**Analysis Planning Worksheet**

**Evaluation Question**

Using machine learning I want to see if I can accurately predict how much sea ice will be lost.

Using analysis I want to see if one area is losing more ice than another.

**Independent Variable(s)**

These variable(s) are causing something or creating an effect. List what each is and whether it is categorical or continuous. It is ok to only have one.

**Variable**

Time

□ Categorical: # of levels \_\_\_\_\_ □ Continuous

**Variable**

Lat

□ Categorical : # of levels \_\_\_\_\_ □ Continuous

**Variable**

Lon

□ Categorical: # of levels \_\_\_\_\_ □ Continuous

Variable

□ Categorical: # of levels \_\_\_\_\_ □ Continuous

Dependent Variable(s)

These variable(s) are influenced by your independent variable and *depend* on them. List what each is and whether it is categorical or continuous. Unless they are related, you should have only one.

**Variable**

Sea Ice Freeboard (m)

□ Categorical: # of levels \_\_\_\_\_ □ Continuous

**Variable**

Sea Ice Thickness (m)

□ Categorical: # of levels \_\_\_\_\_ □ Continuous

**Variable**

□ Categorical: # of levels \_\_\_\_\_ □ Continuous

Variable

□ Categorical: # of levels \_\_\_\_\_ □ Continuous

Now that you know the type and number of independent and dependent variables, you are ready to use the analysis flow charts to choose your analysis!

**Analysis:**