



# EXTREME WEATHER CASES

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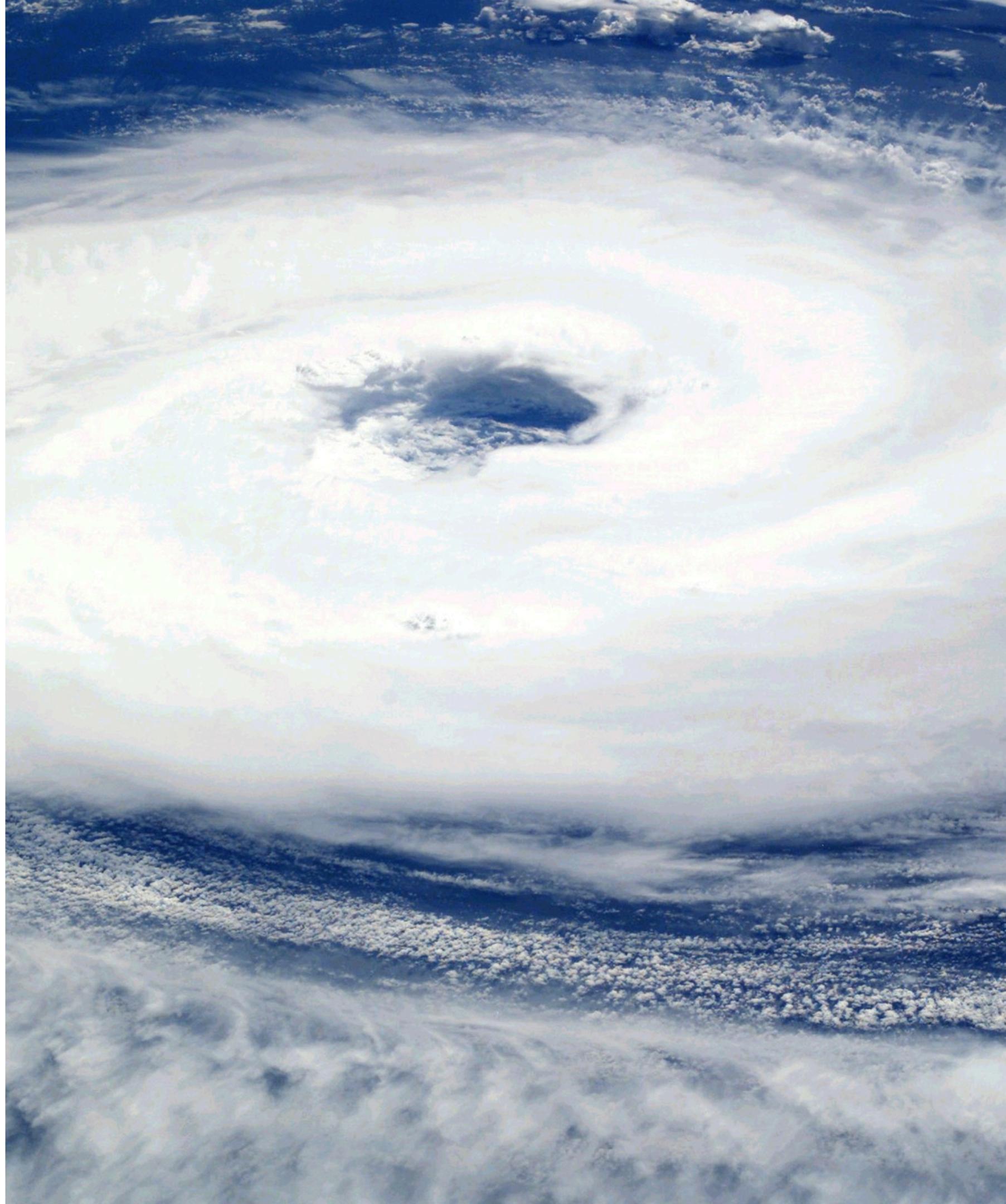


# BRIEF INTRODUCTION

- Hurricane Sandy (2012) vs. Hurricane Ida (2021)
- Rainfall differences
- Flooded areas and mapping
- Levels of physical damage
- Economic losses across NYC
- Visualizing neighborhood impacts

# METHODS

- Prior Research
- Locate and determine the area affected
- Differentiate between the 2 hurricanes
- Locate the amount of damage that the area sustained



# HURRICANE SANDY VS. HURRICANE IDA

## Storm Differences

- Sandy: Coastal storm surge & wind destruction
- Ida: Extreme inland rainfall & flash flooding

## Where & When

- Sandy (2012): Hit NYC coast — major storm surge
- Ida (2021): Hit NYC with intense rainfall — flooded inland areas

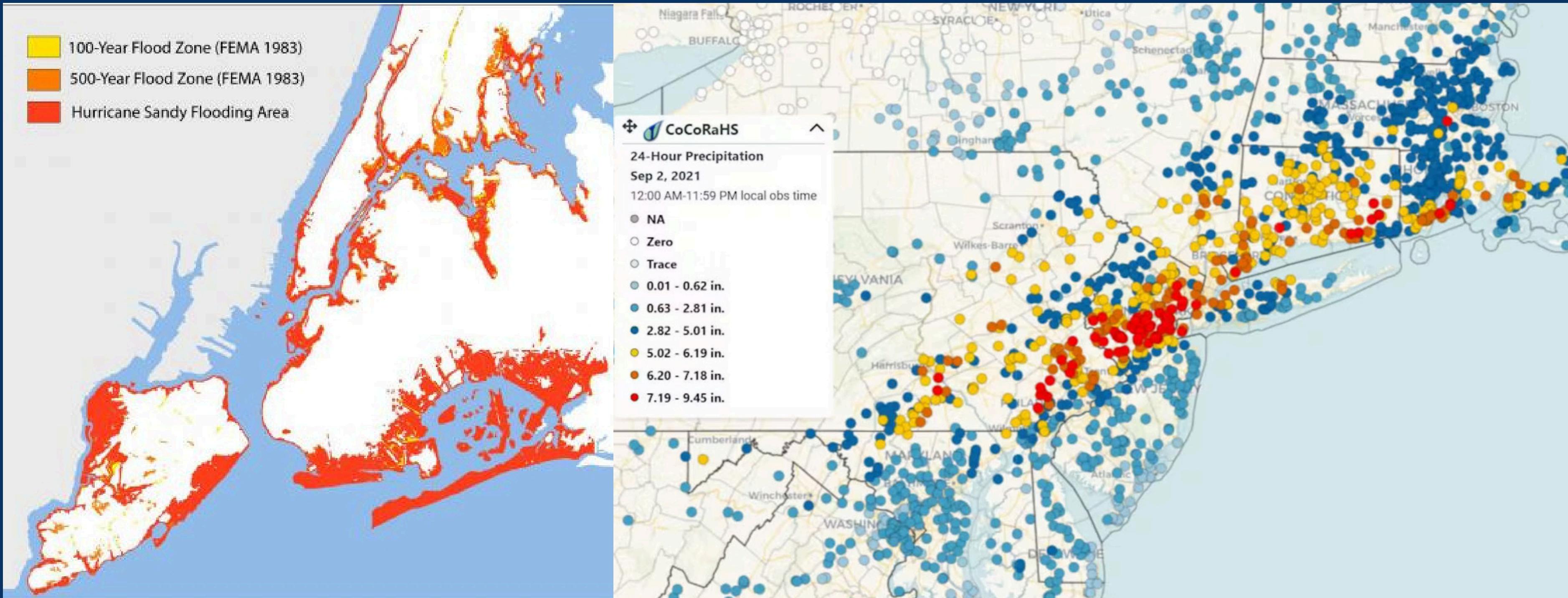


# RAINFALL DIFFERENCES

Hurricane Sandy (2012):  
Flooding mainly came from storm  
surge, not extreme rainfall

Hurricane Ida (2021):  
Record-breaking rainfall in just a few  
hours caused sudden flash flooding  
across NYC

# SCREENSHOTS / FLOODED AREAS



# LEVELS OF PHYSICAL DAMAGES

- Sandy (2012):
  - Coastal destruction
  - Major power outages
  - Subways/tunnels flooded
  - ~70,000 housing units damaged
- Ida (2021):
  - Severe inland flooding
  - Basement apartments flooded
  - ~35,000 buildings damaged
  - Lower damage per building

# ECONOMIC LOSSES ACROSS NYC

## SANDY (2012):

- At least \$19 billion in NYC alone
- \$85-90 billion total
- Major infrastructure shutdown
- Homes, transit, and businesses were heavily impacted

## IDA (2021):

- Over \$2.4 billion (7.5- 9 billion) in losses in NYC alone
  - Estimated \$75 billion total
  - Flooded homes + disrupted transit
- Less total damage than Sandy

# NEIGHBORHOOD IMPACT



HURRICANE SANDY



HURRICANE IDA

# LINKS

[Storymap](#)

[Github](#)





# THANK YOU!

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