The Power of Storms
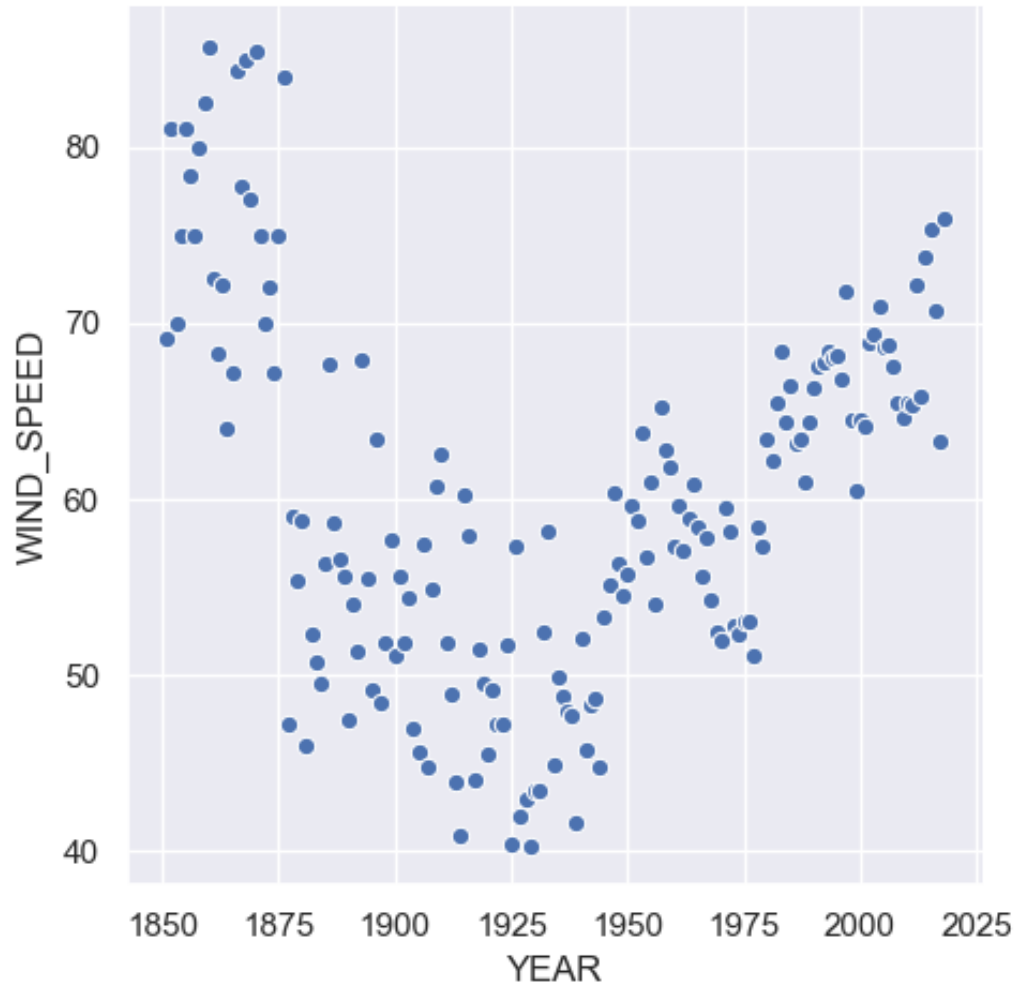
AUTHOR1

AUTHOR2

Background
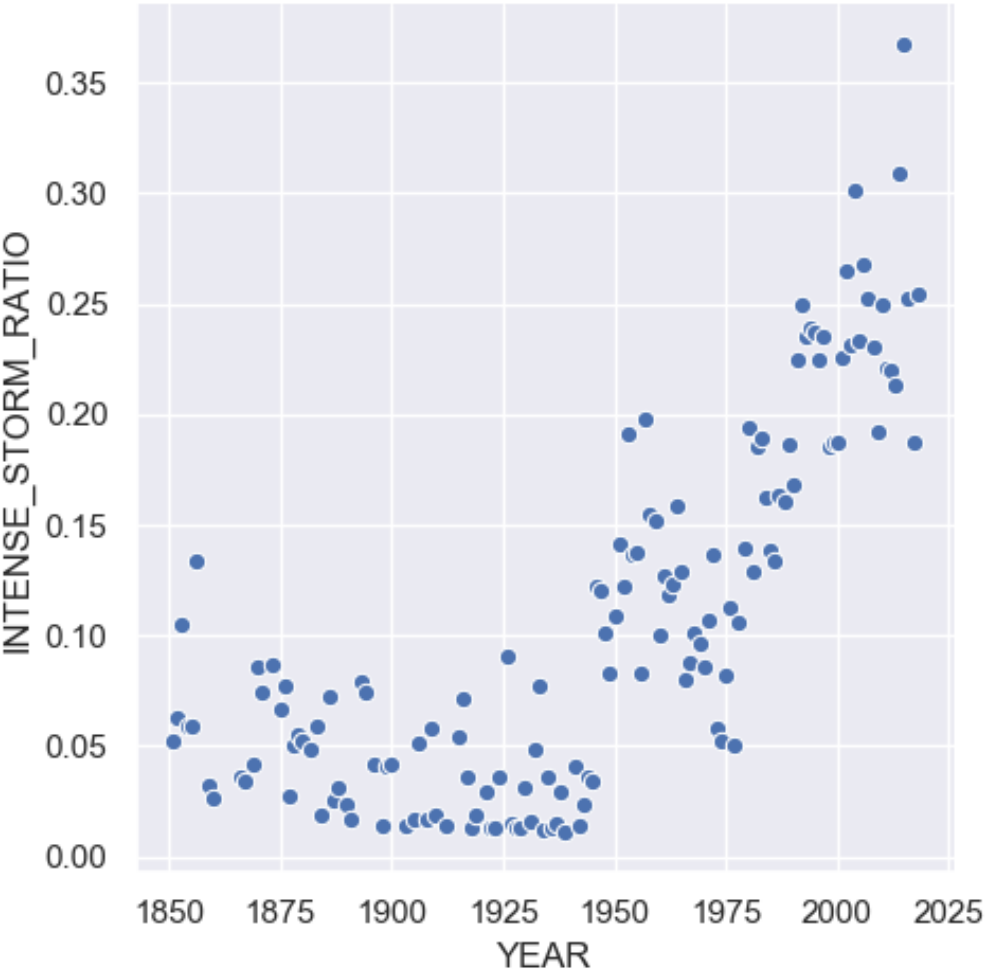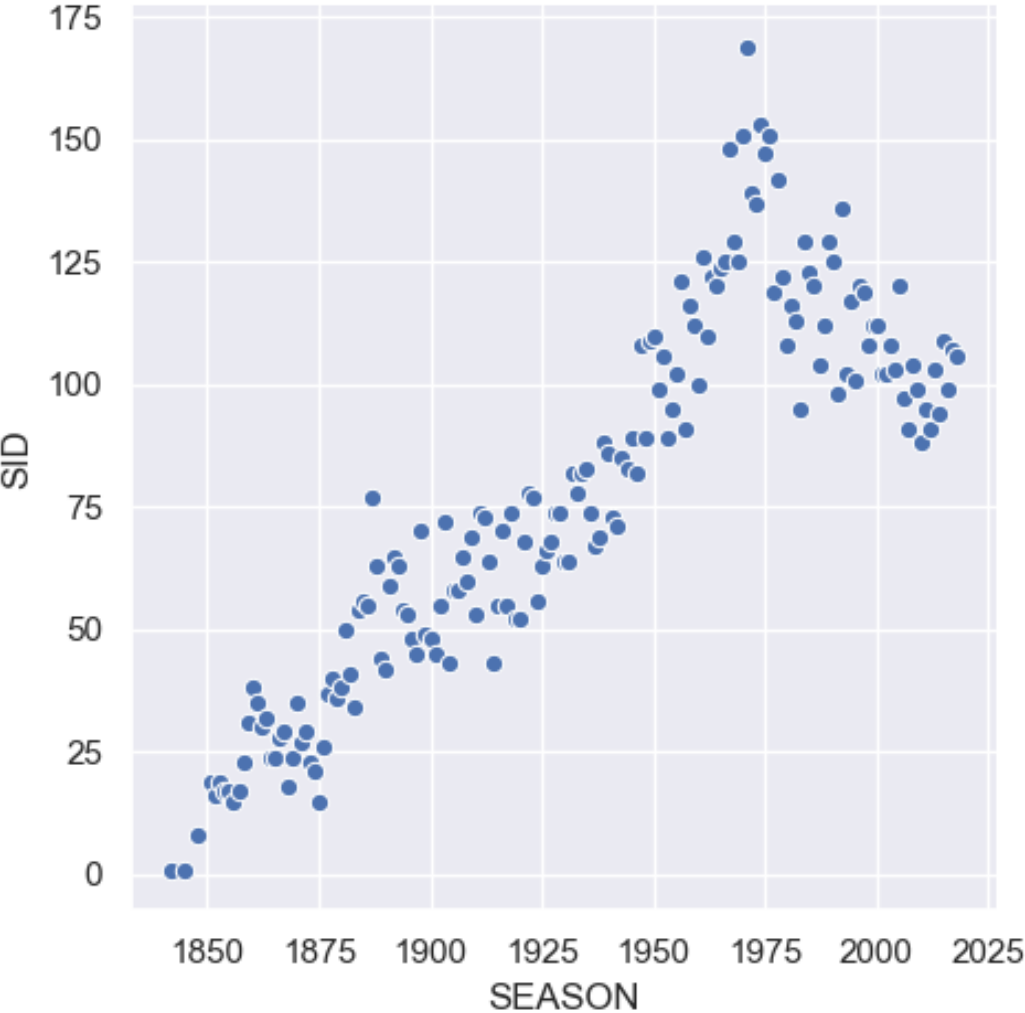
- We were interested in hurricanes and tropical storms
- Have they gotten more powerful over time?
- Have they become more frequent over time?
- Where are hurricanes the worst?
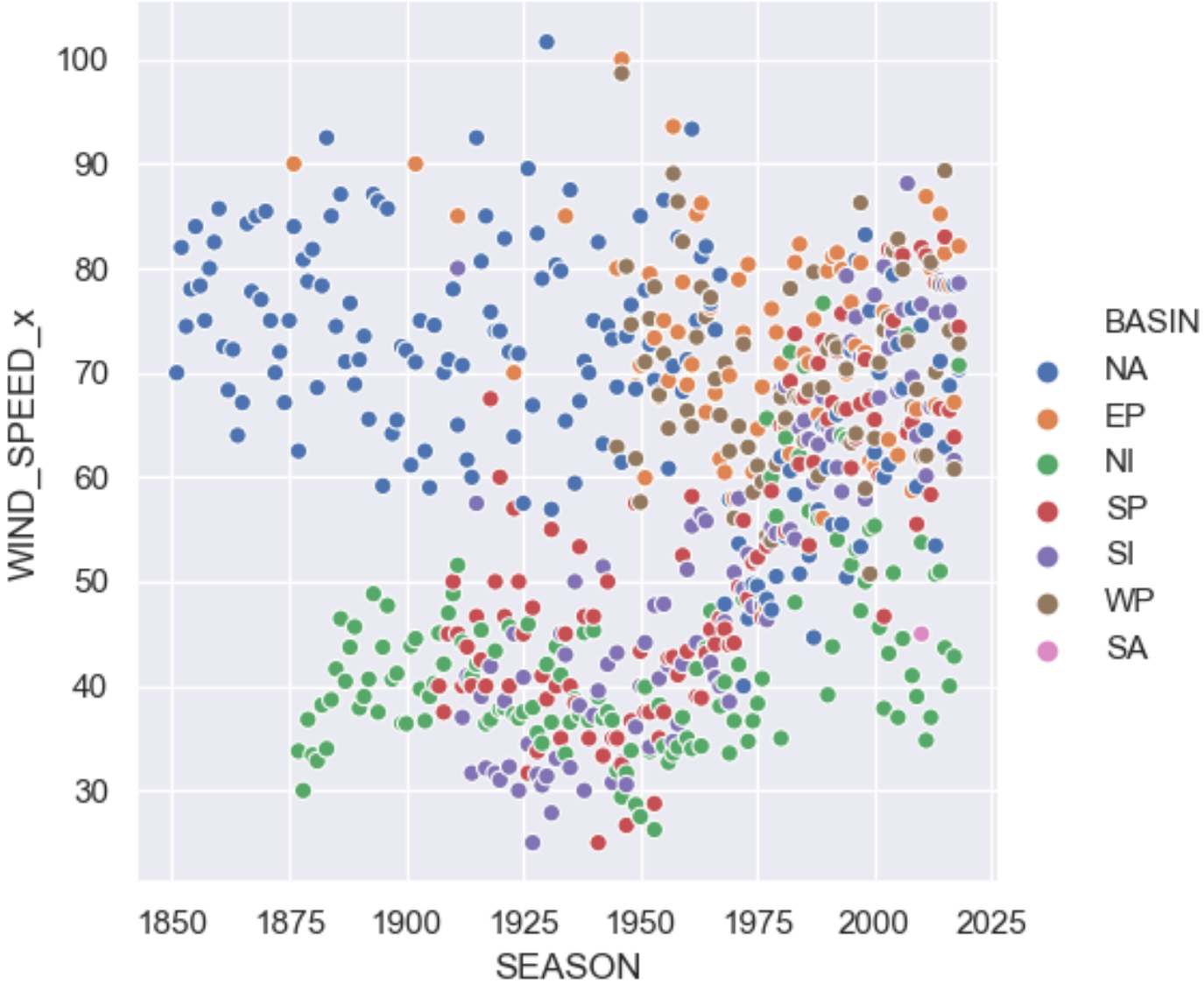- Can we predict how bad a storm will be?

Results – Question 1

- We see a dramatic trend shift around 1950
- Since 1950 a steady rise in storm intensity
- Why do we see this sudden change in the data?

Research – Question 2

Results – Question 3

Results – Question 4

- For storms since 2000 that had at least two days worth of data, we trained a neural network to try to predict the highest storm category that would be reached

- Our model had two hidden layers with ten neurons each

- With our test set we reached an accuracy of around 38%

- This is significantly better than random guesses, but still not a good real world estimate