Explain here** why the birds are moving from one place to the other (using info found in your class materials/notes.)

3. Knowing what you do about the effects of climate change on bird bodies, select a location on the map where the temperature may cause a change.

a. Draw a star in the location. ☆

b. Use your notes to explain what changes might be seen on birds in that area.



Population Density map for 2016

The map shows areas where humans live that are urban, rural, etc. See the key for what each color represents.

4. Circle an area on the map where birds may suffer from habitat fragmentation. Draw an “F” next to the location. Explain here in your own words what the term, *habitat fragmentation*, means.

5. If you had to guess, where in the world do you think birds suffer the most from reduced availability of food. Circle the area and draw an “X” next to it. Explain why you think this area has the biggest reduction of food available for birds.