



IGNITE: Citizen science programs (eBird)

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CBMP Terrestrial Steering Group - BIRDS

APECS Canada

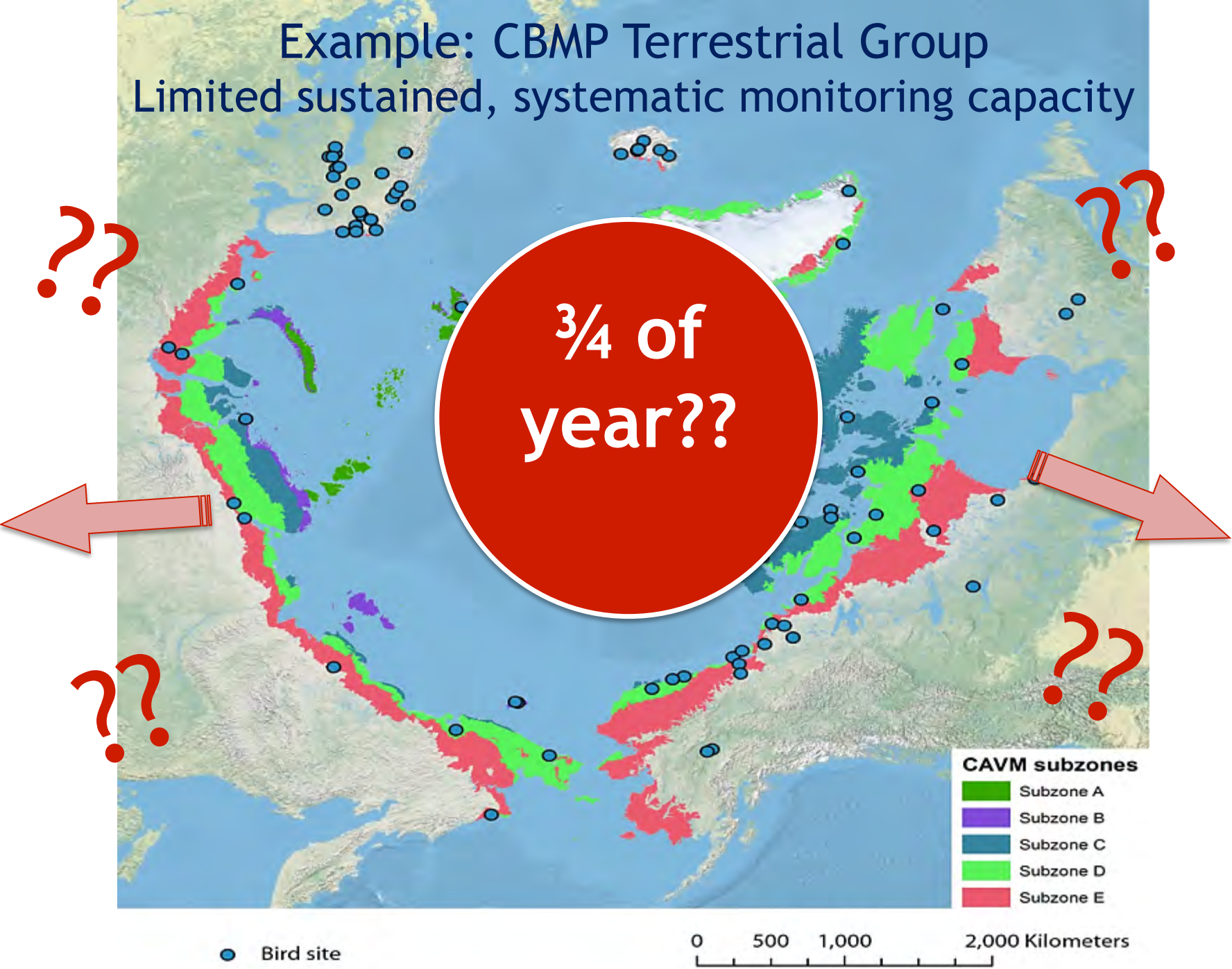


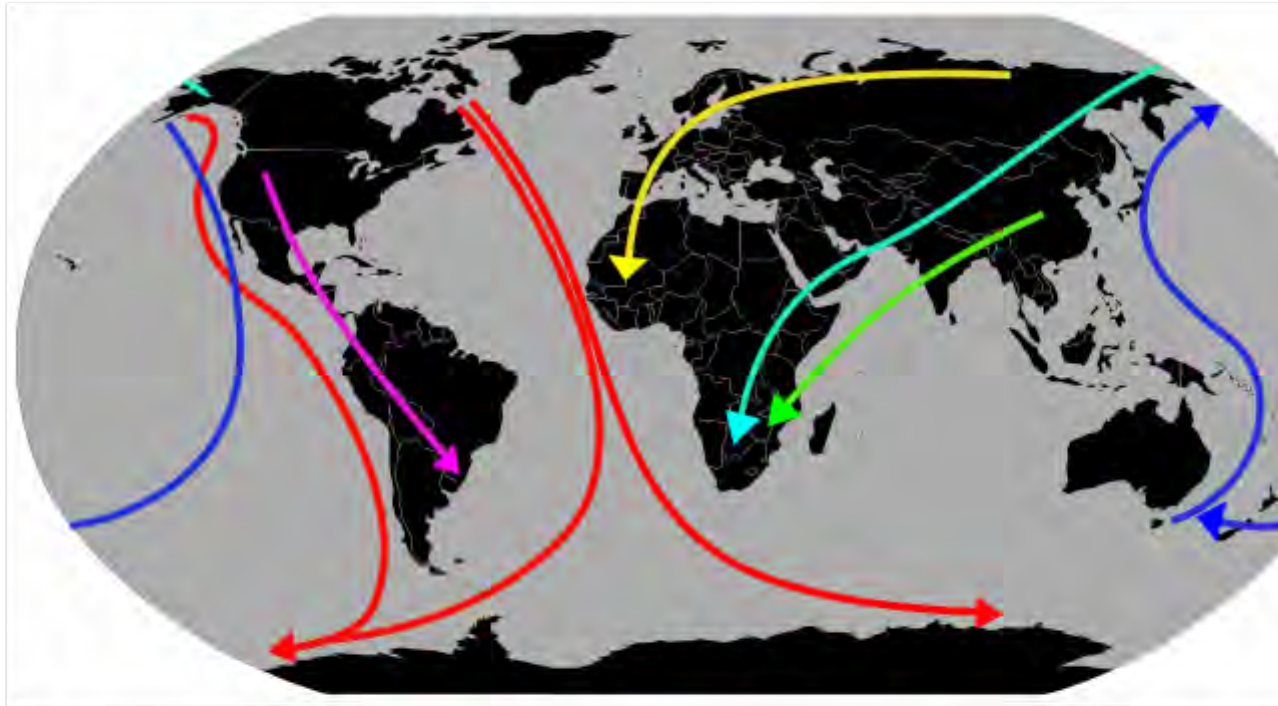
COLLABORATION ...
& 'CITIZEN SCIENTIST'!



Example: CBMP Terrestrial Group

Limited sustained, systematic monitoring capacity





- Oenanthe oenanthe* — Northern Wheatear
- Sterna paradisaea* — Arctic Tern
- Falco amurensis* — Amur Falcon
- Puffinus tenuirostris* — Short-tailed Shearwater
- Philomachus pugnax* — Ruff
- Buteo swainsoni* — Swainson's Hawk



NEWS

TRENDS | Movies | Grey Cup | Ghomeshi | NHL | Quinn-Cosby | Ferguson | Ottawa

This tiny songbird makes a 14,600-km migration each year from Alaska to Africa

News | February 15, 2012 3:01 PM ET | More from National News



Light-level geolocators

Northern Wheateater (*Oenanthe oenanthe*)

biology letters

Biol. Lett.

doi:10.1098/rsbl.2011.1223

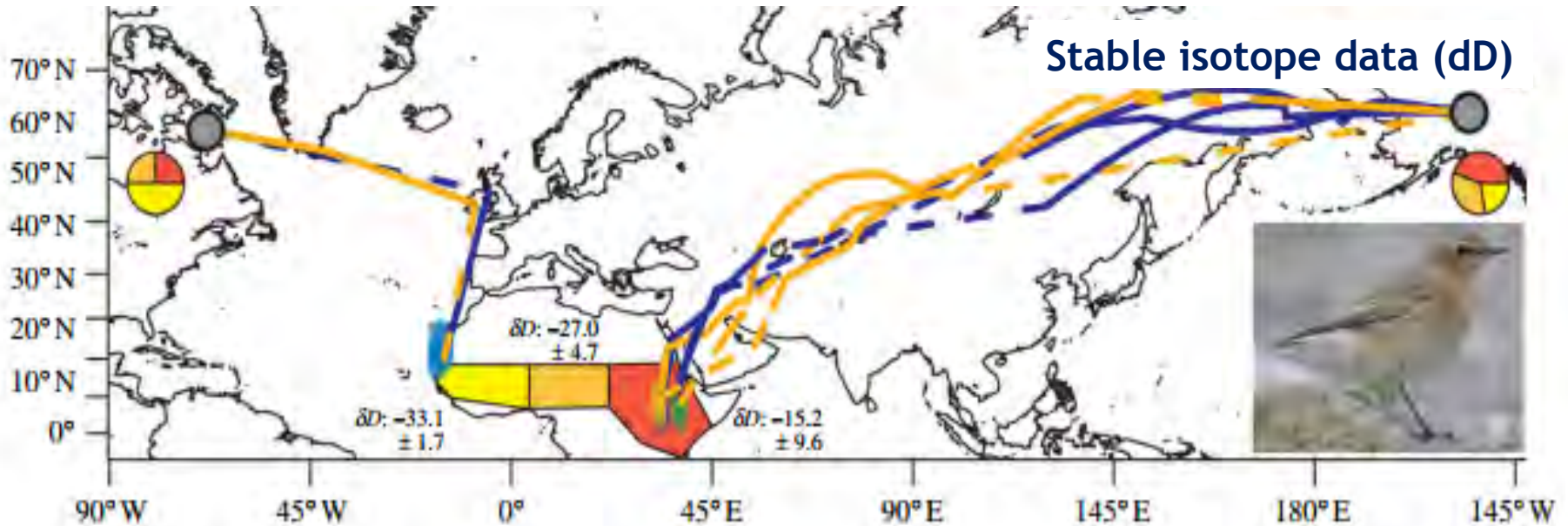
Published online

Animal behaviour

2012

Cross-hemisphere migration of a 25 g songbird

Franz Bairlein¹, D. Ryan Norris², Rolf Nagel¹, Marc Bulte¹, Christian C. Voigt³, James W. Fox⁴, David J. T. Hussell⁵ and Heiko Schmaljohann^{1,*}



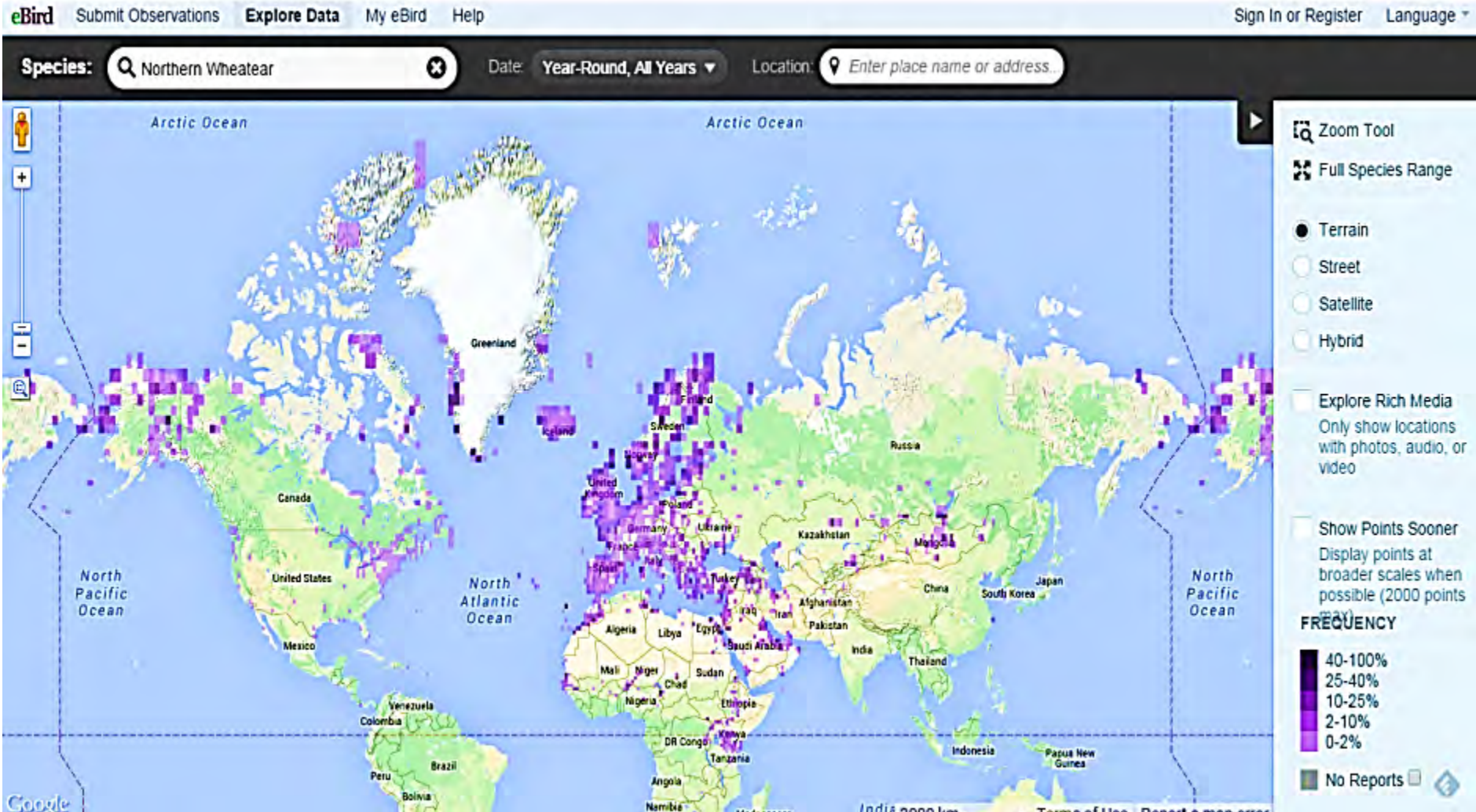
Frequency of submitted checklists by region that include species E.g. Northern Wheatear

eBird

The Cornell Lab of Ornithology

Exploring and Conserving Nature

<http://ebird.org/>



Frequency of submitted checklists by region that include species E.g. Northern Wheateater

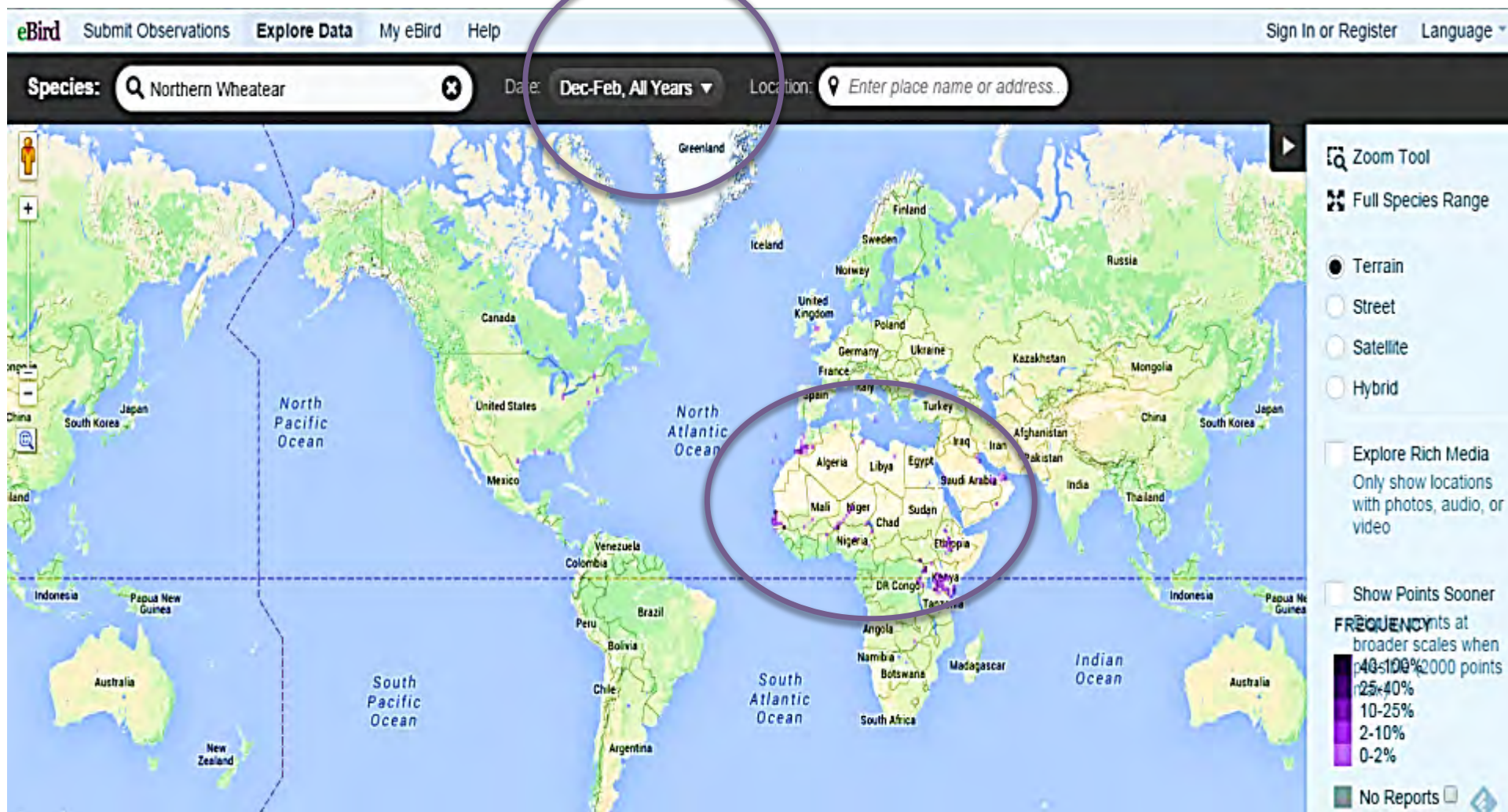
eBird

The **Cornell** Lab of Ornithology

Exploring and Conserving Nature

Wintering only

<http://ebird.org/>



Citizens = *eyes everywhere!*

Coats Island, Nunavut

Cruises: 1998=0; 2010=3+



Communities:

Neighbourhoods, work, travel, cruises, hiking, schools ...



Researchers:

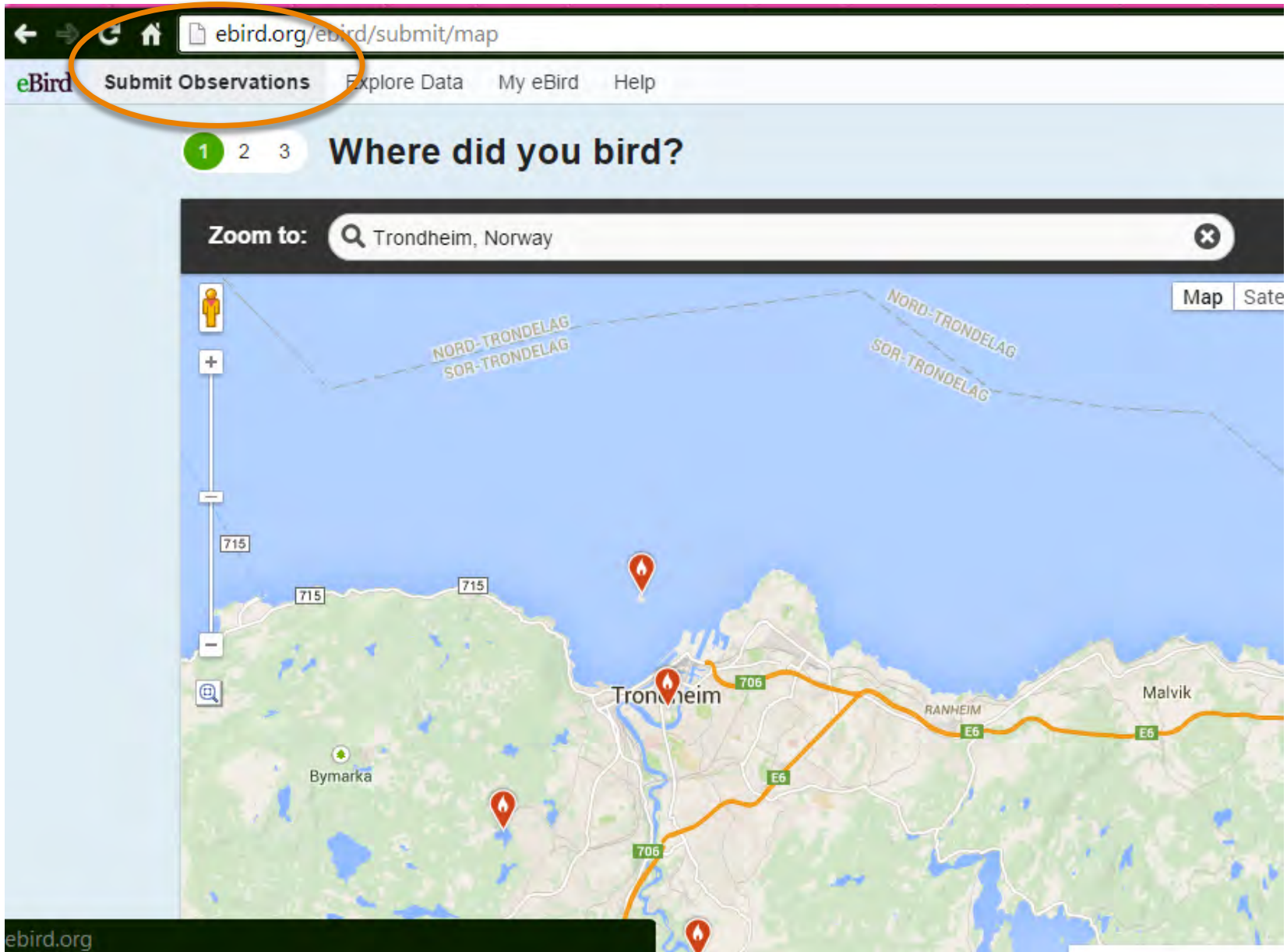
Field sites/stations, monitoring, archives, museums, data ...



Northern Ontario
Dead Ruffed Grouse

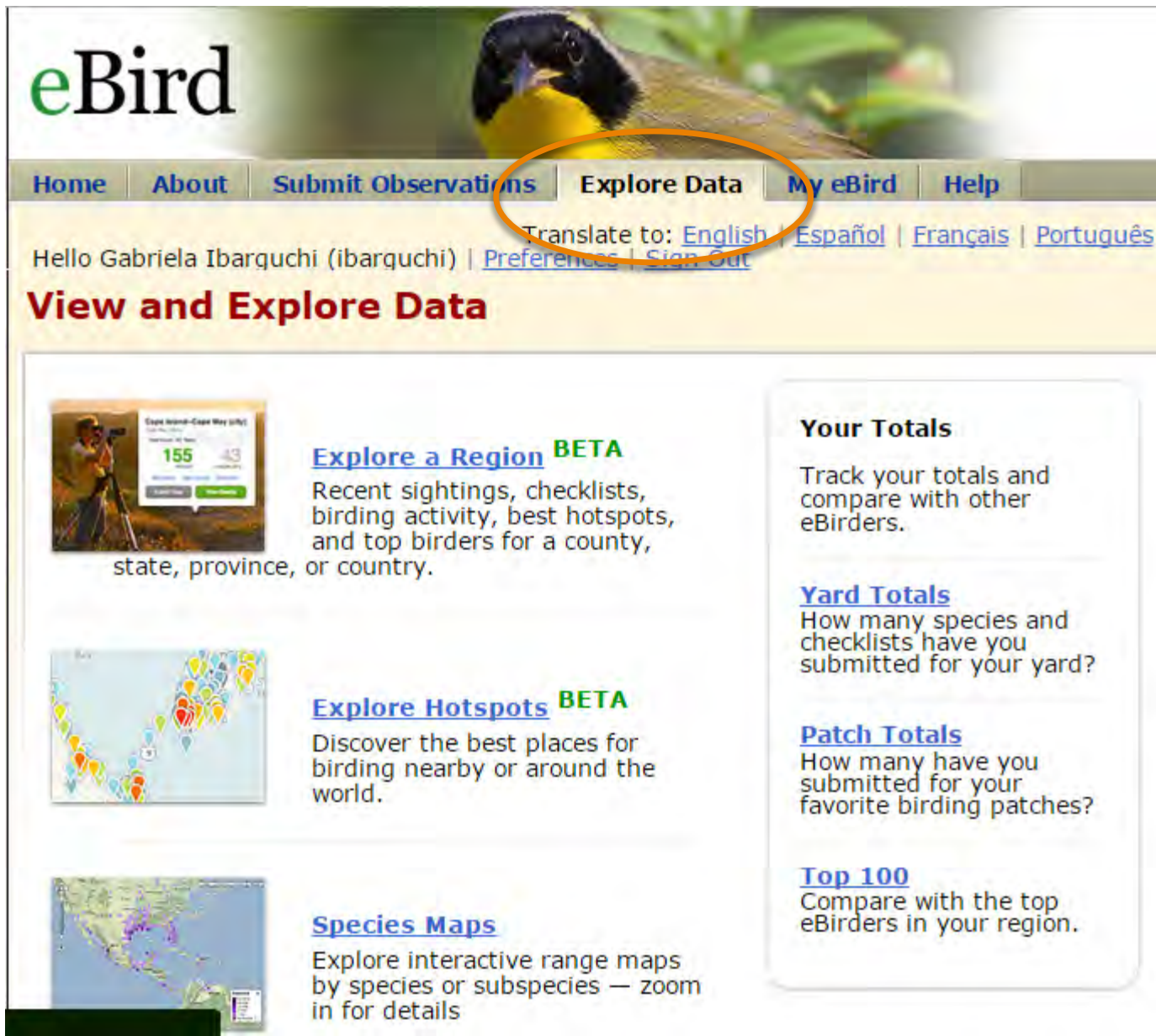
SUBMIT OBSERVATIONS:

Input site (Google Maps), lat./long. or use guided locator ...



EXPLORE FREE DATA, DISTRIBUTION MAPS, ETC.

View data or request large data sets from eBird ...




eBird

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Hello Gabriela Ibarquchi (ibarguchi) | [Preferences](#) | [Sign Out](#)

View and Explore Data




[Explore a Region](#) **BETA**

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



[Explore Hotspots](#) **BETA**

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



[Species Maps](#)

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

Your Totals

Track your totals and compare with other eBirders.

[Yard Totals](#)
How many species and checklists have you submitted for your yard?

[Patch Totals](#)
How many have you submitted for your favorite birding patches?

[Top 100](#)
Compare with the top eBirders in your region.

USE eBird data for research

(Example: Wilson's Snipe and GIS: freshwater habitat use; wind energy projects on islands in Ontario)



USE eBird data for research from stations, monitoring (Example protocols: eBird Canada & Important Bird Areas)



BIRD STUDIES CANADA
DES D'OISEAUX

Specific Guidelines

Please follow these guidelines as closely as possible when using this protocol and reporting your data on eBird:

1. **All checklists for a single inventory should be submitted for the same date.** Later on, our automated database tools will extract all observations from the same date and IBA that use the IBA protocol and will calculate the total number of individuals for each species on a given day.
2. You are encouraged to **submit distinct eBird checklists for different locations within the IBA, but should avoid reporting the same individual birds.** Some double-counting will be unavoidable, but the idea is to come up with the best estimate possible. This is particularly important for congregatory species that are likely to move around in large flocks, such as seabirds, waterfowl and shorebirds. It will require that:

* Observation Date:

Apr ▼ 29 ▼ 2014 ▼

* Observation Type:

Traveling

You traveled a specific distance — walking a trail, driving a refuge loop, field birding.

[▶ More Info...](#)

Stationary

You stayed at a fixed location — watching from a window, hawkwatching, seawatching.

[▶ More Info...](#)

Incidental

Birding was **not** your primary purpose or you lack required effort information — noting a bird while driving or gardening, historic records that lack effort info.

[▶ More Info...](#)

Other

Choose... ▼
Choose...
Area
eBird Pelagic Protocol
Random
Nocturnal Flight Call Count
Rusty Blackbird Spring Migration Blitz
IBA Canada (protocol)



Continue ▶

Share eBird data - BIG DATA!

Portals connect to share with AKN, GBIF, national portals

Avian
Knowledge
Network

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TOOLS

NODES

RESOURCES

<http://www.avianknowledge.net/>

eBird

The immensely successful eBird node has revolutionized the way that the birding community participates in science and conservation efforts worldwide.



WELCOME TO THE AKN!

The Avian Knowledge Network (AKN) is a partnership of people, institutions and government agencies supporting the conservation of birds and their habitats based on data, the adaptive management paradigm, and the best available science. AKN partners act to improve awareness, purpose, access to, and use of data and tools at scales ranging from individual locations to administrative regions (e.g., management areas, states, countries) and species ranges.

[AKN Goals](#)

[AKN Approach](#)

[Get Involved](#)

News

- [Bird Conservationists Migrate to Point Blue Conservation Science](#)

Share eBird data - BIG DATA!

Portals connect to share with AKN, GBIF, national portals

9/11/2014

A half a billion biodiversity records | eBird

eBird



We make it visible.

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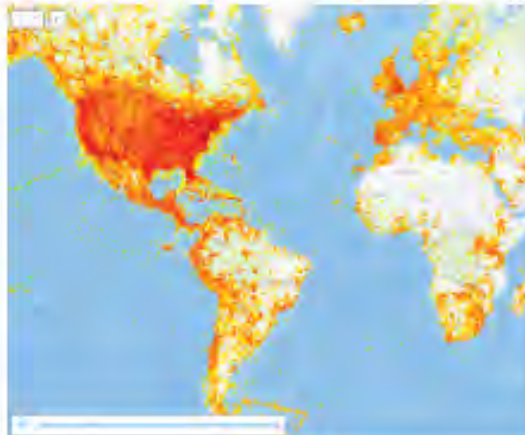
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Latest News

A half a billion biodiversity records

22 August 2014

Recently, eBird updated the data we share and publish through the **Global Biodiversity Facility (GBIF)**, an international infrastructure that provides open access to biodiversity data. One result of this refresh is that data accessible through GBIF's network now exceeds **500 million records**—a true milestone for access to biodiversity information. This short article explains how data are made available and includes an interactive map showing where observations come from.



News & Features

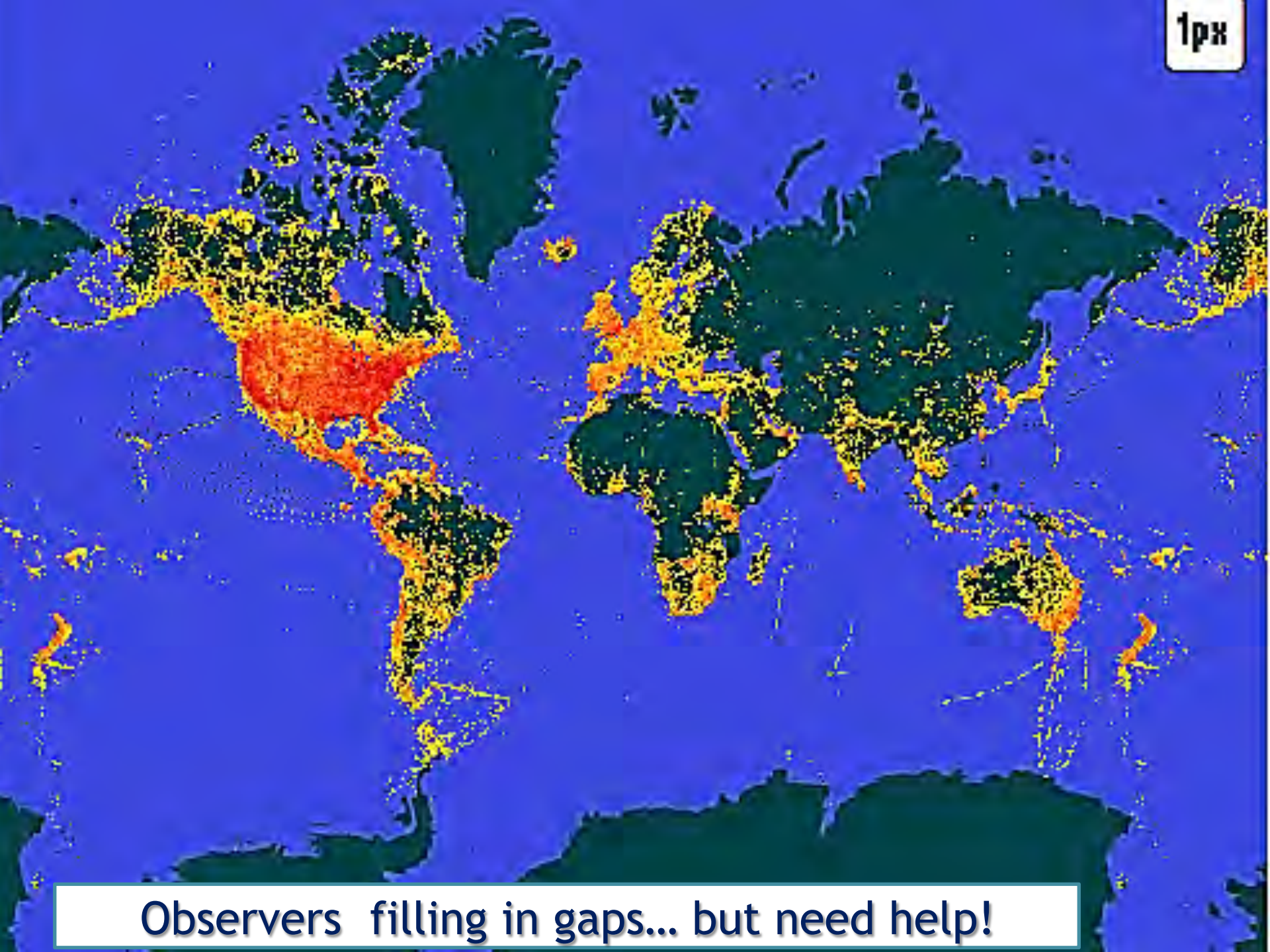
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eBird Resources

- [Merlin Bird ID App](#)
- [eBird Tech Talk](#)
- [eBird APIs](#)
- [Avibase](#)



Observers filling in gaps... but need help!



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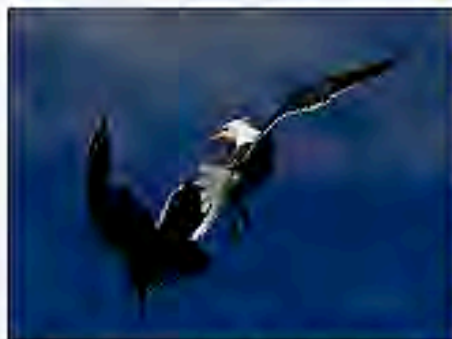
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[OCC FORUM](#)






OCC and SeaBC Announce Cooperative Effort to Record and Report Sea Bird Sightings




The SeaBC Sea Bird Count is a citizen science project organized by a volunteer group of nine long-distance birding sailors from around the world. The mission of SeaBC is to benefit seabird conservation by mobilizing the worldwide boating community to document ocean bird sightings, providing critical and seldom-recorded data on seabird abundance and distribution, as well as on ocean migration routes.

SeaBC seabird count data goes to Cornell University's eBird database (www.ebird.org), where boaters' sightings become a resource for scientists worldwide. Seabird knowledge is described as a frontier science. New species are still being discovered. Species believed to be extinct are being re-sighted. For some species, breeding or wintering areas remain unknown. This lack of knowledge is troubling given that BirdLife International estimates one-third of seabirds are now vulnerable or globally endangered due to threats from predators on nesting grounds, some fisheries practices, and marine pollution such as plastics.



 **Gabriela Ibarguchi**
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 July 14 at 10:01am · Latest version by Diana Richards Doyle

-  **SeaBC Hourly Count Tally Sheet.pdf** Download
 July 14 at 10:01am · Latest version by Diana Richards Doyle

-  **SeaBC Primer Laminate.pdf** Download
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-  **SeaBC Kids Primer Laminate.pdf** Download
 July 14 at 9:58am · Latest version by Diana Richards Doyle

ABOUT

 **Public Group**

Share birding & nature experiences with fellow birders and boaters. Community Bird Count.

CREATE NEW

 Group
 ever family

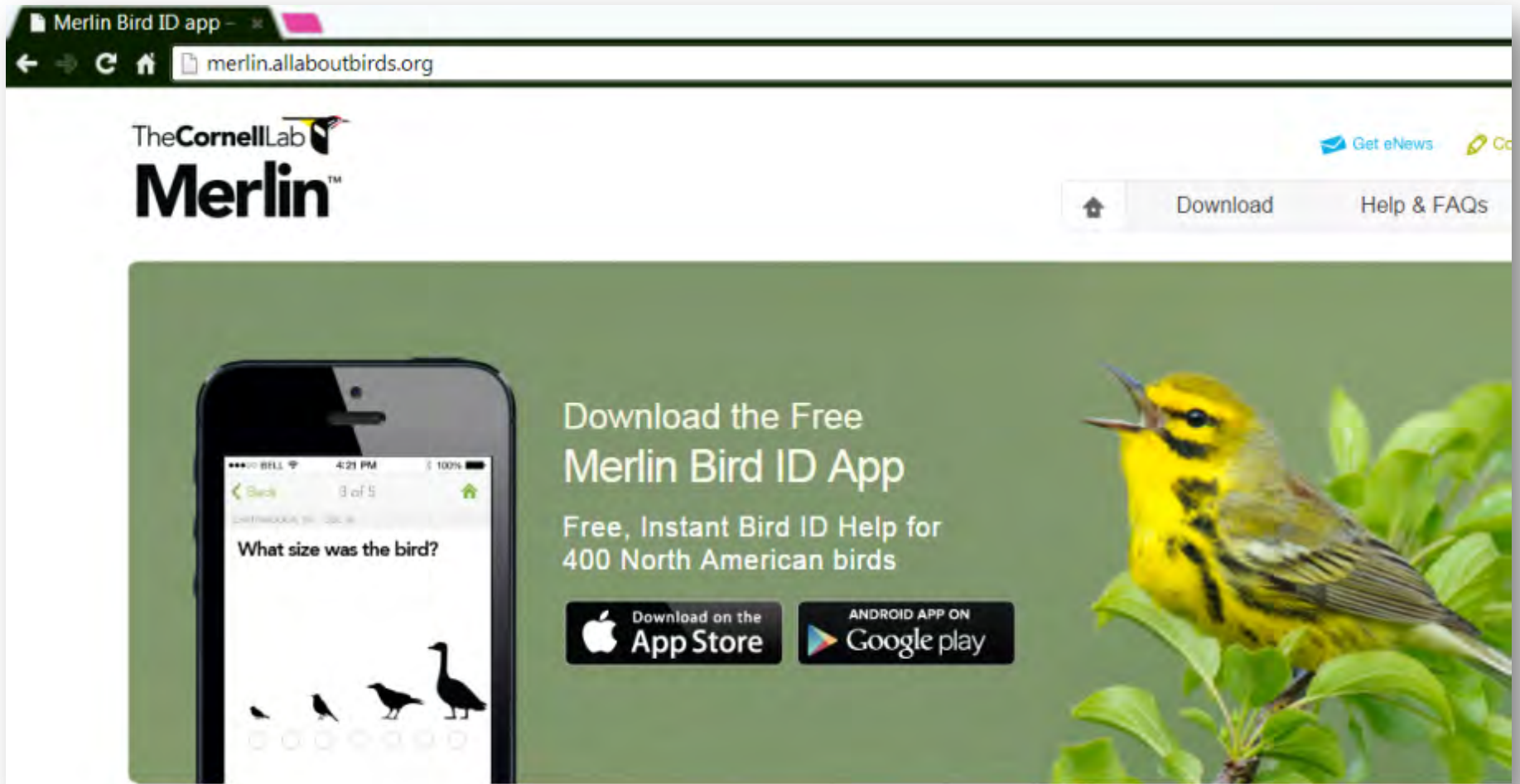
+ C

eBird and bird observers at sea...

Help users help YOU: eBird and Merlin Bird ID App

Mobile phones: spatial data, date, time, and id...

- Portal and forms are user-friendly



The screenshot shows a web browser displaying the Merlin Bird ID app page. The browser's address bar shows the URL merlin.allaboutbirds.org. The page features the logo for The Cornell Lab Merlin. In the top right corner, there are links for "Get eNews" and "Download". Below the logo, there is a navigation bar with a home icon, "Download", and "Help & FAQs". The main content area has a green background. On the left, a smartphone displays the app's interface with the question "What size was the bird?" and four bird silhouettes of increasing size. To the right of the phone, the text reads "Download the Free Merlin Bird ID App" and "Free, Instant Bird ID Help for 400 North American birds". Below this text are two buttons: "Download on the App Store" and "ANDROID APP ON Google play". On the far right, there is a photograph of a yellow warbler perched on a branch.



Contents lists available at [ScienceDirect](http://www.sciencedirect.com)

Biological Conservation

journal homepage: www.elsevier.com/locate/biocon

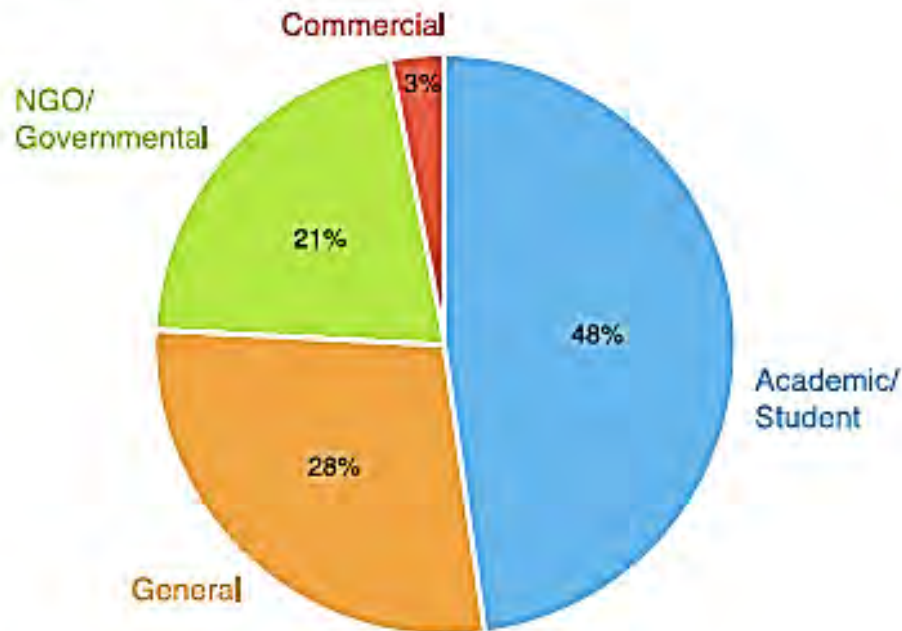


Review

The eBird enterprise: An integrated approach to development and application of citizen science



A Project Type



B Field of Study



Citizen Science and eBird - LESSONS LEARNED

SECRETS TO SUCCESS:

- Data ownership - observer access to own data
- User-friendly, flexible: simple or more complex
- Error-checking steps and algorithms
- **KNOW YOUR USERS** - tailor 'rewards' and 'recognition' for efforts, build 'respect' among peers
- Observers 'compete': record #s, unique sightings
- **CONSIDER USER NEEDS**, consultation, address needs
- **SHARE DATA** - accessible, free, products
- Almost real-time data

Citizen Science and eBird - LESSONS LEARNED

CHALLENGES:

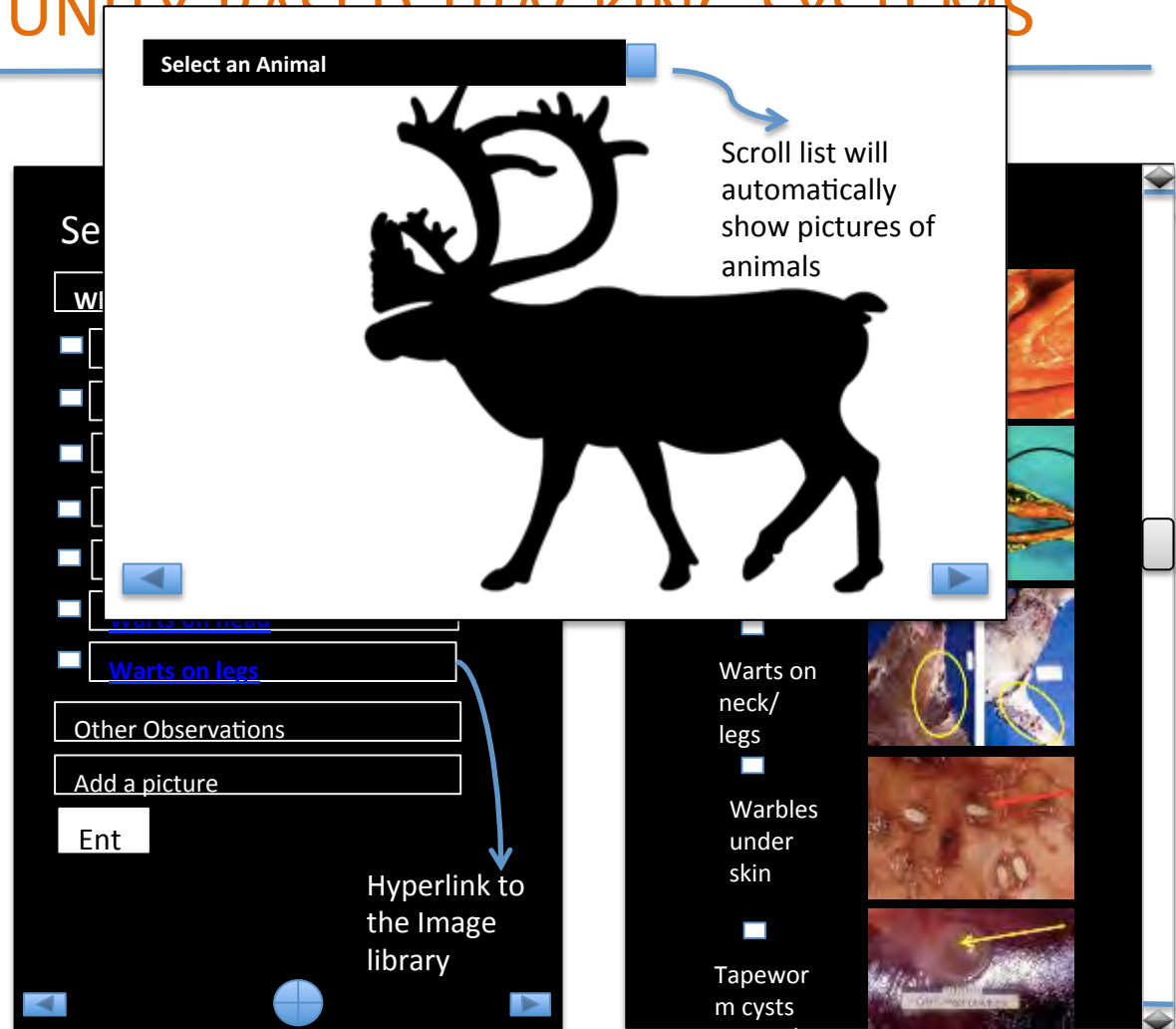
- Reminder - frequencies of observations within checklists or casual sightings; ABSENCE not known!
- Detectability differs by species
- Some identification error



- Work to maintain interest, new products, participation, 'rewards' for users
- Engaging other parts of the world!

ARCTIC BIOMAP

DESIGNING COMMUNITY-BASED TRACKING SYSTEMS



Dr. Allan J. Baker -
Nov. 20, 2014 (ROM)



GET INVOLVED: Citizen science (eBird)

- Your research site, station, institution
- Your data and archives
- Your community
- Your travel

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CONTRIBUTE to eBird: <http://ebird.org/>