**Charlotte Roiger NEON Intern Work Plan**

**Summer 2017**

1) What is the overall objective of your project?

- Creation of the data analysis tutorial

- How would I teach other individuals about what I’ve done to the data?

2) What are the specific products or deliverables for your project?

[ ] Preliminary Findings Research Presentation 07/10/2017

[ ] Research Findings Poster and Presentation 08/03/2017

[ ] Electronic Tutorial 08/04/2017

3) What key tasks will you need to accomplish, and by when, to complete your project? *Please list at least 5 tasks and with more detail than simply the SCW deadlines.*

[ ] Complete Literature Study by 06/07/2017

* Paper Selection: Mora et al 2013, Jetz et al 2001, Rochlin et al 2013, Patz et al 2005
* Ecology format citation
* Return to preliminary code to add comments for clarity of actions taken

[ ] Draft of Methods Section by 06/14/2017

* Preliminary decisions about modeling techniques needed
* Outline of data tutorial and examination of tutorial templates required
* Explore other data tutorials to get a feel for the tone and pace of other publications

[ ] Draft of Introduction by 06/21/2017

* First Paragraph: Background relating importance of mosquito study for public health. Tie into how climate change impacts public health.
* Second Paragraph: Context on the phenomenon of latitudinal gradients and how we can study it with this data set

[ ] Preliminary Findings Research Presentation by 07/10/2017

* Focus on introduction of research topic and methods for analysis
* Can also provide some preliminary findings if available
* Present some preliminary modeling associations
* Flesh out preliminary steps and methods for tutorial
* Explore data portal to provide links and refers to all other related data tutorial content. E.g. linking to the ggpot tutorial etc.

[ ] Research paper Abstracts by 07/12/2017

* Create a visualization and caption for abstract inclusion
  + Talk to CD and KL about whether an abstract is even needed for this project
* Species richness by latitude visualization?
* Finalize modeling methods and objectives

[ ] Draft of Poster design and layout 07/21/2017

* Visualizations of results and preliminary discussion items
* Select visualizations to be included with tutorial (on-going process)

[ ] Complete drafts of results, discussions, and conclusions by 07/26/2017

* Discussion of limitations and flaws with modeling and methods with C.D and K.L before due date.

[ ] Full tutorial and other materials by 08/04/2017

4) Which tasks depend on someone or something else? Think about limitations to their availability (e.g., mentor’s travel, waiting for datasets). Be sure to factor these dependencies in to your time estimates.

- Need data tutorial documents and details from Megan