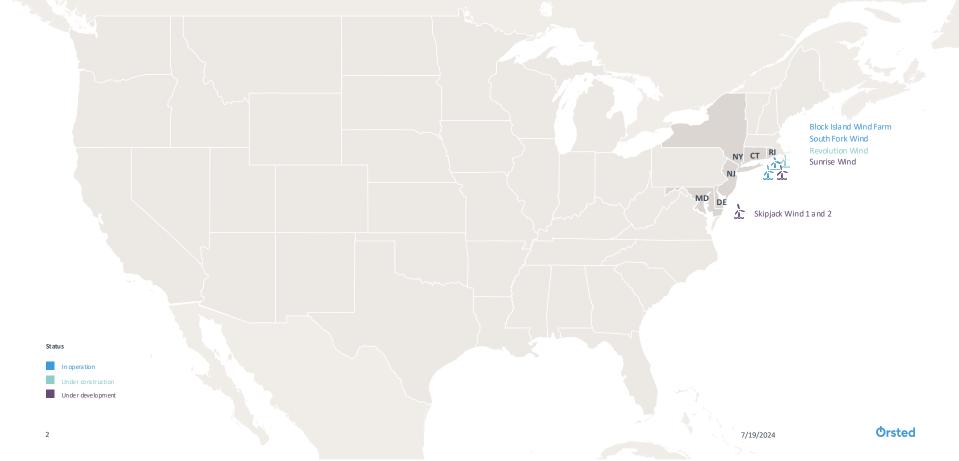
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Avian mitigation planning

Kim Peters, Principal Avian & Bat Biologist and Senior Manager, Biological Sciences Group

Our offshore U.S. footprint



Multiple projects with Avian Compensatory Mitigation Plan requirements

- Predicted take (based on SCRAM and Band results)
 - REKN
 - PIPL
- Initiated outreach with USFWS and BOEM in 2023
- Currently no mitigation bank or in-lieu program options
- Individual Project Compensatory Mitigation Plans:
 - Must be submitted prior to operations
 - Must demonstrate a 1:1 (or greater) offset
 - Must include detailed project description, location, timeline, costs, monitoring methods



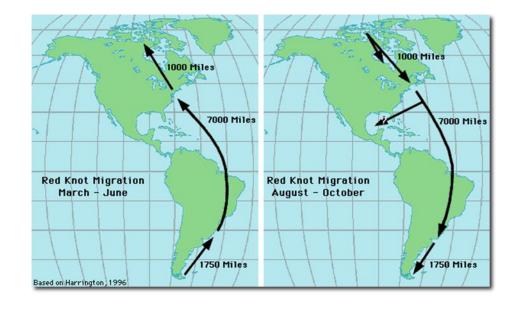
Photo: Greg Breese/USFWS



Photo: Don Freiday/USFWS

Process for identifying potential projects

- Early outreach to USFWS field/regional offices and BOEM
- Species Status Assessments (SSA) review and analysis
 - Focused on Threats
 - Filtered to Moderate and High Severity
 - Filtered out Intractable threats
- Identified conservation efforts and practitioners working on each of the priority threats
- Not limited to U.S.
- Initiation of communications with conservation organizations
 - Baseline?
 - Additionality?



Examples – *rufa* **Red Knot (Atlantic Flyway population)**

Threat (SSA)	Severity (SSA)	Potential Projects	Potential Metrics
Reduced nonbreeding food availability from human activity	High	Coastal restoration for horseshoe crab spawning HS crab stranding rescue/rehab Mussel habitat restoration Mussel hatchery support	HS crab/egg density, REKN weight gain, REKN abundance, area of beach restored, abiotic impacts (e.g., wave action), # strandings, # rescues, Mussel density, hatchery success
Aquaculture	Moderate	Work with industry partners in Northern Brazil to implement BMPs	Contaminant levels (REKN, surrogate species, extant), # Industry Commitments, # REKN
Human disturbance	Moderate	Beach Monitors Signage Fencing Exclusion zones	Shorebird abundance, # disturbance events, # signs installed, # monitors supported, # of "safe spaces"
Toxic algal blooms	Moderate	Support shorebird rehabilitation programs	Number of individuals rehabilitated
Coastal engineering/development	High	Habitat protection	Acreage, habitat condition, #REKN

Next Steps, Challenges, Opportunities

- Continue conversations with NGOs and other practitioners
- Discussions with other developers
- Continued coordination with USFWS, BOEM and BSEE
- Submit draft CMPs

Key Challenges:

- Accounting (# birds)
- Conservation value vs. "easy metrics"
- Long-term uncertainty
- KIPET@orsted.com

