GLOBE Data Visualization & Interpretation Scavenger Hunt

Name:

Date:

The purpose of this scavenger hunt is to become familiar with the GLOBE Data Visualization tool to support Student Research.

Visualizing the Data

To access GLOBE Data:

1. Go to www.globe.gov
2. Sign in:
   a. Username: (Yours)
   b. Password: (Yours)
3. Click GLOBE Data → Visualize Data
4. Click on [icon] on the top left corner
5. Click: "atmosphere", "clouds" and then check cloud cover
6. Click the green "submit" button

Describe what you see:

Click on the Legend in the bottom right corner. What does a completely blue circle mean?

What school sites in the united states are reporting the clearest skies, today?

7. Click on [icon] again. Unclick cloud cover. This time, click 'Atmosphere' → 'Air Temperature' → 'Daily Average Air Temperature'

Use the legend. What is the daily average temperature of Pompano Beach High School in Florida?

What is the daily average temperature for McKnight Middle School, in Washington?

What is the daily average temperature of Pesquisador Independente in Brazil?

8. Change the date (top center) to January 29, 2014.

What was the average temperature of Benicia High School, in California?

Comparing Data Sets

1. On the same date (1/29/2014), click on La Mesa Elementary school, south of Salinas, CA.

How had the temperature at La Mesa changed over the past few weeks? When was the last date that the temperature was about the same as it was on the 29th?

2. Click on the [icon] icon. This will add the temperature plot for this site to your compare sites sheet.

3. Click on Facultad de Estudios Superiores Cuautitlan in Mexico City. Again, click on the [icon] icon.

4. Now go back to the main navigation bar on the left side of the screen. The [icon] option should be selected. Click the green "Plot All" button.

Which site had the highest daily temperature on January 12, 2014?

5. Delete all the settings by clicking "delete layer" in the [icon] window.
6. Click on "Pedosphere (Soil) Soil Characterization" → "Particle Size Distrobution" → "Texture (Calculated)"

What was the type of soil reported from City of Knowledge School in LA on July 30, 2016?

7. Click on "Pedosphere (Soil) Soil Characterization" → "Soil Fertility" → "Nitrate"

What was the Nitrate level reported at MetWest on January 28th, 2018?

Students doing their own research

9. Click through the options for types of data under the 🗂 tab.

What are two types of data that are interesting to you?

What is a question you have about these two types of data, at school sites around the world?

10. Use the GLOBE website and the 📈 tool to answer that question.

What did you find?

11. If you finish, research a second question with two different types of data.

What were your two data sets?

What is your question?

What did you find?