**Code review for Team 3 by Team 1**

**Team GitHub URL**

https://github.com/acook95/Hurricane\_Maps

**GitHub URL we reviewed**

<https://github.com/615-Team-3/Mapping.git>

**Does the code run?**

Yes

**How many maps?**

Four

**Comparison to Hurricane Exposure maps**

M1(8)

M2(8)

M3(10)

M4(10)

**New code?**

No new code, but we do have comments:

General comments:

* Code is clean and understandable (well commented), although:
  + “StatesInt” could use a more descriptive name (maybe “SubStates” or “StateGroup” or “StateGrp”).
* CountyFips was a data.frame and RainFloyd1 was a grouped\_df, but when we forced RainFloyd1 to be a data.frame, we got the same inexplicable merge( ) or left\_join( ) errors.
* We would suggest to play around with all these ideas and see if you are able to solve the issue of having white space in the county polygons.

Specific code comments:

* Line 53: when merging RainFloyd1 (2396 rows) with CountyFips (3085), you get RainFloyd2 (2368 rows). This is 28 rows less than the smaller of the two. When we did a left\_join( ) with your RainFloyd1 and CountyFips, we got a result 6 times larger than RainFloyd1 (which also doesn’t make sense). We’re not sure why left\_join( ) or merge( ) doesn’t give the same number of rows as the smaller of the two data.frames being joined.
* Lines 97 & 121: here’s a clearer comment: # Add on the title and the legend.
* Line 102: is this needed? It repeats line 100.
* Lines 86 & 88: keep spelling consistent for “color” or “colour.”
* Section 2.2: there was a warning message saying “Removed 2 rows containing missing values (geom\_path).” I’m not sure why this is happening, but it’s something that you could look into.

Map comments:

* Maps 1 & 2:
  + When you add in the rain, the ggplot\_polygon( ) is using different polygons. We noticed that the polygons used to create the counties are based on 65,555 rows (MainStates). The polygons to create the shaded rain area are based on 65,191 rows (RainFloyd). This is a difference of 364 rows which is a multiple of 28.
* Mapa 3 & 4:
  + Lovely maps. Our only comment there would be to play around with the color palettes to see if you would be able to replicate the same color scheme as the example plots.

In conclusion, you did a great job on this assignment. Your code is well organized and easy to follow.

Best,

Team 1