Final Project Plan – Bibek Kandel

1. What hypothesis or question are you answering?

Ans: I am interested in understanding the impact of meteorological drivers on carbon and water fluxes.

2. What are you analytical plans?

A. What type of analysis and what is the y variable, and what are the x variables?

B. What is a datapoint (e.g. a row in your data)?

Ans: I will use a generalized additive model. My y-variable (response) is fluxes, my x-variable is meteorological drivers (predictor), and site is a random effect. A datapoint is a high-frequency molecular level timestamp data (10 Hz) aggregated into half-hourly intervals.

3. What figures do you have planned?

Ans: I plan to show a figure with seasonal/yearly effect on the x-axis and fluxes on the y-axis showing both the raw data and model predicted lines.