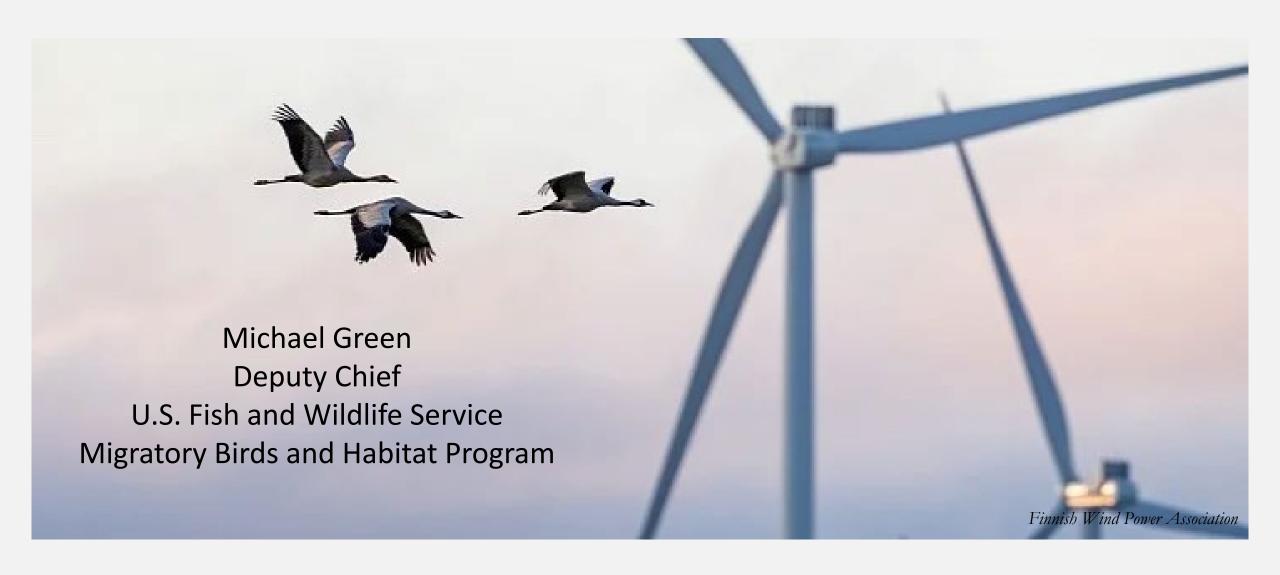
MBTA and Offshore Wind



MBTA and Offshore Wind

Agenda

- MBTA
- Incidental take
- ESA
- What we know
- What we don't know
- What we can do



The Migratory Bird Treaty Act -1918

The Cornerstone of Bird Conservation

PROHIBITS taking "at any time, by any means or in any manner...any migratory bird, [or] any part, nest, or egg of any such bird" unless authorized by the Secretary of the Interior

ALLOWS permits for the taking of migratory birds that are "compatible with the terms" and "carry out the purposes" of the migratory bird conventions

MBTA Take Definition

Defined in Regulation not the Act

Under the MBTA it is illegal to:

...pursue, hunt, shoot, wound, *kill*, trap, *capture, or collect*, or attempt to hunt, shoot, wound, kill, trap, capture, or collect...

MBTA does **NOT** protect **Inactive** nests

But...you are prohibited to possess the nest

MBTA does **NOT** protect habitat

MBTA Take Definition

Intentional vs Incidental

Intentional Take

- Take that results from the purpose of the action
- Generally, permits are available for these actions

Incidental Take

- Take that directly and foreseeably results from, but is not the purpose of an activity
- Currently, no permits available for these actions
- Rule-making being considered

MBTA Take Home Messages

- Killing a bird intentionally or incidentally is prohibited
- Only active nests are protected not inactive nests
- Habitat is not protected
- Hazing/harassment are not prohibited



If it's protected by MBTA, Eagle Act, and ESA, you must be in compliance with all that are applicable

Intentional Take - Common Permits

• Scientific Collecting - for a study where bird parts, tissues, etc. are collected and analyzed

• **Depredation** - removing active nests or birds from certain locations, economic conflicts (crop/livestock depredation), BASH

Special Purpose Miscellaneous

- Benefits bird pops, research, concern for individual birds, compelling justification
- "Relocate" need to relocate a nest that is a concern
- "Utility" industry wants to collect birds during post construction monitoring

Incidental Take is Prohibited (MBTA)

Reducing Project-related Impacts

No Express Authorization for permitting incidental take

- DoD Readiness Rule
- NMFS Hawaiian Long-line fisheries (21.95 Special Purpose)
- Island Invasive control permits (21.95 Special Purpose)

Primary strategy for incidental take is through Technical Assistance





Endangered Species Act

Protect and Recover

To protect and recover imperiled species and the ecosystems upon which they depend







Definition of Take -- ESA

Statutory Definition:

"...*harass, harm*, pursue, hunt, shoot, wound, kill, trap, capture, or collect..."

 Harass is an act that creates a likelihood of injury by disrupting breeding, feeding, and sheltering behaviors

Harm is an act that kills or injures wildlife



Purpose

Acts Comparison

• MBTA – Conserve

• ESA – Recover



Migratory Bird Program - Conserving America's Birds



Take

Acts Comparison

MBTA

• pursue, hunt, shoot, wound, kill, trap, capture, or collect, or attempt thereof

• ESA

 harass, harm, pursue, hunt, shoot, wound, kill, tra attempt to engage in any such conduct.



llect, or to



Acts Comparison

- MBTA No provision
 - Must result in direct take of birds, nests, eggs, or parts thereof

- ESA Can regulate if it constitutes harass or harm
 - May include significant habitat modification or degradation



Migratory Bird Program - Conserving America's Birds

Endangered and threatened species





Marbled Murrelet (E)

Short-tailed albatross (E)

Birds of Conservation Concern

https://www.fws.gov/media/birds-conservation-concern-2021







What we know: Anticipated Impacts of OSW on Birds

Birds are everywhere, even the remotest parts of the ocean

- Flight height patterns vary by species and wind speed
 - Albatross concentrate along productive zones and upwelling
 - Phalaropes (a shorebird), storm-petrels are truly pelagic
- Collision: Death, injury
- Avoidance: increased energetic demands
- Displacement: loss of feeding, loafing habitat

... and on land...

• Development of transmission, distribution and other infrastructure

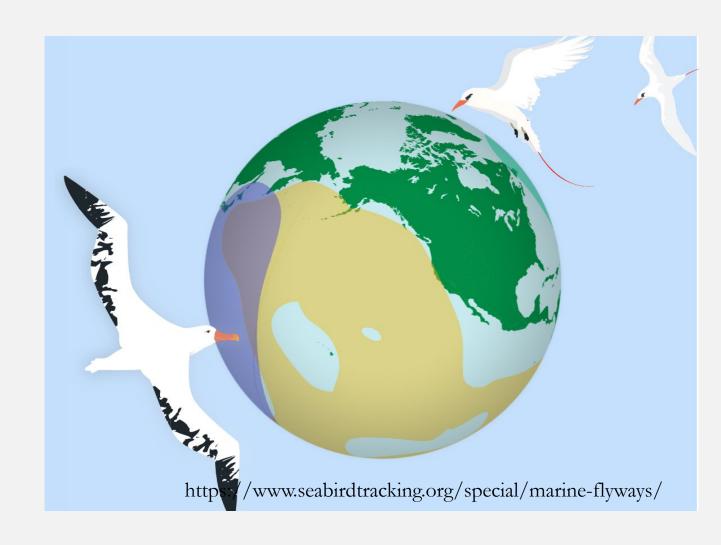


What we don't know...

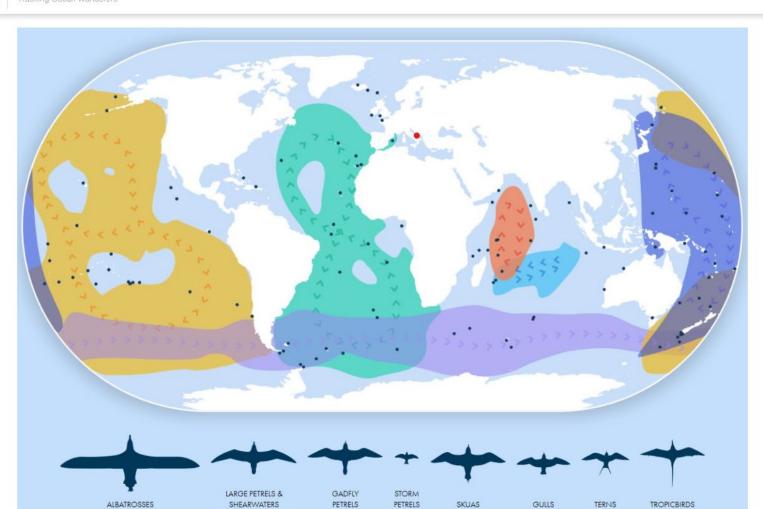
Flyway-level information for marine birds is incomplete

Each species does a different thing

BirdLife International and partners are working to identify seabird flyways



About News Species Resources Case Studies ♥ Instructions



— Current Database Status —

168

435

252

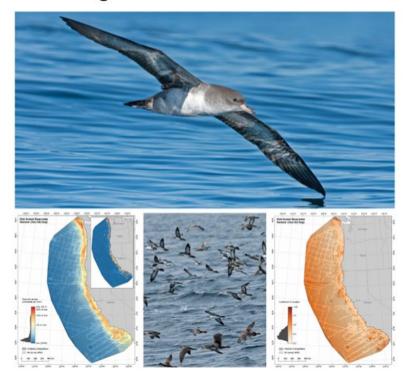
1,351 **DATASETS**

53,288

38,065,769

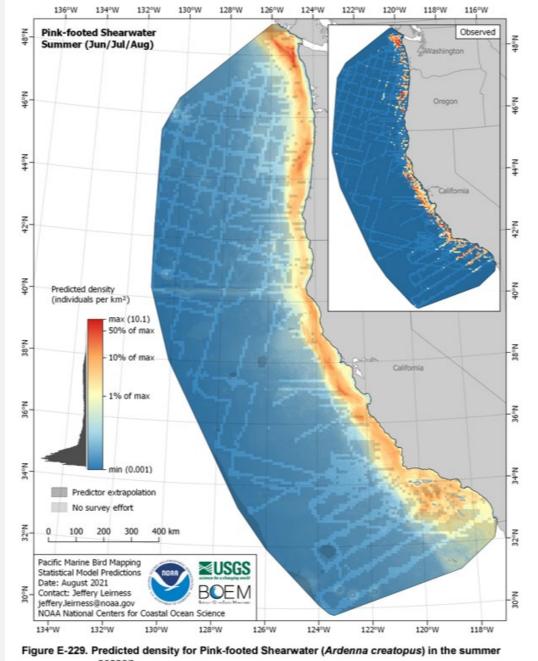
OCS Study BOEM 2021-014

Modeling At-Sea Density of Marine Birds to Support Renewable Energy Planning on the Pacific Outer Continental Shelf of the Contiguous United States

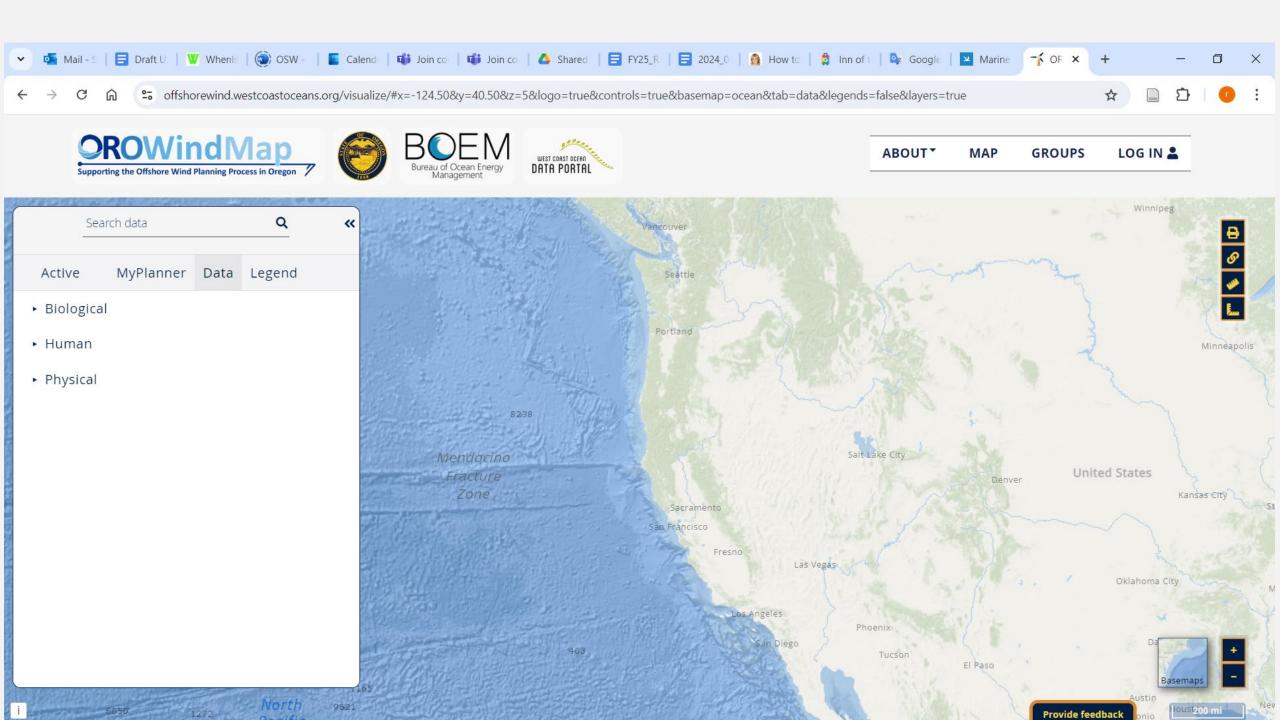


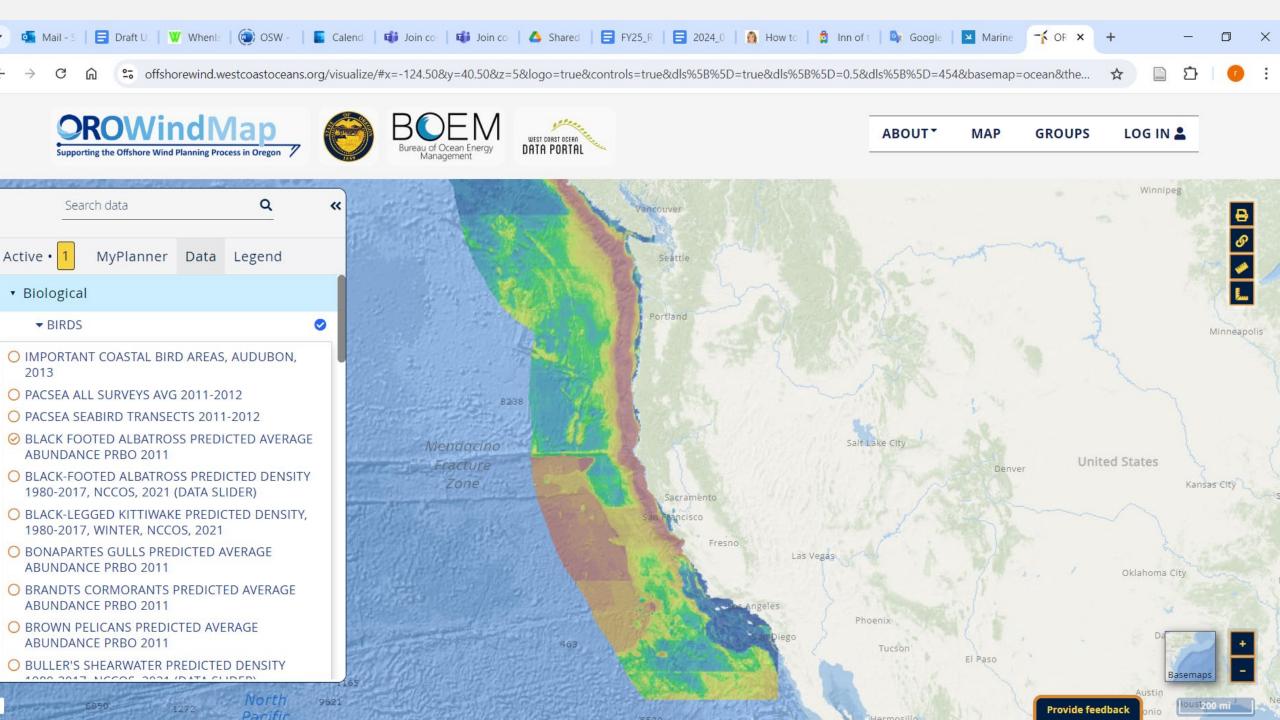
US Department of the Interior **Bureau of Ocean Energy Management** Pacific OCS Region





season







Results 2024 update of this study showed:

- phalaropes and tropicbirds are vulnerable to collision
- pelicans and sea ducks are vulnerable to displacement

What we don't know...

Actual Impacts to albatross

Predictions of impacts to seabirds based on work in the Atlantic -- no albatross in north Atlantic.



Other initiatives to learn more:

3D Seabird: Understanding collision vulnerability in 3D.

TT3D – ThermalTracker-3D Offshore testing project

SEABIRD – System for Environmental Assessment of Bird/Bat Interactions with Real-time Detection

... work by Stephanie Schnieder, HT Harvey and Associates and partners

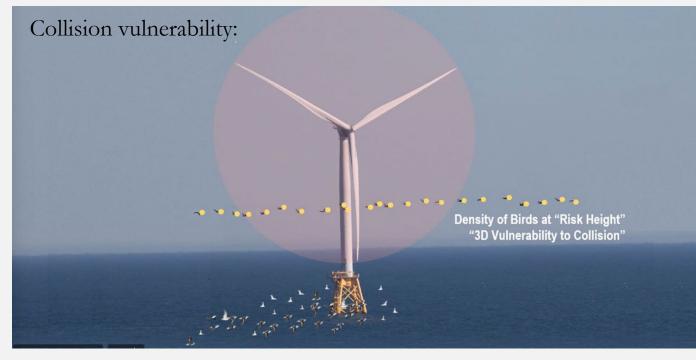


Understanding Seabird Risk – flight height

3D Seabird: Understanding collision vulnerability in 3D.

Developing a 3-D seabird distribution model for California

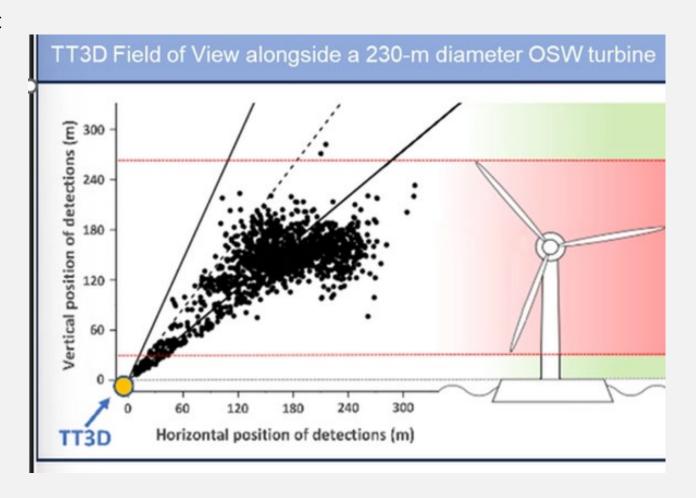
- Sooty shearwater and gulls make up most of community above 10 m
- Large diving shearwaters flying in the rotorswept zone.



Stephanie Schnieder, HT Harvey and Associates

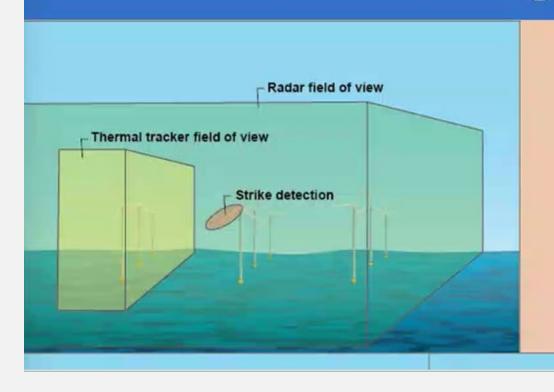
TT3D – ThermalTracker-3D Offshore testing project

- Volumentric passage rates
- Results most birds passing 0-10 meters
- Birds passing throughout the day, and at night



Stephanie Schnieder, HT Harvey and Associates

"SEABIRD"



Integrated, Real-Time, Multi-Scale System for Monitoring Seabird Interactions with Floating Offshore Wind Technologies

- Develop and test technology capable of gathering data needed to generate collision risk models
- Post-construction monitoring

Who are we most concerned about in the CCS?

Collision

Brant



Phalaropes



Large diving shearwaters (sooty)





David Gomez

Displacement

Sea ducks



Pelicans



What can we do to minimize impacts?

- Siting
- Deterrence methods none available
- Monitoring to understand impacts
- Compensation



