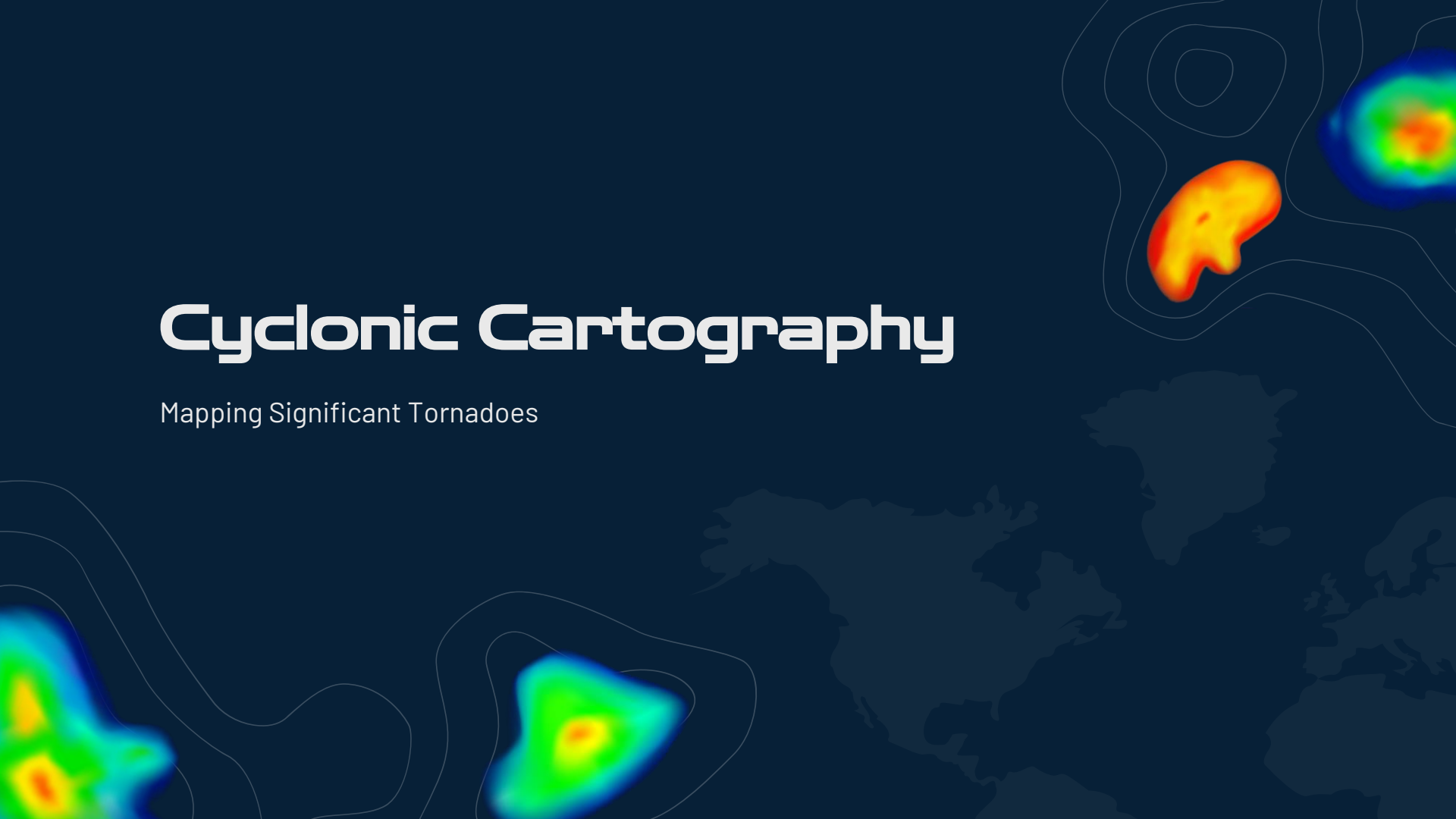
Cyclonic Cartography

Mapping Significant Tornadoes



Team

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May 13, 2013 — Moore, Oklahoma

Is Tornado Alley Shifting?

Living in Oklahoma, we are keenly aware of severe weather.

However, it seems like there are not as many tornadoes as there used to be in this area.

We wanted to see what the data said.

Methodology

Source

NOAA's National Weather Service (https://www.ncdc.noaa.gov/stormevents/) was our source.

Our Scope

Our considerations when choosing data:

- All tornadoes?
- As far back as there are records?
- Significant tornadoes?
- Limit to more recent years?
- Has tornado alley shifted?

Extract, Transform, and Load

Data Sourcing

Using the National Weather Service's data, we filtered all weather events to tornadoes. We determined to focus on the data starting January 1, 2000 and EF 3 and stronger tornadoes.

Data Cleaning

We cleaned the data by removing columns of information that we didn't need for our analysis and combining multiple CSV files (due to limitations from the website) into one file.

We removed rows with missing data.

Data Loading

We converted our CSV files to both regular JSON and geoJSON files to use in our visualizations.

We also created a MongoDB to parse the data for our charts.

Ethical Considerations

Exploratory Only

Our project was only exploratory in nature and not intended to influence policy or decision making of any kind.

No Personal Information

Our data did not include any personal identifiable information


Let's Look at
the Data

THANKS!

Do you have any questions?

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