



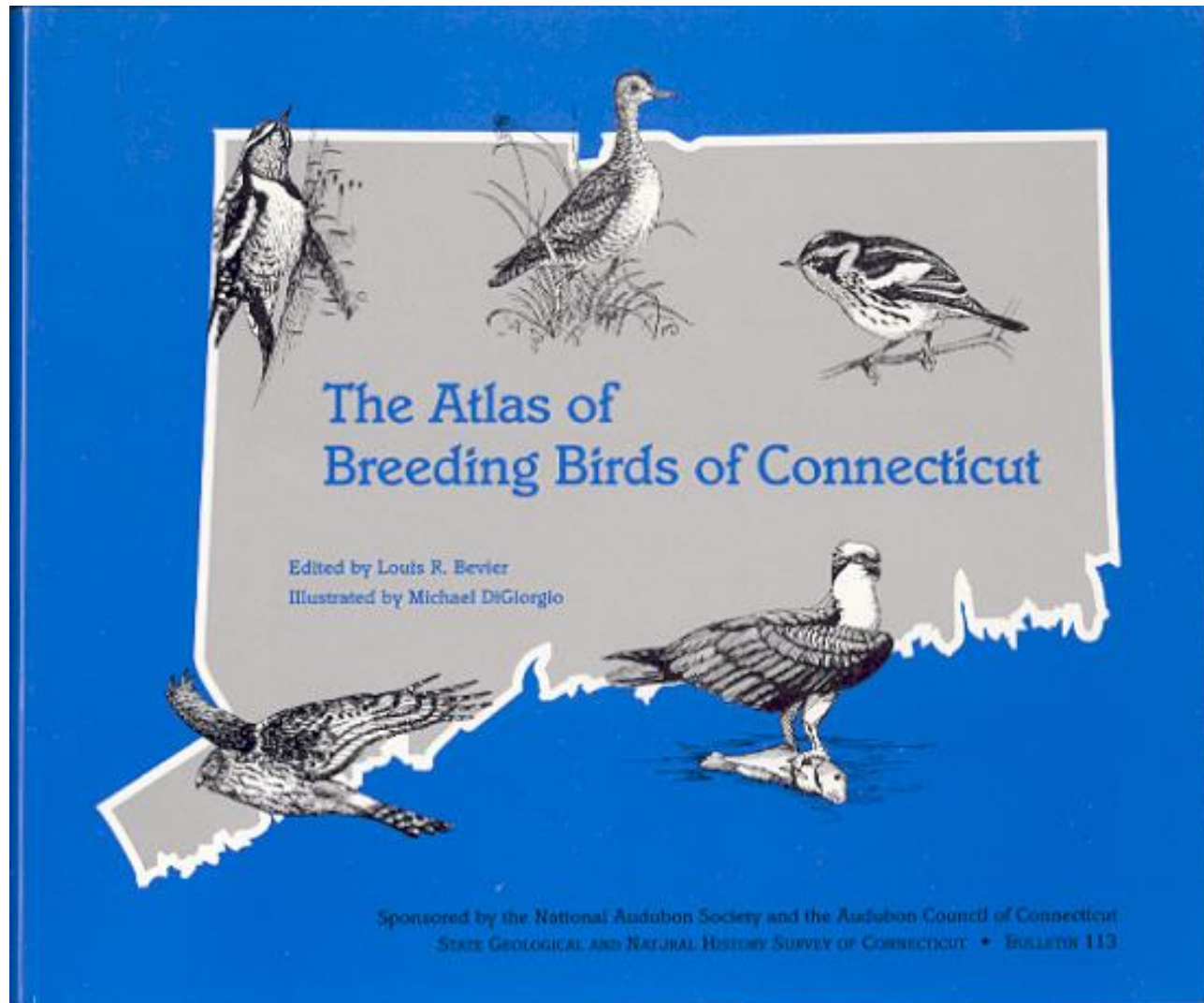
Atlas of the Breeding Birds of Nevada

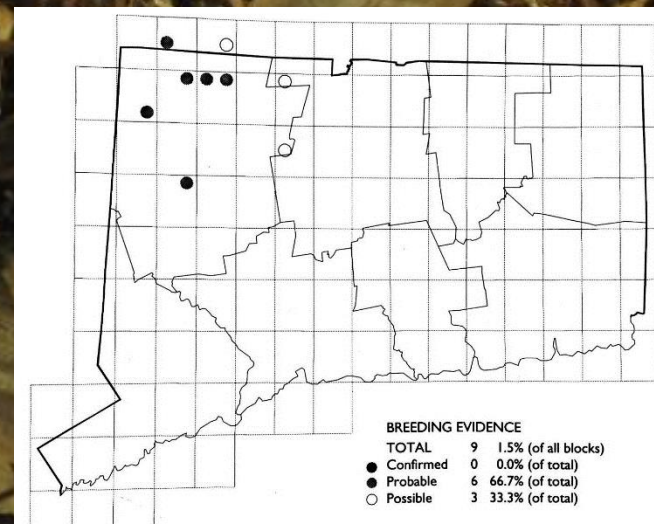
WITH FOREWORDS BY
Senator Harry Reid
& *C. Richard Tracy*

Ted Floyd
Chris S. Elphick
Graham Chisholm
Kevin Mack
Robert G. Elston
Elisabeth M. Ammon
& *John D. Boone*



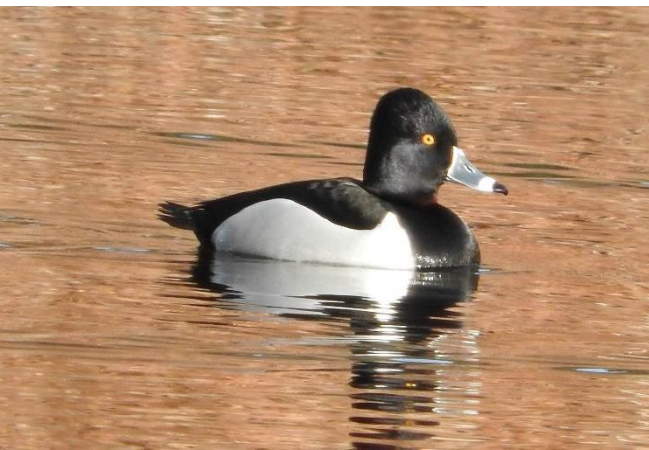
1982-1986





Project goals

- Describe breeding bird distribution and abundance
- Document changes since the last atlas
- Describe wintering distributions
- Stopover habitat use ~~(we hope)~~
- Understand where species occur on the landscape
- Develop an interactive web site for updating and data retrieval



Major funding



Connecticut
Ornithological
Association



... plus may other contributions ...

Birders make atlases possible



Your time and miles count as funding match

**Please fill out a volunteer effort form every
time you go out and collect atlas data**

**[http://ctbirdatlas.com/PDF/BBA-Volunteer-
Form.pdf](http://ctbirdatlas.com/PDF/BBA-Volunteer-Form.pdf)**

ctbirdatlas.org

CONNECTICUT BIRD ATLAS

[HOME](#) [ABOUT](#) [SURVEYS](#) [MAPS](#) [EVENTS](#) [BLOG](#) [SHOP](#) [CONTACT US](#)

SEEKING **BIRD**WATCHERS

THE CONNECTICUT BIRD ATLAS NEEDS YOUR HELP!

VOLUNTEER



PAUL J. FUSCO
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PROTECTING THE STATE'S BIRDS REQUIRES THAT
WE KNOW WHERE THEY ARE.

YEAR 1:

Make initial predictions from existing data ...



The
North American
Breeding Bird
Survey



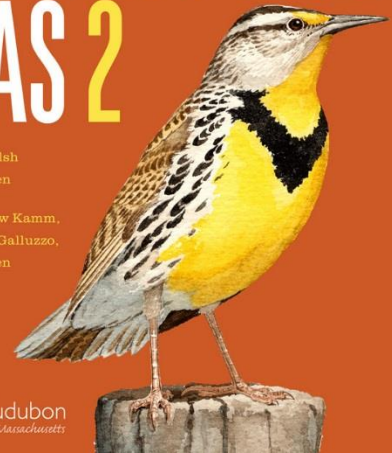
eBird

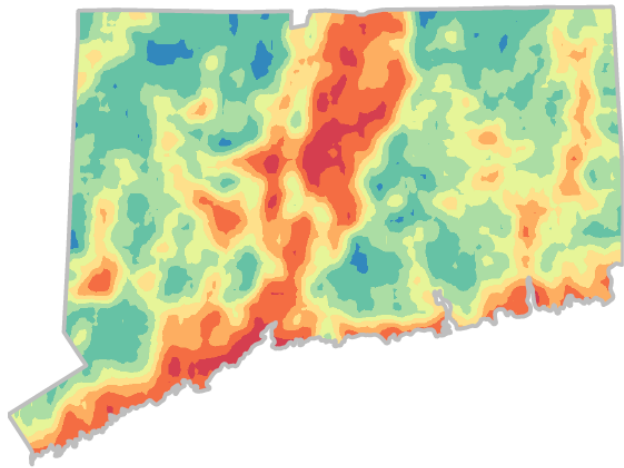
MASSACHUSETTS BREEDING BIRD ATLAS 2

Edited by Joan Walsh
and Wayne Petersen

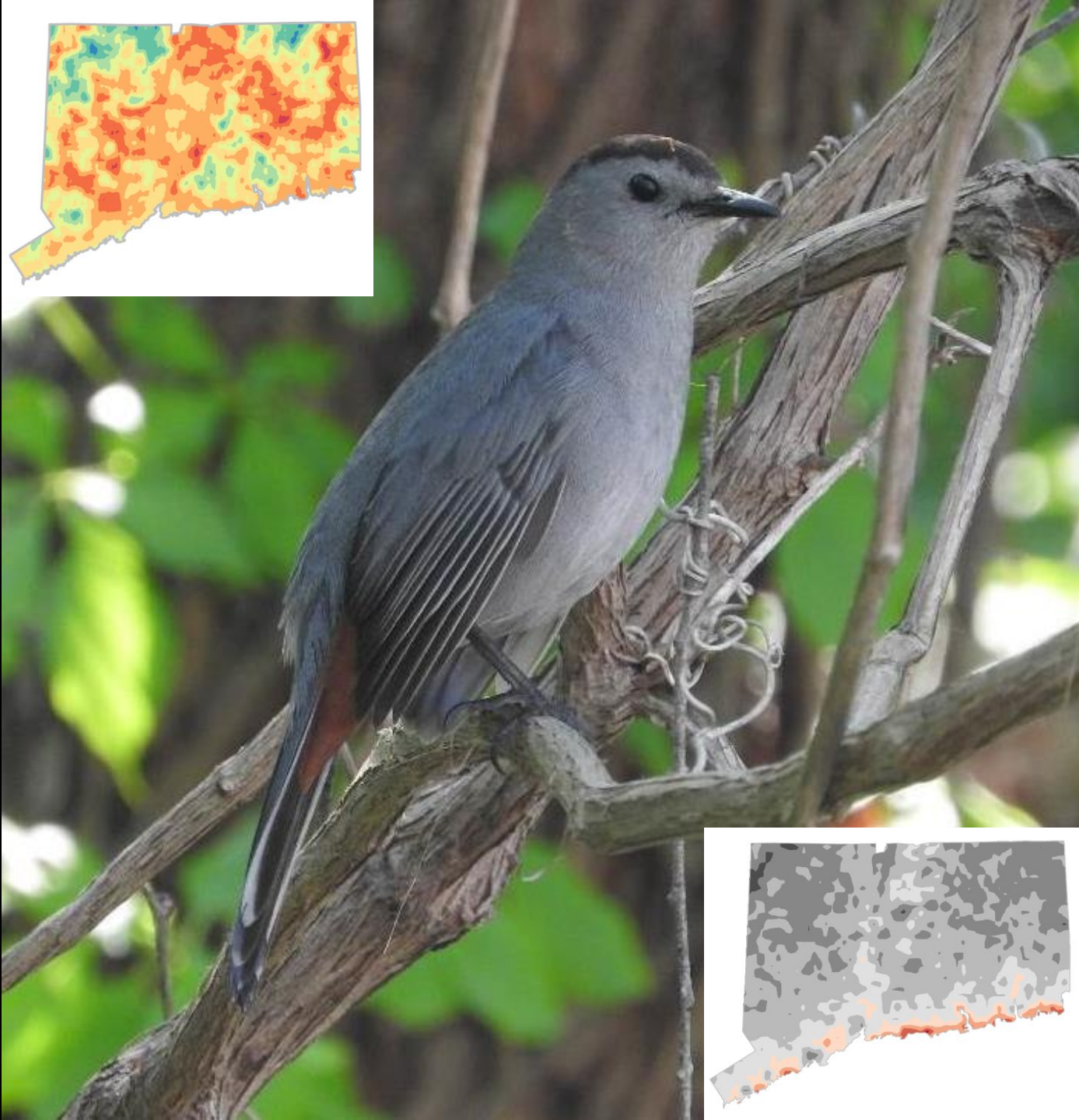
Written by Matthew Kamm,
Joan Walsh, John Galluzzo,
and Wayne Petersen

 Mass Audubon
Protecting the Nature of Massachusetts

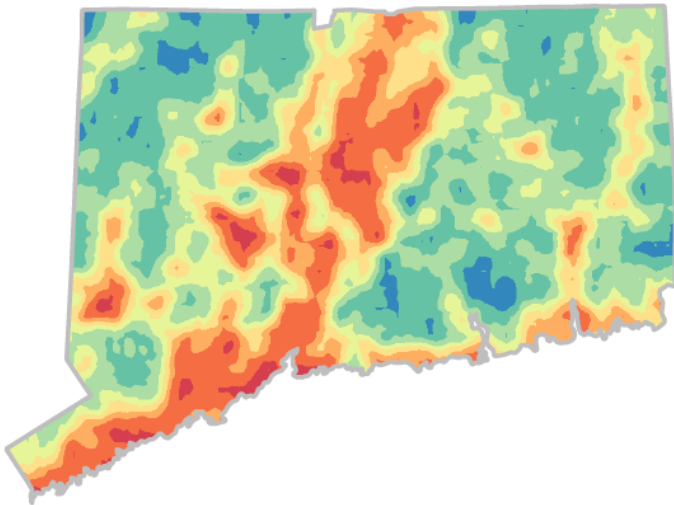
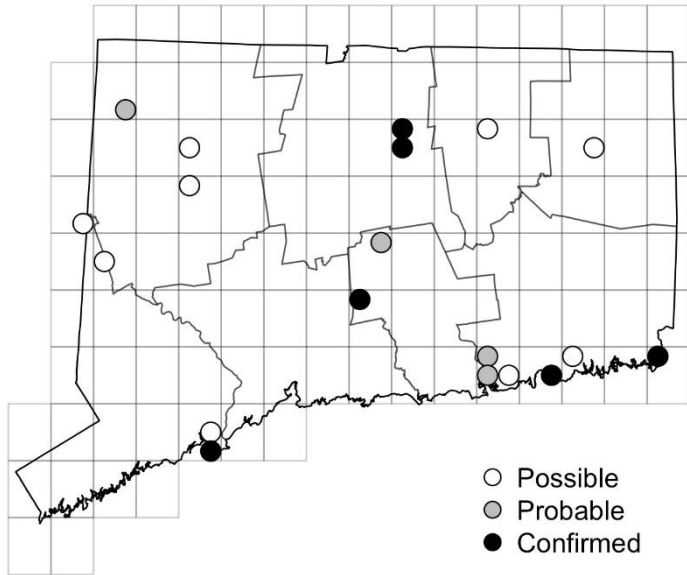




©Mark Szantyr



TAKE THE QUIZ



****only talk with prizes!!**

2018-2020: Collect new atlas data

- 1. traditional citizen science block work**
- 2. point counts to estimate abundance**
- 3. winter surveys**
- 4. migration surveys**



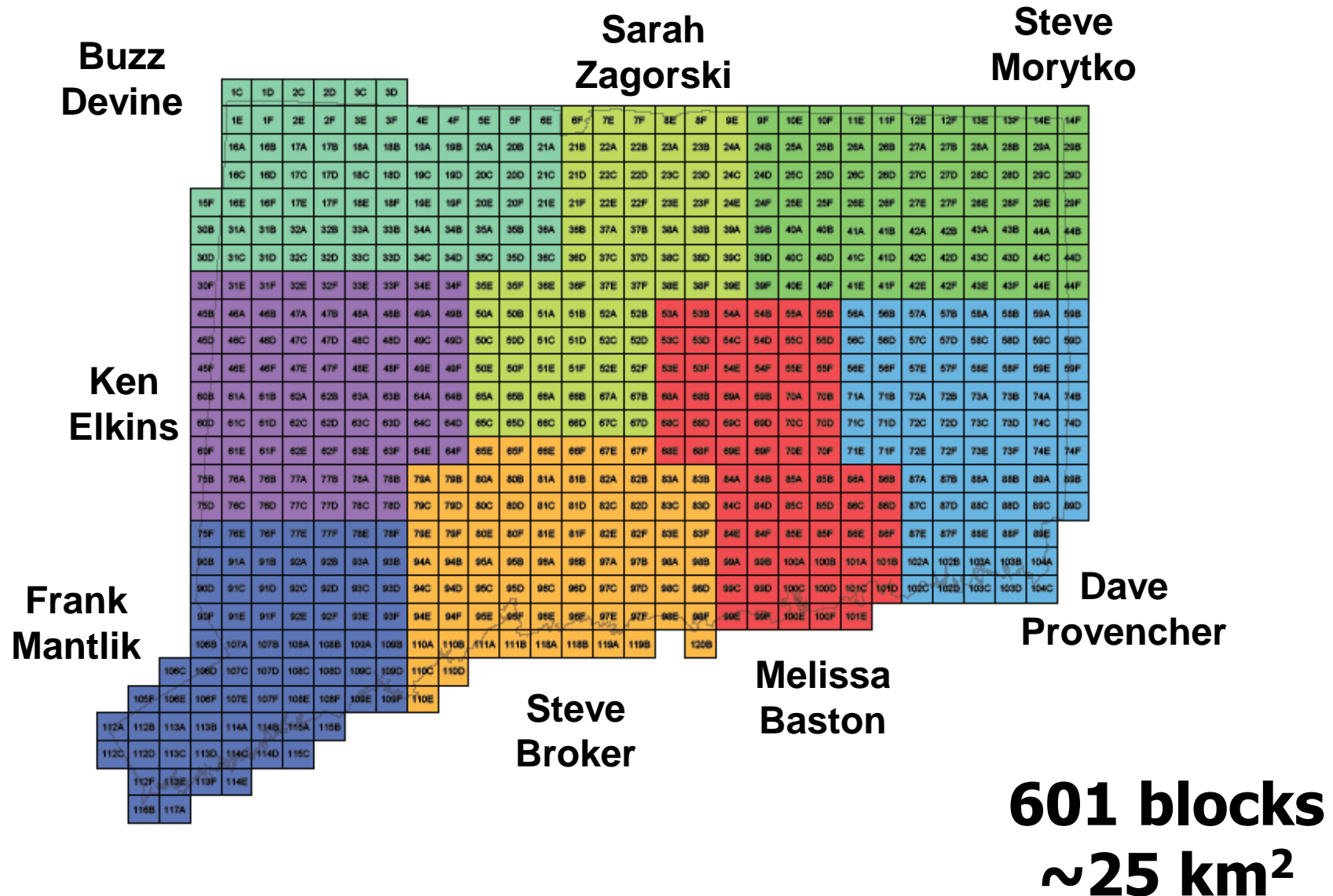
Analysis to test/refine predictions

- **test models**
- **upgrade predictions**
- **compare to 1980s atlas**
- **identify priority areas for conservation**
- **post data on-line**

How can birders help?



Volunteer to survey a block

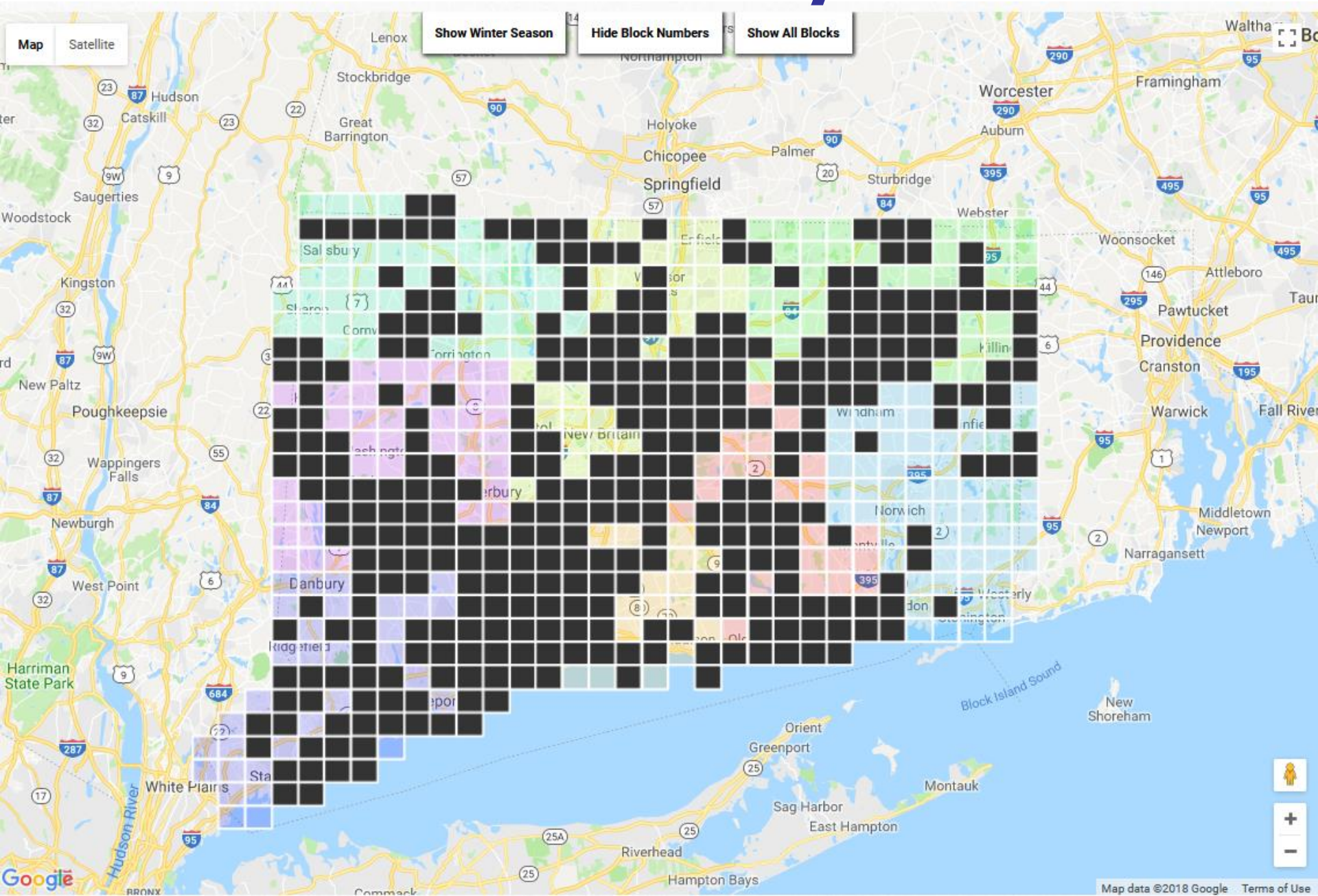


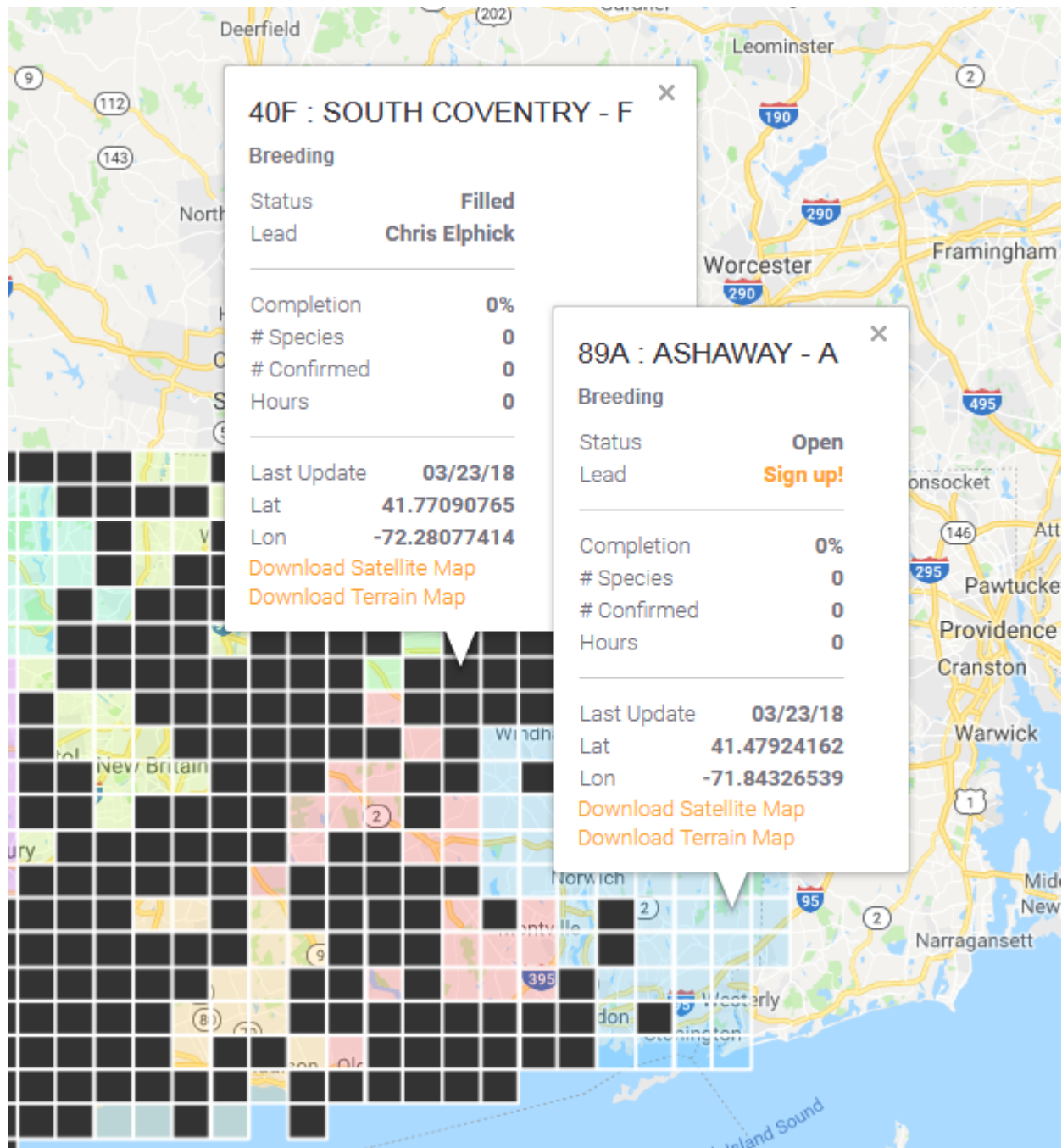
Breeding surveys

- **Spend up to 20 hours birding over 3 years**
- **Visit all habitats in a block**
- **List all species seen**
- **Record evidence of breeding using standard codes**



Volunteer to survey a block





What if “my” block is taken!?



What if “my” block is taken!?

- **Collect data anyway!**
- **Coordinate with assigned birder**
- **Pick another block**



What if I don't have time to do a block?

- **Collect data anyway!**
- **Submit records whenever you go birding**
- **Submit incidental records from your yard**
- **Submit incidental records any time you confirm breeding***

1 species total

1 Common Raven

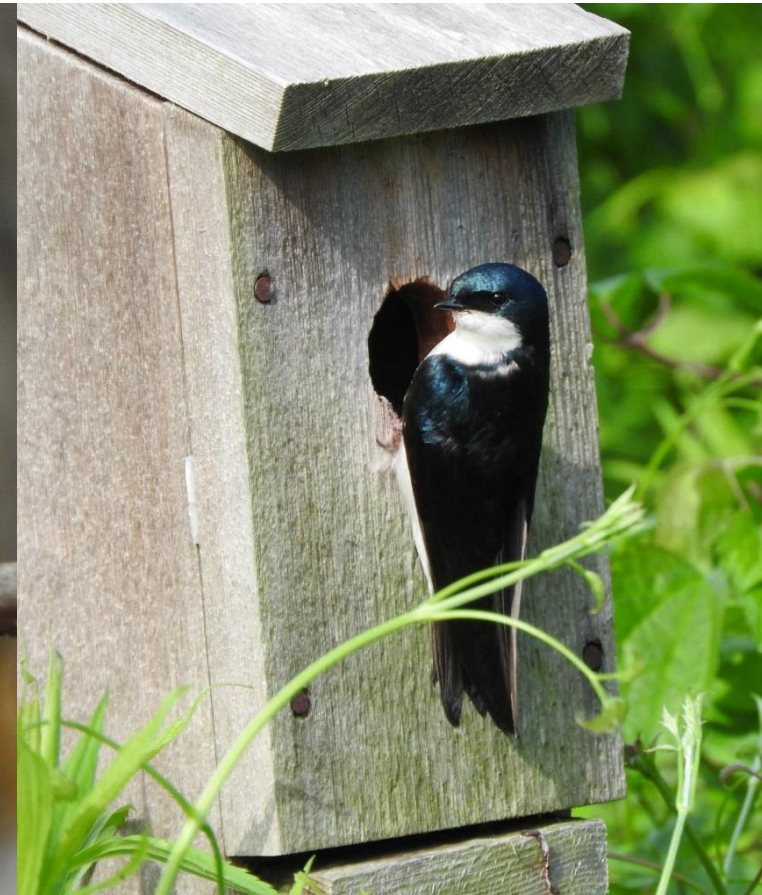
Flying low over the highway carrying a stick.

Breeding Code CN Carrying Nesting Material (Confirmed)



What if I don't think I'm a good enough birder?

Can you identify these species ...



When should I start?

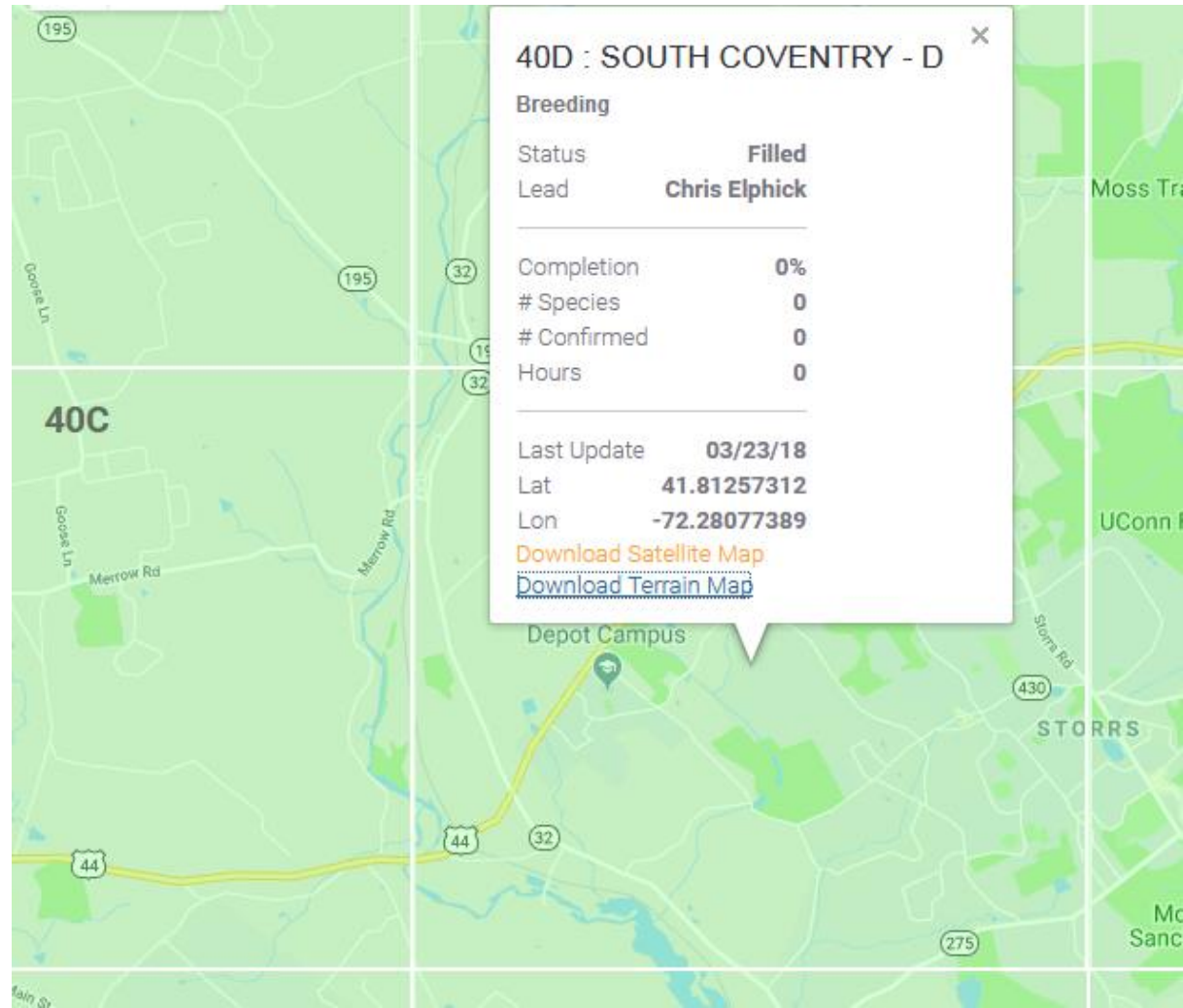
- **Now, but cautiously ...**



- **Safe date info on web site**
- **20 hours: mid-May – mid-Aug**

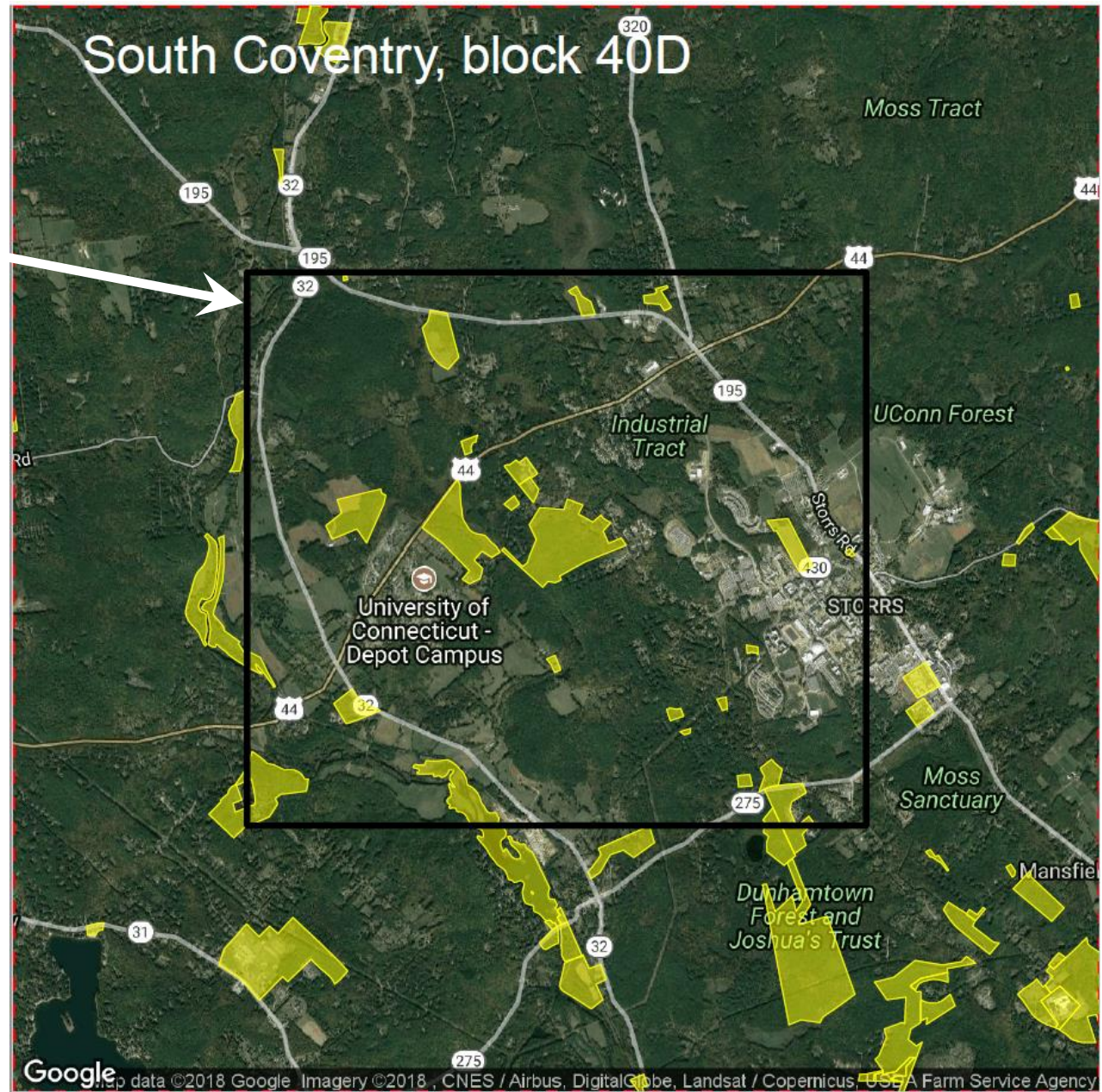
Where should I survey?

**Download
block maps**



Where should I survey?

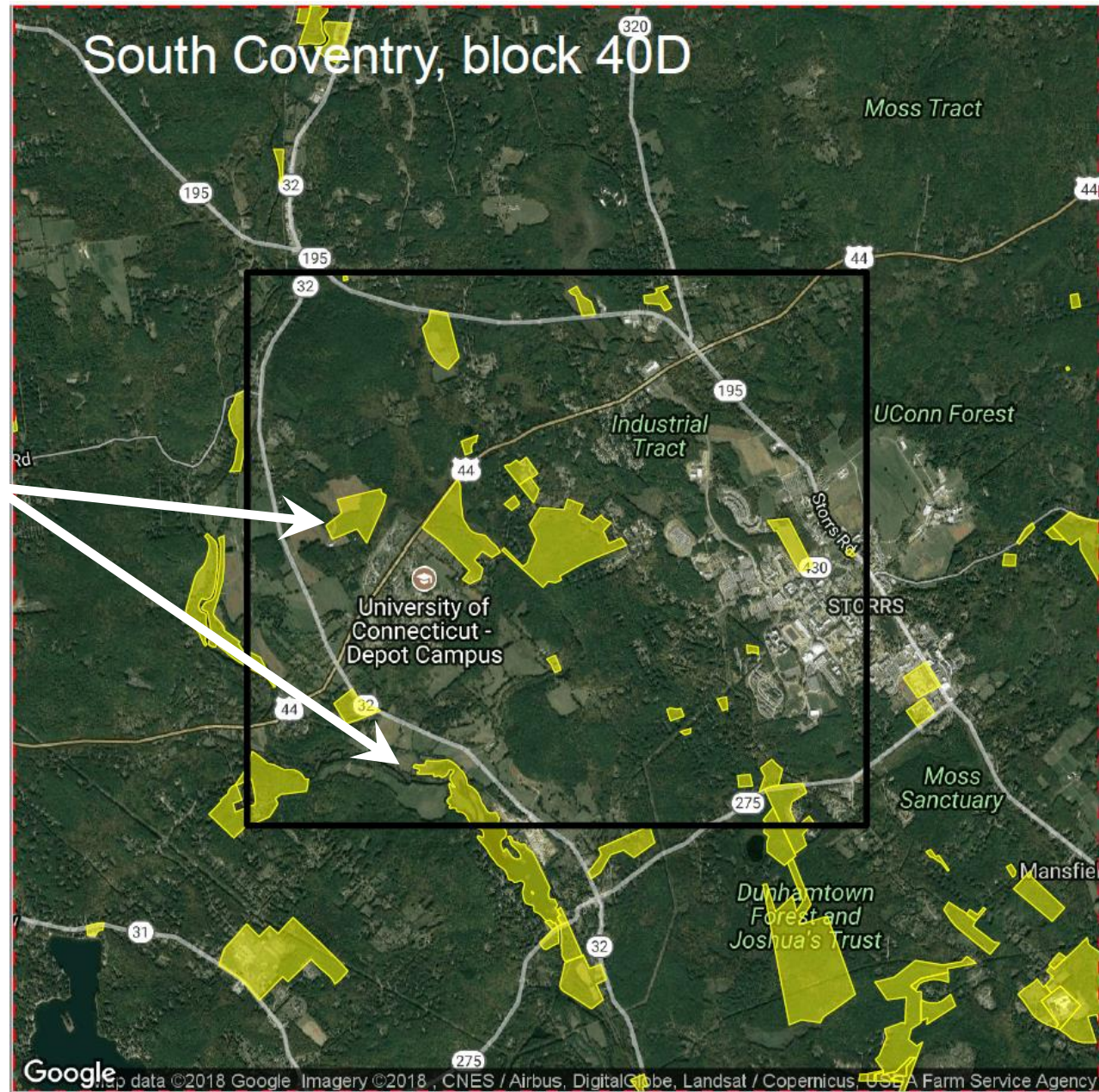
Block boundary



Where should I survey?

Block boundary

Public land

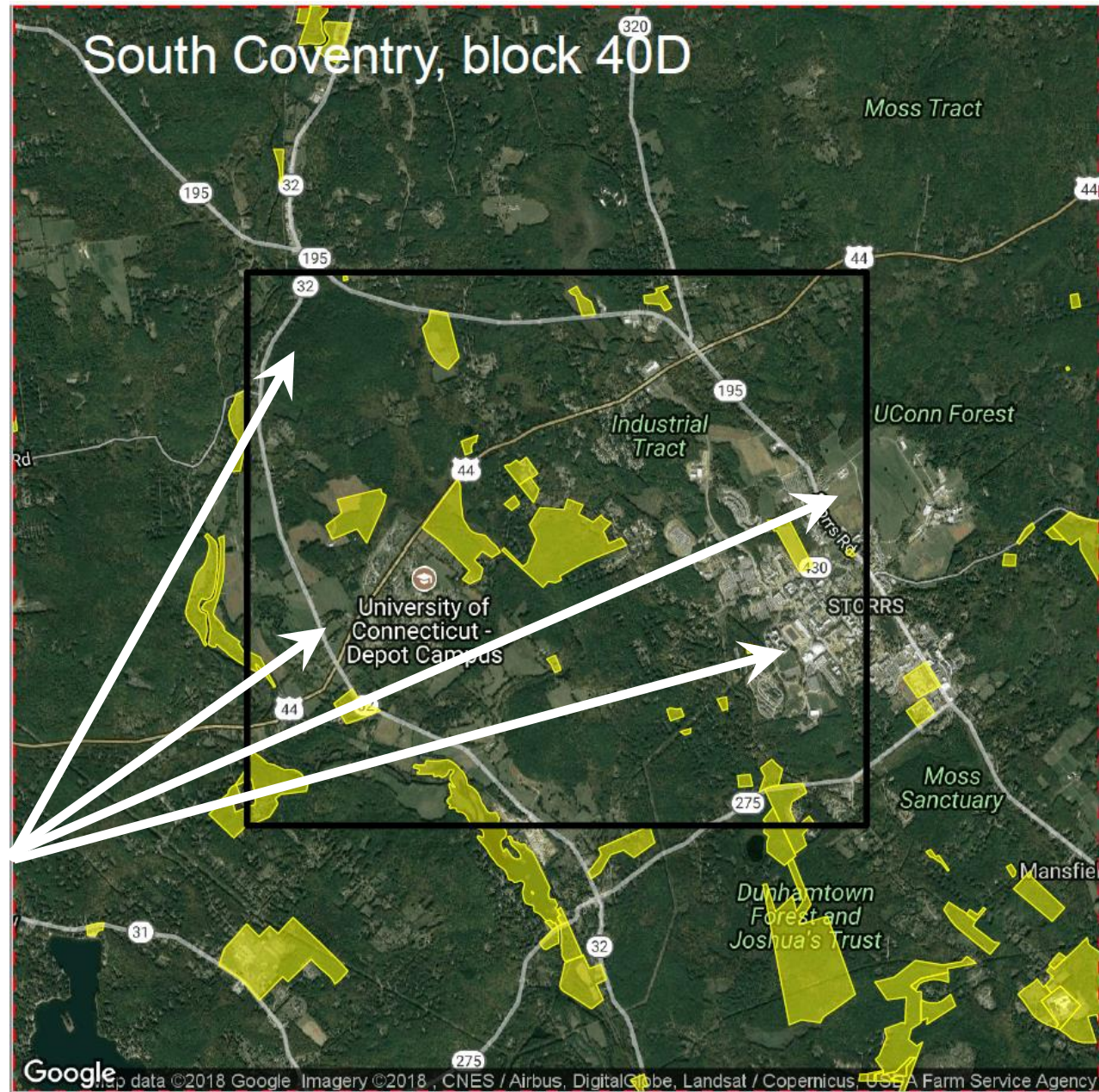


Where should I survey?

Block boundary

Public land

Different habitats



Do I have to find nests?



Many types of breeding evidence



©Mark Szantyr

T-Mobile Wi-Fi 11:52 63%

< Back Breeding Codes

S Singing Male

S7 Singing Male Present 7+ days

M Multiple (7+) Singing Males

P Pair in Suitable Habitat

T Territorial Defense

C Courtship, Display, or Copulation

N Visiting Probable Nest Site

A Agitated Behavior

B Woodpecker/Wren Nest Building

PE Physiological Evidence

CN Carrying Nesting Material

Many types of breeding evidence

➔ Stronger evidence

Observed/Possible breeding

X: observed



H: in suitable habitat



S: singing†



Probable breeding

P: mated pair



T: territoriality



C: courtship



N: probable nest site



A: agitated displays



B: nest building*



Confirmed breeding

PE: physiological signs



CN: nest material



NB: nest building*



DD: distraction display



UN: used nest



FL: fledglings



ON: occupied nest



CF: carrying food



FY: feeding young



FS: fecal sac



NE: nest with eggs



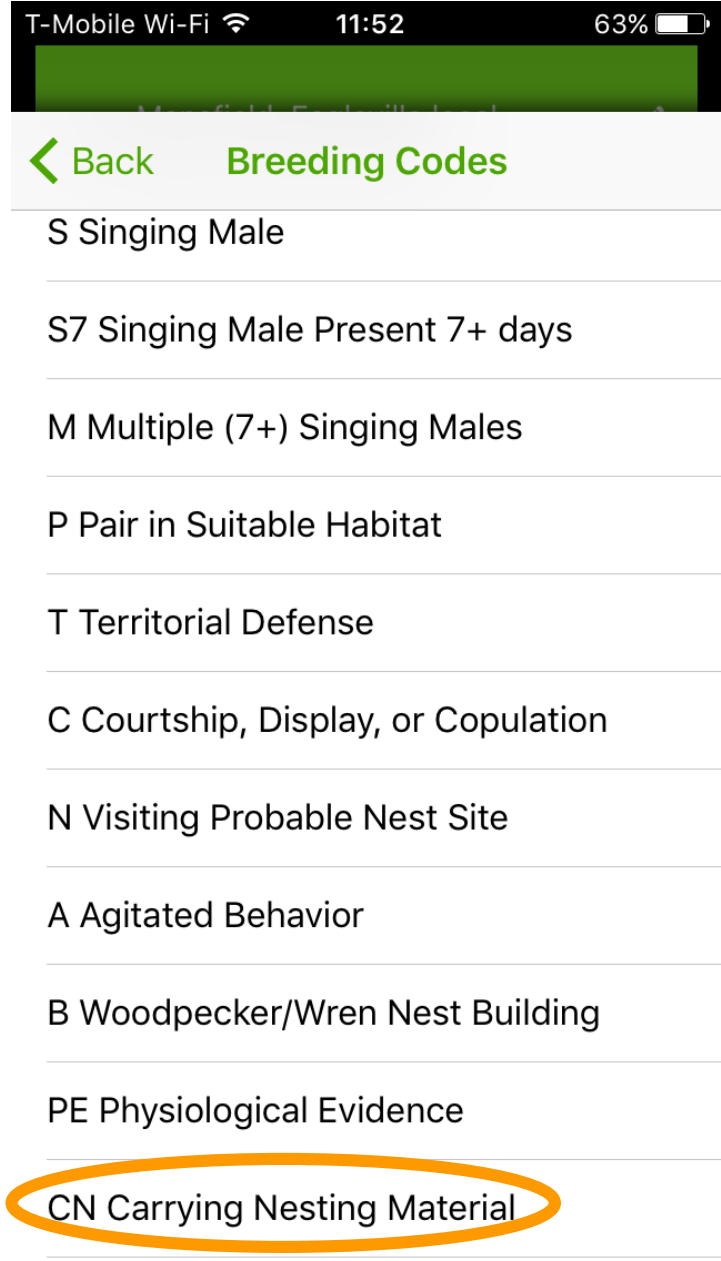
NY: nest with young



Many ways to confirm breeding



©Mark Szantyr



T-Mobile Wi-Fi

11:52

63%

< Back

Breeding Codes

S Singing Male

S7 Singing Male Present 7+ days

M Multiple (7+) Singing Males

P Pair in Suitable Habitat

T Territorial Defense

C Courtship, Display, or Copulation

N Visiting Probable Nest Site

A Agitated Behavior

B Woodpecker/Wren Nest Building

PE Physiological Evidence

CN Carrying Nesting Material

What data should I submit now?

- **Confirmed breeding**
- **Probable breeding in secretive species**
- **Any breeding evidence for rare breeders**

2 Common Raven

[Remove Species](#)

A very brief check of the nest revealed two beautiful blue-green eggs, laid presumably on February 25 and February 26. Female in incubation, male on one of his sentinel trees. A brief late afternoon check will determine the timing.

Breeding Code

NE Nest with Eggs (Confirmed)



ML87771411

[Macaulay Library](#)

© Stephen Broker
Eggs laid on February 25 and February 26.

How should I submit data?

CONNECTICUT BIRD ATLAS – BREEDING FIELD CARD

Use this form to report species detected during block surveys. **IMPORTANT:** Report only species found within the block boundaries. List a code for all species detected. Use a separate card for each visit.

- **Block number**
- **Site within the block (optional)**
- **Date, start time, end time**
- **Breeding code for every species you see**

How should I submit data?

CONNECTICUT BIRD ATLAS – INCIDENTAL OBSERVATION FORM

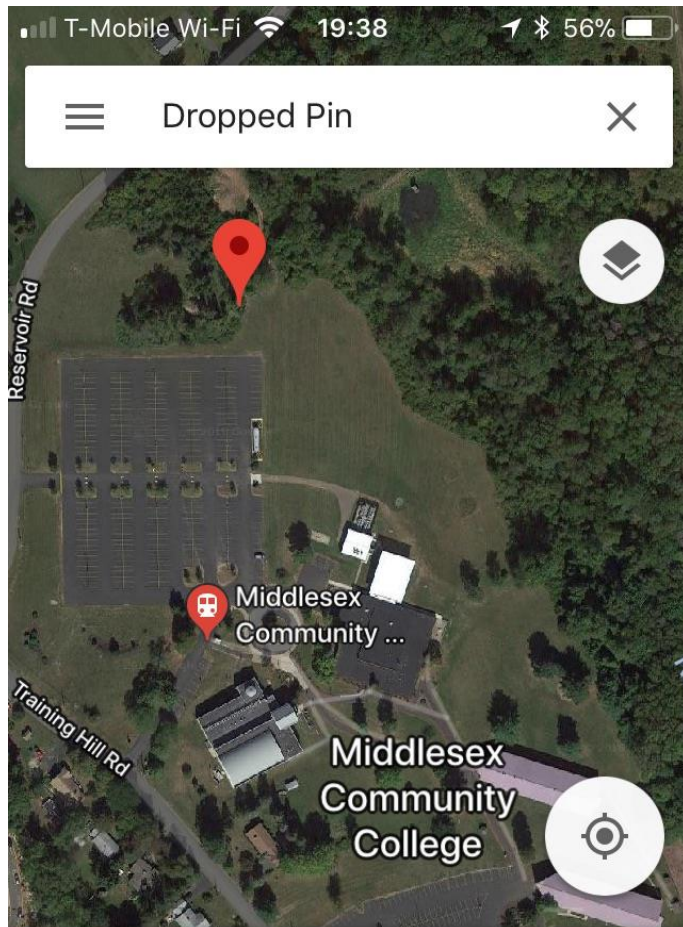
Use this form to report breeding species detected incidentally (i.e., when not surveying an assigned block). Incidental records are especially valuable if they confirm breeding for a species, or involve unusual or difficult to find species.

- **Location (block and/or lat-long)**
- **Date**
- **Breeding code for notable species**
 - **Confirmed breeding (always submit)**
 - **Hard to confirm species (always submit)**
 - **Rare species (always submit)**

How do I know where I am?

- **Use your phone to get lat/long**
- **Print and mark a map – send us a copy**
- **Use the web site's interactive map and just use the block number**

How do I know where I am?



Dropped Pin

near Unnamed Road, Middletown, CT 06457



Start (47 min)



Directions

How do I know where I am?

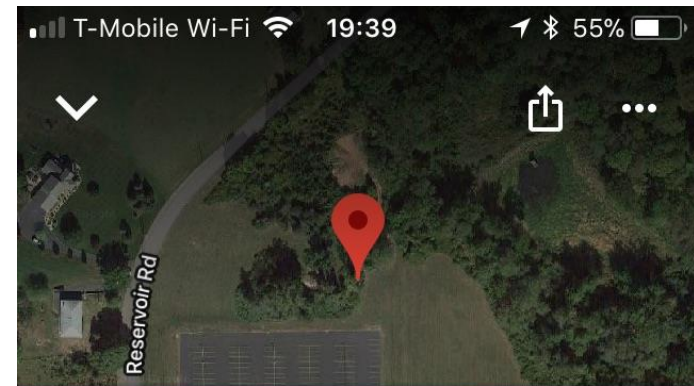


Dropped Pin

near Unnamed Road, Middletown, CT 06457

 Start (47 min)

 Directions



Dropped Pin

near Unnamed Road, Middletown, CT 06457

 Start (47 min)

 Directions



SAVE



LABEL



SHARE



DOWNLOAD



Measure distance



(41.5414292,-72.6118703)



87H9G9RQ+H7



Can I use eBird?

Checklist S43755720

Older

All Checklists

Newer

Location

UConn - compost facility, Tolland County, Connecticut, US [\(Map\)](#)

Edit Location

Date and Effort

Sun Mar 18, 2018 3:32 PM

Edit Date and Effort

Protocol: Stationary

Party Size: 1

Duration: 6 minutes (S)

Observer: [CT bird atlas](#) [List](#), **Chris Elphick**

Comments: N/A

Submitted from eBird for iOS, version 1.6.36

Print

Download

Email Yourself

Delete

Share w/ Others in Your Party

Send link via: [f](#) [t](#)

Submit another for...

Same location and date

UConn - compost facility, Tolland County, Connecticut, US on Sun Mar 18, 2018

Same location

UConn - compost facility, Tolland County, Connecticut, US

Same area and date

Another location near UConn - compost facility, Tolland County, Connecticut, US on Sun Mar 18, 2018

Same area

Another location near UConn - compost facility, Tolland County, Connecticut, US

Same date

Sun Mar 18, 2018

Different location and date

Hide from eBird Output ?

Change Portal

Species

1 species total

Hide Media

Edit Species List


1 Common Raven

Remove Species

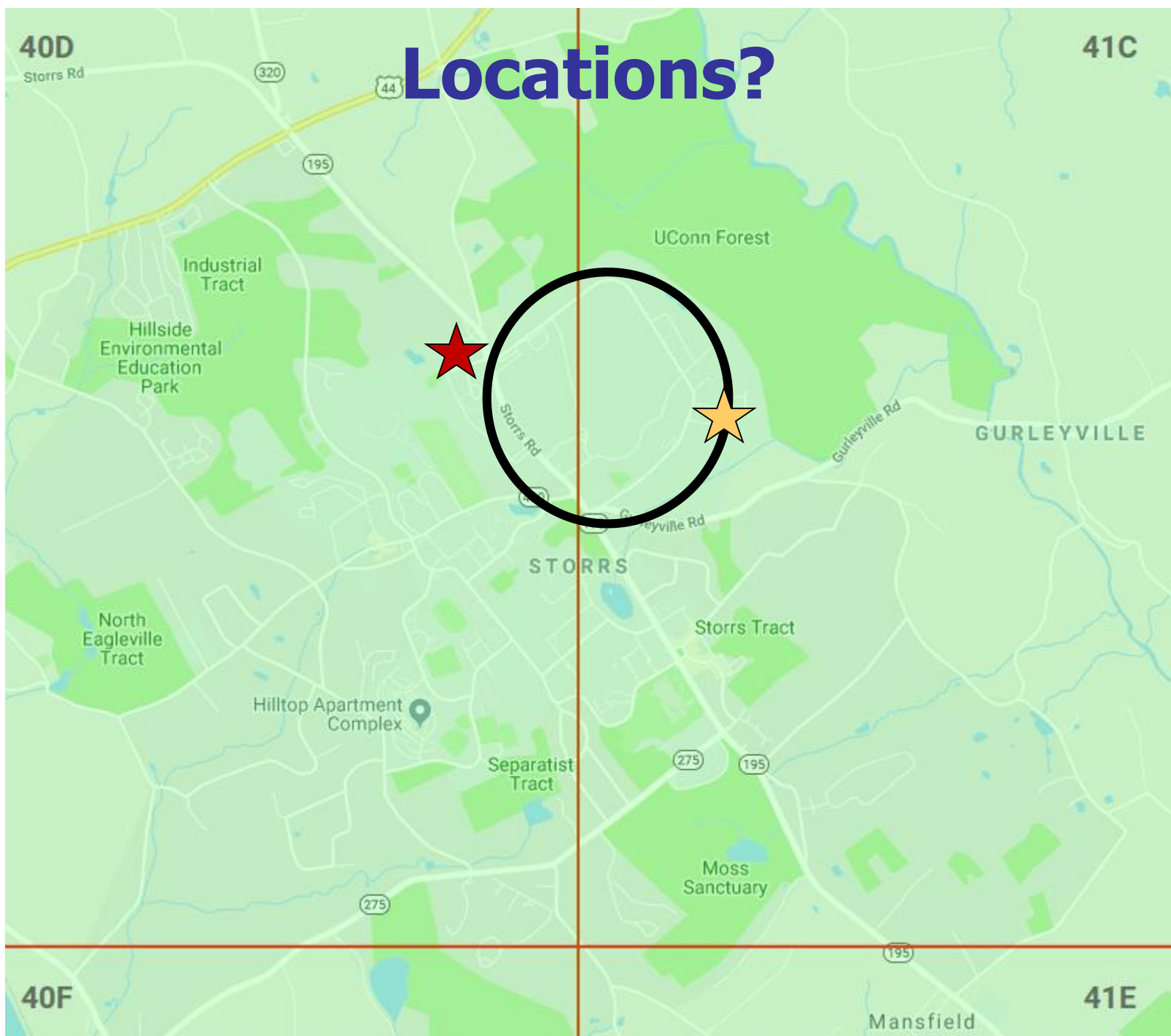
Same site used last year. Adult bird on nest.

Breeding Code

ON Occupied Nest (Confirmed)

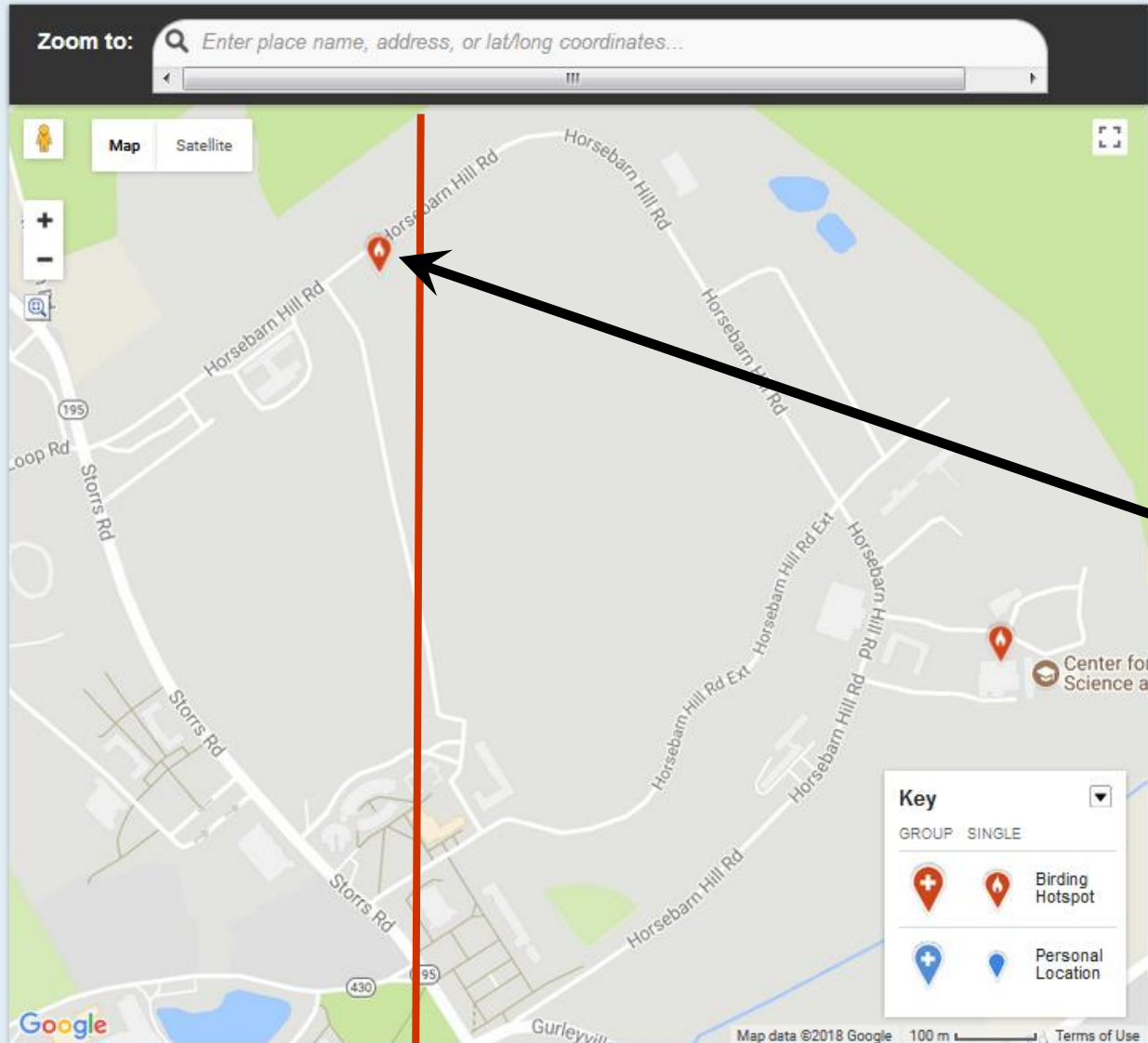


Locations?



eBird hotspot warning ...

1 2 3 Where did you bird?



Use the "zoom to" box to zoom to a place name, address, or coordinates in decimal degrees (e.g., 42.4792, -76.45138). You can also click "+" markers to zoom in on groups of birding hotspots or personal locations.

To choose an existing location, click on its marker.

For new locations, **zoom in as far as possible** and click on the map to place a green marker. This marks your new location. To reposition the marker, click anywhere on the map.

Chosen Location:

Horsebarn Hill



Do I have to use eBird?

- **NO!!!**
- **But, if you do, share your checklists with [ctbirdatlas](#)**



Manage My Checklists

[My Shared Checklists](#)

Page 1 of 5 | [1](#) | [2](#) | [3](#) | [4](#) | [5](#) [Show All](#)

Date	Location	County	St/Prov	
2018-03-22 19:01	Patrell Preserve Baker Ln, East Haddam US-CT (41.4347,-72.3324)	Middlesex	US-CT	View or edit Share Delete
2018-03-21 16:25	Menunketesuck River / Grove Beach Point	Middlesex	US-CT	View or edit Share Delete
2018-03-21 14:09	Manchester Landfill & Laurel Marsh	Hartford	US-CT	View or edit Share Delete
2018-03-21 13:30	Hager Creek Marsh Wildlife Area	Middlesex	US-CT	View or edit Share Delete
2018-03-21 11:50	Autumn Chase	Tolland	US-CT	View or edit Share Delete

Atlas stats

- **610 volunteers on email list**
- **233 block adopters**
- **327 blocks assigned (54%)**
- **118 eBird checklists**
- **2 species with more confirmations than first atlas**

Winter surveys

Up to 20 hours/block over three years



Lead or join “block-busting” events



What else can I do?

- **Go to a training session**
- **Read the blog**
- **Set aside time for the winter and stopover surveys**

MARCH 23, 2018 EDIT

Hawks with sticks

A few days ago, [Greg Hanisek wrote about his suggestions for finding hawk nests](#) to confirm breeding for the atlas project. Greg was careful to point out the ethical issues involved with nest finding and the importance of not approaching too closely. With that issue in mind, it's important to note that there are several ways to confirm breeding without getting close to, or even finding, a nest.

[Continue reading](#)

RECENT POSTS

[Hawks with sticks](#)

[Woodcocks galore](#)

[Nesting hawks](#)

[When is a pair of ducks really a pair of ducks?](#)

[Which eBird checklists should you share?](#)

Questions?



To volunteer:
ctbirdatlasvol@gmail.com

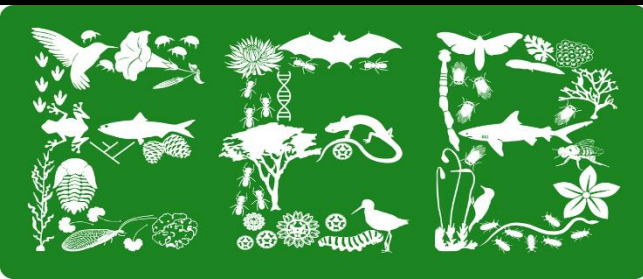
For other information, contact:
chris.elphick@uconn.edu



ctbirdatlas.org
#ctbirdatlas

<https://www.facebook.com/ctbirdatlasvol/>

**Department of Ecology and Evolutionary Biology
Center for Conservation and Biodiversity
University of Connecticut**



Connecticut Department of
**ENERGY &
ENVIRONMENTAL
PROTECTION**