

Scientist Name:

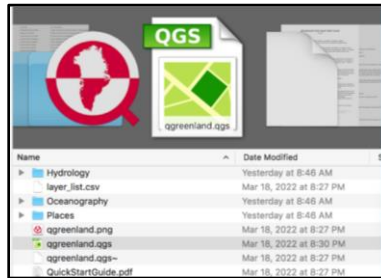
Date:

Introduction to Point Data in QGIS - Student Guide

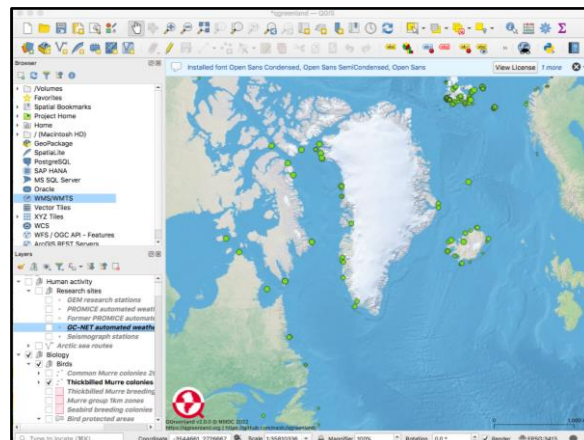
Instructions: You will use this notebook to guide your explorations of QGIS and take notes on the processes you follow. After each part, there are discussion questions for you to answer with your group. Note that *italicized words* refer to a specific file, data layer, or layer group name. **Bold** terms refer to a button, menu, or function within QGIS.

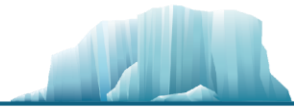
Exercise 1: Interpreting QGreenland Data

1. Navigate to the QGreenland folder on your computer. Open QGIS by double-clicking *qgreenland.qgz*



2. Explore the layers panel on the left-hand side of your screen. Try expanding the category groups (click on the arrows ►) and toggling layers on/off by clicking the box (☐/ ☒) next to the layer name.
3. Click to expand the *Biology* group and then click to expand the *Birds* group.
4. Click the check box to turn the **Thickbilled Murre Colonies 2010** layer on. Examine the map view to see how this turns on the bird layer, as shown in the image below.

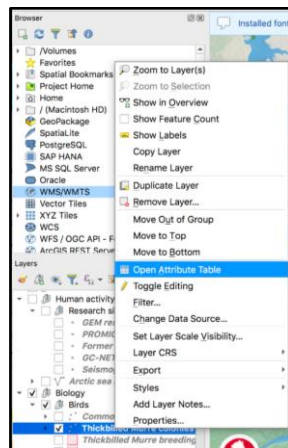




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5. Right-click on the **Thickbilled Murre Colonies 2010** layer name to activate that layer and open the **Layer menu**. From the **Layer menu**, select **Properties...** This will open a new window with information about that data layer. Select the **Metadata** tab on the lefthand side of the window to read about what this data is and where it came from.
6. Right-click on the **Thickbilled Murre Colonies 2010** layer name to activate that layer and open the **Layer menu**. From the **Layer menu**, select **Open Attribute Table**. In the attribute table, each row represents one data point, in this case a Murre breeding colony. Each column contains a different type of information about that colony, such as GPS coordinates, number of breeding pairs of birds, or species of bird.



Questions for Exercise 1:

Instructions: Discuss with your partner first, then respond here.

1. How many columns does the thick-billed murre colonies attribute table have?
(give a number)
2. How many rows does the thick-billed murre colonies attribute table have?
(give a number)
3. What do the column names tell you about the bird colonies?
4. What did you learn from the metadata?



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Exercise 2: Adding Data in QGIS

1. Watch the demo video about how to add a data point.
 - a. [QGIS - Adding data to points in the attributes table](#)
2. Following the instructions from the video, add one new data point to the thick-billed murre colonies 2010 layer. Be sure to fill in the *NUMBER*, *pairs*, and *Species* columns in the attribute table.
3. Highlight your additional colony on the map by selecting it (clicking on it) in the attribute table. Take a screen shot or create a map for export with your data point highlighted.

Questions for Exercise Two:*Instructions: Discuss with your partner first, then respond here.*

1. Were you each able to add a point to the attribute table?
2. What information did you fill in the attribute table for you bird colony? Copy that information below:
 - a. Number:
 - b. Pairs:
 - c. Species:



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Exit ticket

Turn in these questions before you leave today:

1. Describe the process by which you accessed and viewed an attribute table (1-3 sentences)
2. Describe how you add data points in the attribute table? (1-3 sentences)
3. Is there anything you would like explained further?
4. How did class go today? Be specific. Refer to what we did in the course today. Did you manage to follow the steps? Were you successful?