



NOAA

# GA-DSI-Capstone Part 1- Introduction

JMich Chicago

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# NOAA

## **My hypothesis will attempt to:**

Reasonably predict the amount of annual deaths and property damage due to certain types of storm occurrences based on past data.

## **Capstone Project**

My capstone will be gathering data from the National Centers for Environmental Information, particularly information from 2003 to 2013, and will look at unusual storm occurrences and unusual weather phenomena, and more specifically, information on storm paths, deaths, injuries, and property damage.



### **Information about the data:**

National Centers for Environmental Information (NCEI) is responsible for hosting and providing access to one of the most significant archives on Earth, with comprehensive oceanic, atmospheric, and geophysical data.

From the depths of the ocean to the surface of the sun and from million-year-old sediment records to near real-time satellite images, NCEI is the Nation's leading authority for environmental information.

It is from this source that I will primarily ingest data on the following:  
<https://www.ncdc.noaa.gov/stormevents/>



## **Storm Events Database**

The Storm Events Database contains a chronological listing, by states, of storm occurrences and unusual weather phenomena. Reports contain information on storm paths, deaths, injuries, and property damage.

The Storm Events Database currently contains data from January 1950 to August 2016, as entered by NOAA's National Weather Service (NWS). Due to changes in the data collection and processing procedures over time, there are unique periods of record available depending on the event type. I have chosen to look at the data from 2003 to 2013

## **Data base**

I was able to find the data on the following NCDC website FTP server.

<ftp://ftp.ncdc.noaa.gov/pub/data/swdi/stormevents/csvfiles/legacy/>