

## Introduction

- Marine wildlife strandings: when aquatic animals are found in inappropriate locations
- Dolphins, whales, porpoise and pinnipeds are considered stranded when found dead on land or in water, but also when found alive and unable to return to the water (National Oceanic and Atmospheric Administration).



Photo Credit: NOAA Fisheries

Photo Credits: Shutterstock/davemhuntphotography

## Materials and Methods

### COUNTIES

- Richmond
- Queens
- Kings
- New York
- Bronx

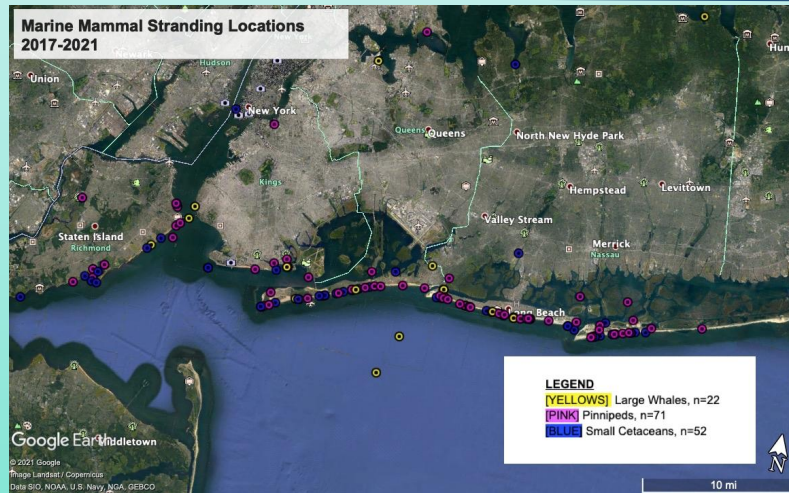
### 3 TAXA

- Pinnipeds
- Large Whales
- Small Cetaceans

### TOOLS

- Google Earth Pro
- Excel Sheets
- National Marine Mammal Stranding Database by NOAA Fisheries

## Results



Map of study site and the location of strandings in New York from 2017 - 2021. Yellow points indicate a large whale stranding event, pink points indicate a pinniped stranding event, and blue points indicate a small cetacean stranding event.

## Discussion

My hypothesis was not supported:

- ✓ Pinnipeds had the most strandings in April
- ✓ Large Whales in September
- ✓ Small cetaceans in March

Some reasons why strandings occur:

- ✓ Migration Patterns
- ✓ Human Influence
- ✓ Ocean geography
- ✓ Biological Infection



Photo Credit: Michael Pitts

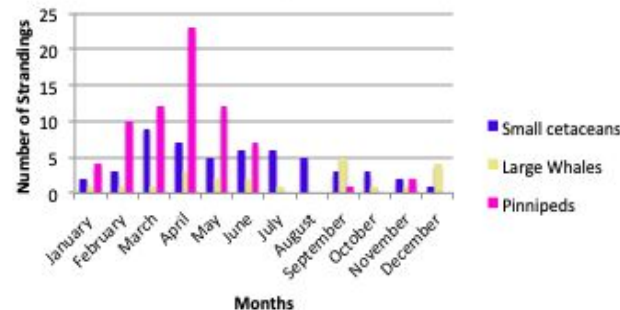
## Applications and Next Steps

- Doing outreach to communities to show the importance of reporting
- Educate officials on ways we can change to help better species in certain areas
- Looking into how climate change, coastlines and human interaction affect strandings

## Question and Hypothesis

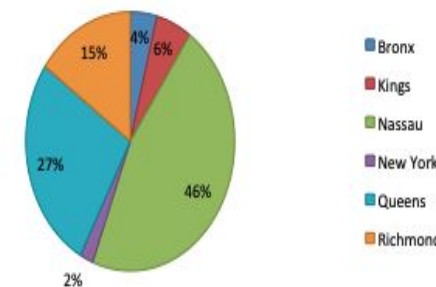
- This study set focus on identifying any patterns in taxa, species, condition, and locations of the events that happened in the course of four years.
- The hypothesis is that marine mammals would have the most reported strandings during the summer seasons due to there being more people out to report such findings.

### Annual Strandings by Taxa 2017-2021



Strandings recorded by month from 2017 - 2021

### Total Number of Strandings



Total number of strandings found per county (Bronx, Kings, Nassau, New York, Queens and Richmond) during 2017 - 2021

## Acknowledgments

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## References

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