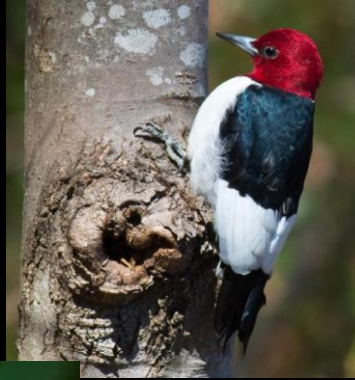


Northeast Bird Habitat Conservation Initiative

2018 RCP Network Gathering

Bill Labich, Sara Barker, Matt Strimas-Mackey, and Hallie Schwab

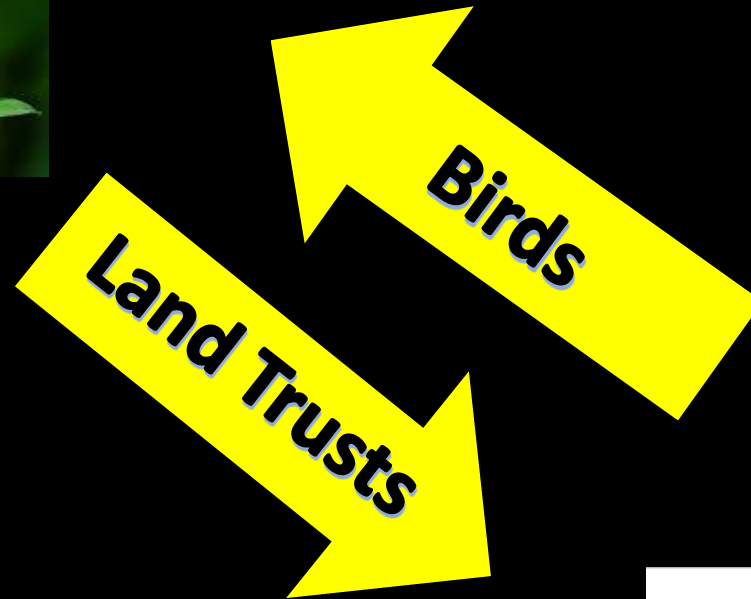
Land Trust/Bird Conservation Nexus



Land Trusts collectively protect 56 million acres of private land nationwide!



Birds are catalysts for capacity building and conservation strategies.

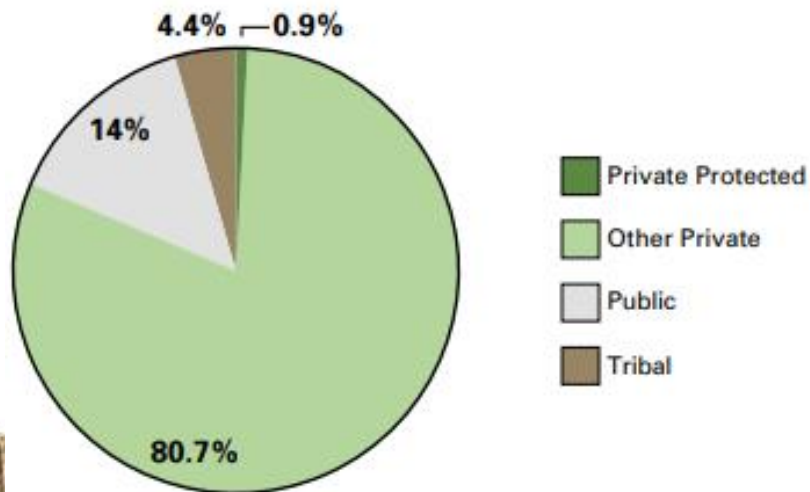


Importance of Private Lands

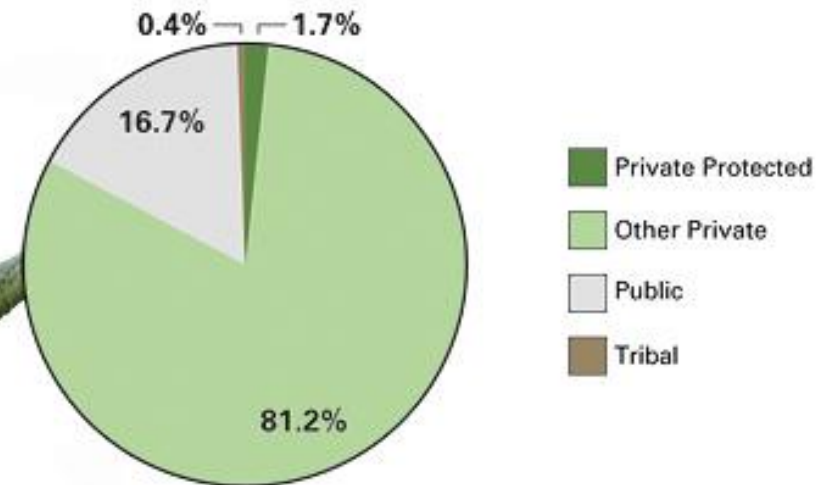
More than 100 bird species
are > 50% reliant on private land



Grassland Birds



Eastern Forest Birds

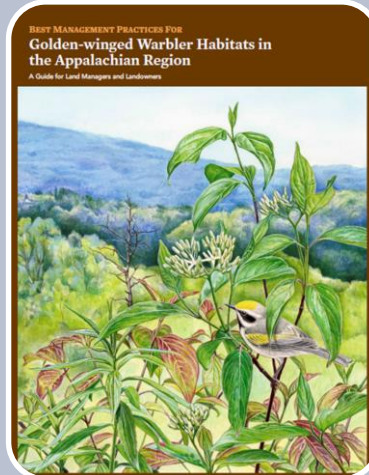


Conducted National Needs Assessment

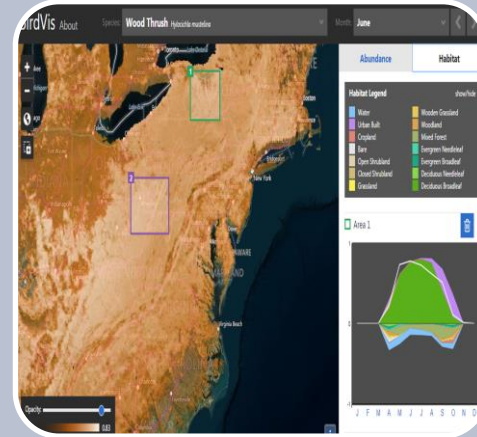
(N = 614 land trusts)



Funding



Conservation
Resources



Planning
Tools

Land Trust Bird Conservation Initiative

www.birdtrust.org

The **Cornell** Lab



Land Trust Alliance

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[Contact Us](#)

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Land Trust Bird Conservation Initiative



About

Land Trusts in Action

Birds on Your Land

Fundraise

Resources

News

Small Grants Program

Save More Land

Use birds to strengthen easements and
protect threatened habitats

[Learn How](#)



Photo by Nicholas A. Tonelli

Land Trust Bird Conservation Initiative



- Fundraising Directory / Land Trust Small Grants Program
 - Resources and Tips
 - 4 grants in 2017 (CO, WA/OR, VT, ME); 3 in 2018 (CA, ME, NY/CT)
- Conservation Resources
 - Landscape-scale Plans (SWAP)
 - BMPs
 - Citizen Science Projects
 - PIF/Joint Ventures/IBA Program
- Planning Tools
 - Bird Conservation Collaboratives
 - eBird (online checklist program)



eBird for RCPs

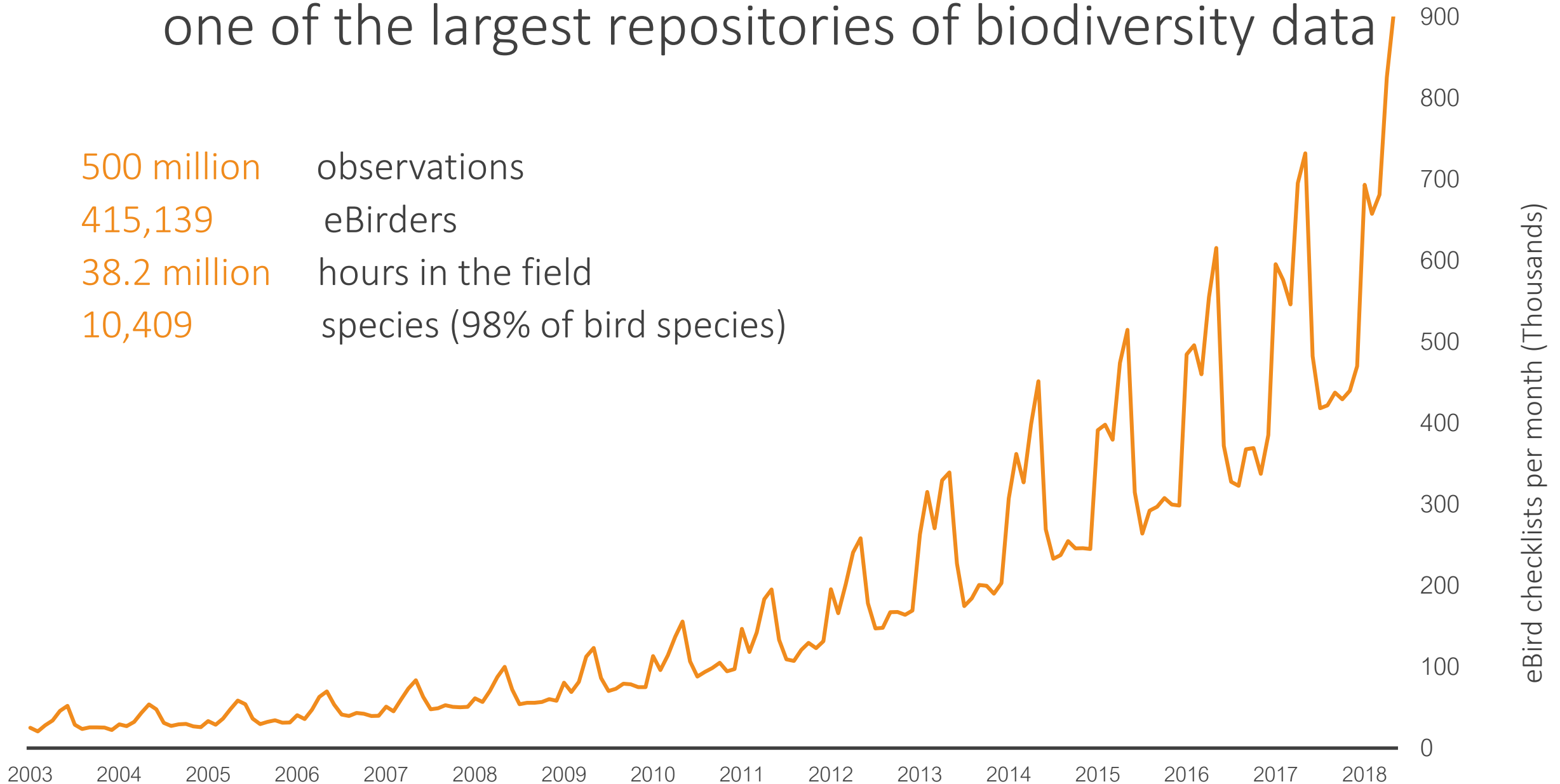
The **Cornell** Lab  of Ornithology

eBird

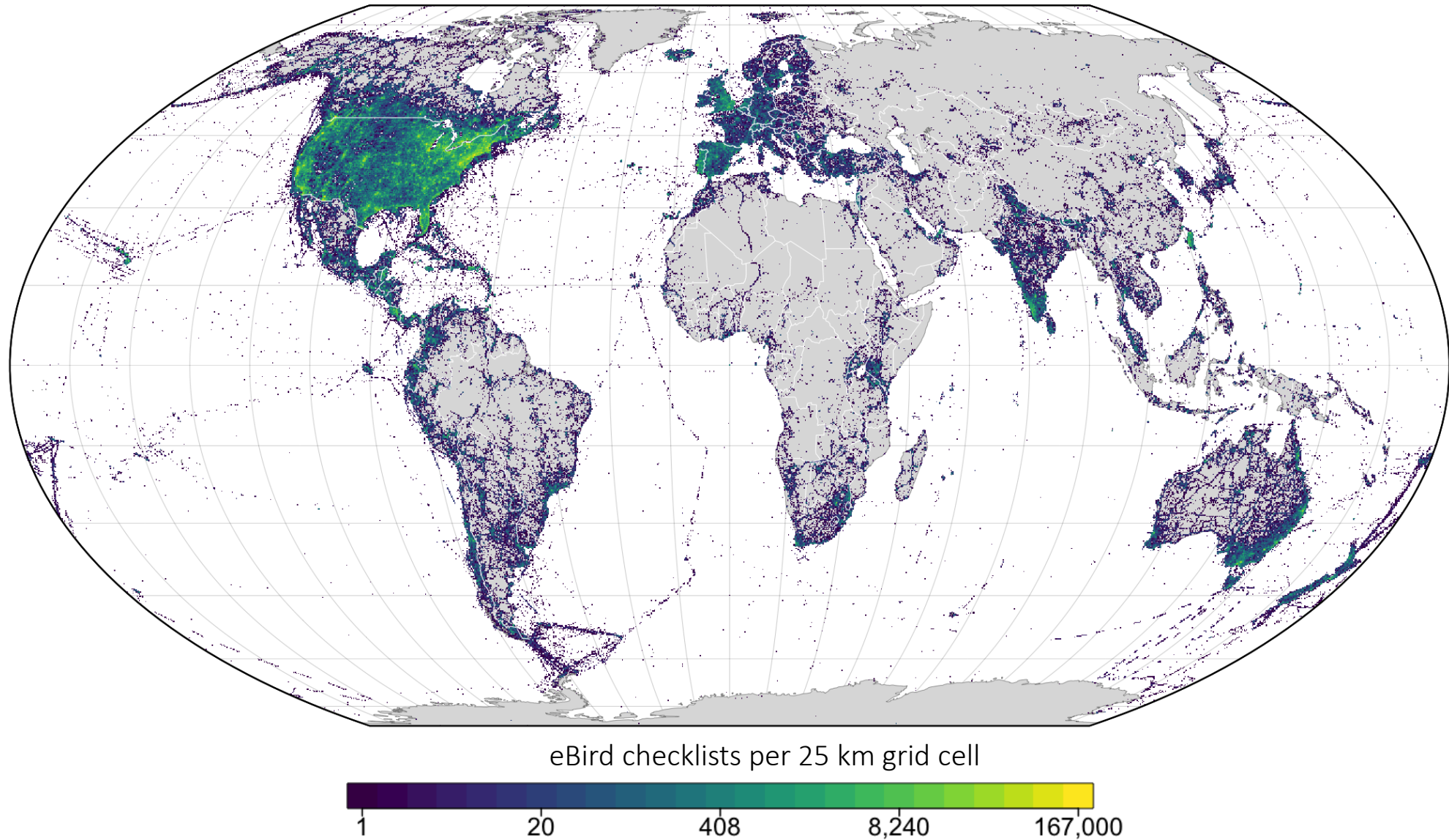
is a an online database of bird observations collected by citizen scientists, providing real-time data about the global **distribution** and **abundance** of bird species.

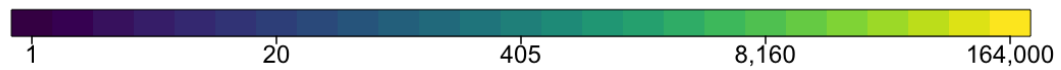
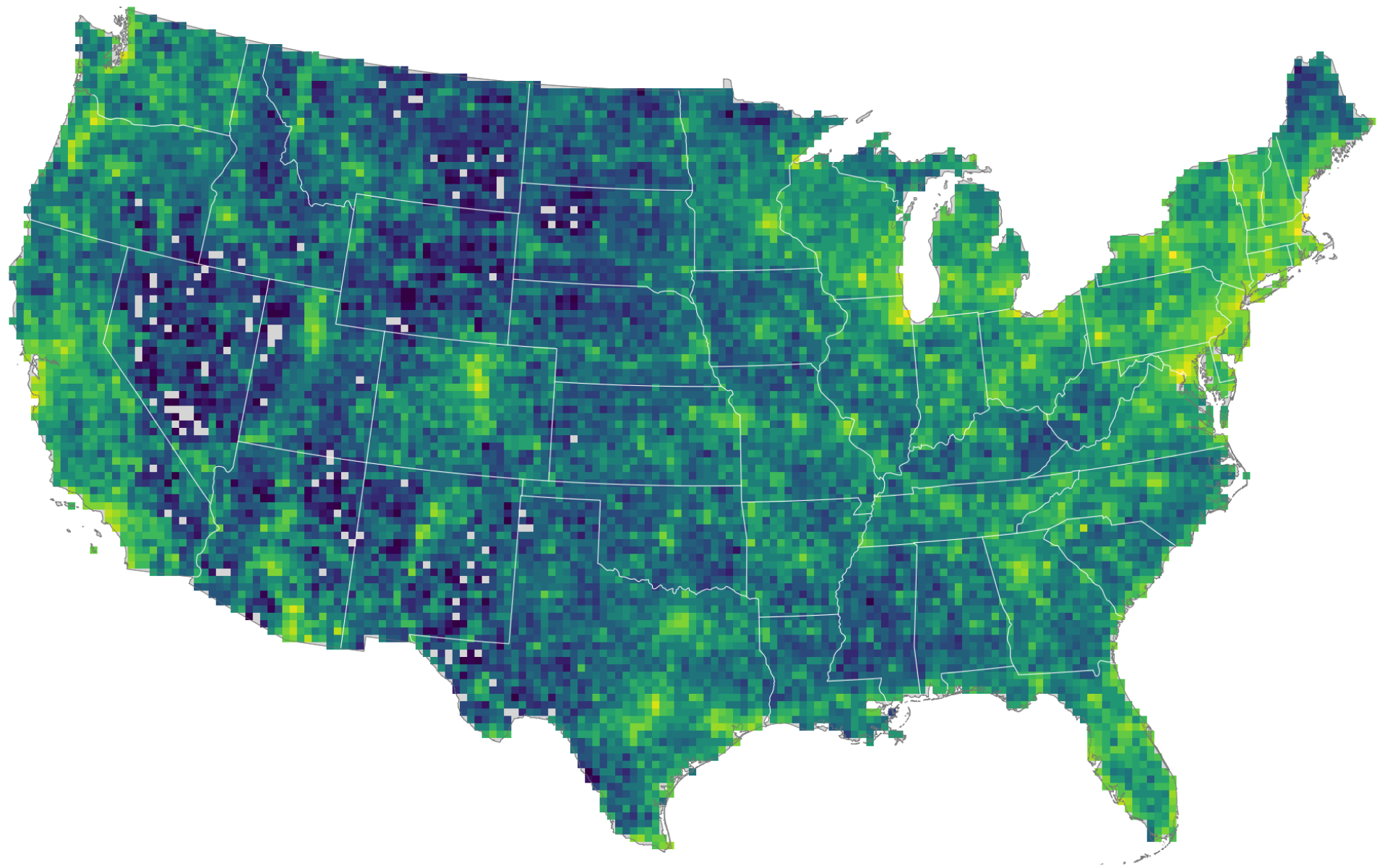
one of the largest repositories of biodiversity data

500 million observations
415,139 eBirders
38.2 million hours in the field
10,409 species (98% of bird species)



eBird checklists span the entire globe





How can eBird help RCPs?

1

tools for **monitoring** birds

2

inform **decision** making & **grant** applications

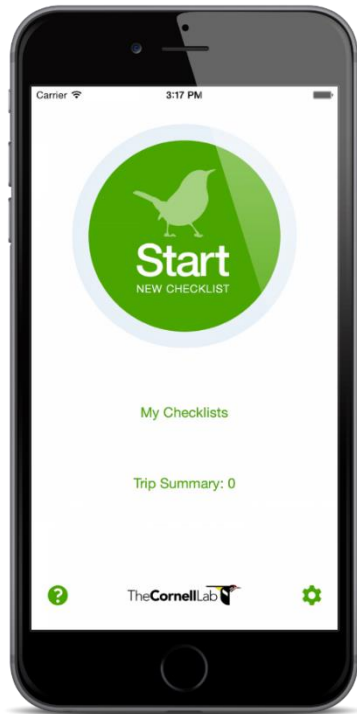
3

engage an active community of birders

1

Monitoring

Mobile



Online

← → ↻ https://ebird.org/submit/checklist

eBird Submit Explore My eBird Science About News Help Donate Matthew Strimas-Mackey (mstrimas) Language

1 2 3 What did you see or hear? Lindsay-Parsons Biodiversity Preserve (FLLT), Tompki... Thu May 10, 2018 8:00 AM

WATERFOWL

	Snow Goose
	Domestic goose sp. (Domestic type)
	Brant
	Brant (Atlantic)
20	Canada Goose Add Details
	Domestic goose sp. (Domestic type) x Canada Goose (hybrid)
	goose sp.
	Muscovy Duck (Domestic type)
4	Wood Duck Add Details
	Blue-winged Teal
	Gadwall
3	Mallard Add Details
	Mallard (Domestic type)
	American Black Duck
	Mallard x American Black Duck (hybrid)
	Mallard/American Black Duck
	Northern Pintail
	Green-winged Teal
	Green-winged Teal (American)
	Redhead
	Ring-necked Duck
	Greater Scaup
	Lesser Scaup
	Greater/Lesser Scaup

prwa

Prairie Warbler - *Setophaga discolor*

Change Species

Alphabetic

Show Rarities

Show Subspecies

Group by Most Likely ?

Shortcuts Preferences

Change Species

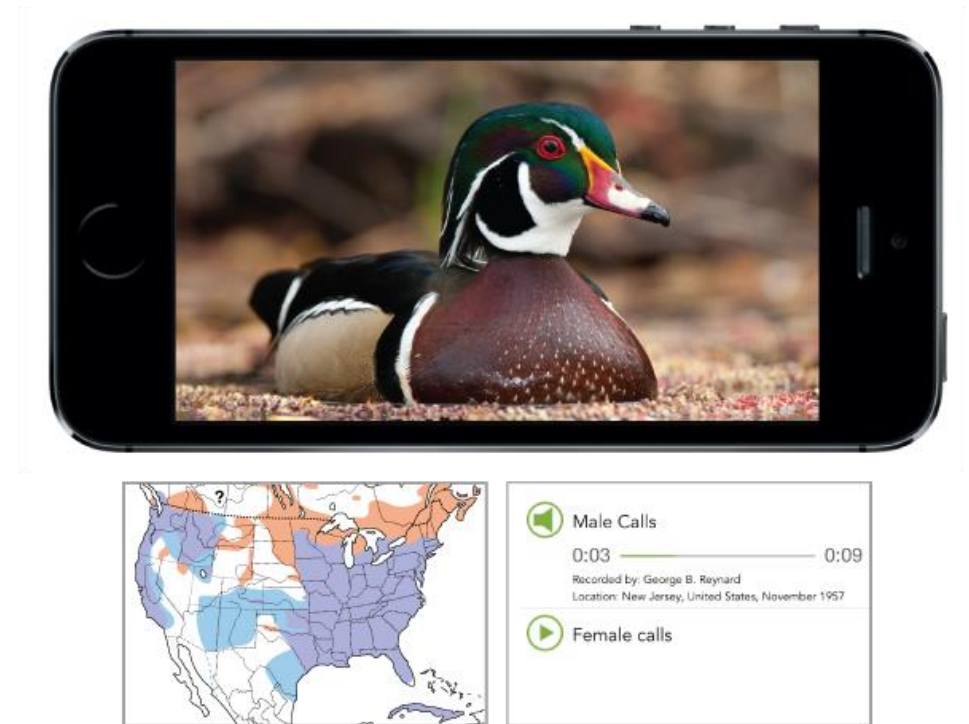
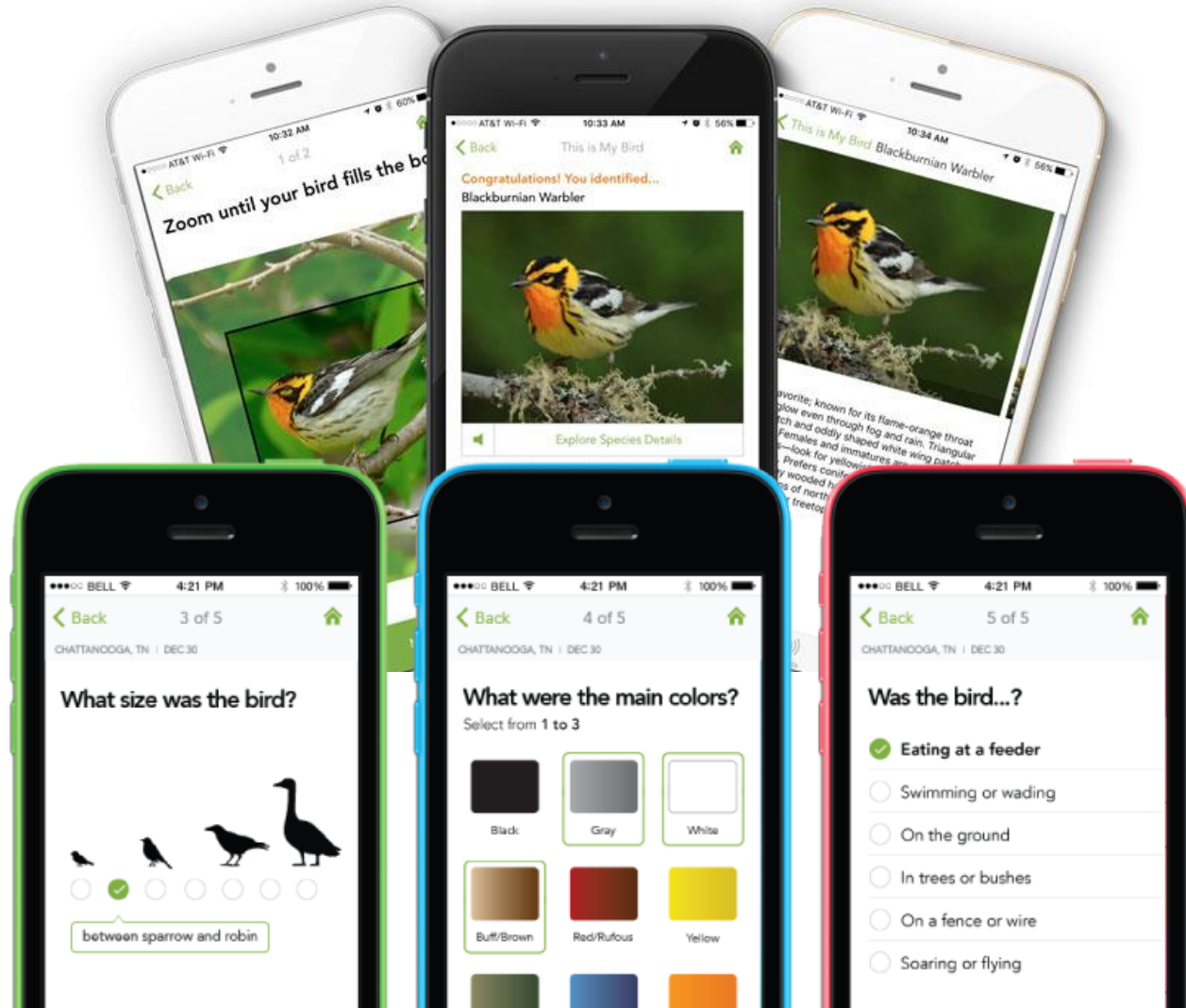
Are you submitting a **complete checklist** of the birds you were able to identify?

Yes No ?

You are using the 'Incidental' protocol and therefore birding was not your **primary purpose**. Complete checklists of birds should only be reported using another protocol option.

Submit

Bird Identification with Merlin



Data Storage

Checklist S46908897

Location 475 Egasak Street, Utqiagvik, Alaska, US (71.291, -156.795), North Slope County, Alaska, US ([Map](#))

Date and Effort Sat Jun 30, 2018 5:20 PM

Protocol: Traveling

Party Size: 4

Duration: 26 minute(s)

Distance: 0.03 mile(s)

Observers: Andrew Spencer ([List](#)), Ian Davies ([List](#)), **Matthew Strimas-Mackey**, Nathan Pieplow ([List](#))

Submitted from eBird Android, version 1.9

Species 7 species total

2	Long-tailed Duck
1	Parasitic Jaeger
16	Glaucous Gull
3	Pacific Loon
20	Hoary Redpoll
3	Lapland Longspur
12	Snow Bunting

Are you submitting a **complete checklist** of the birds you were able to identify?

Yes

- Free, permanent storage of bird monitoring data
- Managed by a team of **database experts**
- Accessible online with free tools for **visualization and analysis**
- **Downloadable**
- **Privacy options**

eBird Hotspots

< Hotspot Map

Lindsay-Parsons Biodiversity Preserve (FLLT)

Tompkins County, New York, US — [Get Directions](#)

All Months ▾ All Years ▾ [Set](#) [Submit Data](#)

Overview Recent Visits Illustrated Checklist

194 Species | 756 Checklists Updated 2 sec ago.

[Last Seen](#) [First Seen](#) [High Counts](#) [Bar Charts](#) [Printable Checklist](#) [Show All Details](#)

	SPECIES NAME ▴	COUNT ▾	DATE ▾	BY	
1	Snow Goose	103	25 Feb 2017	Eliot Miller	
2	Ross's Goose	2	14 Mar 2014	Benjamin Freeman	
	Domestic goose sp. (Domestic type)	21	21 Sep 2018	Oliver Bracko	
3	Cackling Goose	1	8 Oct 2015	Benjamin Freeman	
4	Canada Goose	13	4 Nov 2018	Diane Morton	
5	Tundra Swan	2	25 Mar 2015	Benjamin Freeman	
6	Wood Duck	1	4 Nov 2018	Diane Morton	
7	Blue-winged Teal	1	26 Jun 2018	Magnus Fiskesjö	
8	Northern Shoveler	1	17 Nov 2015	Jay McGowan	
9	Gadwall	2	25 Mar 2018	Chris Wood	
10	American Wigeon	1	16 Nov 2015	Benjamin Freeman	
11	Mallard	2	29 Sep 2018	Chris Wood	
	Mallard (Domestic type)	4	24 Apr 2016	logan kahle	
12	American Black Duck	2	25 Mar 2018	Chris Wood	
	Mallard x American Black Duck (hybrid)	1	25 Nov 2015	Benjamin Freeman	
13	Northern Pintail	2	16 Nov 2015	Benjamin Freeman	
14	Green-winged Teal	4	30 Apr 2018	J Gary Kohlenberg	

Recent Visits Checklists submitted within the last hour are not shown.

OBSERVER	DATE	SPECIES
Kathi Borgmann	6 Oct 2018	27
Michael Charnoky	6 Oct 2018	27
Jay McGowan	29 Sep 2018	36
Livia Santana	29 Sep 2018	36
Adriaan Dokter	23 Sep 2018	34
Jillian Ditner	23 Sep 2018	34
Tom Auer	23 Sep 2018	40
Oliver Bracko	21 Sep 2018	37
Luke Seitz	19 Sep 2018	49
Luke Seitz	16 Sep 2018	57

[More Recent Visits...](#)

Top eBirders Updated 2 sec ago.

BY SPECIES | BY CHECKLISTS

1	Benjamin Freeman	167
2	Jay McGowan	150
2	Alexandra Class Freeman	150
4	Chris Wood	149
5	Livia Santana	138
6	Brad Walker	120
7	Mark Chao	116
8	Tim Lenz	115
9	J Gary Kohlenberg	113


- eBird hotspots are public birding locations visited by multiple people over time
- Aggregate data across an entire property
- Engage birders to collect data on your land
- Your land may already be a hotspot!

Decision Support

Explore Species

Maps, stats, photos, and sounds for any bird in the world, including personalized stats based on your eBirding


 Enter species name

 Surprise me!

Explore Regions

Recent sightings, checklists, birding activity, best hotspots, and top birders for a county, state, province, or country

 Enter a county, state, province, or country

 National Wildlife Refuges

Major Regions ▼

MORE WAYS TO EXPLORE



Species Maps

Explore interactive range maps by species or subspecies — zoom in for details



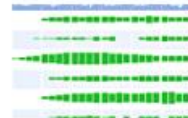
Search photos and sounds

Explore media through the Macaulay Library



Explore Hotspots

Discover the best places for birding nearby or around the world.



Bar Charts

Find out what birds to expect throughout the year in a region or location

SPECIES YOU NEED



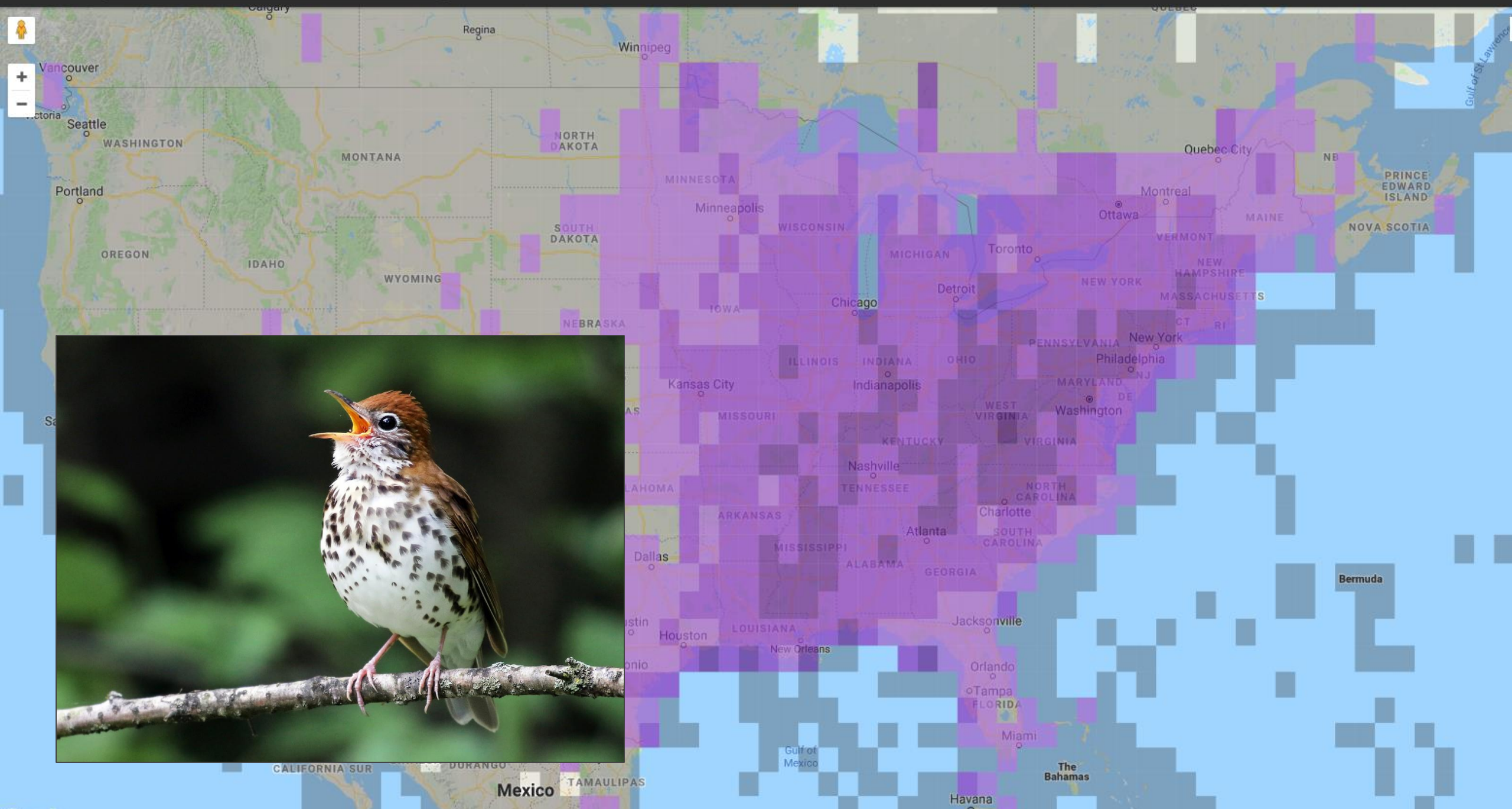
Target Species

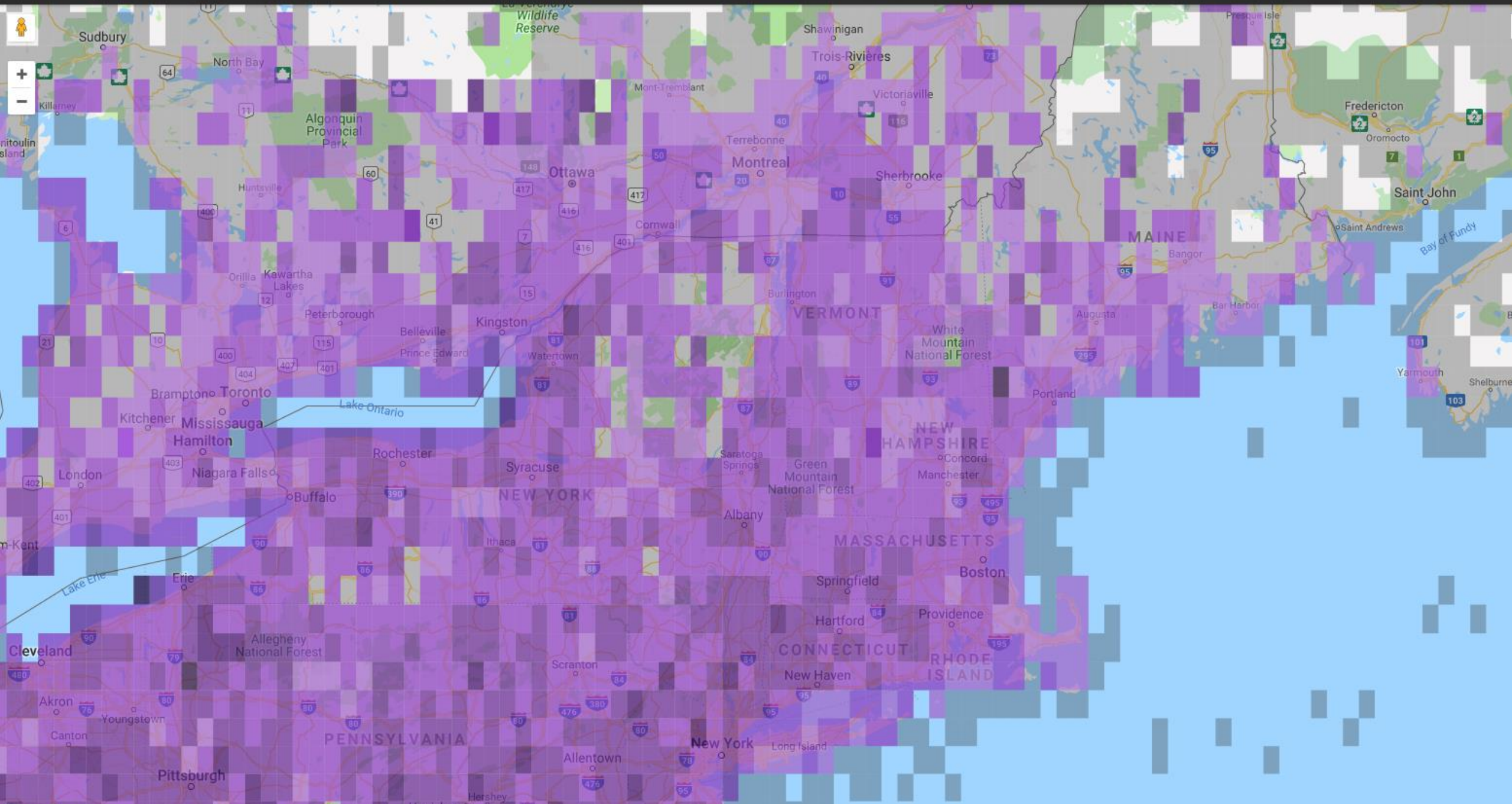
Prioritized list of county, state, or life birds that you can expect to find in a region

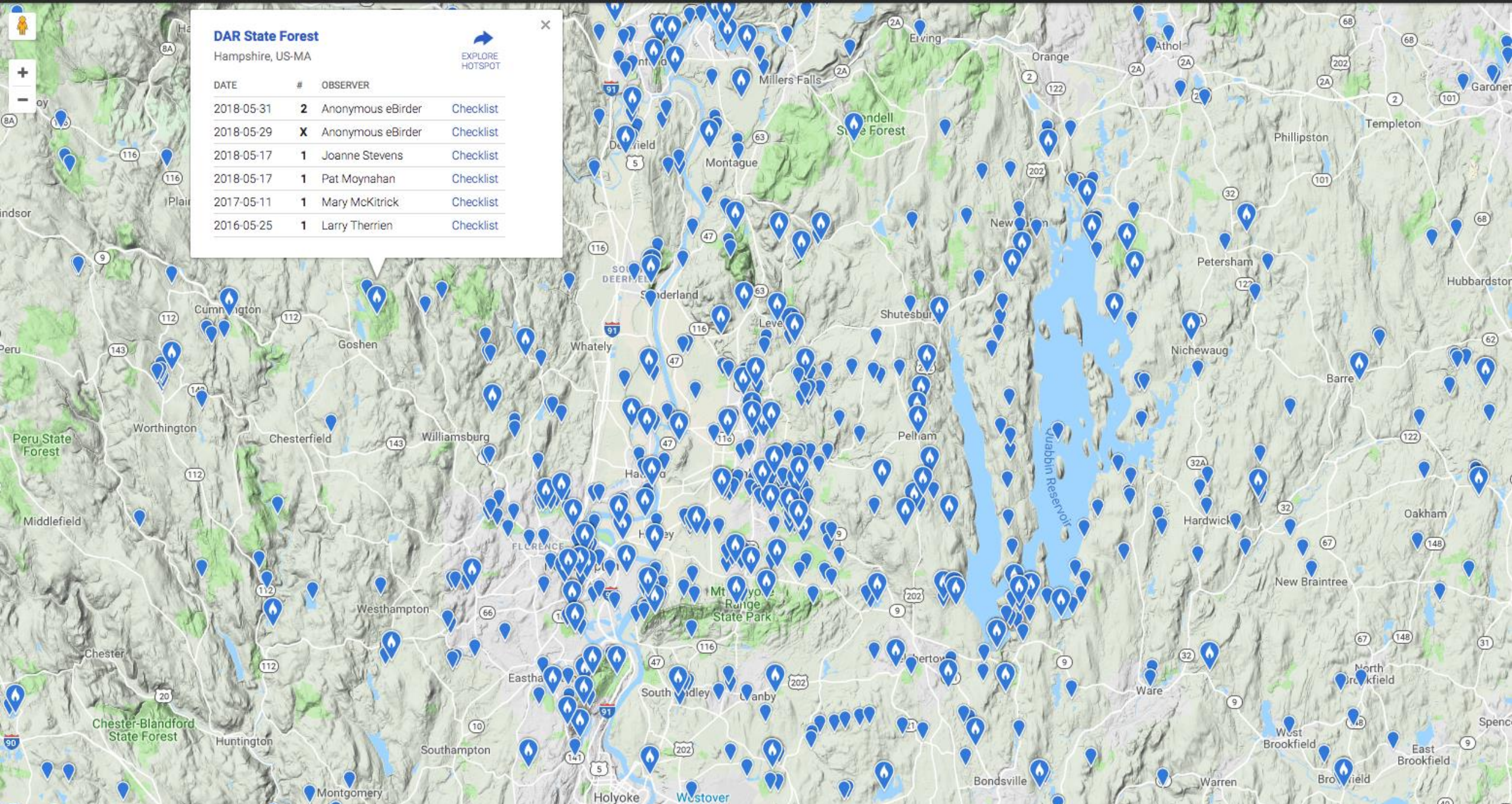


Alerts

Reports and email alerts for rarities and species you haven't seen







DAR State Forest

Hampshire, US-MA

EXPLORE HOTSPOT

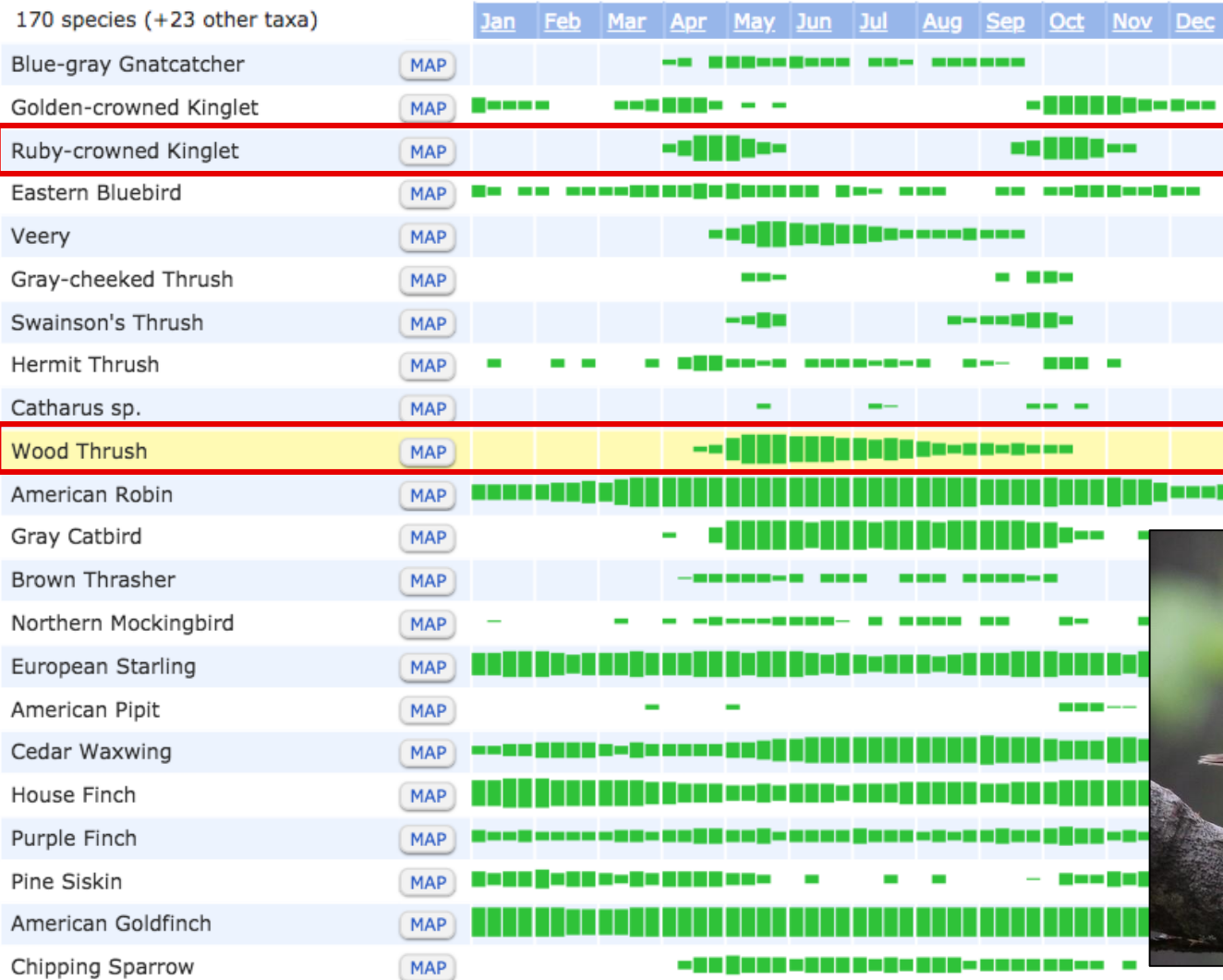
DATE	#	OBSERVER	
2018-05-31	2	Anonymous eBirder	Checklist
2018-05-29	X	Anonymous eBirder	Checklist
2018-05-17	1	Joanne Stevens	Checklist
2018-05-17	1	Pat Moynahan	Checklist
2017-05-11	1	Mary McKittrick	Checklist
2016-05-25	1	Larry Therrien	Checklist

Bird Observations

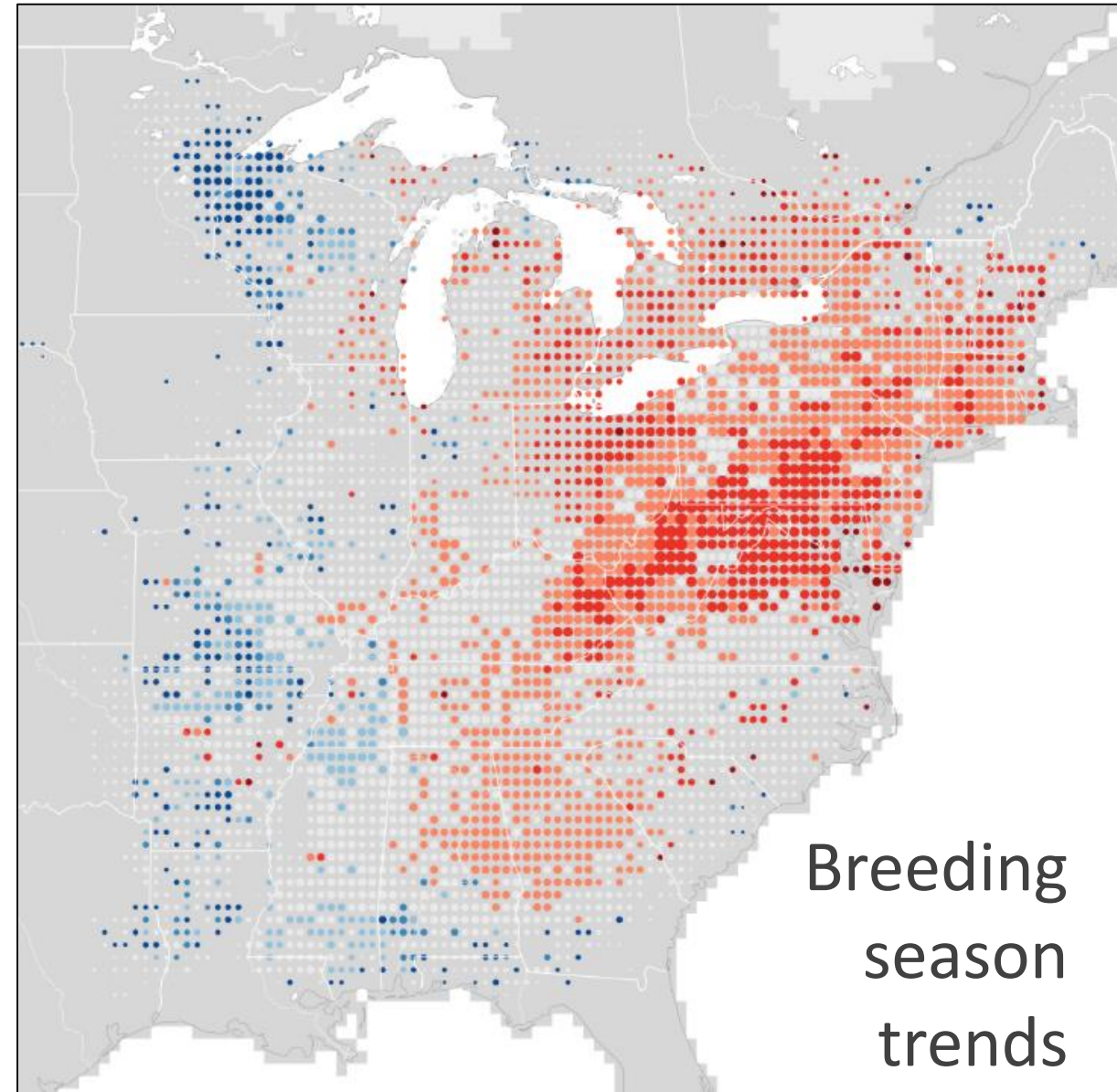
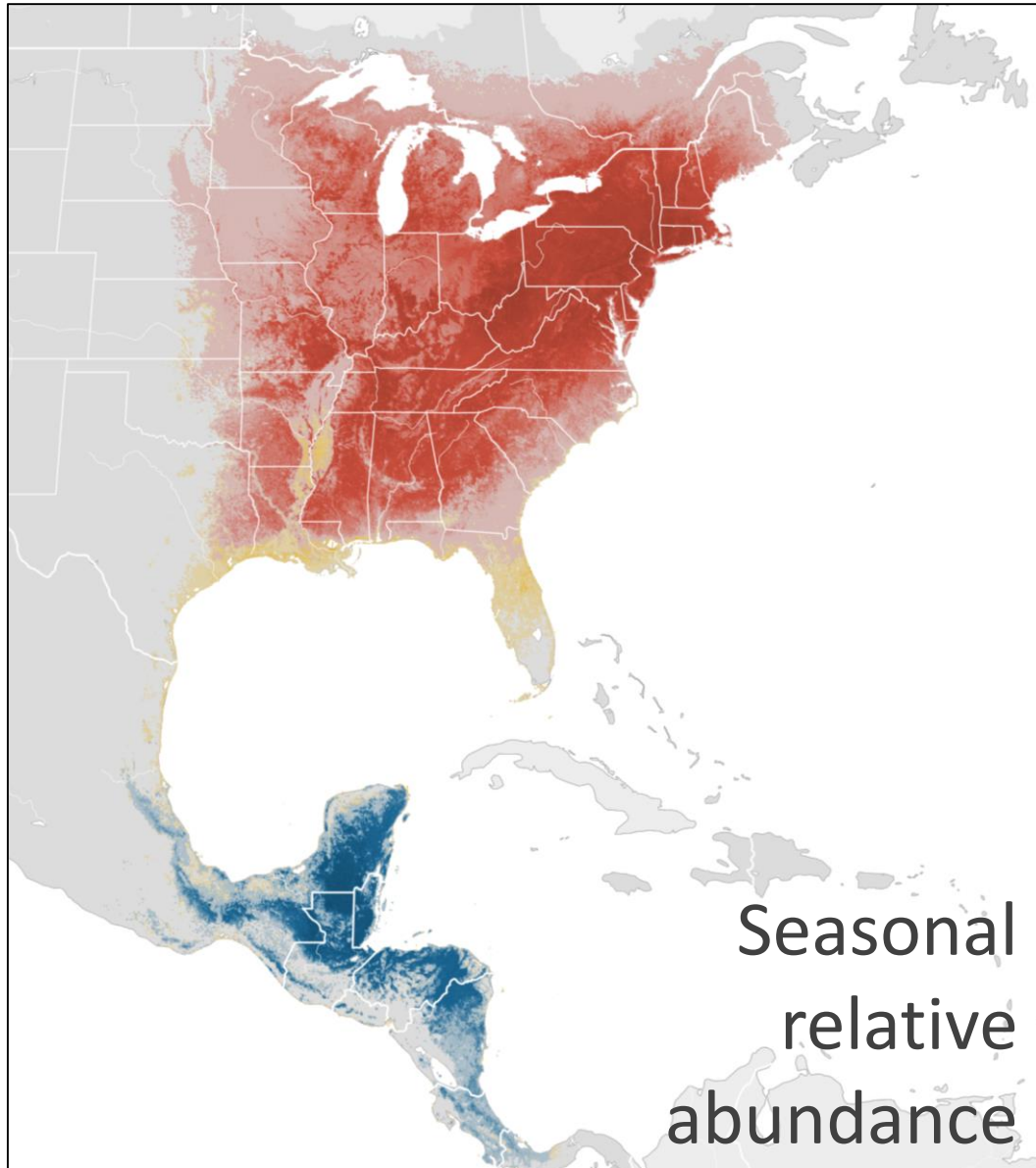
▼ **Date Range:**
May, 2008-2018

Sapsucker Woods

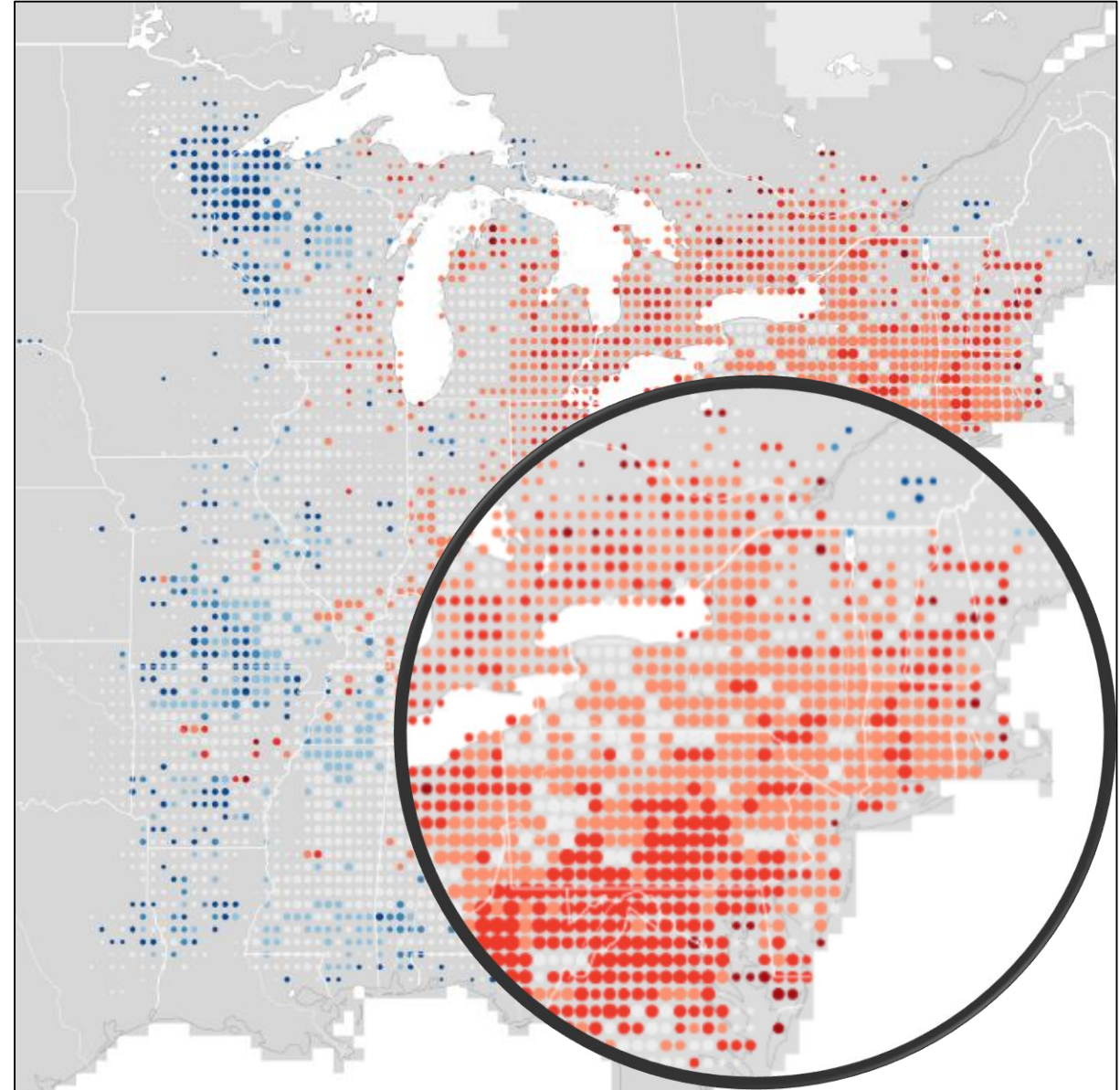
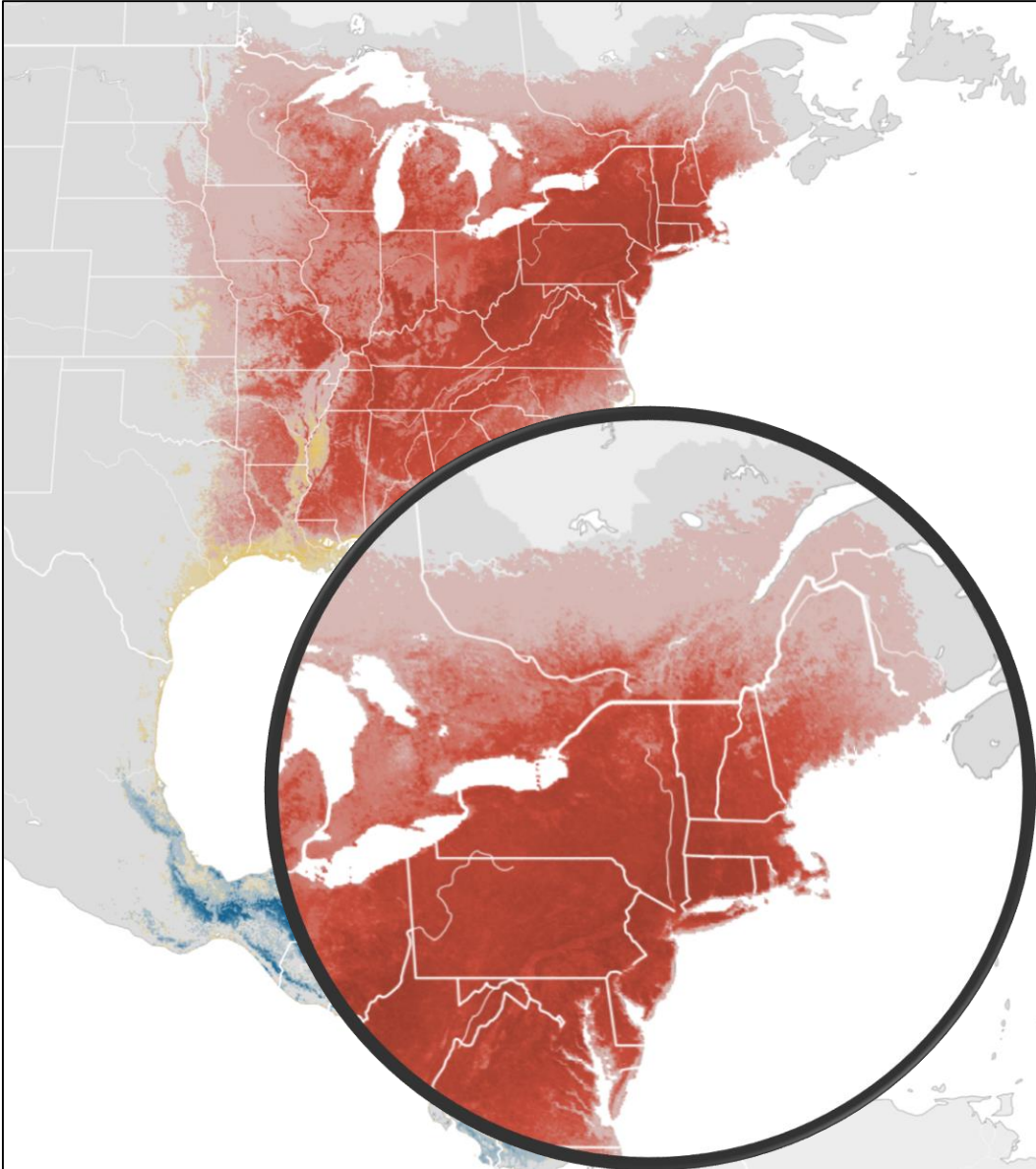
170 species (+23 other taxa)



Modeled results: Wood Thrush



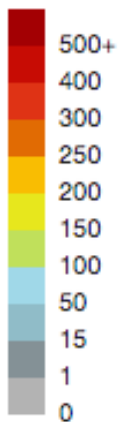
Modeled results: Wood Thrush



3

Engagement

species



BHI--World's End, Hingham (TTOR)

Plymouth, US-MA

Year-round, All Years

234

SPECIES

914

CHECKLISTS

[Bar Charts](#) | [High Counts](#) | [Directions](#)

[Submit Data](#)

[View Details](#)

BHI--World's End, Hingham (TTOR)

Plymouth County, Massachusetts, US — [Get Directions](#)

All Months ▾

All Years ▾

Set

Submit Data

Overview

Recent Visits

Illustrated Checklist

234 Species | 914 Checklists

Updated 13 sec ago.

Last Seen

First Seen

High Counts

Bar Charts ➔

Printable Checklist ➔

Show All Details

	SPECIES NAME ▲	COUNT ▼	DATE ▼	BY	
1	Snow Goose	1	19 Nov 2000	Dennis Peacock	💬
2	Brant	2	11 May 2018	Philip Edmundson	
3	Canada Goose	16	27 Aug 2018	David MacDougall	
4	Mute Swan	2	15 Dec 2017	Marshall Iliff	
5	Wood Duck	2	6 Oct 2018	Marshall Iliff	💬
6	Blue-winged Teal	X	14 Apr 1991	Peter Norton	
7	Northern Shoveler	2	14 Apr 1989	Joanne Norton	
8	Gadwall	1	21 Dec 2017	Sally Avery	
9	American Wigeon	1	30 Dec 2016	Nick Zanussi	
10	Mallard	2	22 Oct 2018	Kathleen Rawdon	
	Mallard (Domestic type)	10	17 Dec 2017	Anonymous eBirder	
11	American Black Duck	2	30 Oct 2018	David MacDougall	
	Mallard x American Black Duck (hybrid)	1	16 Dec 2017	Sally Chisholm	
	Mallard/American Black Duck	4	8 Apr 2018	Timothy Lenehan	
12	Northern Pintail	1	19 Nov 2014	Sean Williams	
13	Green-winged Teal	1	21 Oct 2015	Sean Williams	
14	Ring-necked Duck	X	22 Mar 1991	Jeff Peters	
15	Greater Scaup	6	4 Jan 2017	Steven Lamonde	



Recent Visits

Checklists submitted within the last hour are not shown.

OBSERVER	DATE	SPECIES
David MacDougall	30 Oct 2018	28
Ellen Freda	26 Oct 2018	19
Kathleen Rawdon	22 Oct 2018	27
Bradford Bower	19 Oct 2018	9
Bradford Bower	19 Oct 2018	17
Kathleen Rawdon	8 Oct 2018	20
Marshall Iliff	6 Oct 2018	25
Christine Whitebread	4 Oct 2018	4
	4 Oct 2018	4
David MacDougall	4 Oct 2018	15

[More Recent Visits...](#)

Top eBirders

BY SPECIES | BY CHECKLISTS

Updated 13 sec ago.

1	Joanne Norton	155
2	Matthew Dearman	151
3	Philip Edmundson	145
4	Glenn d'Entremont	144
5	Charlie Nims	136
6	Marshall Iliff	135
7	Sean Williams	129
8	Ellen Freda	123
9	Kathleen Rawdon	122
10	Sally Chisholm	118

Jump to Species

[All Media](#)

234

Species observed

26

Species w/ photos

2

Species w/ audio

208

Species needing photos

232

Species needing audio

Bufflehead



Last seen: [30 Oct 2018](#) by David MacDougall



© Sally Chisholm



Audio needed
[Contribute yours](#)

More: [1](#)

Wild Turkey



Last seen: [27 Jun 2018](#) by John Murphy



© Steven Lamonde



Audio needed
[Contribute yours](#)

More: [1](#)

Chimney Swift



Last seen: [18 Jul 2018](#) by Christine Whitebread



© Steven Lamonde



Audio needed
[Contribute yours](#)

More: [1](#)

Greater Yellowlegs



Last seen: [26 Oct 2018](#) by Ellen Freda



© Kenneth Scott



Audio needed
[Contribute yours](#)

More: [1](#)

eBird Field Checklist

BHI--World's End, Hingham (TTOR)

Plymouth, Massachusetts, US

ebird.org/hotspot/L140447

234 species (+34 other taxa) - Year-round, All Years

Date: _____
Start Time: _____
Duration: _____
Distance: _____
Party Size: _____
Notes: _____

This checklist is generated with data from eBird (ebird.org), a global database of bird sightings from birders like you. If you enjoy this checklist, please consider contributing your sightings to eBird. It is 100% free to take part, and your observations will help support birders, researchers, and conservationists worldwide.

Go to ebird.org to learn more!

Waterfowl

___ Snow Goose
___ Brant
___ Canada Goose
___ Mute Swan
___ Wood Duck
___ Blue-winged Teal
___ Northern Shoveler
___ Gadwall
___ American Wigeon
___ Mallard
___ Mallard (Domestic type)
___ American Black Duck
___ Mallard x American Black Duck (hybrid)
___ Mallard/American Black Duck
___ Northern Pintail
___ Green-winged Teal
___ Ring-necked Duck
___ Greater Scaup
___ Lesser Scaup
___ Greater/Lesser Scaup
___ King Eider
___ Common Eider
___ Surf Scoter
___ White-winged Scoter
___ Black Scoter
___ Surf/Black Scoter
___ scoter sp.
___ Long-tailed Duck
___ Bufflehead

___ Great Black-backed Gull
___ Herring x Great Black-backed Gull (hybrid)
___ gull sp.
___ Least Tern
___ Roseate Tern
___ Common Tern
___ Sterna sp.
___ tern sp.

Loons

___ Red-throated Loon
___ Common Loon
___ loon sp.

Frigatebirds, Boobies, and Gannets

___ Northern Gannet

Cormorants and Anhingas

___ Great Cormorant
___ Double-crested Cormorant
___ cormorant sp.

___ Common Goldeneye
___ Hooded Merganser
___ Common Merganser
___ Red-breasted Merganser
___ Common/Red-breasted Merganser
___ Ruddy Duck
___ duck sp.

Grouse, Quail, and Allies

___ Northern Bobwhite
___ Ring-necked Pheasant
___ Ruffed Grouse
___ Wild Turkey

Grebes

___ Pied-billed Grebe
___ Horned Grebe
___ Red-necked Grebe

Pigeons and Doves

___ Rock Pigeon
___ Mourning Dove

Cuckoos

___ Yellow-billed Cuckoo
___ Black-billed Cuckoo

Swifts

___ Chimney Swift

Hummingbirds

___ Ruby-throated Hummingbird

Shorebirds

___ American Oystercatcher
___ Black-bellied Plover
___ Semipalmated Plover

___ Osprey
___ Northern Harrier
___ Sharp-shinned Hawk
___ Cooper's Hawk
___ Sharp-shinned/Cooper's Hawk
___ Accipiter sp.
___ Bald Eagle
___ Red-shouldered Hawk
___ Broad-winged Hawk
___ Red-tailed Hawk
___ Rough-legged Hawk
___ Buteo sp.
___ hawk sp.

Owls

___ Eastern Screech-Owl
___ Great Horned Owl
___ owl sp.

Kingfishers

___ Belted Kingfisher

Alcids

___ Thick-billed Murre
___ Razorbill

Gulls, Terns, and Skimmers

___ Bonaparte's Gull
___ Laughing Gull
___ Ring-billed Gull
___ Herring Gull
___ Iceland Gull
___ Lesser Black-backed Gull

___ Merlin
___ Peregrine Falcon
___ falcon sp.

Tyrant Flycatchers: Pewees, Kingbirds, and Allies

___ Olive-sided Flycatcher
___ Eastern Wood-Pewee
___ Yellow-bellied Flycatcher
___ Alder Flycatcher
___ Willow Flycatcher
___ Least Flycatcher
___ Eastern Phoebe
___ Great Crested Flycatcher
___ Tropical Kingbird
___ Eastern Kingbird

Vireos

___ White-eyed Vireo
___ Yellow-throated Vireo
___ Blue-headed Vireo
___ Philadelphia Vireo
___ Warbling Vireo
___ Red-eyed Vireo

Jays, Magpies, Crows, and Ravens

___ Blue Jay
___ American Crow
___ Fish Crow
___ crow sp.
___ Common Raven

Larks

___ Horned Lark

Herons, Ibis, and Allies

___ Great Blue Heron
___ Great Egret
___ Snowy Egret
___ Little Blue Heron
___ Tricolored Heron
___ Green Heron
___ Black-crowned Night-Heron
___ Glossy Ibis

Vultures, Hawks, and Allies

___ Black Vulture
___ Turkey Vulture

Martins and Swallows

___ Northern Rough-winged Swallow
___ Purple Martin
___ Tree Swallow
___ Bank Swallow
___ Barn Swallow
___ swallow sp.

Tits, Chickadees, and Titmice

___ Black-capped Chickadee
___ Tufted Titmouse

Nuthatches

___ Red-breasted Nuthatch
___ White-breasted Nuthatch

Treecreepers

___ Brown Creeper

Wrens

___ House Wren
___ Winter Wren
___ Marsh Wren
___ Carolina Wren

Gnatcatchers

___ Blue-gray Gnatcatcher

Kinglets

___ Golden-crowned Kinglet
___ Ruby-crowned Kinglet

Thrushes

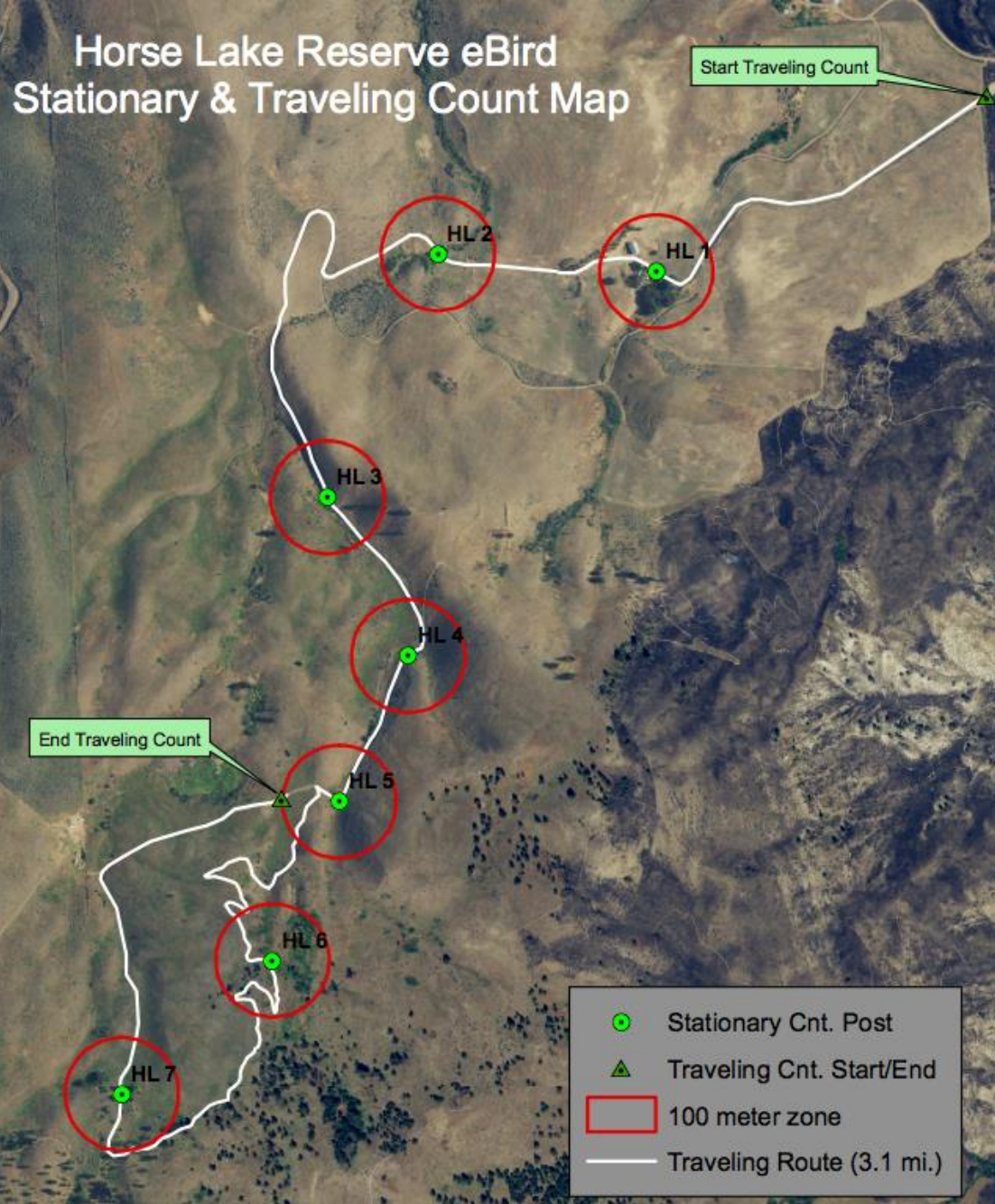
___ Eastern Bluebird
___ Townsend's Solitaire
___ Veery
___ Gray-cheeked/Bicknell's Thrush

eBird in Action: Chelan-Douglas Land Trust



- Developed a successful bird monitoring program using eBird
- Network of stationary counts created on two properties, with permanent eBird signs at each
- Monthly bird surveys to collect data and introduce eBird
- Data used to inform and evaluate management

Horse Lake Reserve eBird Stationary & Traveling Count Map



Instructions: Horse Lake Reserve eBird route

Thank you for volunteering to be a citizen scientist, recording, entering, and sharing eBird data with CDLT. You will help us learn about patterns of bird use over time at Horse Lake Reserve. Our questions include:

- Which species of birds use each habitat types?
- How will bird use change over time, after the 2012 and 2015 wildfires?
- How do migrating birds use the preserve during spring and fall?
- How do birds use the preserve as nesting and rearing for young?

The CDLT protocol includes seven 10-minute Stationary Counts (HL 1-HL7) and a one-way HL Traveling Count. If you start but don't have time to finish the project protocol, you can enter any collected data using the Horse Lake Reserve (CDLT) eBird hotspot.

Time of day: Our goal is for observations to be completed between 6:00am and 11:00am during Daylight savings time (April-Sept) and between 8:00am-1:00pm during Standard time, (Sept.-Nov.)

Total time & distance: The round-trip walking time takes 4-5 hours. Total walking round-trip distance is 5.3 miles. The one-way traveling count route is 3.1 miles.

Road Access: The property is closed and county-owned Horse Lake Road is gated at the end of the payment from Dec. 1 to April 1. Additionally, the county may choose to close the road after a storm event any month of the year in order to prevent roadbed damage. Call the CDLT Office to check on road conditions (509.667.9708).

Think Safety-First!

- It is best to have at least one other person accompany you.
- Print and take hardcopies of the project maps with you – provided with this protocol.
- Do not drive the narrow, steep, unimproved Horse Lake county road within 24-hours of a rainstorm. Several sections of roadbed are dangerous due to slippery clay. If a rainstorm starts during your bird count, immediately return to your vehicle and depart.
- Horse Lake weather is unpredictable and often very windy. Be prepared: bring water, food, sun protection, layers of clothing, a first-aid kit. Wear sturdy footwear. The property has good cell phone coverage.
- Be ready to see and protect all wildlife, including snakes. You will be walking on a footpath, able to see and easily avoid snakes.
- Take notes of any vandalism or problems you encounter and report these to CDLT.

Print forms to take to the field:

- Map of entire property showing the one-way Traveling Count and the seven Stationary Counts.



By Ben Brooks

2015 Chelan Wildfire

- Horse Lake Reserve bird surveys provided a pre-fire baseline
- Survey data inform adaptive management practices in the wake of the fire
- How will birds' use of the landscape change over time?
- When will shrub-breeding birds return to the landscape?

eBird for RCPs

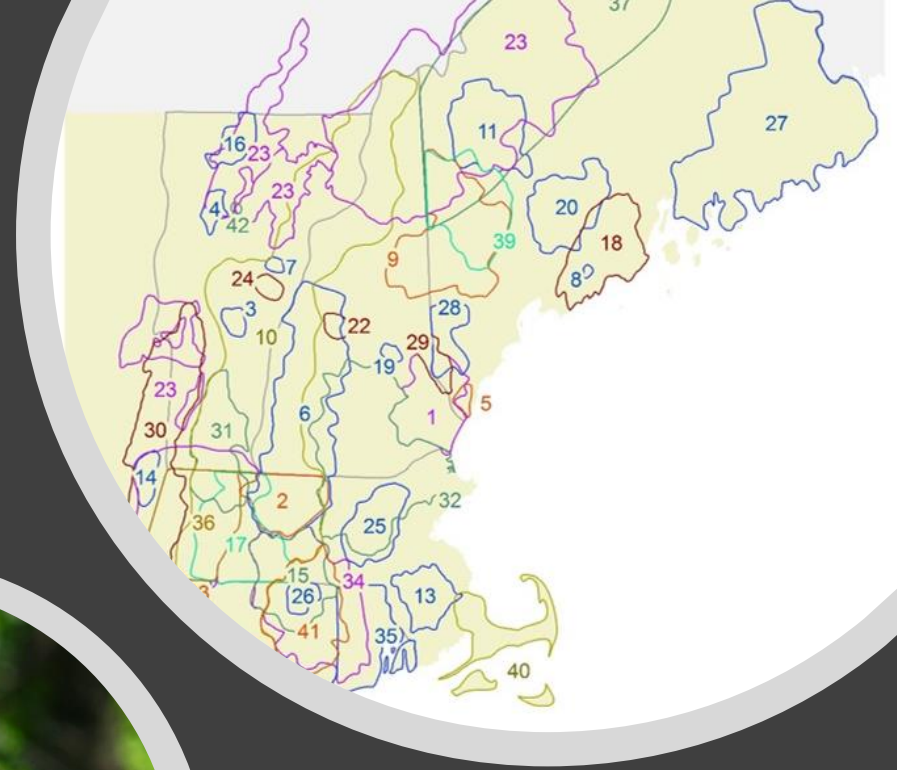
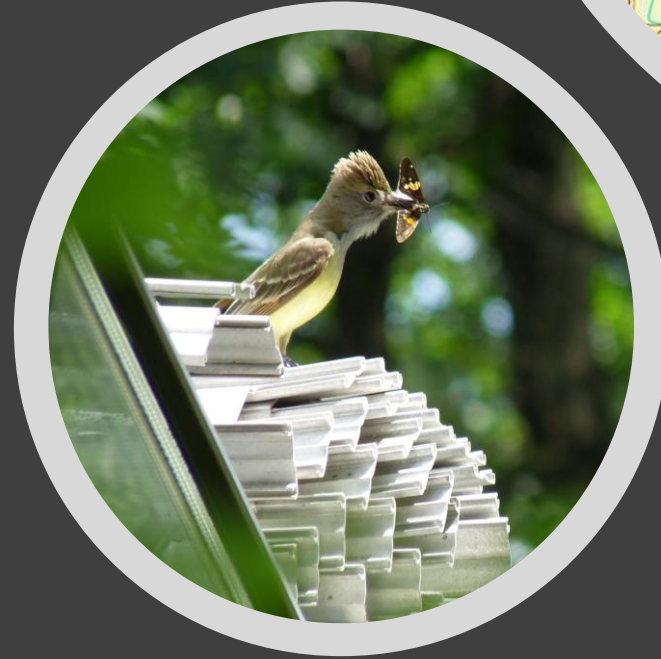
Benefits of using eBird for your RCP:

- Tools for **monitoring** birds
- Permanent **data storage**
- **Decision support** tools
- Evaluate **management actions**
- Inform **grant applications**
- **Engage** citizen scientists

Draft Initiative Goals

Goal 1.

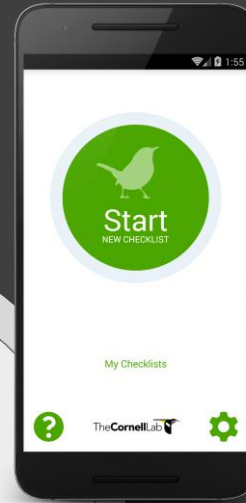
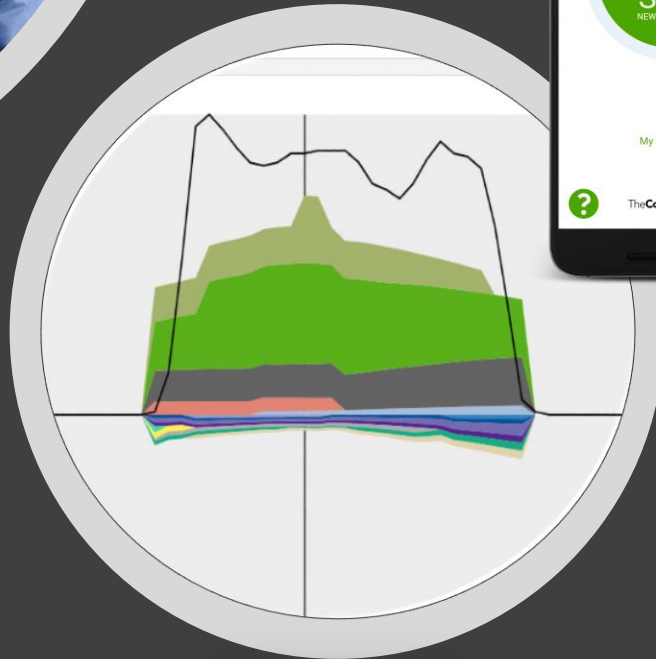
Raise consciousness about the importance of birds where RCPs work, and awareness of how bird conservation can help advance regional priorities



Draft Initiative Goals

Goal 2.

Encourage RCPs to adopt eBird as a tool for monitoring, decision-making, and engagement



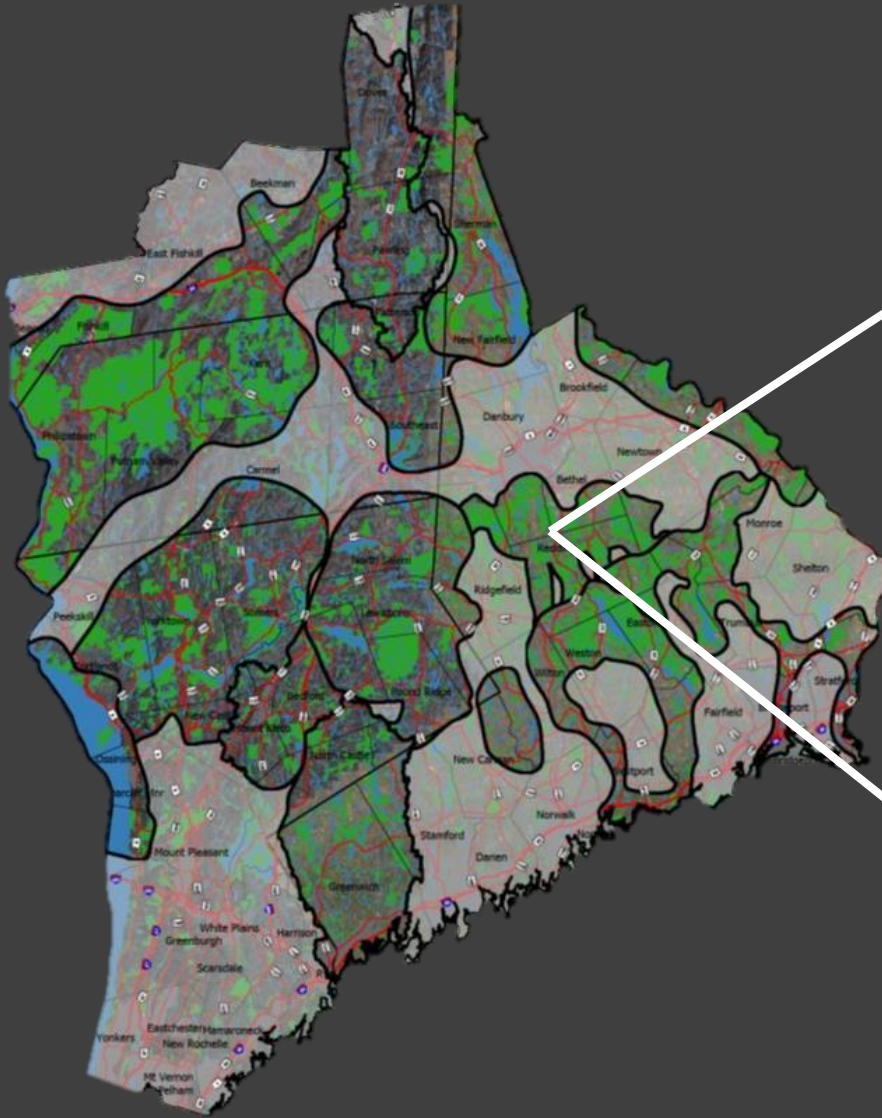
Draft Initiative Goals

Goal 3.

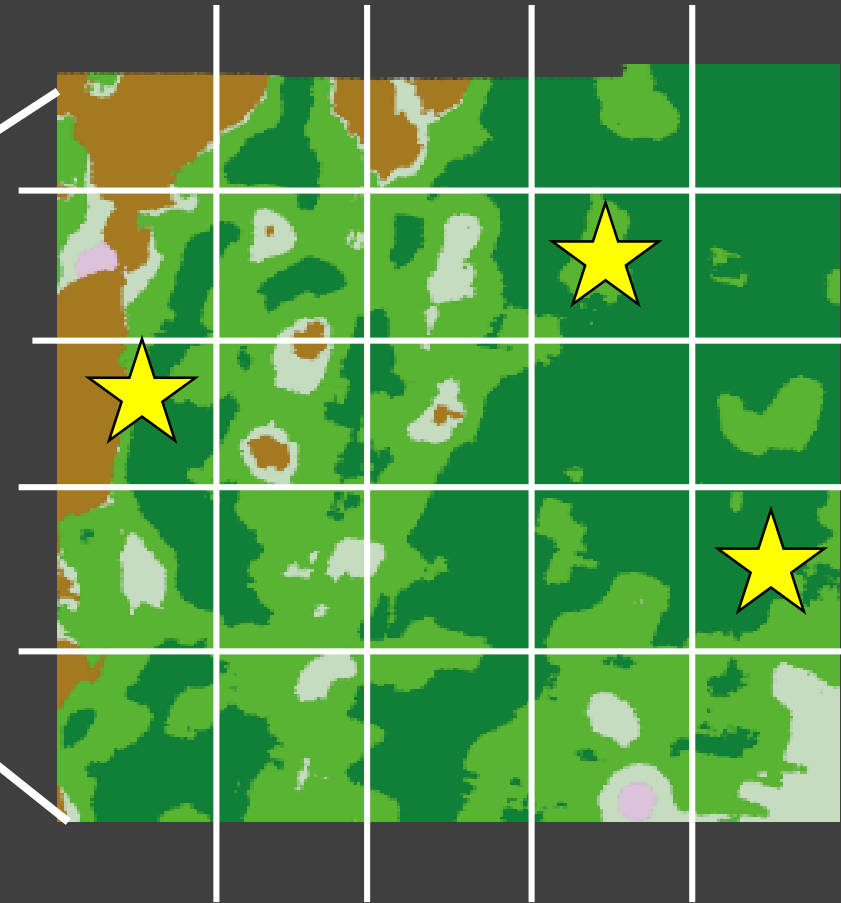
Improve and conserve habitats that support populations of two or more target species in New England and eastern New York



**ID forest and grassland patches of highest
habitat value and greatest threat**



Start with RCP Priorities

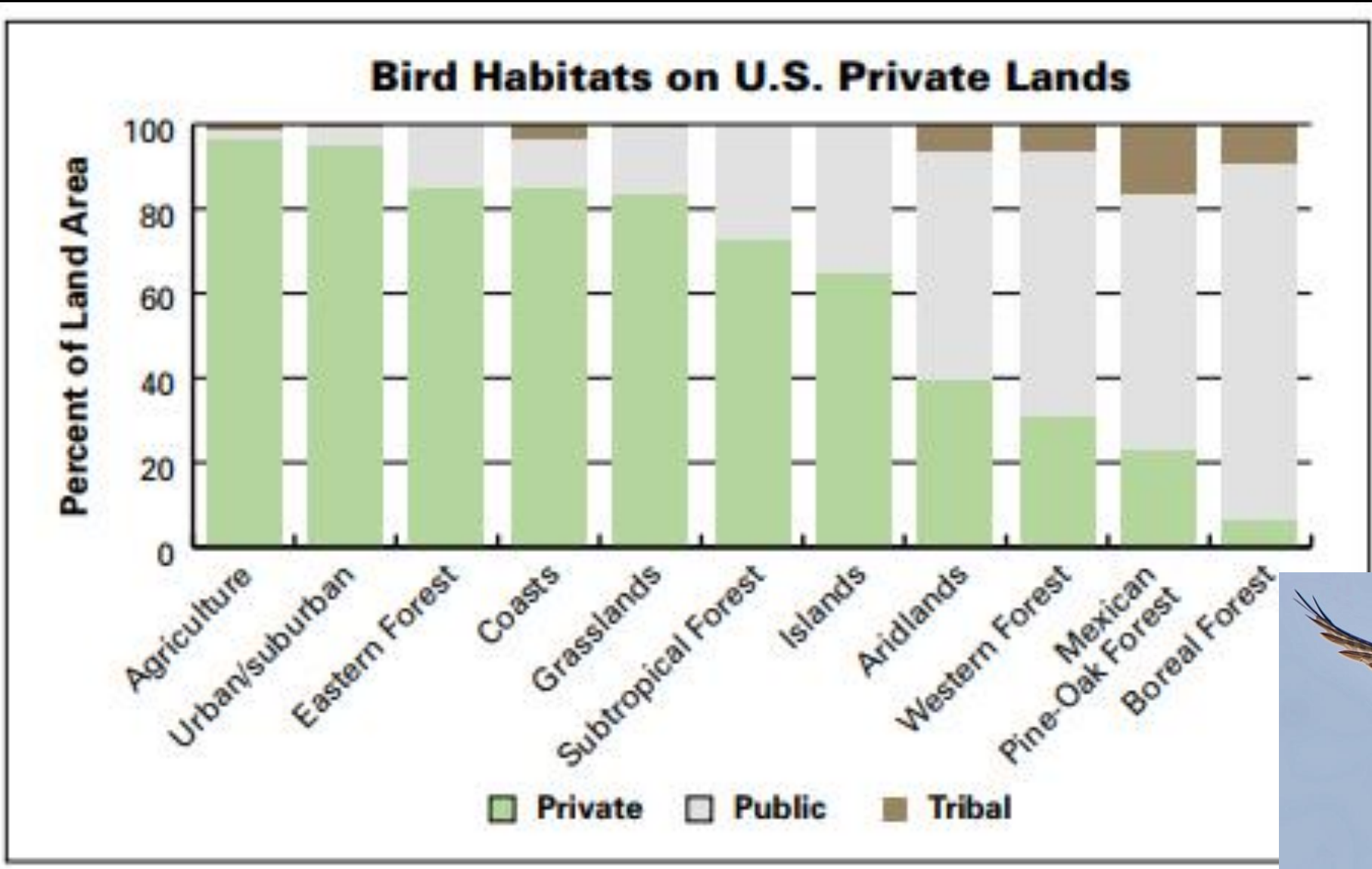


**Targeted land
protection and
stewardship
actions**

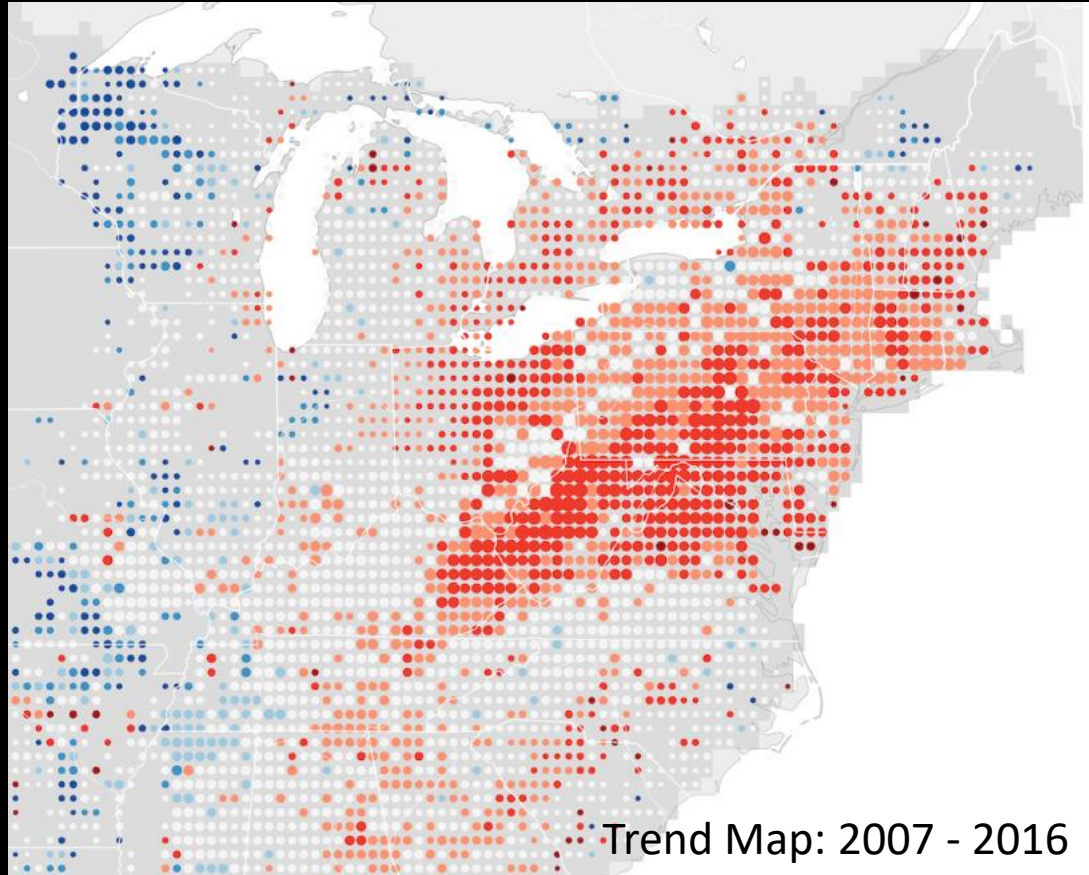
eBird

Land Use and Cover
Future Scenarios

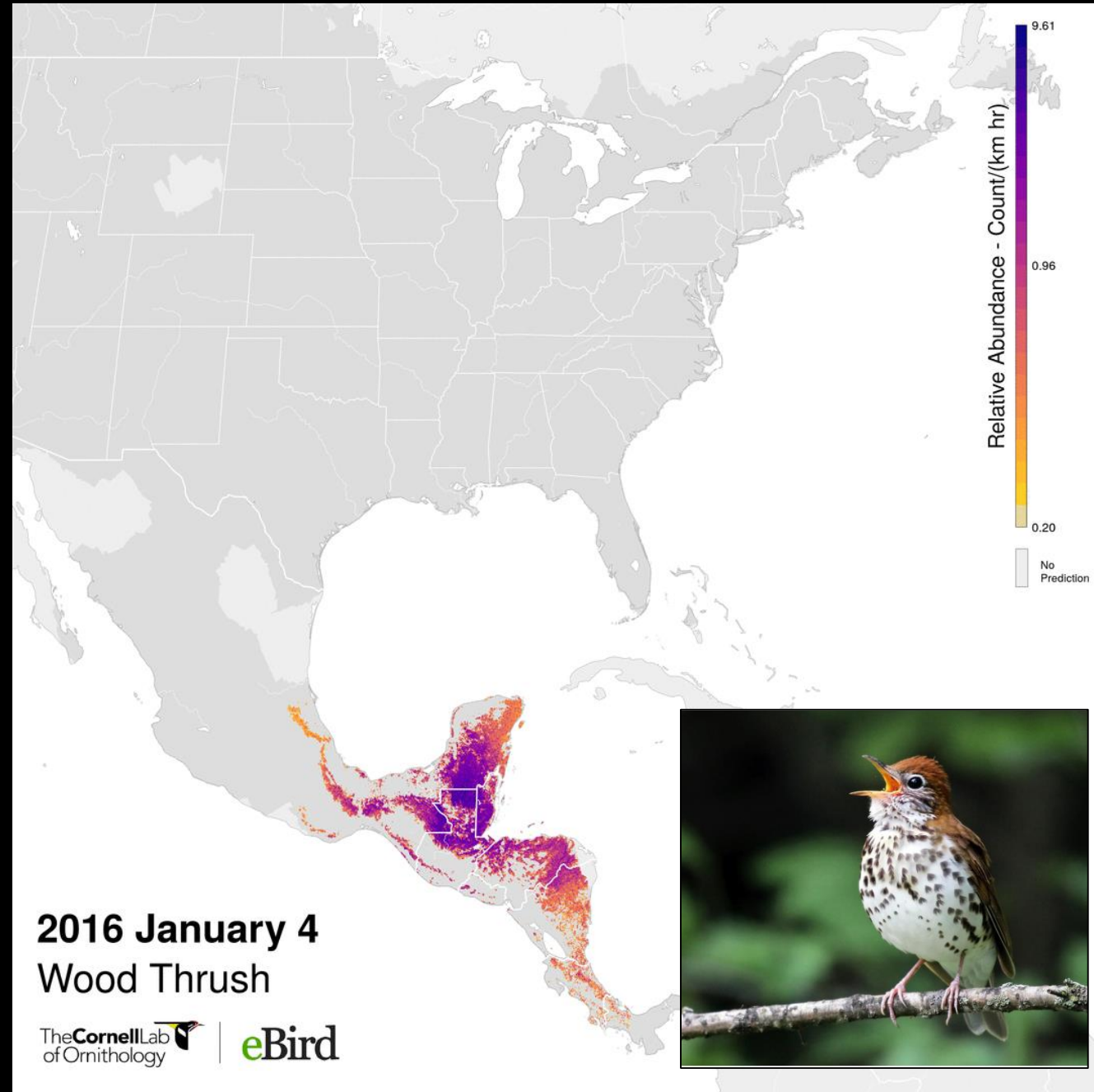
Why American Kestrel and Wood Thrush?



Why Wood Thrush?



- 50% decline since 1965 (BBS)
- Accelerated declines in north of range and higher elevations
- PIF Watchlist / threatened in Canada

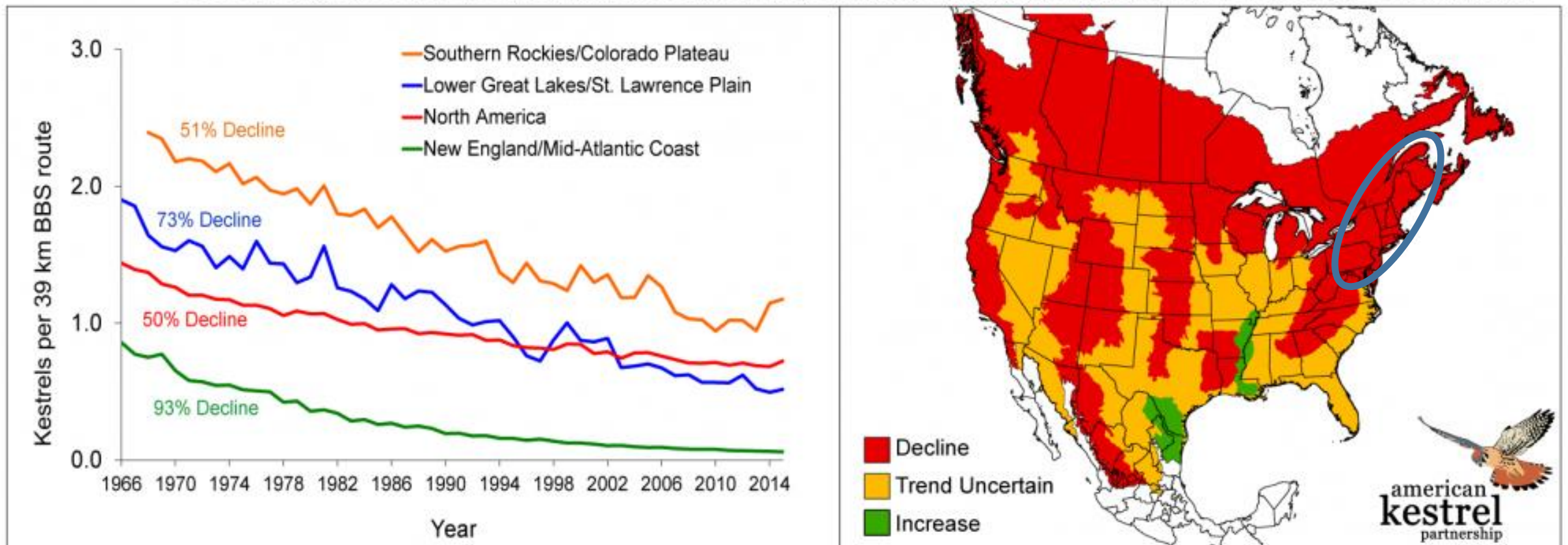


Why American Kestrel?

- 50% range-wide, 93% decline in New England and mid-Atlantic from 1966 to 2015 (BBS data)
- Declines attributed to land clearing, “clean” farming practices, and pesticides



USGS Breeding Bird Survey (BBS) Data Indicate Long-term (left) and Range-wide (right) American Kestrel Declines Across North America



Steward for Wood Thrush and Kestrel

WOOD THRUSH = employ silvicultural techniques in eastern forests

- Create age class and structural diversity

(BMP guide: Managing Wood Thrush Habitat in the Northeast and Mid-Atlantic Regions; Audubon Vermont: Forester's for the Birds Project)

- Open canopy to allow more light to build understory structure



KESTREL = manage in agricultural and open lands

- Install nest boxes
- Keep fence rows and posts
- Minimize pesticide use, especially in ag lands
- Incorporate delayed mowing programs in line with other grassland birds



Breakout Group Questions

- How are you already engaging with birds and bird conservation?
- How can you imagine your RCP or organization working with eBird?
- What do you like about the bird habitat conservation initiative and what would you change or encourage us to consider?