**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?**

4

**Comparison to Hurricane Exposure maps**

M1(8)

M2(8)

M3(10)

M4(10)

**New code?**

No – but we have these comments:

Code is clean and understandable (well commented). Though “StatesInt” could use a more descriptive name, maybe “SubStates” or “StateGroup” or “StateGrp” (yeah it’s a trivial comment, but at this point in the code there was SO LITTLE to change..)

Line 97, here’s a clearer comment: # Add on the title and the legend

Is Line 102 needed? It repeats line 100 – yes?

# Add on the title and the legend

Your Map1 & Map2 look great except:

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).  Which is a difference of 364 rows ... a multiple of 28.

In line 53 when you merge RainFloyd1 (2396 rows) with CountyFips (3085) you get RainFloyd2 (2368 rows). Which is (wait for it) 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 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.

We did notice that CountyFips was a data.frame andRainFloyd1 was a grouped\_df. But when we forced RainFloyd1 to be a data.frame we got the same inexplicable merge( ) or left\_join( ) errors.

Your Map3 & Map4 were perfect.