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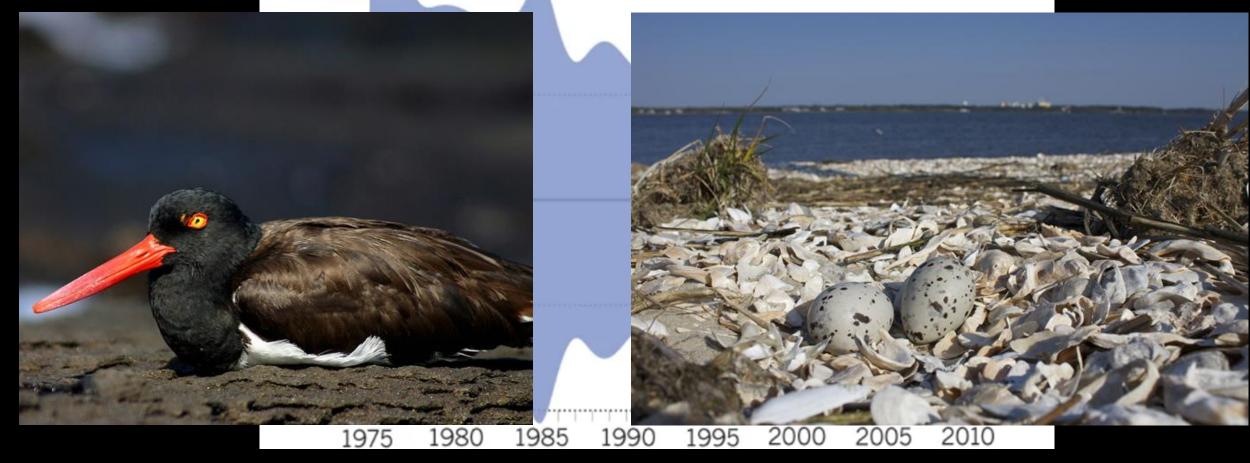




The Team



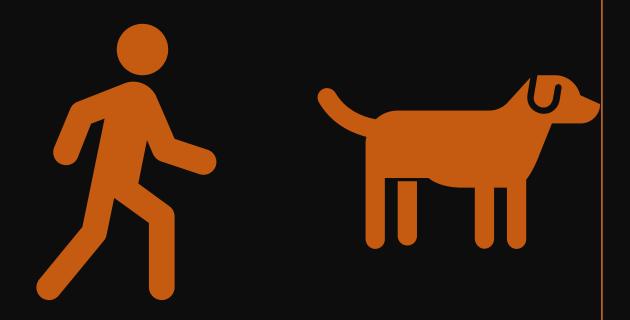
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Shorebird Populations are at risk

# Shorebird populations are at risk

- Anthropogenic disturbances can be both direct and indirect
- Direct effects:
  - Trampling
  - Handling of eggs
  - Dog predation on eggs
- Indirect effects:
  - A pedestrian walking by the nest
  - A dog walking by the nest
  - Any vehicular activity around the nest







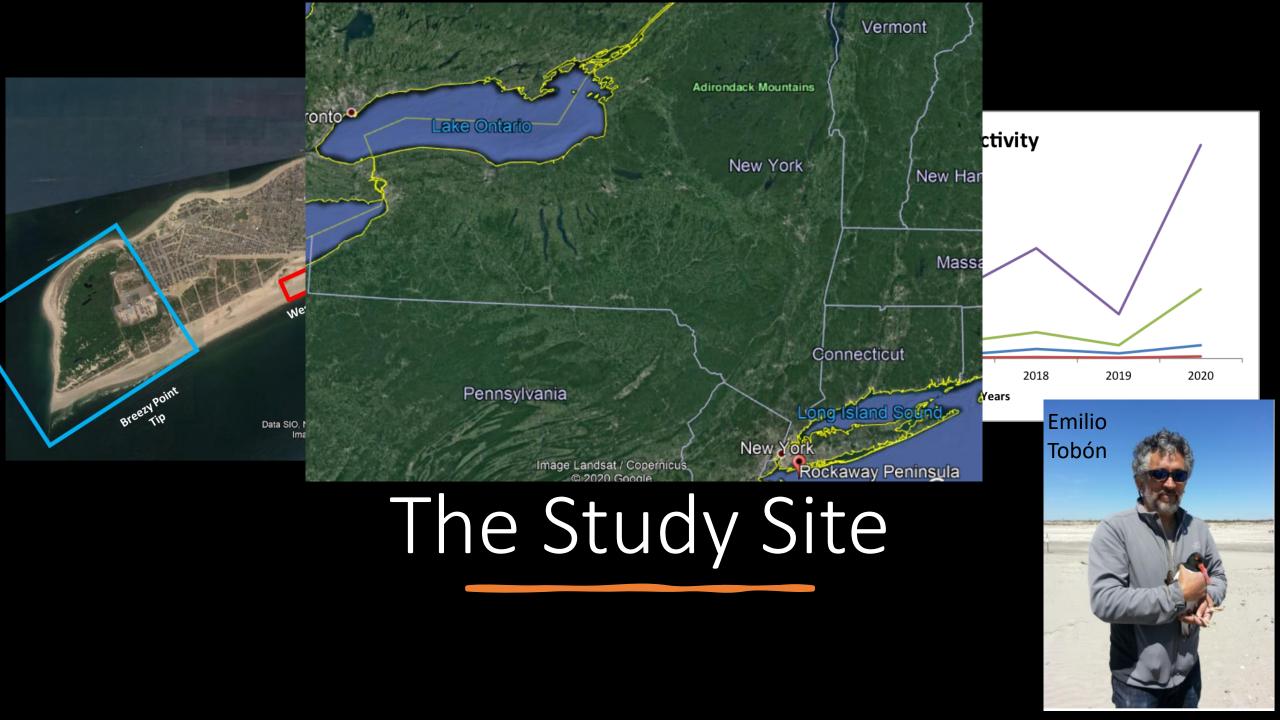
Highly Urbanized Study Sites

#### Questions to Consider

- 1. How do different types of disturbance affect the nesting behavior of the American Oystercatchers?
- 2. How does the frequency of disturbance change the behavior of the nesting American Oystercatchers?







# Methods-In-Person Observations

- Conduct in person observations during the egg-incubation and chick rearing phase
- Parameters measured:
  - Type of disturbance
  - Flight initiation distance
  - Time to return to the nest
  - Alarm calls
  - Standing
  - Number of people present around the nest



#### Methods-Trail Cameras

- Cameras will be placed at each of the American Oystercatcher nests at four different sites of varying levels of human disturbance during the egg rearing phase
- The cameras are motion sensored and will take photos and video anytime anything moves in front of it



## Study Design Questions Left to Answer

- What should the protocol be post hatch when chicks are not at the nest?
- General feedback about trail camera set up costs and benefits
- What else can I do to prevent theft and tampering with trail cameras?





# Summary

- This study will determine if human disturbance is contributing to the decreases in American Oystercatcher breeding success on the Rockaway beaches of New York City
- With this information we will be able to create informed management plans to support American Oystercatcher breeding efforts



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