

# Agenda



- About Chad
- About *Birding University*
- State of the birds
- Why migratory birds?
- Role of NH lakes
- How you can help
- Q & A

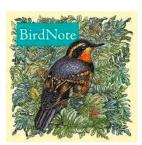


# **Chad Witko**

- Lifelong birder
- From the Hudson Valley of NY
- Worked with birds in 7 different states
- Specialist, Avian Biology for Audubon's Migratory Bird Initiative
- eBird Reviewer: Windham, VT
- VT Bird Records Committee
- Founder of Antioch Bird Club
- Science Advisor for BirdNote
- Founder of Birding University













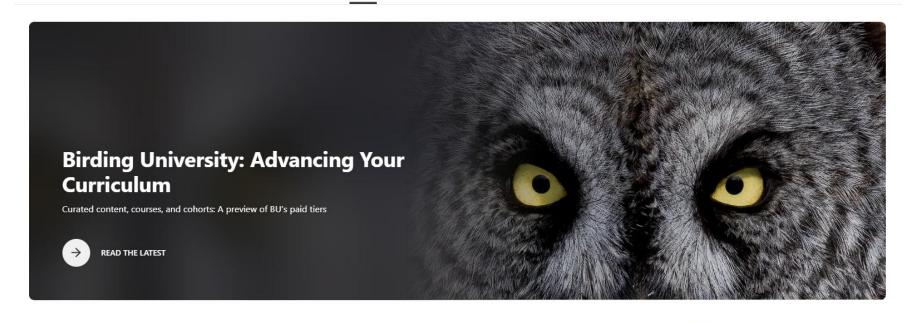




Steven Lamonde

Will Stollsteimer

**Chad Witko** 



Latest

Top

Discussions







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#### **Birding University**

Birding University is an educational ecosystem helping birders of all backgrounds grow their skills in birding, conservation, and community—because birding is for everyone.



#### Foundations of Field ID: Behavior

How the way a bird moves and acts can reveal its identity

AUG 2 - BIRDING UNIVERSITY

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**JULY 2025** 

#### **Birds & Nature: Northern Coastal Scrub**

Between soft mist and harsh brush, a unique bird community thrives

JUL 26 · BIRDING UNIVERSITY



#### Community & Conservation: Find Your Cause

From local habitat loss to global climate change—finding what moves you is the first step toward action

JUL 19 · BIRDING UNIVERSITY



#### **Birding Fundamentals: Binoculars 101**

Whether you call them binos or bins—master your optics to catch every detail

JUL 12 • BIRDING UNIVERSITY



#### **Foundations of Field ID: Color Patterns**

From bright blocks to subtle streaks, color patterns offer quick and powerful clues for identifying birds





#### **Birds & Nature: Northern Hardwood Forest**

When we understand place, we become better birders and better stewards

JUN 28 • BIRDING UNIVERSITY AND HAYLEY KOLDING



#### **Community & Conservation: Find Your Flock**

From reporting banded birds to finding others to share the joy of birding with, knowing where to go is the first step

JUN 21 • BIRDING UNIVERSITY



# Celebrating Checklists: AviList and 2 Billion eBird Observations

How global community and collaboration are shaping checklists—cornerstones of birding and avian conservation

JUN 14 · BIRDING UNIVERSITY

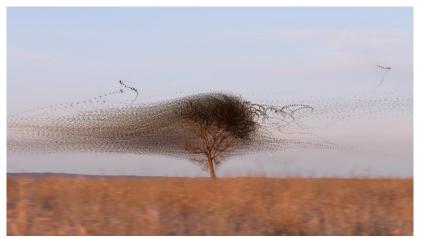


#### Foundations of Field ID: Size & Shape

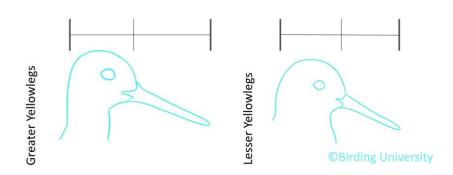
The fastest way to start identifying birds—learn to recognize them by their outline, posture, and proportions before anythin...

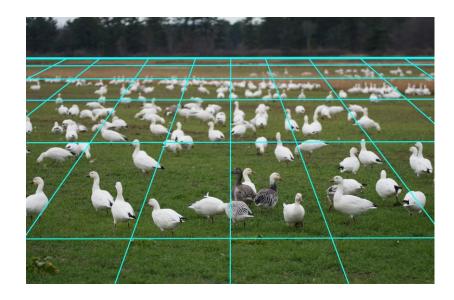
JUN 7 • BIRDING UNIVERSITY











Free Ti	er
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## **Paid Tier**

# **Founding Member Tier**

# Free

# \$5/mo OR \$50/yr

Free Tier +

**Paid Newsletters** 

2 per month

# \$100/yr

### **Weekly Newsletters** 1-2 per week

### Free Tier + Paid Tier + **Q&A** with BU Educators quarterly

#### Includes:

- This Week in Birding History
- **Birding Tip**
- **Deep Dive:** Rotating across four topic areas:
- Bird ID
- Birding Skills & Experiences
- Community & Conservation
- Birds & Nature

#### **Includes:**

- **BU Study Series:** 1. Monthly guided courses
- 2. Bird's Eye View: Curated content to fast-track learning



#### **Includes:**

- **Direct Access:** to BU educators: 1. get your questions answered
- Help Influence: the future of BU content
- Something Special: A vinyl 3. Birding University logo sticker



birdinguniversity@gmail.com



@birdinguniversity



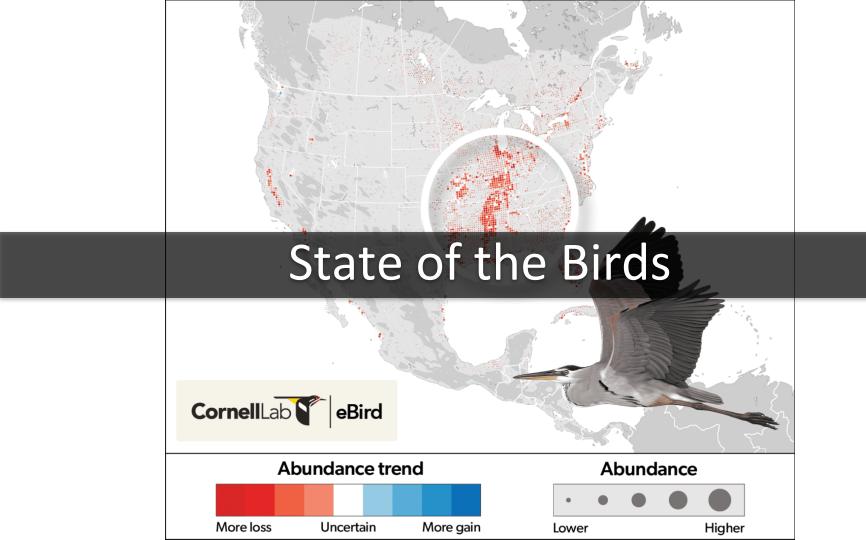
@birdinguniversity

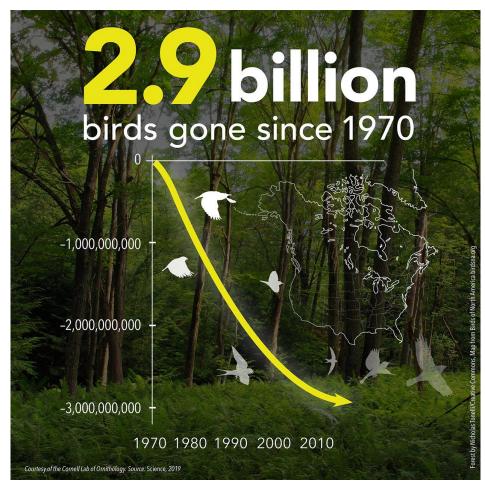


@birdinguniversity.bsky.social



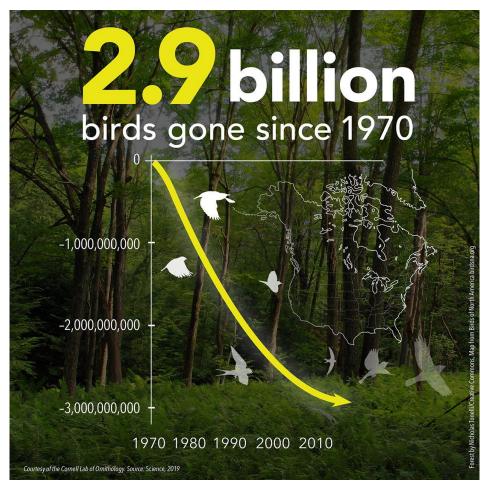






# WE LIVE IN A WORLD WITH FEWER BIRDS

Rosenberg et al. 2019



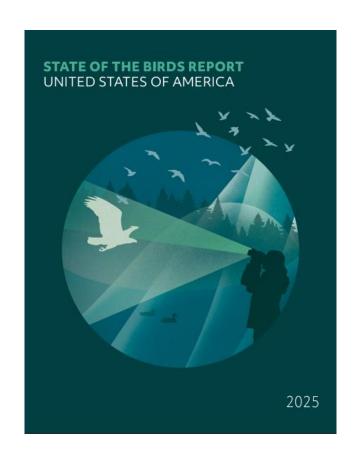
# 3 BILLION lost in 50 years

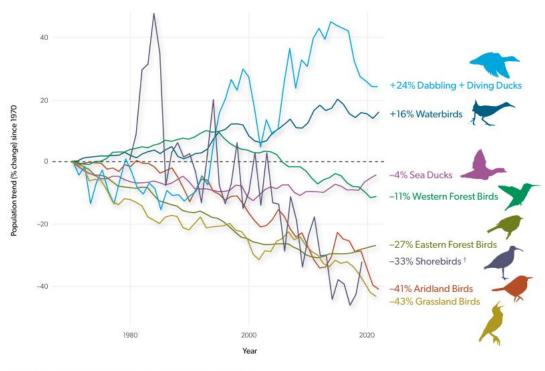


3 BILLION lost in 50 years



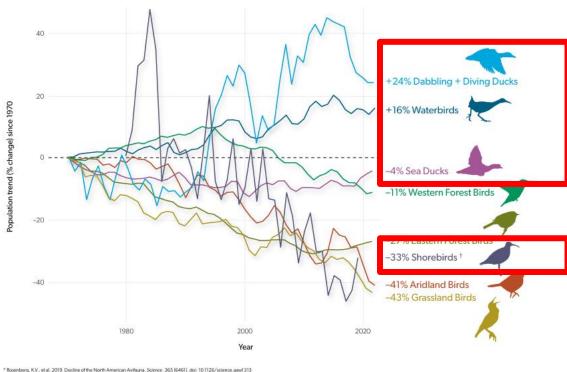
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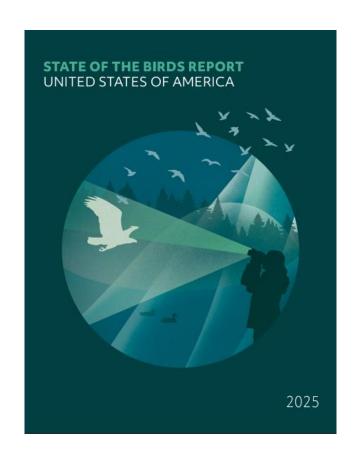


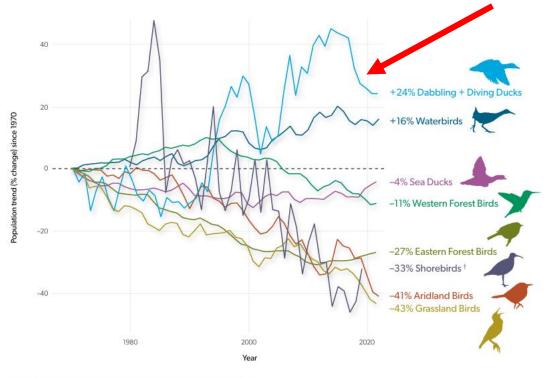
<sup>\*</sup> Rosenberg, K.V., et al. 2019. Decline of the North American Avitaura. Science. 365 (6461). doi: 10.1126/science.aaw1313 † Shorebirds indicator trend data has not been updated since 2019.



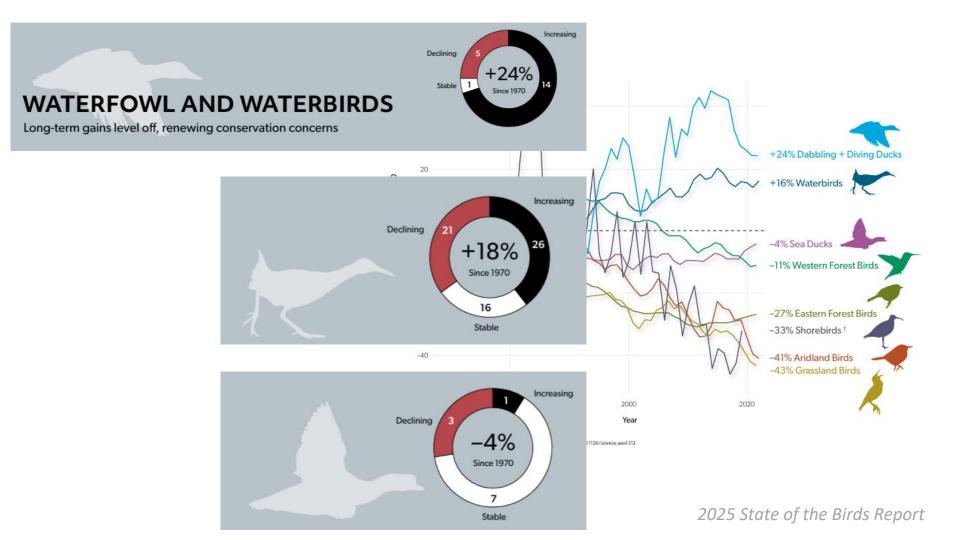


<sup>\*</sup> Rosenberg, K.V., et al. 2019. Decline of the North American Avilaura. Science. 365 (6461). doi: 10.1126/science.aawl † Shorebirds indicator trend data has not been updated since 2019.

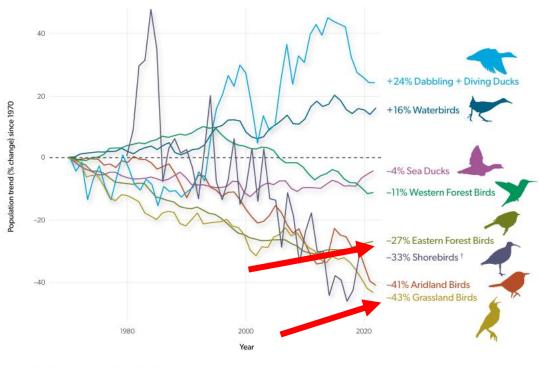




<sup>\*</sup> Rosenberg, K.V., et al. 2019. Decline of the North American Avifauna. Science. 365 (6461), doi: 10.1126/science.aawl313 † Shorebirds indicator trend data has not been updated since 2019.

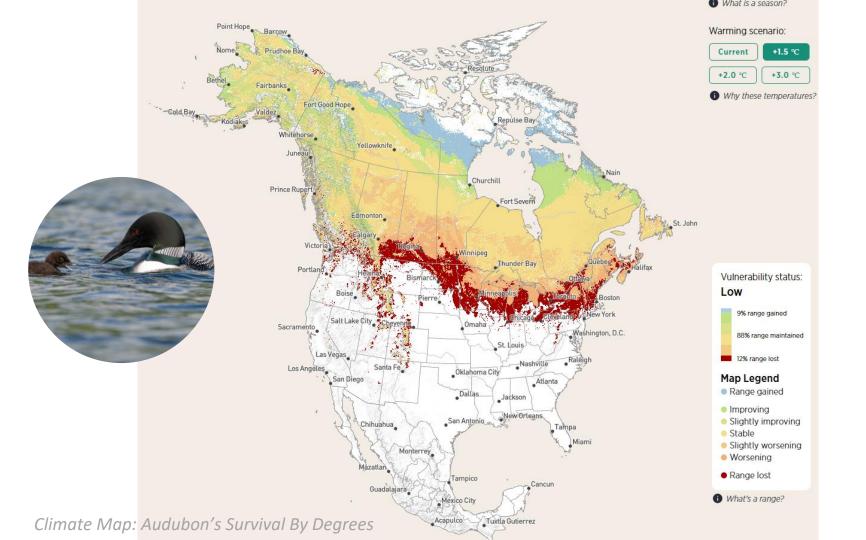


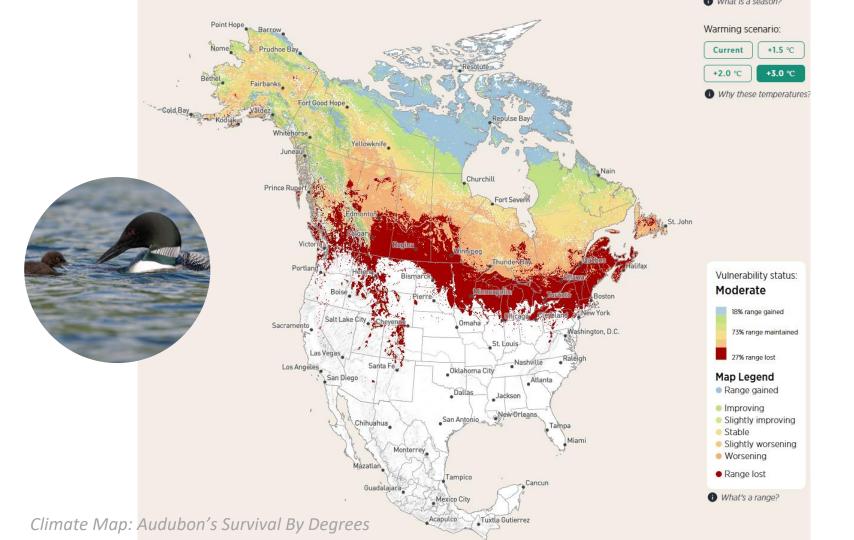




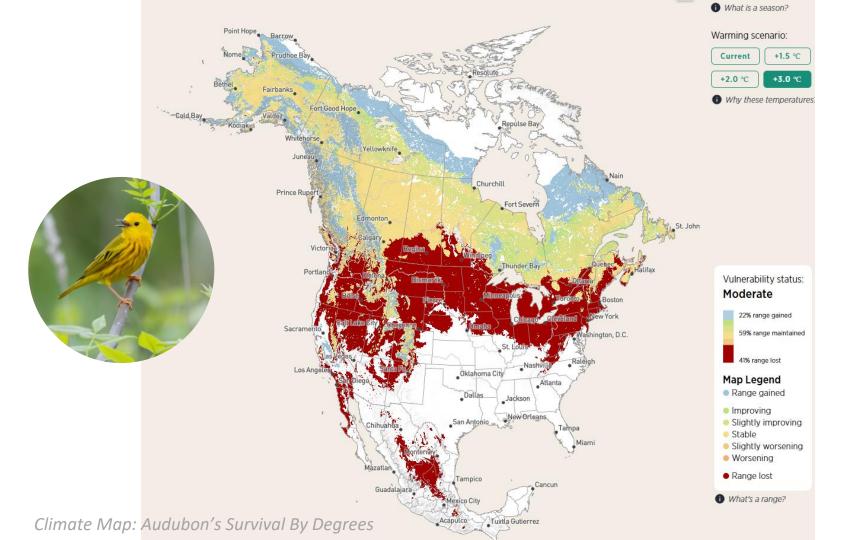
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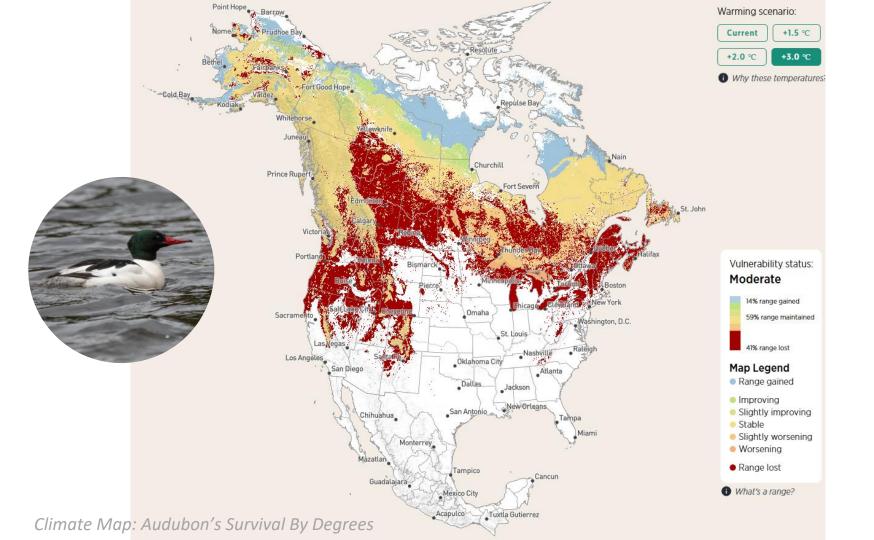




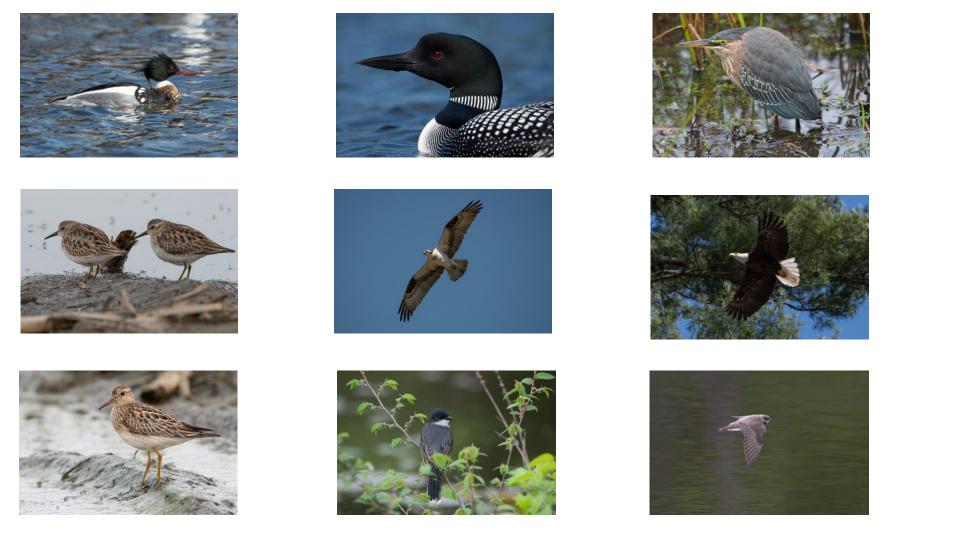












# Why do birds migrate?



- Areas of low/decreasing resources -> areas of high/increasing resources
- Food & nesting locations
- Migrate north for burgeoning insect populations, increased nesting locations, or open water
- South to escape cold, yes, but mostly for food resources

Illustration: David Allen Sibley

# Types of migration



- Long-distance/Obligate (Arctic Tern)
- Short-distance/Facultative (Eastern Phoebe)
- Complete (Swainson's Hawk)
- Partial (American Robin)
- Altitudinal (Dusky Grouse)
- Diurnal (raptors)
- Nocturnal (songbirds)

*Illustration: David Allen Sibley* 





# CANARIES IN THE COAL MINE

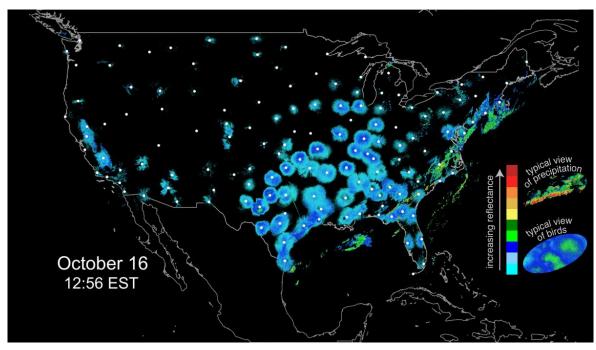
Birds tell us about the health of our environment

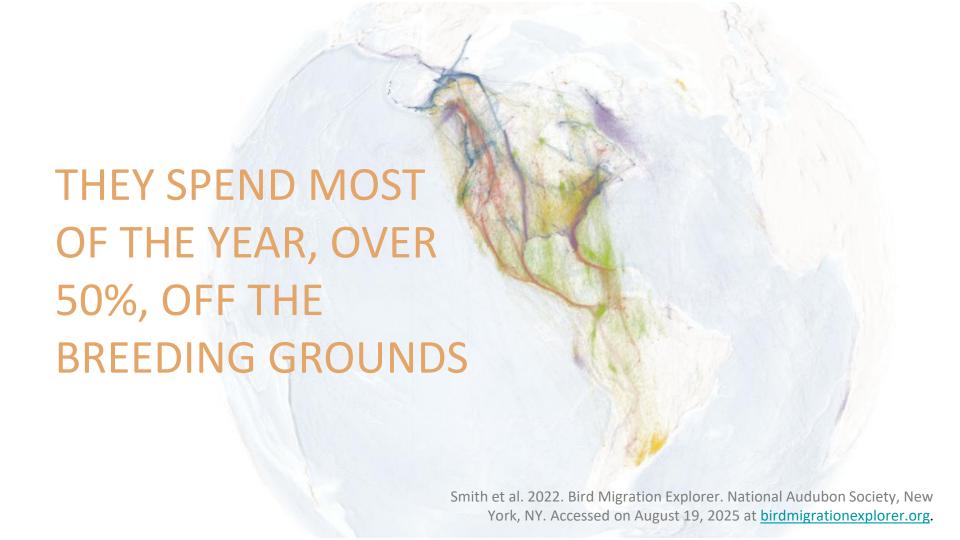
# BY PROTECTING BIRDS AND THEIR HABITATS

We also protect the places other wildlife & people need



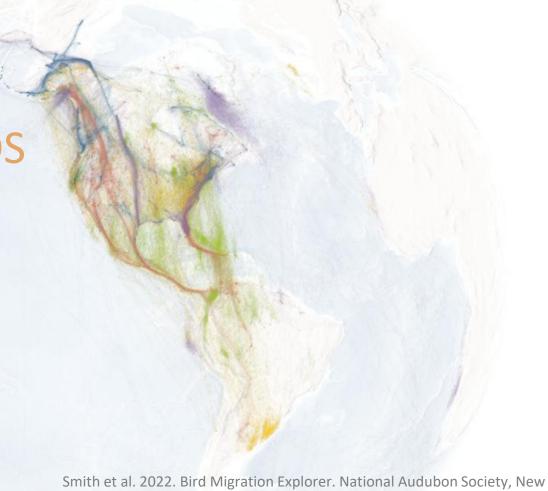
~ 70% OF **NORTH AMERICAN BREEDING BIRDS MIGRATE** 



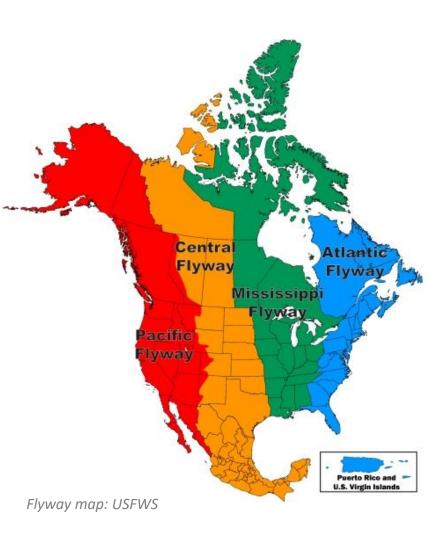


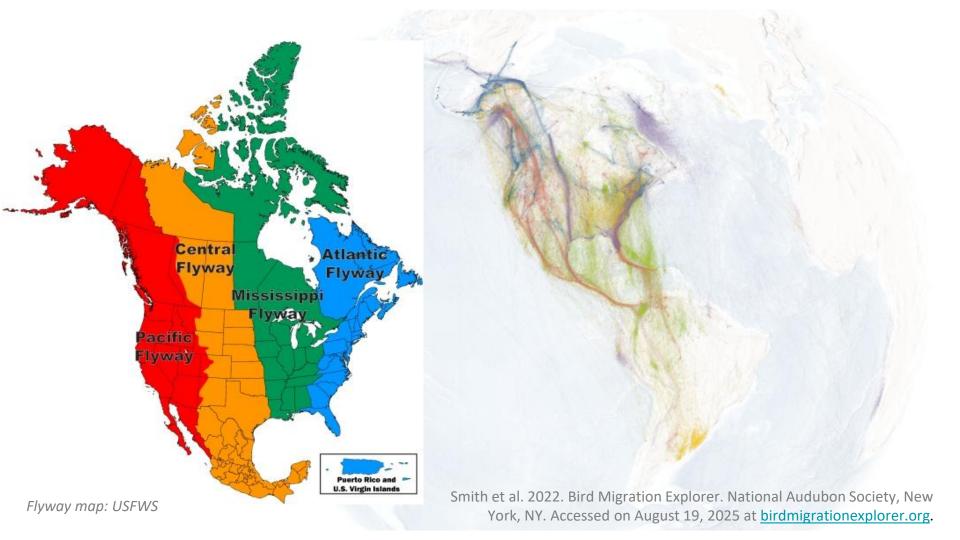


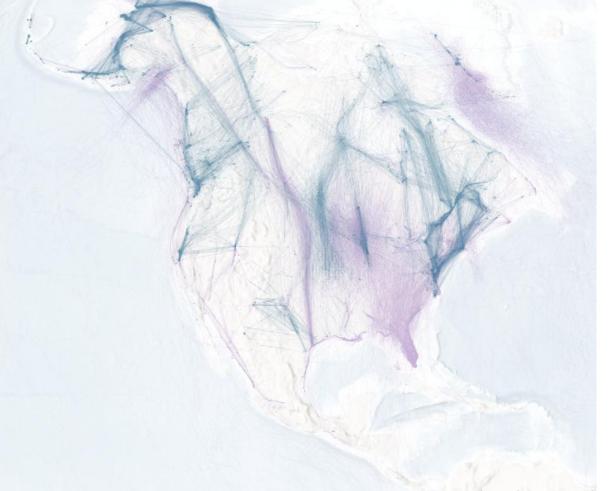
Across a hemisphere, across the Earth

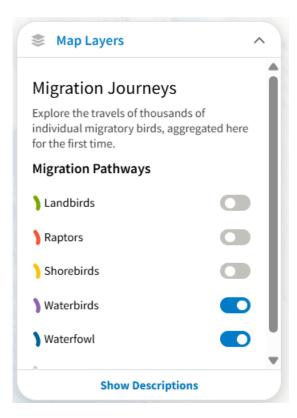


Smith et al. 2022. Bird Migration Explorer. National Audubon Society, New York, NY. Accessed on August 19, 2025 at <u>birdmigrationexplorer.org</u>.









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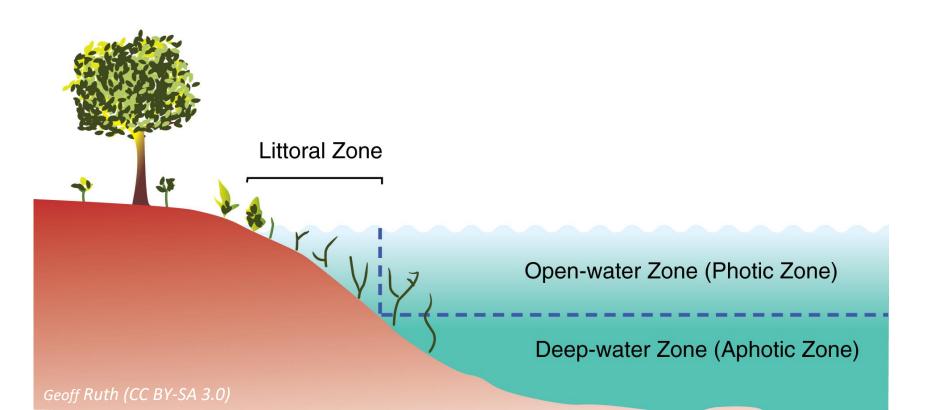




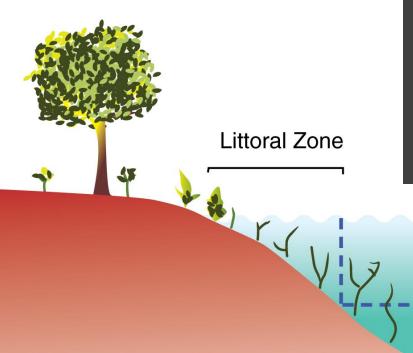




*Lakes: Creative Commons* 



# What do lakes offer migratory birds?



- Nesting habitat
- Shelter and protection from predators
- Areas to rest and refuel
- Foraging opportunities
- Fish and other vertebrates
- Invertebrates (terrestrial & aquatic)
- Water

Open-water Zone (Photic Zone)

Deep-water Zone (Aphotic Zone)

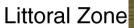
Geoff Ruth (CC BY-SA 3.0)



















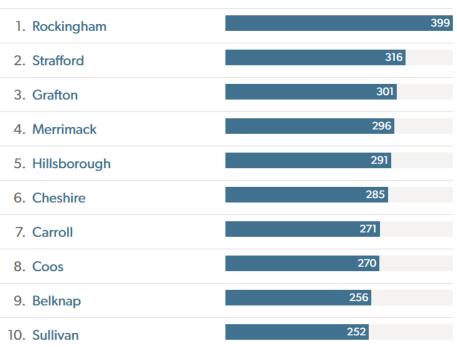
e (Photic Zone)

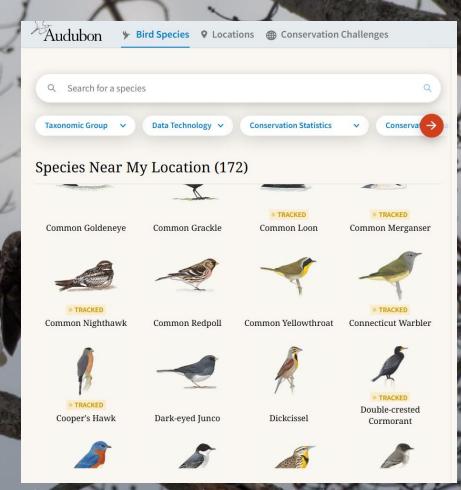
ne (Aphotic Zone)

Geoff Ruth (CC BY-SA 3.0)



#### Species Leaders







# **Belknap County**

- White-winged Scoter: 200; Squam Lake; 21 May 2011
- Ring-necked Duck: 176; Lake Winnisquam; 12 Apr 2015
- Black Scoter: 120; Lake Winnisquam; 1 Nov 2023

## **Carroll County**

- Red-necked Phalarope: 7; Squam Lake; 29 Aug 2024
- Bonaparte's Gull: 150; Lake Winnipesaukee; 12 May 2025

## **Cheshire County**

- Tree Swallow: 2000; Spofford Lake; 22 Apr 2017
- Bufflehead: 222; Spofford Lake; 29 Apr 2018

























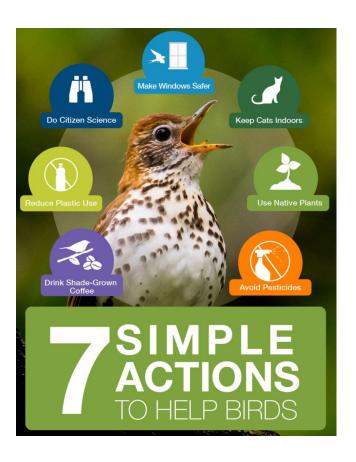












- 1. Make windows safer
- 2. Keep cats indoors
- 3. Use native plants
- 4. Avoid pesticides
- 5. Drink shade-grown coffee
- 6. Reduce plastic use
- 7. Do community science









