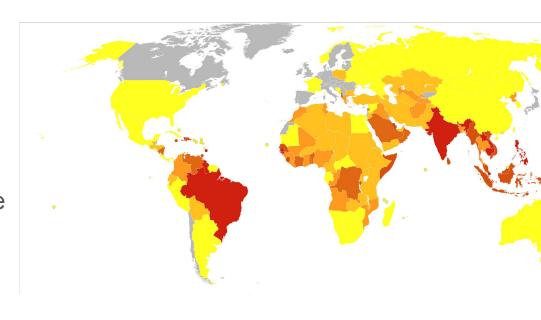


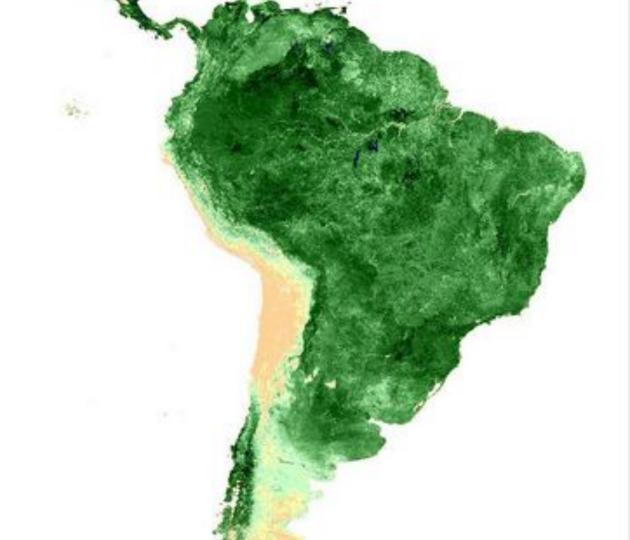
## Background

- There are an estimated 400 million cases of dengue fever every year around the world
- About half the world population is at risk mostly in developing countries
- Climate change is changing the rate and area of occurrences
- Knowing where to send resources is important



## **DATA**

- Have data on weather conditions and number of dengue fever cases
- NOAA climate model
- Random Forest model
  - Temporal train-test-split
- MAPE
  - Limited variables:26%
  - All variables: 17%
- Vegetation data is very important



## To Do

Gather more data for the rest of South America

Incorporate vegetation index to model

Prettier map

Want to be able to account for population increases

